



ACTIVE TRANSPORTATION PROGRAM CYCLE 1

Newhope-Civic Center-Grand Class II Bike Lanes Project

CITY OF SANTA ANA
PUBLIC WORKS AGENCY
20 CIVIC CENTER PLAZA, M-43
SANTA ANA, CA 92702





ACTIVE TRANSPORTATION PROGRAM CYCLE 1

APPLICATION Part 1 (Includes Sections I, V, VI, VII, VIII & XI)

Please read the Application Instructions at
<http://www.dot.ca.gov/hq/LocalPrograms/atp/index.html>
prior to filling out this application

Project name:

For Caltrans use only: ___TAP ___STP ___RTP ___SRTS ___SRTS-NI ___SHA
___DAC ___Non-DAC ___Plan

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Active Transportation Program

Project: City of Santa Ana - Newhope-Civic Center-Grand Class II Bike Lanes Project

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I. GENERAL INFORMATION

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Project name:

(fill out all of the fields below)

1. APPLICANT (Agency name, address and zip code)	2. PROJECT FUNDING ATP funds Requested \$ _____ Matching Funds \$ _____ (If Applicable) Other Project funds \$ _____ TOTAL PROJECT COST \$ _____
3. APPLICANT CONTACT (Name, title, e-mail, phone #)	5. PROJECT COUNTY(IES):
4. APPLICANT CONTACT (Address & zip code)	7. Application # _____ of _____ (in order of agency priority)
6. CALTRANS DISTRICT #- Click Drop down menu below	

Area Description:

8. Large Metropolitan Planning Organization (MPO)- Select your "MPO" or "Other" from the drop down menu>	
9. If "Other" was selected for #8- select your MPO or RTPA from the drop down menu>	
10. Urbanized Area (UZA) population (pop.)- Select your UZA pop. from drop down menu>	

Master Agreements (MAs):

11. Yes, the applicant has a FEDERAL MA with Caltrans.
12. Yes, the applicant has a STATE MA with Caltrans.
13. If the applicant does not have an MA. Do you meet the Master Agreement requirements? Yes No
The Applicant MUST be able to enter into MAs with Caltrans

Partner Information:

14. Partner Name*:	15. Partner Type
16. Contact Information (Name, phone # & e-mail)	17. Contact Address & zip code

Click here if the project has more than one partner; attach the remaining partner information on a separate page

*If another entity agrees to assume responsibility for the ongoing operations and maintenance of the facility, documentation of the agreement must be submitted with the application, and a copy of the Memorandum of Understanding or Interagency Agreement between the parties must be submitted with the request for allocation.

Project Type: (Select only one)

18. Infrastructure (IF) 19. Non-Infrastructure (NI) 20. Combined (IF & NI)

Project name:

I. GENERAL INFORMATION-continued

Sub-Project Type (Select all that apply)

21. Develop a Plan in a Disadvantaged Community (select the type(s) of plan(s) to be developed)
 Bicycle Plan Safe Routes to School Plan Pedestrian Plan
 Active Transportation Plan

(If applying for an Active Transportation Plan- check any of the following plans that your agency already has):

- Bike plan Pedestrian plan Safe Routes to School plan ATP plan

22. Bicycle and/or Pedestrian infrastructure
Bicycle only: Class I Class II Class III
Ped/Other: Sidewalk Crossing Improvement Multi-use facility

Other:

23. Non-Infrastructure (Non SRTS)
 24. Recreational Trails*- Trail Acquisition

***Please see additional Recreational Trails instructions before proceeding**

25. Safe routes to school- Infrastructure Non-Infrastructure

If SRTS is selected, provide the following information

26. SCHOOL NAME & ADDRESS:
27. SCHOOL DISTRICT NAME & ADDRESS:

28. County-District-School Code (CDS)	29. Total Student Enrollment	30. Percentage of students eligible for free or reduced meal programs **
31. Percentage of students that currently walk or bike to school	32. Approximate # of students living along school route proposed for improvement	33. Project distance from primary or middle school

**Refer to the California Department of Education website: <http://www.cde.ca.gov/ds/sh/cw/filesafdc.asp>

- Click here if the project involves more than one school; attach the remaining school information including school official signature and person to contact, if different, on a separate page

II. PROJECT INFORMATION

II. PROJECT INFORMATION

(Please read the "ATP instructions" document prior to attaching your responses to all of the questions in Sections II. Project Information, Section III. Screening Criteria and Section IV. Narrative Questions - 20 pages max)

1. Project Location

The Newhope-Civic Center-Grand Class II Bike Lanes Project has three segments: 0.45 miles on Newhope Street from First Avenue to McFadden Avenue; 0.87 miles on Civic Center Drive from Bristol Street to Broadway; and 1.25 miles on Grand Avenue from 21st Street to Fairhaven Avenue in the City of Santa Ana, Orange County. A map of the project is provided in Attachment A.

2. Project Coordinates

Latitude Longitude
(Decimal degrees) (Decimal degrees)
For Newhope Street from First Avenue to McFadden Avenue

Latitude Longitude
(Decimal degrees) (Decimal degrees)
For Civic Center Drive from Bristol Street to Broadway

Latitude Longitude
(Decimal degrees) (Decimal degrees)
For Grand Avenue from 21st Street to Fairhaven Avenue

3. Project Description

The Newhope-Civic Center-Grand Class II Bike Lanes Project will provide bicyclist a Class II bike lane to access nearby commercial, schools, recreation and transit facilities. Bicyclists currently ride on the sidewalk creating potential bicyclist versus pedestrian conflicts. All three segments will install a new 5-foot Class II bikeway within the existing curb to curb street width and narrow vehicular travel lanes. The project will include associated signage/stripping, sandblasting, minor spot pavement rehabilitation and bicycle detection. No additional right-of-way is required. Engineering conceptual drawings are provided in Attachment B and photos of the project area in Attachment C.

4. Project Status

There has been significant progress on the project. CEQA clearance (Notice of exemption) was granted 9/25/2013. Design completion is anticipated by September 2014. No additional right-of-way is required.

III. SCREENING CRITERIA

III. SCREENING CRITERIA

1. Demonstrated Needs of the Applicant

Describe the need for the project and/or funding

The project is required as bicyclists currently ride on the sidewalk creating potential bicyclist versus pedestrian conflicts. This is particularly true at Orange County Transportation Authority (OCTA) bus stops. The Class II bike lanes will provide a safety enhancement for bicyclists as well as pedestrians since it would allow bicyclists to ride on the street in a dedicated facility separated from pedestrians on the sidewalk. The project includes the second phase of bike lanes on Newhope Street that will eventually extend from the existing Class II bike lanes in the City of Garden Grove to the City of Fountain Valley providing a gap closure and regional bike connectivity. It will also connect to the upcoming Class II bike lanes on First Street and McFadden Avenue. The segment on Civic Center Drive will eventually connect the soon to be completed bike lane on Bristol Street and will connect to the Santa Ana Regional Transportation Center to the east as part of a future phase. The proposed bike lane on Grand Avenue will connect a future bike lane on Grand Avenue ending at 17th Street to Fairhaven Avenue and the Santiago Creek Bike Trail located north of Fairhaven Avenue.

As part of OCTA's ongoing regional bikeway planning effort, staff and local jurisdictions have identified and built consensus on key regional bikeway corridors in Districts 1, 2, and 4. Four of these corridors comprise the Orange County Bicycle Loop (OC Bicycle Loop) including: Coyote/San Gabriel River Trails, Pacific Coast Highway Corridor, Santa Ana River Trail and the Union Pacific Rail Right of Way Corridor as shown in Attachment D. The project will allow for connections to the OC Bicycle Loop at the Santa Ana River Trail providing transportation opportunities throughout Orange County.

In addition, the project supports the Southern California Association of Governments (SCAG) Regional Transportation Plan / Sustainable Communities Strategies (RTP/SCS) goals improving air quality, expanding the Orange County bicycle network, increase safety, and encourage bicycling by providing an active transportation facility for recreational users and commuters.

- 1) Once the project is complete, as described in Attachment B, it is estimated that this it will reduce total emissions by 376 pounds per year, or 7.520 pounds over the 20-year life span of the project. This includes a reduction of 166 pounds of carbon monoxide (CO), 119 pounds of reactive organic gases (ROG), 21 pounds particulate matter with diameter 2.5 micrometers or less (PM2.5) and 70 pounds of oxides of nitrogen (NOx). The project could also potentially reduce 42,713 motor vehicle trips annually.
- 2) The project will provide several gap closures as described above. The project includes the second phase of bike lanes on Newhope Street that will eventually extend from the existing Class II bike lanes in the City of Garden Grove to the City of Fountain Valley providing a gap closure and regional bike connectivity. It will also connect to the upcoming Class II bike lanes on First Street and McFadden Avenue. The segment on Civic Center Drive will eventually connect the soon to be completed bike lane on Bristol Street and will connect to the Santa Ana Regional Transportation Center to the east as part of a future phase providing connection to Metrolink and Amtrak rail service. The proposed bike lane on Grand Avenue will connect a future bike lane on Grand Avenue ending at 17th Street to Fairhaven Avenue and the Santiago Creek Bike Trail located north of Fairhaven Avenue. In addition, as part of OCTA's ongoing regional bikeway planning effort, staff and local jurisdictions have identified and built consensus on key regional bikeway corridors in Districts 1, 2, and 4. Four of these corridors comprise the OC Bicycle Loop including: Coyote/San Gabriel River Trails, Pacific Coast Highway Corridor, Santa Ana River Trail and the Union Pacific Rail Right of Way Corridor. The project will allow for connections to the OC Bicycle Loop at the Santa Ana River Trail providing transportation opportunities throughout Orange County.
- 3) The project will increase overall safety for recreational and commuter bicyclists and pedestrians in the area. The Class II bike lanes will provide a safety enhancement for bicyclists as well as pedestrians since it would allow bicyclists to ride on the street in a dedicated facility separated from pedestrians on the sidewalk.

4) The project will encourage bicycling as a mode of transportation. The project will connect residential neighborhoods to 31 elementary schools, 4 middle schools and 4 high schools, Trinity International University, shopping, the Court House, dining, parks, recreation centers, Santa Ana rail station providing connection to Metrolink and Amtrak service and multiple bus stops and numerous employers including OCTA, OC Public Works, Children’s Hospital of Orange County and St. Joseph’s Hospital. Numerous bicyclists, walkers and joggers already use the sidewalk in these locations for these purposes. Major arterials include: First Street, Bristol Street and Grand Avenue. The project is also in the vicinity of the Interstate-5, State Route-55 and State Route-22.

2. Consistency with Regional Transportation Plan (100 words or less)

Explain how this project is consistent with your Regional Transportation Plan (if applicable). Include adoption date of the plan.

The project is consistent with the SCAG 2012-2035 RTP/SCS and Active Transportation appendix adopted April 2012 and satisfies the following goals.

Align the plan investments and policies with improving regional economic development and competitiveness.
Maximize mobility and accessibility for all people and goods in the region.
Ensure travel safety and reliability.
Preserve and ensure a sustainable regional transportation system.
Maximize the productivity of our transportation system.
Protect the environment and health of residents by improving air quality and encouraging active transportation.
Actively encourage and create incentives for energy efficiency
Encourage land use and growth patterns that facilitate transit and non-motorized transportation

IV. NARRATIVE QUESTIONS: 1-8

Page Omitted

IV. NARRATIVE QUESTIONS

1. POTENTIAL FOR INCREASED WALKING AND BICYCLING, ESPECIALLY AMONG STUDENTS, INCLUDING THE IDENTIFICATION OF WALKING AND BICYCLING ROUTES TO AND FROM SCHOOLS, TRANSIT FACILITIES, COMMUNITY CENTERS, EMPLOYMENT CENTERS, AND OTHER DESTINATIONS; AND INCLUDING INCREASING AND IMPROVING CONNECTIVITY AND MOBILITY OF NON-MOTORIZED USERS. (0-30 POINTS)

A. Describe how your project encourages increased walking and bicycling, especially among students.

The project will encourage increased walking and bicycling by creating a safe and separate Class II bicycle lanes for commuters, students, and recreational users. The project will allow users of all skill levels to take advantage of the corridor. The project is a critical step toward creating a continuous bikeway network and alternative transportation route through central Orange County, as well as creating a bicycle-friendly community. Without this project, regional connections to adjacent cities including Garden Grove and Fountain Valley will only be possible through travel on sidewalks. As part of OCTA's ongoing regional bikeway planning effort, staff and local jurisdictions have identified and built consensus on key regional bikeway corridors in Districts 1, 2, and 4. Four of these corridors comprise the OC Bicycle Loop including: Coyote/San Gabriel River Trails, Pacific Coast Highway Corridor, Santa Ana River Trail and the Union Pacific Rail Right of Way Corridor. The project will allow for connections to the OC Bicycle Loop at the Santa Ana River Trail providing transportation opportunities throughout Orange County and provides a safe alternative for cyclists, on a Class II bikeway that separates bicyclist from pedestrians.

B. Describe the number and type of possible users and their destinations, and the anticipated percentage increase in users upon completion of your project. Data collection methods should be described.

Users will include commuters, students and recreational users. The project will connect residential neighborhoods schools, businesses, and transit. Numerous bicyclists, walkers and joggers already use the sidewalk in these locations for these purposes. As shown in the Attachments G and H, over 813 businesses with over 39,000 employees are within one mile from the proposed project. As shown in the Attachments H and I, 31 elementary schools, four middle schools and four high schools are within one mile from the proposed project, giving opportunities for students to use a safe Class II bicycle lane to

travel to and from school as well as increasing the safety of those students walking to school by separating pedestrian and bicycle traffic. In addition, as shown in Attachments H and I, Trinity International University, shopping, the Court House, dining, parks, recreation centers, Santa Ana rail station providing connection to Metrolink and Amtrak service and multiple bus stops and numerous employers including OCTA, OC Public Works, Children’s Hospital of Orange County and St. Joseph’s Hospital are also within one mile of the proposed project.

Utilizing the models established by Transportation Research Board (TRB) National Cooperative Highway Research Program Report 552 and data provided by the U.S. Census and National Household Travel Survey (NHTS), OCTA and the city were able to estimate existing commuter cyclists, existing adult cyclists, new commuter cyclists, and new adult cyclists. The data was verified against OCTA’s internal Geographic Information Systems databases to ensure consistency. Additional explanations on the data collection methodology and calculations are included in Attachment F. The model yielded the following results:

Daily Existing Commuters or Adult Cyclists

Buffer in Meters	Population in Buffer (not Cumulative)	Population of Commuters	Daily Existing Bicycle Commuters	Existing Adult Cyclists (High)	Existing Adult Cyclists (Med)	Existing Adult Cyclists (Low)
400	21,188	8,475	93	661	292	186
800	18,643	7,457	82	582	257	164
1,600	77,633	31,053	342	2,422	1,068	683
Total	117,463	46,985	517	3,665	1,616	1,034

Estimated Number of Induced/New Commuters and Adult Cyclists

Buffer in Meters	Population in Buffer (not Cumulative)	Population of Commuters	$\Sigma(\text{Existing commuters (Ld - 1)})$	$\Sigma(\text{Existing adult cyclists (Ld - 1)})$		
	(R)	(R x 0.4)				
Buffer in Meters	Population in Buffer (not Cumulative)	Population of Commuters	New Commuters	New Adult Cyclists (High)	New Adult Cyclists (Med)	New Adult Cyclists (Low)
400	21,188	8,475	180	1,276	563	360
800	18,643	7,457	91	646	285	182
1,600	77,633	31,053	133	945	417	266
Total	117,463	46,985	404	2,866	1,264	808
Percent Change in Adult Cyclists			78%	78%	78%	78%

C. Describe how this project improves walking and bicycling routes to and from, connects to, or is part of a school or school facility, transit facility, community center, employment center, state or national trail system, points of interest, and/or park.

The project encourages walking and bicycling by separating bicyclists and pedestrians and closing existing gaps. 31 elementary schools, four middle schools and four high schools are within one mile from the proposed project, giving opportunities for students to use a safe Class II bicycle lane to travel to and from school as well as increasing the safety of those students walking to school by separating pedestrian and bicycle traffic. Over 813 businesses with over 39,000 employees are within one mile from the proposed project. Constructing the proposed project will allow and encourage residents and commuters to bicycle to work. Trinity International University, shopping, the Court House, dining, parks, recreation centers, Santa Ana rail station providing connection to Metrolink and Amtrak service and multiple bus stops and numerous employers including OCTA, OC Public Works, Children's Hospital of Orange County and St. Joseph's Hospital are also within 1 mile of the proposed project. Constructing the proposed project will allow and encourage residents to bicycle to these facilities.

D. Describe how this project increases and/or improves connectivity, removes a barrier to mobility and/or closes a gap in a non-motorized facility.

The project includes the second phase of bike lanes on Newhope Street that will eventually extend from the existing Class II bike lanes in the City of Garden Grove to the City of Fountain Valley providing a gap closure and regional bike connectivity. It will also connect to the upcoming Class II bike lanes on First Street and McFadden Avenue. The segment on Civic Center Drive will eventually connect the soon to be completed bike lane on Bristol Street and will connect to the Santa Ana Regional Transportation Center to the east as part of a future phase. The proposed bike lane on Grand Avenue will connect a future bike lane on Grand Avenue ending at 17th Street to Fairhaven Avenue and the Santiago Creek Bike Trail located north of Fairhaven Avenue.

The connection to OCTA bus service provides travel opportunity throughout Orange County and the connection to Metrolink service provides connection to destinations throughout the region and to Amtrak service connections throughout the country. All these transit services have bicycle storage.

2. POTENTIAL FOR REDUCING THE NUMBER AND/OR RATE OF PEDESTRIAN AND BICYCLIST FATALITIES AND INJURIES, INCLUDING THE IDENTIFICATION OF SAFETY HAZARDS FOR PEDESTRIANS AND BICYCLISTS. (0-25 POINTS)

A. Describe the potential of the project to reduce pedestrian and/or bicycle injuries or fatalities.

The project reduces the potential for pedestrian and/or bicycle injuries or fatalities by constructing a segregated trail from vehicular traffic that can be used instead of riding on surface streets. Safety potential benefits have been calculated for the project utilizing data provided in the Cost Effectiveness Calculation (Narrative Question 4). The calculation estimates an annual reduction of 3.28 accidents within the project area, or up to 65.6 accidents reduced over a 20-year life span.

B. Describe if/how your project will achieve any or all of the following:

Reduces speed or volume of motor vehicles

The project will reduce speed by reducing vehicle lane width along the project segments. The project could also potentially reduce 42,713 motor vehicle trips annually (Attachment E).

Improves sight distance and visibility

Separating bicyclists and pedestrians from vehicular traffic and bicyclists from pedestrian traffic reduces the opportunity for incidents related to sight distance and visibility.

Improves compliance with local traffic laws

The SWITRS and SafeTrec Transportation Injury Mapping System (TIMS) reports that in the five years from 2007 to 2011, 141 bicycling accidents were in the automobile right-of-way and 249 accidents were because the cyclists were riding in the wrong direction, accounting for 65% of the bicycle accidents in the city. Approximately 282 pedestrian involved accidents were caused by pedestrian violations. By separating pedestrians and bicyclists, the project reduces opportunities for potential violation of local traffic laws

Eliminates behaviors that lead to collisions

SWITRS and SafeTrec TIMS reports that in the 5 years from 2007 to 2011, 141 bicycling accidents were in the automobile right-of-way and 249 accidents were because the cyclists were riding in the wrong

direction, accounting for 65% of the bicycle accidents in the city. Approximately 282 pedestrian involved accidents were caused by pedestrian violations. By separating pedestrians and bicyclists, the project reduces opportunities for potential collisions

Addresses inadequate traffic control devices

SWITRS and SafeTrec TIMS reports that in the 5 years from 2007 to 2011, the primary factor in 58 or 9.6% of bicycling accidents in the city were due to traffic signals or signs. By separating bicyclists and pedestrians from vehicular traffic and bicyclists from pedestrian traffic, accidents related to traffic control devices should be reduced.

Addresses inadequate bicycle facilities, crosswalks or sidewalks

Bicyclists currently ride on the sidewalk creating potential bicyclist versus pedestrian conflicts. This is particularly true at Orange County Transportation Authority (OCTA) bus stops. The Class II bike lanes will provide a safety enhancement for bicyclists as well as pedestrians since it would allow bicyclists to ride on the street in a dedicated facility separated from pedestrians on the sidewalk. As discussed below, in the five years from 2007 to 2011, 623 recorded bicycle accidents occurred throughout the City of Santa Ana, of which 31 were along Grand, Civic Center and Newhope in the vicinity of the proposed project and 633 pedestrian accidents with 18 along Grand, Civic Center and Newhope in the vicinity of the project.

C. Describe the location's history of events and the source(s) of data used (e.g. collision reports, community observation, surveys, audits) if data is not available include a description of safety hazard(s) and photos.

As shown in Attachments K and L, SWITRS and SafeTrec TIMS reports that in the five years from 2007 to 2011, 623 recorded bicycle accidents occurred throughout the City of Santa Ana, of which 31 were along Grand, Civic Center and Newhope in the vicinity of the proposed project and in Attachments M and N, 633 pedestrian accidents with 18 along Grand, Civic Center and Newhope in the vicinity of the project. There are major safety hazards along the freeway off-ramps and on-ramps, where the 9 of the bicycle related collisions and 6 pedestrian collisions occurred.

3. **PUBLIC PARTICIPATION and PLANNING (0-15 POINTS)**

A. **Describe the community based public participation process that culminated in the project proposal or plan, such as noticed meetings/public hearings, consultation with stakeholders, etc.**

The project is included in the City of Santa Ana Bikeway Master Plan and in the Orange County Transportation Authority's Bikeways Strategic Plan on page of 167 of <http://www.octa.net/pdf/bikeways09.pdf>. These plans were created with significant public participation.

The project is also included in the Districts 1 and 2 Bikeways Strategy and as shown in Attachment O there was significant public participation in development of this plan.

B. **Describe the local participation process that resulted in the identification and prioritization of the project:**

As noted above under public participation, there has been significant local participation. As shown in Attachment P, letters of support for this project have been received from the County of Orange Health Care Agency and Garden Grove Unified School District.

C. **Is the project cost over \$1 Million? Y/N**

If Yes- is the project Prioritized in an adopted city or county bicycle transportation plan, pedestrian plan, safe routes to school plan, active transportation plan, trail plan, circulation element of a general plan, or other publicly approved plan that incorporated elements of an active transportation plan? Y/N

4. **COST EFFECTIVENESS (0-10 POINTS)**

A. **Describe the alternatives that were considered. Discuss the relative costs and benefits of all the alternatives and explain why the nominated one was chosen.**

The project is included in the Districts 1 and 2 Bikeways Strategy in which each of the proposed regional bikeway corridors were evaluated using a set of criteria that are consistent with OCTA's 2009 CBSP and the goals of the Districts 1 and 2 Bikeways Collaborative and build off those used for the District 4 Bikeways Collaborative. The criteria were developed through discussions with the project development team members, and public feedback received during Workshop #1 on May 16, 2013. The criteria below account for a range of opportunities, constraints, and other factors that could influence usage and implementation including Trip Demand; Level of Traffic Stress; Reported Collisions; Public Support; Physical Constraints; Completes the Corridor; Completes the Network and Economic Efficiency.

B. Calculate the ratio of the benefits of the project relative to both the total project cost and funds requested (i.e., $\frac{Benefit*}{Total\ Project\ Cost}$ and $\frac{Benefit*}{Program\ Funds\ Requested}$).

The ratio of benefits for the project uses multiple parameters in order to determine the total benefits of the project. To calculate the ratio of benefits for the project, population, annual operating costs, new cyclists, mobility benefits, health benefits, recreational benefits, safety benefits, and accident reduction were calculated by using data from NCHRP Report 552, Transportation Research Board, SWITRS, and Caltrans Cal-B/C model parameters. Each parameter includes annual and 20-year benefits and shows benefit and costs and ratio. The detailed methodology is provided in Attachment Q.

Cost-Benefit Measure	Benefit
Annual Operating Costs	\$ 22,598
20-Year Operating Costs	\$ 307,114
New Commuters	404
New Adult Cyclist (Medium-Range)	1,264
Annual Mobility Benefit	\$ 385,151
20-Year Mobility Benefit	\$ 5,234,328
Mobility Benefit / ATP Funding	20.91
Mobility Benefit / Total Funding	18.51
Annual Health Benefit	\$ 51,737
20-Year Health Benefit	\$ 703,123
Health Benefit / ATP Funding	2.81
Health Benefit / Total Funding	2.49
Annual Recreation Benefit	\$ 698,772
20-Year Recreation Benefit	\$ 9,496,540
Recreation Benefit / ATP Funding	37.93
Recreation Benefit / Total Funding	35.58
20 Year-Safety Benefit	\$ 2,305,706
Safety Benefit / ATP Funding	9.21
Safety Benefit / Total Funding	8.15
Daily VMT Reduced	7,272
Annual Accidents Reduced	3.28
Total Benefits / ATP Funding	69.62
Total Benefits / Total Funding	61.64

A benefit ratio of 1.0 indicates the project provides a 1:1 ratio of benefits and cost. Generally, the greater the benefit is above 1.0, the more benefit the project will provide to the community. The project provides a ratio over 69 for ATP funding and 61 for total funding, indicating the project will provide significant benefits over the cost and life of the project.

5. IMPROVED PUBLIC HEALTH (0-10 points)

A. Describe how the project will improve public health, i.e. through the targeting of populations who have a high risk factor for obesity, physical inactivity, asthma, or other health issues.

According to the Center of Disease Control, Hispanics or Latino adults have the second highest rate of obesity at 42.5% and Hispanic or Latino children have the highest rate of obesity. The State of California and United States number of households under the poverty level is at 15.3% and 14.9% respectively. According to the 2010 United States Census and 2012 American Community Survey, the City of Santa Ana has a population of 330,920 of which 79% are of Hispanic or Latino descent. Based on Orange County's Community Indicators Report, 33.1% of adults in Orange County are considered overweight and 17.3% are considered obese. Approximately 38.9% of children in Orange County are overweight or have unhealthy body compositions. As shown in Attachment R, according to the University of California Center for Health Policy Research, 46.5% of the children and/or students in the City are overweight and/or obese, well over the Orange County total percentage. Because of the close proximity to schools, the project will target the student populations, providing an active mode of transportation to and from school. In addition, while 20.7% of the population is in poverty, above the State of California and national average, 29% of children are in households that are at or below the poverty level and 30.7% of children are in households needing supplemental public assistance or Supplemental Nutrition Assistance Program (SNAP). The U.S. Department of Health and Human Services National Institute of Health studied the relationship to health and poverty. Areas with poverty are more prone to obesity because the lack of available parks, sport facilities, and infrastructure, which may cause higher levels of inactivity. The project may provide an affordable means of transportation and recreational activity for these students and residents.

This project provides an opportunity to allow residents to bike and walk safely throughout the City.

The project is a critical step toward creating a continuous bikeway network and alternative transportation route through central Orange County, as well as creating a bicycle-friendly community. Without this project, regional connections to adjacent cities including Garden Grove and Fountain Valley will only be

possible through travel on sidewalks. The project provides a safe alternative for cyclists, on a Class II bikeway that separates bicyclist from pedestrians. In addition, based on cost effective calculations, the project will also provide a 2.81 benefit ratio of ATP funding. See Narrative Question 4 for more details.

6. BENEFIT TO DISADVANTAGED COMMUNITIES (0-10 points)

- A. I. Is the project located in a disadvantaged community? Y/N
- II. Does the project significantly benefit a disadvantaged community? Y/N

- a. Which criteria does the project meet? (Answer all that apply)
 - o Median household income for the community benefited by the project: \$32,888 to \$46,723
 - o California Communities Environmental Health Screen Tool (CalEnvironScreen) score for the community benefited by the project: _____
 - o For projects that benefit public school students, percentage of students eligible for the Free or Reduced Price Meals Programs: _____ %
- b. Should the community benefitting from the project be considered disadvantaged based on criteria not specified in the program guidelines? If so, provide data for all criteria above and a quantitative assessment of why the community should be considered disadvantaged.

This project will follow the Americans with Disabilities Act (ADA) design standards.

B. Describe how the project demonstrates a clear benefit to a disadvantaged community and what percentage of the project funding will benefit that community, for projects using the school based criteria describe specifically the school students and community will benefit.

The project is located in and adjacent to 17 census tracts in the area with under 80% of the California household median income. The census tracts are listed in the following table.

Census Tract	Median Income	Percentage of California Median Income
Census Tract 891.04	\$ 32,888	53.6
Census Tract 744.03	\$ 34,519	56.2
Census Tract 745.01	\$ 34,575	56.3
Census Tract 750.03	\$ 35,255	57.4
Census Tract 750.02	\$ 38,810	63.2
Census Tract 891.06	\$ 38,920	63.4
Census Tract 992.49	\$ 39,444	64.2
Census Tract 750.04	\$ 40,000	65.1
Census Tract 992.47	\$ 40,694	66.3
Census Tract 749.01	\$ 42,349	69.0
Census Tract 744.08	\$ 43,227	70.4
Census Tract 755.14	\$ 43,405	70.7
Census Tract 744.05	\$ 44,460	72.4
Census Tract 744.07	\$ 44,474	72.4
Census Tract 992.48	\$ 44,576	72.6
Census Tract 749.02	\$ 46,497	75.7
Census Tract 748.05	\$ 46,723	76.1

In addition, the project is within 1 mile of 31 elementary schools, 4 middle schools and 4 high schools and 30.7% of Santa Ana school children are on public assistance or receive food stamps or are in the Supplemental Nutritional Assistance Program. 100% of the project benefits a disadvantaged community.

7. USE OF CALIFORNIA CONSERVATION CORPS (CCC) OR A CERTIFIED COMMUNITY CONSERVATION CORPS (0 to -5 points)

The applicant must send the following information to the CCC and CALCC prior to application submittal to Caltrans:

Project Description
Project Map

Detailed Estimate
Preliminary Plan

Project Schedule

The corps agencies can be contacted at:

California Conservation Corps at: www.ccc.ca.gov

Community Conservation Corps at: <http://calocalcorps.org>

A. The applicant has coordinated with the CCC to identify how a state conservation corps can be a partner of the project. Y/N

a. Name, e-mail, and phone # of the person contacted and the date the information was submitted to them

Virginia Clark
virginia.clark@ccc.ca.gov
916-341-3147
Materials were submitted on April 10, 2014.

B. The applicant has coordinated with a representative from the California Association of Local Conservation Corps (CALCC) to identify how a certified community conservation corps can be a partner of the project. Y/N

a. Name, e-mail, and phone # of the person contacted and the date the information was submitted to them

Cynthia Vale
calocalcorps@gmail.com
916-558-1516
Materials were submitted on April 10, 2014.

C. The applicant intends to utilize the CCC or a certified community conservation corps on all items where participation is indicated? Y/N NA

I have coordinated with a representative of the CCC; and the following are project items that they are qualified to partner on:

The CCC has not responded that it may participate in the project.

I have coordinated with a representative of the CALCC; and the following are project items that they are qualified to partner on:

The OCCC has responded that it is NOT able to participate on the project

**If the applicant has indicated intended use of the CCC or CALCC in the approved application, a copy of the agreement between the implementing agency and the CCC or CALCC must be provided by the implementing agency, and will be incorporated as part of the original application, prior to request for authorization of funds for construction.*

8. APPLICANT'S PERFORMANCE ON PAST GRANTS (0 to -10 points)

A. Describe any of your agency's ATP type grant failures during the past 5 years, and what changes your agency will take in order to deliver this project.

The City of Santa Ana has a well-established track record of pursuing and implementing successful ATP related type grant projects. Unlike many other cities, the City of Santa Ana has the in-house expertise that has not only written numerous successful grant applications for OTS, BTA, SRTS, SR2S or HSIP but has also fully administered, designed and implemented these grants.

V. PROJECT PROGRAMMING REQUEST

PROJECT PROGRAMMING REQUEST

DTP-0001 (Revised July 2013)

General Instructions

<input checked="" type="checkbox"/> New Project					Date:	5/2/14
District	EA	Project ID	PPNO	MPO ID	TCRP No.	
12						
County	Route/Corridor	PM Bk	PM Ahd	Project Sponsor/Lead Agency		
ORA	Multiple			City of Santa Ana		
				MPO	Element	
				SCAG	Local Assistance	
Project Manager/Contact		Phone		E-mail Address		
Zed Kekula		714-647-5606		zkekula@santa-ana.org		
Project Title						
Newhope-Civic Center-Grand Class II Bike Lanes Project						
Location, Project Limits, Description, Scope of Work <input type="checkbox"/> See page 2						
The Newhope-Civic Center-Grand Class II Bike Lanes Project has three segments: 0.45 miles on Newhope Street from First Avenue to McFadden Avenue; 0.87 miles on Civic Center Drive from Bristol Street to Broadway; and 1.25 miles on Grand Avenue from 21st Street to Fairhaven Avenue in the City of Santa Ana, Orange County. All three segments will install a new 5-foot Class II bikeway within the existing curb to curb street width and narrow vehicular travel lanes. The project will include associated signage/stripping, sandblasting, minor spot pavement rehabilitation and bicycle detection.						
<input checked="" type="checkbox"/> Includes ADA Improvements <input checked="" type="checkbox"/> Includes Bike/Ped Improvements						
Component	Implementing Agency					
PA&ED	City of Santa Ana					
PS&E	City of Santa Ana					
Right of Way	City of Santa Ana					
Construction	City of Santa Ana					
Purpose and Need <input type="checkbox"/> See page 2						
The project is required as bicyclists currently ride on the sidewalk creating potential bicyclist versus pedestrian conflicts. This is particularly true at Orange County Transportation Authority (OCTA) bus stops.						
Project Benefits <input checked="" type="checkbox"/> See page 2						
The Class II bike lanes will provide a safety enhancement for bicyclists as well as pedestrians since it would allow bicyclists to ride on the street in a dedicated facility separated from pedestrians on the sidewalk.						
<input checked="" type="checkbox"/> Supports Sustainable Communities Strategy (SCS) Goals <input checked="" type="checkbox"/> Reduces Greenhouse Gas Emissions						
Project Milestone						Proposed
Project Study Report Approved						09/30/13
Begin Environmental (PA&ED) Phase						
Circulate Draft Environmental Document				Document Type	CE	
Draft Project Report						
End Environmental Phase (PA&ED Milestone)						
Begin Design (PS&E) Phase						03/30/14
End Design Phase (Ready to List for Advertisement Milestone)						09/30/14
Begin Right of Way Phase						NA
End Right of Way Phase (Right of Way Certification Milestone)						NA
Begin Construction Phase (Contract Award Milestone)						01/30/15
End Construction Phase (Construction Contract Acceptance Milestone)						06/30/15
Begin Closeout Phase						06/30/15
End Closeout Phase (Closeout Report)						09/30/15

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

PROJECT PROGRAMMING REQUEST

DTP-0001 (Revised May 2013)

General Instructions

<input checked="" type="checkbox"/> New Project					Date:	5/2/14
District	EA	Project ID	PPNO	MPO ID	TCRP No.	
12						
Project Title						
Newhope-Civic Center-Grand Class II Bike Lanes Project						
Additional Information						
<p>Continue Project Benefits: The project includes the second phase of bike lanes on Newhope Street that will eventually extend from the existing Class II bike lanes in the City of Garden Grove to the City of Fountain Valley providing a gap closure and regional bike connectivity. It will also connect to the upcoming Class II bike lanes on First Street and McFadden Avenue. The segment on Civic Center Drive will eventually connect the soon to be completed bike lane on Bristol Street and will connect to the Santa Ana Regional Transportation Center to the east as part of a future phase. The proposed bike lane on Grand Avenue will connect a future bike lane on Grand Avenue ending at 17th Street to Fairhaven Avenue and the Santiago Creek Bike Trail located north of Fairhaven Avenue.</p>						

ADA Notice

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PROJECT PROGRAMMING REQUEST

DTP-0001 (Revised July 2013)

Date: 5/9/14

District	County	Route	EA	Project ID	PPNO	TCRP No.
12	ORA	Multiple				
Project Title: Newhope-Civic Center-Grand Class II Bike Lanes Project						

Proposed Total Project Cost (\$1,000s)									Notes
Component	Prior	14/15	15/16	16/17	17/18	18/19	19/20+	Total	
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON								272	
TOTAL								272	

Fund No. 1:	ATP								Program Code
Proposed Funding (\$1,000s)									
Component	Prior	14/15	15/16	16/17	17/18	18/19	19/20+	Total	Funding Agency
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON								272	
TOTAL								272	

Fund No. 2:									Program Code
Proposed Funding (\$1,000s)									
Component	Prior	14/15	15/16	16/17	17/18	18/19	19/20+	Total	Funding Agency
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									

VI. ADDITIONAL INFORMATION

Project name:

VI. ADDITIONAL INFORMATION

Only fill in those fields that are applicable to your project

FUNDING SUMMARY

ATP Funds being requested by Phase (to the nearest \$1000)

Amount

PE Phase (includes PA&ED and PS&E)	\$
Right-of-Way Phase	\$
Construction Phase-Infrastructure	\$
Construction Phase-Non-infrastructure	\$
Total for ALL Phases	\$

All Non-ATP fund types on this project* (to the nearest \$1000)

Amount

	\$
	\$
	\$
	\$
	\$
	\$

*Must indicate which funds are matching

Total Project Cost	\$
Project is Fully Funded	

ATP Work Specific Funding Breakdown (to the nearest \$1000)

Amount

Request for funding a Plan	\$
Request for Safe Routes to Schools Infrastructure work	\$
Request for Safe Routes to Schools Non-Infrastructure work	\$
Request for other Non-Infrastructure work (non-SRTS)	\$
Request for Recreational Trails work	\$

ALLOCATION/AUTHORIZATION REQUESTS SCHEDULE

	Proposed Allocation Date	Proposed Authorization (E-76) Date
PA&ED or E&P		
PS&E		
Right-of-Way		
Construction		

All project costs MUST be accounted for on this form, including elements of the overall project that will be, or have been funded by other sources.

ENGINEERS ESTIMATE

VII. NON-INFRASTRUCTURE SCHEDULE INFORMATION

Non-Infrastructure Schedule Information – Not Applicable

VIII. APPLICATION SIGNATURES

Project name: City of Santa Ana - Newhope-Civic Center-Grand Class II Bike Lanes Project

VIII. APPLICATION SIGNATURES

Applicant: The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: Zed Kekula
Name: Zed Kekula
Title: Senior Civil Engineer

Date: 5/9/14
Phone: 714-647-5606
e-mail: zkekula@santa-ana.org

Local Agency Official (City Engineer or Public Works Director): The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: Edwin Galvez
Name: Edwin William Galvez
Title: Interim Executive Director

Date: 5/13/14
Phone: 714-647-5662
e-mail: wegalvez@santa-ana.org

School Official: The undersigned affirms that the school(s) benefited by this application is not on a school closure list.

Signature: _____
Name: _____
Title: _____

Date: _____
Phone: _____
e-mail: _____

Person to contact for questions:

Name: _____
Title: _____

Phone: _____
e-mail: _____

Caltrans District Traffic Operations Office Approval*

If the application's project proposes improvements on a freeway or state highway that affects the safety or operations of the facility, it is required that the proposed improvements be reviewed by the district traffic operations office and either a letter of support or acknowledgement from the traffic operations office be attached () or the signature of the traffic personnel be secured below.

Signature: _____
Name: _____
Title: _____

Date: _____
Phone: _____
e-mail: _____

*Contact the District Local Assistance Engineer (DLAE) for the project to get Caltrans Traffic Ops contact information. DLAE contact information can be found at <http://www.dot.ca.gov/hq/LocalPrograms/dlae.htm>

IX. ADDITIONAL ATTACHMENTS

Project name:

VIII. ADDITIONAL APPLICATION ATTACHMENTS

Check all attachments included with this application.

- Vicinity/Location Map- **REQUIRED for all IF Projects**
 - North Arrow
 - Label street names and highway route numbers
 - Scale

- Photos and/or Video of Existing Location- **REQUIRED for all IF Projects**
 - Minimum of one labeled color photo of the existing project location
 - Minimum photo size 3 x 5 inches
 - Optional video and/or time-lapse

- Preliminary Plans- **REQUIRED for Construction phase only**
 - Must include a north arrow
 - Label the scale of the drawing
 - Typical Cross sections where applicable with property or right-of-way lines
 - Label street names, highway route numbers and easements

- Detailed Engineer's Estimate- **REQUIRED for Construction phase only**
 - Estimate must be true and accurate. Applicant is responsible for verifying costs prior to submittal
 - Must show a breakdown of all bid items by unit and cost. Lump Sum may only be used per industry standards
 - Must identify all items that ATP will be funding
 - Contingency is limited to 10% of funds being requested
 - Evaluation required under the ATP guidelines is not a reimbursable item

- Documentation of the partnering maintenance agreement- Required with the application if an entity, other than the applicant, is going to assume responsibility for the operation and maintenance of the facility

- Documentation of the partnering implementation agreement-Required with the application if an entity, other than the applicant, is going to implement the project.

- Letters of Support from Caltrans (Required for projects on the State Highway System(SHS))

- Digital copy of or an online link to an approved plan (bicycle, pedestrian, safe routes to school, active transportation, general, recreation, trails, city/county or regional master plan(s), technical studies, and/or environmental studies (with environmental commitment record or list of mitigation measures), if applicable. Include/highlight portions that are applicable to the proposed project.

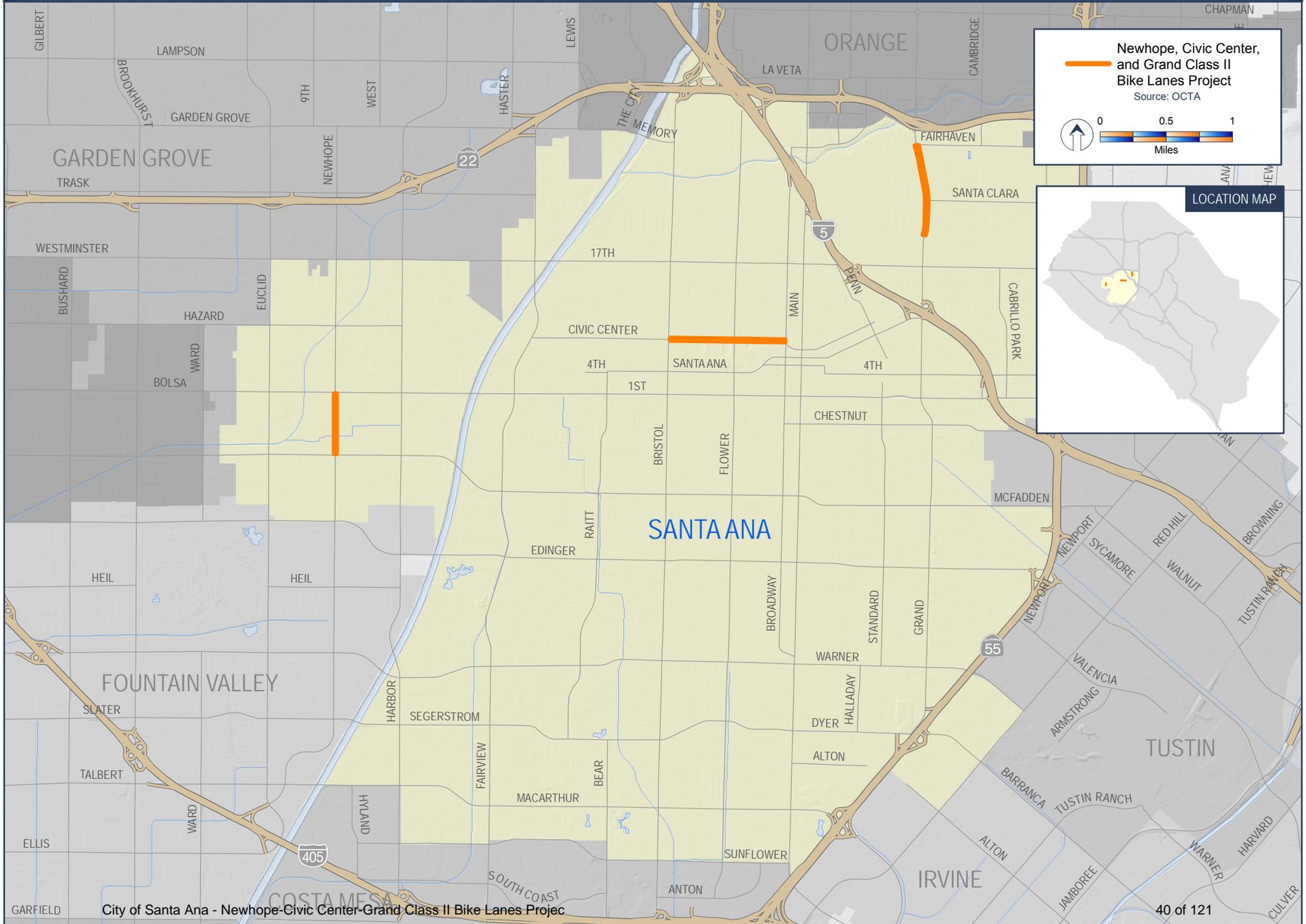
- Documentation of the public participation process (required)

- Letter of Support from impacted school- when the school isn't the applicant or partner on the application (required)

- Additional documentation, letters of support, etc (optional)

MAP OF PROJECT ATTACHMENT A

City of Santa Ana - Newhope, Civic Center, and Grand Class II Bike Lanes Project



ENGINEERING DRAWINGS
ATTACHMENT B

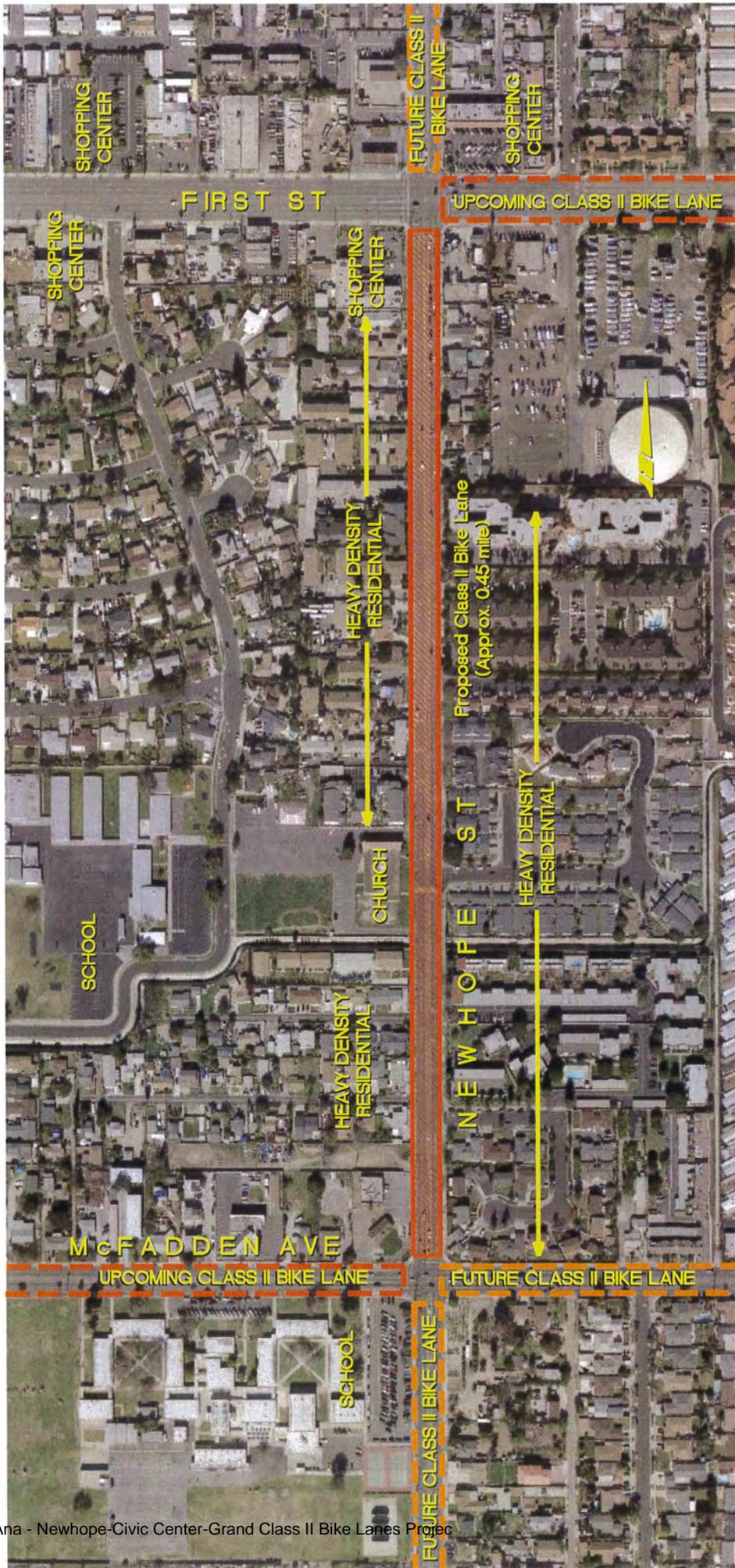


EXHIBIT C

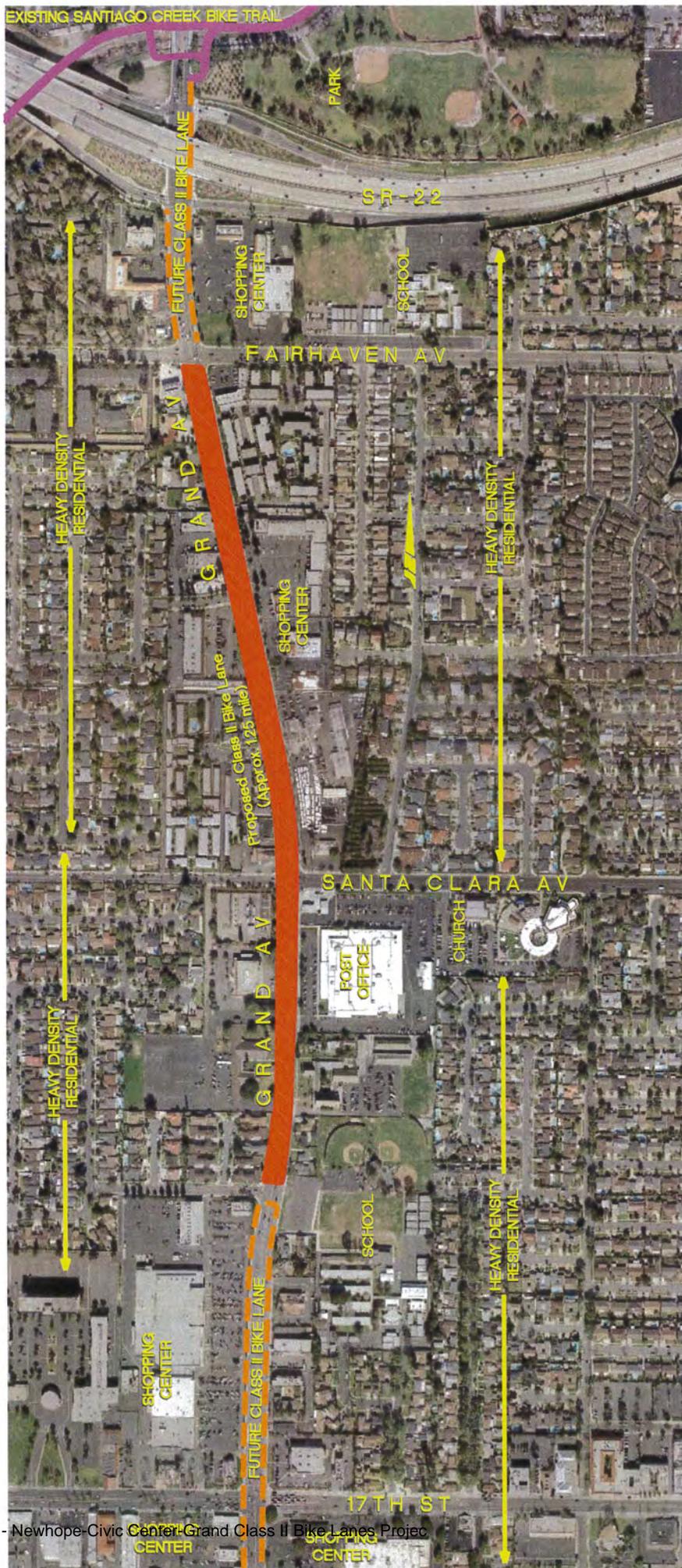
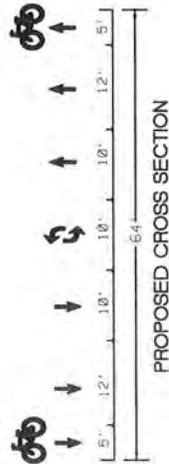
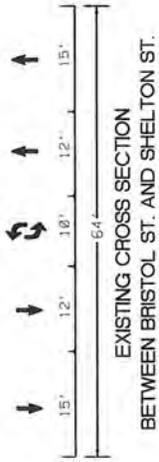


EXHIBIT C

NEWHOPE STREET



CIVIC CENTER DRIVE



GRAND AVENUE

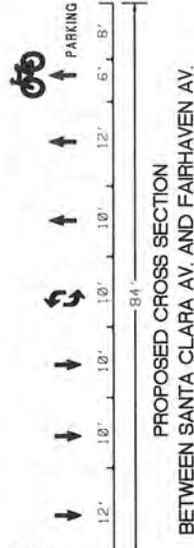
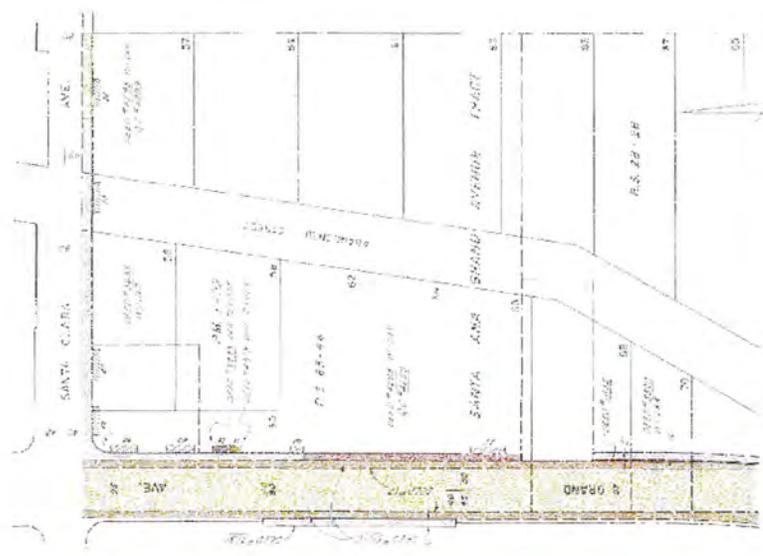


EXHIBIT D

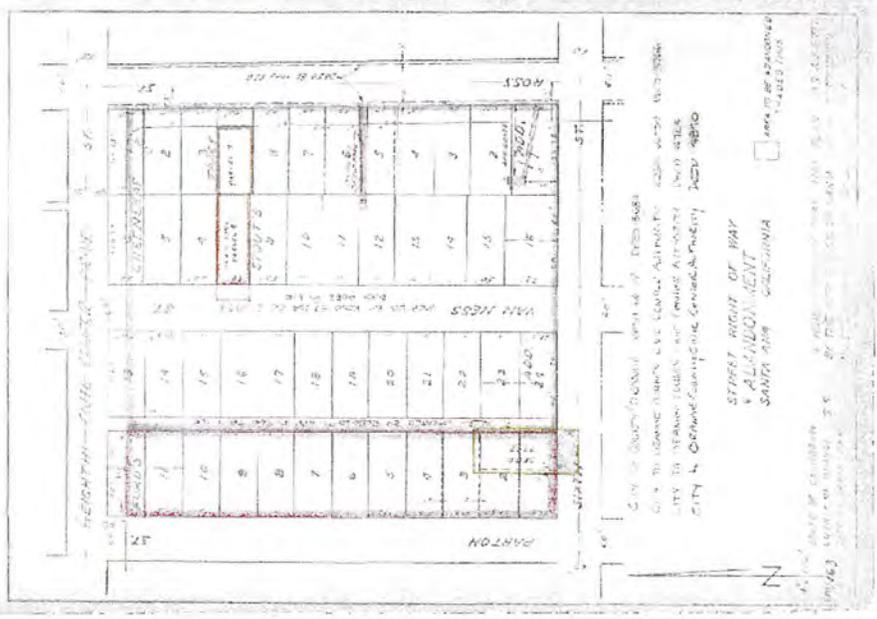
Title:
Newhope-Civic Center-Grand Class II Bike Lanes Project
TYPICAL CROSS SECTION



GRAND AVENUE



CIVIC CENTER DRIVE



NEWHOPE STREET

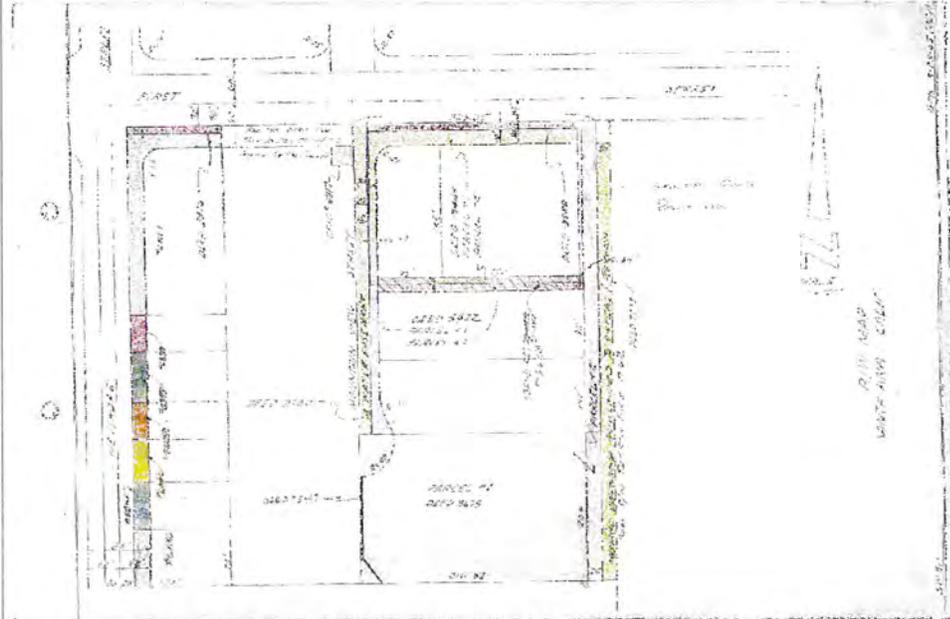


EXHIBIT F

Title:
 Newhope-Civic Center-Grand Class II Bike Lanes Project
 RIGHT OF WAY MAPS



PHOTOS
ATTACHMENT C



Bicyclist and pedestrian walking on Grand Avenue sidewalk



Bicyclist riding his bike on Newhope Street Sidewalk



Pedestrians on the sidewalk force this bicyclist to ride his bike on the street



Bicyclist riding his bike on Grand Avenue sidewalk



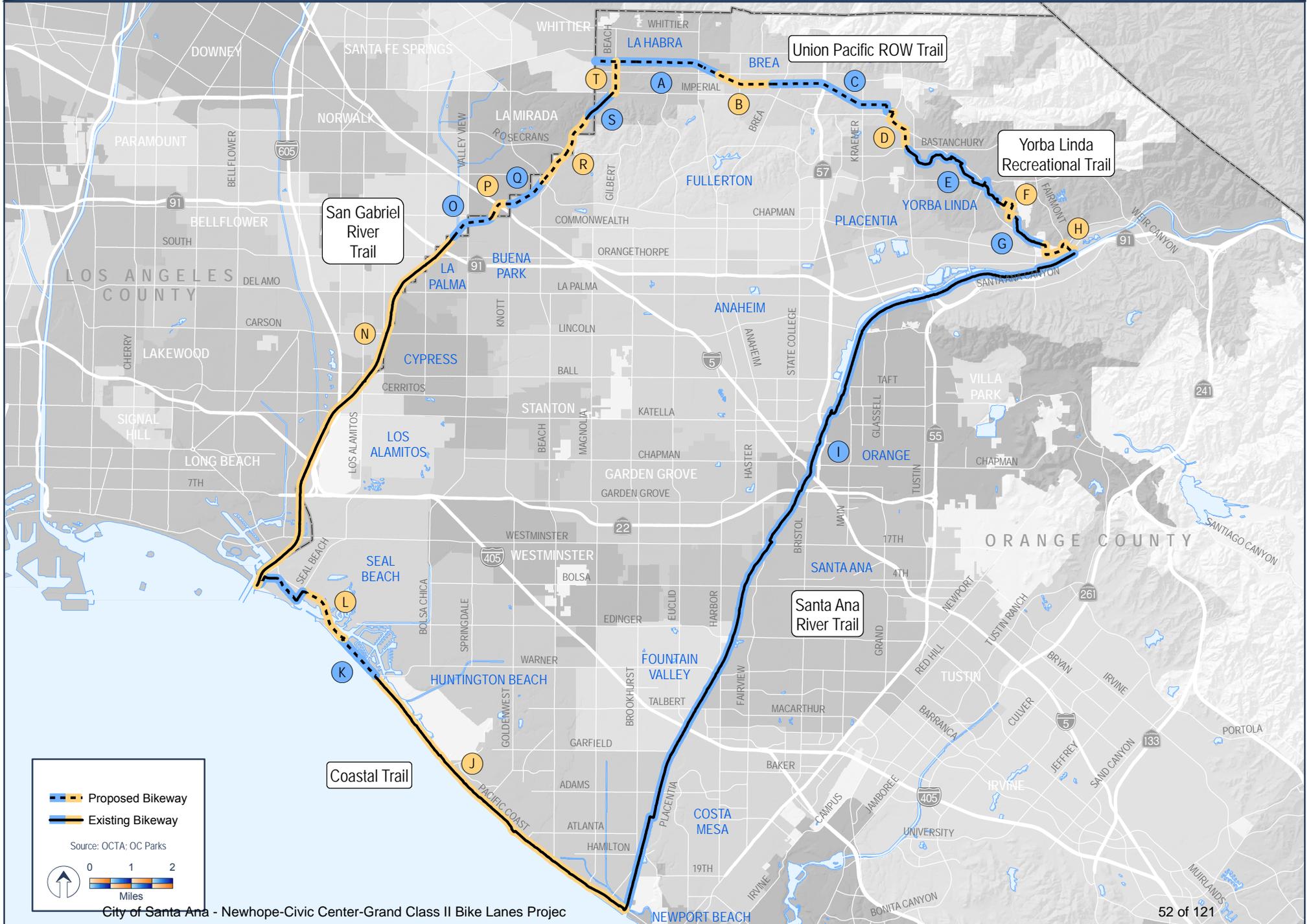
Bicyclist waiting for the OCTA bus to arrive at bus stop



Many bicyclist using the existing Ross Street bike lane to reach the Library and other Civic Center area facilities

**ORANGE COUNTY BICYCLE
LOOP
ATTACHMENT D**

Orange County Bike Loop



- Proposed Bikeway
- Existing Bikeway

Source: OCTA; OC Parks



City of Santa Ana - Newhope-Civic Center-Grand Class II Bike Lanes Project

AIR QUALITY ATTACHMENT E

BICYCLE FACILITIES

Fiscal Year 2008-09

Air District Name: South Coast Cities & Counties

Local Government Name: SC Santa Ana

Project Name: Newhope-Civic Center-Grand Class II Bikeway Project (NEWHO

Description: Data for NEWHOPE STREET segment of the project, only.
(Issues/Comments)

Implementing Agency:

Private Agency: No

MVFees Funding:	\$0	Annual Auto Trips Reduced:	10,693
MSRC Funding:	\$0	Annual Auto VMT Reduced:	4,812
Moyer Funding:	\$0		
CMAQ Funding:	\$0		
Other CoFunding:	\$0		

Project Analysis Period: 15 years

Days (D): 200 days of use/year

Average Daily Traffic (ADT): 26,733 annual miles

Adjustment (A) on ADT: 0.0010

Credit (C) for

Activity Centers near project: 0.0010

EMISSION FACTORS:

Auto Trip End Factor

Auto VMT Factor

ROG :	1.02 grams per trip	0.27 grams per mile
NOx :	0.46	0.32
PM10 :	0.02	0.22
CO :	9.41	3.15

EMISSION REDUCTIONS:

ROG:	27 lbs/yr	0 kg/day
NOx:	14	0
PM10:	3	0
CO/7:	36	0
Total:	80	0

COST-EFFECTIVENESS OF:

	Based on ROG, NOx, and PM10	Based on ROG, NOx, PM10, and CO/7
Motor Vehicle Fees plus Moyer Funds:	\$0.00	\$0.00 per lb
CMAQ Funds:	\$0.00	\$0.00 per l
All Funding Sources:	\$0.00	\$0.00 per lb

1

EXHIBIT G

BICYCLE FACILITIES

Fiscal Year 2008-09

Air District Name: South Coast Cities & Counties

Local Government Name: SC Santa Ana

Project Name: Newhope-Civic Center-Grand Class II Bikeway Project (Civic C

Description: Data for CIVIC CENTER DRIVE segment of the project, only.
(Issues/Comments)

Implementing Agency:

Private Agency: No

MVFees Funding:	\$0	Annual Auto Trips Reduced:	13,748
MSRC Funding:	\$0	Annual Auto VMT Reduced:	11,961
Moyer Funding:	\$0		
CMAQ Funding:	\$0		
Other CoFunding:	\$0		

Project Analysis Period: 15 years
Days (D): 200 days of use/year
Average Daily Traffic (ADT): 15,623 annual miles
Adjustment (A) on ADT: 0.0014
Credit (C) for Activity Centers near project: 0.0030

EMISSION FACTORS:	Auto Trip End Factor	Auto VMT Factor
ROG :	1.02 grams per trip	0.27 grams per mile
NOx :	0.46	0.32
PM10 :	0.02	0.22
CO :	9.41	3.15

EMISSION REDUCTIONS:	ROG:	38 lbs/yr	0 kg/day
	NOx:	22	0
	PM10:	6	0
	CO/7:	53	0
	Total:	119	0

COST-EFFECTIVENESS OF:

		Based on ROG, NOx, and PM10	Based on ROG, NOx, PM10, and CO/7
Motor Vehicle Fees plus Moyer Funds:	\$0.00		\$0.00 per lb
CMAQ Funds:	\$0.00		\$0.00 per l
All Funding Sources:	\$0.00		\$0.00 per lb

EXHIBIT G

**BICYCLE AND PEDESTRIAN
ESTIMATES METHODOLOGY
ATTACHMENT F**

Existing and Future Bicycle Use

The following analysis to estimate percentage increase in users focuses on adult users. Utilizing the models established by Transportation Research Board (TRB) National Cooperative Highway Research Program Report 552 and data provided by the U.S. Census and National Household Travel Survey (NHTS), OCTA and the city were able to estimate existing commuter cyclists, existing adult cyclists, new commuter cyclists, and new adult cyclists.

To estimate the number of existing cyclists and new cyclists induced by the project, journey to work mode shares and population data were extracted from the U.S. Census and NHTS. By establishing the number of residents within 400 meters, 800 meters, and 1,600 meter buffers, multiplying the number of residents in each buffer (R) by 40% (based on prior nationwide survey data, the model assumes 80% of residents are adults, and 50% of adults are commuters), and multiplying by the city's commute share (C) as established in the U.S. Census, the bicycle commute share is established. The extraction of population data from the buffers narrows the potential service area of the project to create a more accurate estimate of the number of cyclists.

$$\text{Daily existing bicycle commuters} = R * C * 0.4$$

Utilizing NHTS data, adult cycling rates vary from high to low, where low is the U.S. census commute share (C).

$$\begin{aligned} T_j : \\ T_{\text{high}} &= 0.6 + 3 * C \\ T_{\text{moderate}} &= 0.4 + 1.2 * C \\ T_{\text{low}} &= C \end{aligned}$$

$$\text{Total daily existing adult cyclists} = T * R * 0.8$$

To establish estimates for usage after the construction of a facility, the TRB research found that the closer to a facility a population lives, the more likely that population will utilize the facility. By using multipliers based on the buffer zones, induced cyclists from high to low can be estimated:

$\text{New Commuters} = \sum(\text{Existing commuters} * (L_d - 1))$ $\text{New Adult Cyclists} = \sum(\text{Existing adult cyclists} * (L_d - 1))$ $d = 400\text{m}, 800\text{m}, 1,600\text{m}$ $L_{400\text{m}} = 2.93$ $L_{800\text{m}} = 2.11$ $L_{1,600\text{m}} = 1.39$

The data was verified against OCTA's internal Geographic Information Systems databases to ensure consistency. The model yielded the following results:

Daily Existing Commuters or Adult Cyclists

	(R)	(R x 0.4)	(R x C x 0.4)	(T x R x 0.8)		
Buffer in Meters	Population in Buffer (not Cumulative)	Population of Commuters	Daily Existing Bicycle Commuters	Existing Adult Cyclists (High)	Existing Adult Cyclists (Med)	Existing Adult Cyclists (Low)
400	21,188	8,475	93	661	292	186
800	18,643	7,457	82	582	257	164
1,600	77,633	31,053	342	2,422	1,068	683
Total	117,463	46,985	517	3,665	1,616	1,034

Estimated Number of Induced/New Commuters and Adult Cyclists

	(R)	(R x 0.4)	$\sum(\text{Existing commuters} (L_d - 1))$	$\sum(\text{Existing adult cyclists}(L_d - 1))$		
Buffer in Meters	Population in Buffer (not Cumulative)	Population of Commuters	New Commuters	New Adult Cyclists (High)	New Adult Cyclists (Med)	New Adult Cyclists (Low)
400	21,188	8,475	180	1,276	563	360
800	18,643	7,457	91	646	285	182
1,600	77,633	31,053	133	945	417	266
Total	117,463	46,985	404	2,866	1,264	808
Percent Change in Adult Cyclists			78%	78%	78%	78%

**BUSINESSES WITHIN 1 MILE
ATTACHMENT G AND H**

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
7-ELEVEN	2217 E 17th St	Santa Ana	12
941 Corp	941 E 4th St	Santa Ana	18
99 Cents Only Stores	1514 N Main St	Santa Ana	50
A & J Auto Body	1020 N Harbor Blvd	Santa Ana	12
A Medical Billing	1415 E 17th St Ste 120	Santa Ana	10
A-1 Automotive Core Supplier	2415 W 5th St	Santa Ana	15
Abercrombie	2800 N Main St	Santa Ana	59
Academy of Dance	2431 N Tustin Ave Ste Q	Santa Ana	12
Ace Hardware	3501 W 1st St	Santa Ana	18
Adams Iron Co Inc	811 N Poinsettia St	Santa Ana	40
Advanced Courier Concepts	940 W 17th St Ste F	Santa Ana	12
AECOM	999 W Town and Country Rd	Orange	900
Aero Mobility Inc	2345 N Grand Ave	Santa Ana	20
Aeropostale	2800 N Main St Ste 656	Santa Ana	30
Affinity Dental Ctr	1920 E 17th St Ste 100	Santa Ana	40
Affordable US Limousine	1727 W Santa Ana Blvd	Santa Ana	20
Aflac	2700 N Main St Ste 620	Santa Ana	15
Albertsons	2000 E 17th St	Santa Ana	100
Alcohol & Drug Abuse Svc	1200 N Main St Ste 300	Santa Ana	16
Alcohol Beverage Control Dept	605 W Santa Ana Blvd Ste 28369	Santa Ana	20
All Phase Environmental	910 E 4th St	Santa Ana	13
ALL Roofing & Bldg Materials	111 S Minnie St	Santa Ana	40
All Surface Roofing & Wtrprfng	923 N Logan St	Santa Ana	25
Alvarez Brothers Co	131 S Glassell St	Orange	12
AMPM	302 W 1st St	Santa Ana	10
Army National Guard Recruiter	365 E River Ave	Orange	100
Arriba Baja Grill	745 S Main St Ste 170	Orange	12
Asian American Senior Citizens	850 N Birch St	Santa Ana	15
Ati College	1125 E 17th St Ste N251	Santa Ana	10
Auntie Anne's Pretzels	2800 N Main St Ste 702	Santa Ana	16
Austin Hardwoods & Hardware	610 N Santiago St	Santa Ana	30
Autozone	810 S Harbor Blvd	Santa Ana	12
Autozone	430 W 17th St	Santa Ana	11
Avenger Design	10862 Capital Ave Ste 4A	Garden Grove	40
Avenue	2130 E 17th St Ste A	Santa Ana	12
AVI Restoration	238 S Waverly St	Orange	20
Bagby Gajdos & Zachary	1605 E 17th St	Santa Ana	30
Bainbridge Group	2670 N Main St Ste 320	Santa Ana	10
Baja Fresh Mexican Grill	2800 N Main St Ste 936	Santa Ana	13
Bank of America	1418 N Main St	Santa Ana	50
Bank of America	102 W 4th St	Santa Ana	12
Bank of America	2127 E 17th St	Santa Ana	14
Bank of America Mortgage	1840 N Bristol St	Santa Ana	10
Bank of Commerce Mortgage	2670 N Main St Ste 350	Santa Ana	30
Bankers Diversified Mortgage	2700 N Main St	Santa Ana	60
Baziak & Steevens	1327 N Broadway	Santa Ana	10
Beacon Bay Auto Washes	2035 N Tustin Ave	Santa Ana	16
Bebe	2800 N Main St Ste 168A	Santa Ana	15
ARAMARK Correctional Svc	62 Civic Center Plz	Santa Ana	25
American Legal Ctr	1702 N Main St Ste 101	Santa Ana	15
American Leak Detection	304 N Townsend St # D	Santa Ana	50
American Eagle Outfitters	2800 N Main St Ste 252	Santa Ana	18
American Demolition/Concrete	620 N Poinsettia St	Santa Ana	120
Acme Bail Bonds	1107 W Civic Center Dr	Santa Ana	10

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Accident Attorneys-Wm Green	1631 N Bristol St Ste 310	Santa Ana	12
Attentive Home Care Inc	2020 N Broadway Ste 300	Santa Ana	10
Ari G Minassian School	5311 W McFadden Ave	Santa Ana	14
Belief In Giving	16452 Shasta St	Fountain Valley	10
Ben Ware Disposal Co Inc	1018 Lincoln Ave	Santa Ana	300
Ben Ware Disposal Co Inc	1035 E 4th St	Santa Ana	101
Benjies Ny Deli Restaurant	1828 N Tustin Ave	Santa Ana	43
Berman & More	2677 N Main St Ste 225	Santa Ana	12
Beta Benefits Insurance Svc	322 W 3rd St	Santa Ana	10
Bethel Baptist School	901 S Euclid St	Santa Ana	45
Bienestar Medical Ctr	1125 E 17th St Ste N152	Santa Ana	10
Big Saver Foods	420 W 17th St	Santa Ana	60
Billing Savi	770 W Town and Country Rd	Orange	15
Bio-Acoustical Engineering	1833 E 17th St Ste 103	Santa Ana	18
Birk Aerosystems	14321 Commerce Dr	Garden Grove	30
Birrieria Jalisco	404 N Grand Ave Ste A	Santa Ana	10
Blue Frog Bakery	136 S Glassell St	Orange	10
Booth Mitchel & Strange LLP	701 S Parker St Ste 6500	Orange	15
Bowers Kidseum	1802 N Main St	Santa Ana	12
Bowyer Bail Bonds	1076 W Santa Ana Blvd	Santa Ana	20
Boys Town	2740 N Grand Ave # 2	Santa Ana	50
Boys' & Girls' Club-Santa Ana	950 Highland St	Santa Ana	45
Brand Model & Talent Agency	601 N Baker St	Santa Ana	11
Brighton Collectibles	2800 N Main St Ste 864	Santa Ana	20
Bristol Park Medical Group	1212 W 17th St	Santa Ana	35
Brown Insurance Svc	962 W Town and Country Rd	Orange	11
Bruce Metal & Salvage Inc	920 E 6th St	Santa Ana	12
Buccaneer Pizza	2757 N Grand Ave	Santa Ana	10
Building Cleaning Systems	2510 N Grand Ave Ste 102	Santa Ana	100
Burger King	200 N Harbor Blvd	Santa Ana	22
Burger King	701 N Main St	Santa Ana	18
C & A Transducers Inc	14329 Commerce Dr	Garden Grove	20
C 3 Collision	815 N Harbor Blvd	Santa Ana	15
Cabrillo Tennis Ctr	800 Cabrillo Park Dr	Santa Ana	12
California Children Svc Ccs	200 W Santa Ana Blvd Ste 100	Santa Ana	100
California Choice	721 S Parker St Ste 200	Orange	400
California Coast University	925 N Spurgeon St	Santa Ana	25
California Girls Nightclub	1109 N Harbor Blvd	Santa Ana	35
California Pizza Kitchen	2800 N Main St Ste 872	Santa Ana	45
Caloptima	1120 W La Veta Ave Ste 200	Orange	300
Cambrian Home Care	469 S Glassell St	Orange	20
Camino Realty Mortgage Svc	1112 N Sycamore St	Santa Ana	20
Cardiology Specialists-Orange	1140 W La Veta Ave Ste 430	Orange	25
Career College of California	201 E 4th St Ste 200	Santa Ana	150
Carehouse Healthcare Ctr	1800 Old Tustin Ave	Santa Ana	145
Carl's Jr	1943 E 17th St	Santa Ana	28
Carl's Jr	1830 N Bristol St	Santa Ana	25
Carlton Hair	2800 N Main St Ste 140	Santa Ana	23
Carpet Emporium Inc	15945 Harbor Blvd	Fountain Valley	25
CARQUEST Auto Parts	920 E 1st St # E	Santa Ana	14
Casa Linda Furniture	116 N Broadway	Santa Ana	20
Cash Plus	1219 E 17th St	Santa Ana	11
CB Richard Ellis	1100 W Town and Country Rd Ste 1	Orange	75
Center For Individual & Family	840 W Town and Country Rd	Orange	55

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Center For Spiritual Devmnt	434 S Batavia St	Orange	17
Centro Legal Latino Legal Svc	2107 N Broadway Ste 101	Santa Ana	10
Century HS Basketball Bstrs	1008 E 17th St	Santa Ana	64
Certified Interpreters Inc	2024 N Broadway Ste 109	Santa Ana	15
Certified Transportation	1038 N Custer St	Santa Ana	65
Certifion Inc	2700 N Main St Ste 535	Santa Ana	12
Chambers Noronha & Kubota	2070 N Tustin Ave	Santa Ana	10
Champs Sports	2800 N Main St Ste 512	Santa Ana	10
Chandler's Air Conditioning	1702 W 5th St	Santa Ana	13
Chapman Engineering Inc	2321 Cape Cod Way	Santa Ana	37
Charles Mc Candless Tile Inc	636 N Poinsettia St	Santa Ana	30
Charlie's Foods Inc	201 S Mountain View St	Santa Ana	17
Charlotte Russe	2800 N Main St Ste 244	Santa Ana	15
Chase	1300 N Main St	Santa Ana	25
Casa Guadalupe Family Medical	2015 W 1st St Ste L	Santa Ana	15
Carver Elementary School	1401 W Santa Ana Blvd	Santa Ana	65
Cartel Salon	1921 N Tustin Ave	Santa Ana	40
Carrusel Child Care	807 S Arapaho Dr	Santa Ana	10
Check Cashing	304 W 4th St	Santa Ana	12
Chiarini Marble & Stone	830 E Washington Ave	Santa Ana	24
Child Development Ctr	1530 W 17th St # V	Santa Ana	39
Child Health & Disability Prgm	1725 W 17th St	Santa Ana	30
Children & Youth Svc	1200 N Main St Ste 500	Santa Ana	30
Children's Place	2800 N Main St Ste 136	Santa Ana	20
Children's Urology	505 S Main St Ste 100	Orange	12
Childrens Hospital-Orange Cnty	455 S Main St	Orange	1,250
Chiropractic Center of Orange	630 S Glassell St Ste 102	Orange	11
CHOC Health Alliance	1120 W La Veta Ave Ste 450	Orange	60
Choc Pediatric Subspecialty	455 S Main St	Orange	72
Choices Recovery Svc	600 N Grand Ave	Santa Ana	20
Chrome Tech	2330 Cape Cod Way	Santa Ana	80
Cibola Systems	180 S Cypress St	Orange	24
Cifarelli Law Firm	200 W Santa Ana Blvd Ste 300	Santa Ana	10
Citivest Realty Svc	1600 N Broadway Ste 100	Santa Ana	20
City of Santa Ana Human Rsrcs	20 Civic Center Plz # M24	Santa Ana	40
City West Mortgage	1913 E 17th St Ste 114	Santa Ana	10
Cjw-Mzt Project III	841 E Washington Ave # B	Santa Ana	40
Claim Jumper Restaurant	2250 E 17th St	Santa Ana	70
Clear Ad	2410 W 3rd St	Santa Ana	20
Clinica Medica Familiar De Snt	517 N Main St Ste 100	Santa Ana	80
Coach	2800 N Main St Ste 332A	Santa Ana	20
Coffee Bean & Tea Leaf	2800 N Main St Ste 704	Santa Ana	10
Coldwater Creek	2800 N Main St Ste 280	Santa Ana	15
Colleen O'Hara's Beauty Acad	109 W 4th St Fl 2	Santa Ana	16
College Hospital	1634 W 19th St # C	Santa Ana	20
Com Tam Tran Quy Cap	16175 Harbor Blvd	Fountain Valley	10
Community Clinical Trials	1140 W La Veta Ave Ste 555	Orange	10
Community Nursing	1725 W 17th St	Santa Ana	32
Concrete Placement Inc	902 E Walnut St	Santa Ana	25
Connelly Machine Works	420 N Terminal St	Santa Ana	22
Consolidated Investors	436 S Glassell St	Orange	12
Consulate General of Mexico	828 N Broadway	Santa Ana	13
Consumer Credit Counseling Svc	1920 Old Tustin Ave	Santa Ana	35
Continental Currency Svc Inc	1108 E 17th St	Santa Ana	110

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Controlled Motion Solutions	911 N Poinsettia St	Santa Ana	100
Cordoba Corp	1611 E 17th St	Santa Ana	30
Cornerstone Adult Outpatient	1950 E 17th St Ste 150	Santa Ana	20
Country Garden Caterers	719 N Main St	Santa Ana	20
County of Orange Crime Lab	320 N Flower St	Santa Ana	100
Craig Kinder's Court Hse Cafe	700 W Civic Center Dr # 355	Santa Ana	15
Crosby	400 N Broadway	Santa Ana	15
Crown Capital Securities	725 W Town and Country Rd Ste 53	Orange	25
Crystal Dental	1125 E 17th St Ste W127	Santa Ana	10
Crystal Glass & Mirror	505 S Harbor Blvd	Santa Ana	10
CSC Concrete Svc	913 E 4th St	Santa Ana	100
CTI Inc	2650 S Grand Ave	Santa Ana	25
Cueva Chiropractic Corp	1212 N Broadway	Santa Ana	20
Culligan Water Conditioning	502 S Lyon St # 2	Santa Ana	87
Cummins Kozak Gillman & Ellis	725 W La Veta Ave Ste 100	Orange	20
CVS Pharmacy	480 S Main St	Orange	30
Dairy Queen	2121 N Tustin Ave	Santa Ana	14
Dan Young Soccer Complex	26 Civic Center Plz	Santa Ana	10
Daniel Ibarra Insurance	1028 W 1st St Ste C	Santa Ana	10
Dearden's Home Furnishings	117 N Broadway	Santa Ana	30
Dedicated Medical Imaging	1125 E 17th St Ste W125	Santa Ana	16
Del Taco	2761 N Grand Ave	Santa Ana	33
Del Taco	2300 N Tustin Ave	Santa Ana	29
Dennis Mc Nerney Law Office	600 S Main St	Orange	15
Denny's	1258 E 17th St	Santa Ana	54
DGWB	217 N Main St Ste 200	Santa Ana	100
Di Marco Araujo & Montevideo	1324 N Broadway	Santa Ana	31
Diamond Parking Svc	900 N Broadway	Santa Ana	40
Diaz Yourman & Assoc	1616 E 17th St	Santa Ana	23
Discovery Science Ctr	2500 N Main St	Santa Ana	100
Dm JMH & N Inc	999 W Town and Country Rd	Orange	46
Dollar Tree	1900 N Grand Ave Ste B	Santa Ana	15
Dollar Tree	16141 Harbor Blvd	Fountain Valley	10
Don Roberto Jewelers	120 W 4th St	Santa Ana	17
Dons Bail Bonds	1076 W Santa Ana Blvd	Santa Ana	10
Eddie Bauer	2800 N Main St Ste 316	Santa Ana	15
El Indio Tortillas Factory	1502 W 5th St	Santa Ana	20
El Pollo Loco	1702 E 17th St	Santa Ana	25
El Pollo Loco	101 S Harbor Blvd	Santa Ana	22
El Pollo Loco	1909 N Main St	Santa Ana	16
El Rey Taco	501 N Harbor Blvd Ste E	Santa Ana	10
El Salvador Ctr	1825 W Civic Center Dr	Santa Ana	10
El Sol Science Ctr	1010 N Broadway	Santa Ana	30
El Super Super Market	3700 W McFadden Ave	Santa Ana	75
El Tereo Liquor	1412 W 1st St	Santa Ana	12
El Torito Mexican Grill	2800 N Main St	Santa Ana	40
El Toro Carniceria-Meat Shop	1340 W 1st St	Santa Ana	100
Electric Caction Electric Corp	1001 E Washington Ave	Santa Ana	40
Electrolux Vacuum Svc	1941 N Tustin Ave	Santa Ana	20
Electronic Warehouse	1014 N Harbor Blvd	Santa Ana	15
Elite Investigations	910 W 17th St Ste A	Santa Ana	20
Elliott Lewis Lieber & Stumpf	1611 E 4th St Ste 200	Santa Ana	26
Elmco Insurance Inc	1905 N Main St	Santa Ana	10
Emerald Bay Restaurant	5015 W Edinger Ave Ste V	Santa Ana	10

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
El Carbonero	803 S Main St	Santa Ana	12
Edward B Cole Sr Academy	333 E Walnut St	Santa Ana	37
Edgemac	1100 W Town and Country Rd Ste 5	Orange	25
Easter Seals	1570 E 17th St Ste A	Santa Ana	30
Dti Investments	1912 N Broadway Ste 300	Santa Ana	15
DSW Shoe Warehouse	736 S Main St	Orange	24
Domino's Pizza	309 N Harbor Blvd	Santa Ana	22
Davis Elementary School	1405 French St	Santa Ana	55
David's Bridal	763 S Main St	Orange	10
David Stanton & Assoc	1140 W La Veta Ave Ste 555	Orange	40
Corrections-Parole & Comm Svc	1600 N Main St	Santa Ana	70
Correctional Mental Health	550 N Flower St	Santa Ana	40
Commerce Compensation Ins Fund	1470 E 4th St	Santa Ana	100
Emergency Medicine Specialists	1010 W La Veta Ave Ste 755	Orange	100
Engineering Alignment Systems	1913 E 17th St Ste 203	Santa Ana	11
Entrust Medical Group	302 W La Veta Ave Ste 201	Orange	10
Entrust Medical Group	1140 W La Veta Ave Ste 515	Orange	15
Environment Associates Inc	2300 Cape Cod Way	Santa Ana	10
ESI-FME Inc	1800 E 16th St Ste B	Santa Ana	26
Essex Mortgage	1100 W Town and Country Rd Ste 1	Orange	100
Everest National Insurance	725 W Town and Country Rd #400	Orange	30
Experience Audio Video Inc	10 Plaza Sq	Orange	12
Express	2800 N Main St Ste 160	Santa Ana	20
Fairhaven Elementary School	1415 Fairhaven Ave	Santa Ana	50
Fairhaven Memorial Park	1702 Fairhaven Ave	Santa Ana	80
Famsa Inc	419 E 1st St	Santa Ana	20
Fantastic Cafe	1727 E 17th St	Santa Ana	10
Farmers & Merchants Bank	1750 E 17th St	Santa Ana	11
Fashion Q	3710 W McFadden Ave	Santa Ana	11
Fast Ad Inc	220 S Center St	Santa Ana	15
Federal Bureau-Investigation	901 W Civic Center Dr Ste 330	Santa Ana	100
Fire Safety First	1170 E Fruit St	Santa Ana	60
First & Bristol Medical Group	1332 W 1st St	Santa Ana	16
First American Property & Cslt	114 E 5th St	Santa Ana	400
First Baptist School-Santa Ana	1010 W 17th St	Santa Ana	13
First Choice Bail Bonds	615 W Civic Center Dr Ste 200	Santa Ana	15
First Choice Cleaning Svc	516 E 3rd St	Santa Ana	12
First Legal Support Svc	301 W Civic Center Dr	Santa Ana	75
First Presbyterian Church	600 N Main St	Santa Ana	10
Fitz Intermediate School	4600 W McFadden Ave	Santa Ana	60
Flanigan & Harward Inc	1140 W La Veta Ave Ste 850	Orange	20
Fleming & Sons Concrete Co	911 E Walnut St	Santa Ana	22
Flowerdale Nurseries Inc	2800 N Tustin Ave	Santa Ana	11
Food 4 Less	315 E 1st St	Santa Ana	90
Fremont Elementary School	1930 W 10th St	Santa Ana	75
French American School-Lycees	2625 N Tustin Ave	Santa Ana	15
French Park Care Ctr	600 E Washington Ave	Santa Ana	215
G John Jansen & Assoc Law Ofc	2114 N Broadway Ste 200	Santa Ana	20
G M Home Loans & Realtors Inc	1505 E 17th St Ste 230	Santa Ana	15
G S California Towing	2202 W 5th St	Santa Ana	10
Galant & Lin Inc	505 S Main St Ste 250	Orange	15
Gap	2800 N Main St Ste 152	Santa Ana	25
Gap Kids	2800 N Main St Ste 536	Santa Ana	18
Gardener & Riechmann	1806 N Broadway # A	Santa Ana	10

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Garfield Elementary School	850 Brown St	Santa Ana	31
Gary F Lyons & Assoc	2510 N Grand Ave Ste 112	Santa Ana	14
Gene J Goldsman Law Office	501 W Civic Center Dr	Santa Ana	18
Glacier Corp	1021 Fuller St	Santa Ana	10
Glamour Shots	2800 N Main St Ste 2060	Santa Ana	14
Glenn M Gelman & Assoc	1940 E 17th St	Santa Ana	40
Global Attorney's Network	1701 N Main St	Santa Ana	15
Global Environmental Network	106 W 4th St # 201	Santa Ana	15
Goodwill	849 S Tustin St	Orange	14
Goodwill Employment Svc	2670 N Main St Ste 100	Santa Ana	60
Grancell Lebovitz Stander	600 S Main St Ste 1000	Orange	20
Grand Avenue Christian School	2121 N Grand Ave	Santa Ana	12
Grandpoint Bank	1666 N Main St Ste 100	Santa Ana	13
Greater Santa Ana Chmbr-Cmmrc	2020 N Broadway Ste 200	Santa Ana	11
Gregor S Garrett Law Office	725 W Town and Country Rd Ste 55	Orange	34
Griton Industry	10821 Capital Ave	Garden Grove	16
Guaranty Chevrolet	711 E 17th St	Santa Ana	120
H&r Block	208 N Harbor Blvd Ste A6	Santa Ana	10
Hacienda Restaurant	1725 College Ave	Santa Ana	25
Hair Cartel	1921 N Tustin Ave	Santa Ana	25
Hair Club For Men & Women	431 S Batavia St Ste 201	Orange	20
Hand Care Ctr Shoulder & Elbow	1140 W La Veta Ave Ste 860	Orange	25
Handbill Printers	14321 Corporate Dr	Garden Grove	150
Happy Hands Car Wash	1205 W 17th St	Santa Ana	49
Harbor Boulevard Car Wash	1111 S Harbor Blvd	Santa Ana	25
Hazard Elementary School	4218 W Hazard Ave	Santa Ana	91
Health Associates Federal Cu	530 S Main St Ste 100	Orange	11
Health Care Agency Accounting	200 W Santa Ana Blvd Ste 1000	Santa Ana	17
Hear Center	1301 W Providence Ave	Orange	60
Heart Doctors	1140 W La Veta Ave Ste 430	Orange	20
Heartland Home Care & Hospice	725 W Town and Country Rd Ste 14	Orange	150
Hematology-Oncology Medical	1010 W La Veta Ave Ste 200	Orange	50
Heninger Elementary School	417 W Walnut St	Santa Ana	72
Heroes Elementary School	1111 W Civic Center Dr	Santa Ana	60
Highway Patrol	2031 E Santa Clara Ave	Santa Ana	130
Hollybrook Senior Living-Orng	2025 N Bush St	Santa Ana	30
Holy Family Cathedral	566 S Glassell St	Orange	80
Holy Family Cathedral School	530 S Glassell St	Orange	53
Hometown Buffet	1008 E 17th St	Santa Ana	55
Hoover Elementary School	408 E Santa Clara Ave	Santa Ana	83
Howard Strickroth Parker	2677 N Main St Ste 800	Santa Ana	20
HPL Mechanical Inc	1041 N Logan St	Santa Ana	12
Huong Tich Temple	4821 W 5th St	Santa Ana	10
I Loan Magic	5015 W Edinger Ave Ste S	Santa Ana	10
IAS Claims Svc	1800 E 17th St Ste 100	Santa Ana	13
Icon Maintenance Svc Inc	807 W 17th St	Santa Ana	12
IHOP Restaurant	1001 E 17th St	Santa Ana	14
Institute-Hand & Microsurgery	902 N Grand Ave Ste 204	Santa Ana	10
Insurance Educational Assn	725 W Town and Country Rd Ste 43	Orange	10
Insurance Partners Inc	2107 N Broadway Ste 108	Santa Ana	12
Insurance Technology Conslns	701 S Parker St	Orange	12
Integrated Systems Solutions	34 Plaza Sq	Orange	15
Integrative Medical Ctr	526 W 17th St	Santa Ana	10
Integrity House	2043 N Broadway	Santa Ana	19

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
International Disc Mfg	4906 W 1st St	Santa Ana	13
Interstate Battery System	10891 Forbes Ave Ste A	Garden Grove	38
J & H Drilling Co Inc	1043 E 4th St	Santa Ana	15
J Jill	2800 N Main St Ste 320	Santa Ana	11
J R Gibson Co	111 W 17th St	Santa Ana	15
Jack In the Box	820 N Harbor Blvd	Santa Ana	26
Jack In the Box	719 N Bristol St	Santa Ana	25
Jack In the Box	601 N Main St	Santa Ana	25
Jacques Doumani Beauty Salon	2700 N Main St Ste 120	Santa Ana	10
Jamba Juice	691 S Main St Ste 90	Orange	20
James G Roche Law Offices	1702 N Main St Ste 101	Santa Ana	10
James Monroe Elementary School	16225 Newhope St	Fountain Valley	47
James R Traut Law Corp	200 W Santa Ana Blvd Ste 900	Santa Ana	12
Jason's Catered Events	207 N Broadway Ste P	Santa Ana	25
Jeffery & Grosfeld LLP	725 W Town and Country Rd Ste 31	Orange	13
JFK Transportation	980 W 17th St Ste B	Santa Ana	15
Jiffy Lube	2025 N Tustin Ave	Santa Ana	10
Jim Jennings Custom Masonry	2221 Cape Cod Way	Santa Ana	16
John Henry Foudnation Inc	403 N Susan St	Santa Ana	15
John M Frank Construction Inc	913 E 4th St	Santa Ana	95
Johnson La Follette	2677 N Main St Ste 901	Santa Ana	32
Josefina Robles Inc	1307 W Stewart Dr	Orange	12
JPA Const Clean Up Svc Inc	922 E 4th St	Santa Ana	11
Judy's Hallmark	2800 N Main St Ste 408	Santa Ana	10
K C Engineering	1850 E 17th St Ste 210	Santa Ana	10
Katharine Irvine Day School	1002 W 2nd St	Santa Ana	16
KDOC	625 N Grand Ave	Santa Ana	35
Kennedy Court Reporters Inc	920 W 17th St Ste E	Santa Ana	60
KFC	762 S Harbor Blvd	Santa Ana	17
Kia Depot Sales Dept	909 N Grand Ave	Santa Ana	50
KIDS Head Start	1002 W 2nd St	Santa Ana	16
Kidworks Community Devmnt	1902 W Chestnut Ave	Santa Ana	25
Kinder Morgan Inc	1100 W Town and Country Rd Ste 6	Orange	200
Kindred Hospital-Santa Ana	1901 College Ave	Santa Ana	100
Kinkle Rodiger & Spriggs Inc	837 N Ross St	Santa Ana	19
Knowlwood Home-Worlds Best	2107 E 17th St	Santa Ana	12
Knox General Insurance Brokers	226 S Glassell St	Orange	14
KOA Corp	1120 W La Veta Ave Ste 660	Orange	16
Kohl's Department Store	1351 W 17th St	Santa Ana	88
Kramer & Olsen Accountancy	2010 N Tustin Ave	Santa Ana	13
La Rancherita Tortilleria Y	4408 W 5th St	Santa Ana	40
La Veta Surgical Ctr	681 S Parker St Ste 150	Orange	35
Labell Exchange	501 French St	Santa Ana	30
Labor Finders	2525 N Grand Ave Ste Y	Santa Ana	450
Labor Standards Enforcement	28 Civic Center Plz Ste 625	Santa Ana	20
Labor Standards Enforcement	605 W Santa Ana Blvd Ste 28625	Santa Ana	20
Lamb's Lot Preschool	151 S Center St	Orange	13
Laveta Orthopaedic Assoc	725 W La Veta Ave Ste 260	Orange	12
Lawrence Beach Allen & Choi	1600 N Broadway Ste 1010	Santa Ana	12
Levinton Diaz	2700 N Main St Ste 200	Santa Ana	25
Levinton Diaz & Ginocchio Inc	2700 N Main St # 200	Santa Ana	30
Liberty Tax Svc	509 S Harbor Blvd	Santa Ana	10
Liberty Tax Svc	2441 N Tustin Ave Ste B	Santa Ana	10
LISI Inc	2677 N Main St Ste 350	Santa Ana	15

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Little Caesars Pizza	423 E 1st St Ste 3A	Santa Ana	20
Little Caesars Pizza	804 S Harbor Blvd	Santa Ana	18
Lowell Elementary School	700 S Flower St	Santa Ana	90
Lucky Guy's Burgers	401 S Main St	Santa Ana	10
Lynberg & Watkins	1100 W Town and Country Rd Ste 1	Orange	24
M C Cabinet Co	309 N Harbor Blvd	Santa Ana	10
Mac Farlane Electric	2115 N Main St	Santa Ana	30
Madison Materials	1035 E 4th St	Santa Ana	49
Leon Richman Design Inc	2090 N Tustin Ave Ste 200	Santa Ana	12
Legal Solution Attorney	404 W 4th St Ste G	Santa Ana	10
Legal Aid Society	2101 N Tustin Ave	Santa Ana	51
Latino Health Access	450 W 4th St Ste 120	Santa Ana	57
Lane Bryant	2800 N Main St Ste 416	Santa Ana	13
La Familia Drug Abuse Ctr	1905 College Ave	Santa Ana	30
Main Photo & Imaging Svc Inc	827 S Main St	Santa Ana	30
Main Place Chiropractic	1111 W Town and Country Rd Ste 6	Orange	11
Main Place Dialysis	972 W Town and Country Rd	Orange	30
Main Street Car Wash	1807 N Main St	Santa Ana	20
Marathon Triad Carpet	1348 N Santiago St	Santa Ana	10
Marie Callender's	1821 N Grand Ave	Santa Ana	54
Marine Depot	14271 Corporate Dr	Garden Grove	10
Mario's Auto Sale	1010 S Harbor Blvd	Santa Ana	10
Mariposa Women & Family Ctr	812 W Town and Country Rd	Orange	50
Maxim Healthcare Svc	725 W Town and Country Rd # 10	Orange	11
Mc Cormick & Schmick's Seafood	2791 N Main St	Santa Ana	40
Mc Donald's	1439 N Bristol St	Santa Ana	32
Mc Donald's	2800 N Main St Ste 924	Santa Ana	23
Mc Donald's	3600 W McFadden Ave	Santa Ana	25
Mc Donald's	666 S Harbor Blvd	Santa Ana	52
Mc Donald's	1011 E 17th St	Santa Ana	50
Me Q Inc	150 S Harbor Blvd Ste J	Santa Ana	13
Meals On Wheels	170 S Olive St	Orange	10
Mega Furniture Superstore	400 E 4th St	Santa Ana	11
Megan's Tickets	406 S Olive St	Orange	13
Melendez & Assoc Legal	1905 E 17th St Ste 120	Santa Ana	10
Mercy House Transitional	807 N Garfield St	Santa Ana	13
Merit Cables Inc	830 N Poinsettia St	Santa Ana	27
Meshkani Co Inc	2345 N Grand Ave	Santa Ana	26
Methadone Maintenance Program	1725 W 17th St	Santa Ana	18
Michael M Mojtahedi Law Office	2700 N Main St Ste 610	Santa Ana	12
Micheal G Muhonen Inc	455 S Main St	Orange	20
Miyoco Center Inc	15975 Harbor Blvd	Fountain Valley	11
Model Finance Inc	1068 W Town and Country Rd	Orange	11
Mohawk Carpet Outlet	1348 N Santiago St	Santa Ana	15
MOMS Resource Ctr	1128 W Santa Ana Blvd	Santa Ana	39
Monte Stone	1415 Raymar St	Santa Ana	10
Moran Rowen & Dorsey Inc	431 S Batavia St Ste 103	Orange	50
Moran Rowen & Dorsey Inc	1201 W La Veta Ave # 102	Orange	28
Moran Rowen & Dorsey Inc	705 W La Veta Ave	Orange	18
Morgan Stanley Smith Barney	2677 N Main St Ste 1000	Santa Ana	70
Mother's Nutritional Ctr	5015 W Edinger Ave Ste R	Santa Ana	12
Muir Fundamental Elementary	1951 Mabury St	Santa Ana	100
Mullen Finance Plan	1103 S Harbor Blvd Ste A	Santa Ana	17
Murchison & Cumming LLP	200 W Santa Ana Blvd Ste 801	Santa Ana	15

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Murray's Ace Hardware	210 S Main St	Santa Ana	12
Murrietta Bros	838 E 1st St	Santa Ana	50
Myers Select Material Handling	2120 W Chestnut Ave	Santa Ana	20
Nails 2000 Intl	10892 Forbes Ave Ste A2	Garden Grove	10
NAPA Auto & Truck Parts	515 E 1st St	Santa Ana	20
Natale Coffee	1702 N Main St Ste 101	Santa Ana	13
National Aquarium Wholesale	14271 Corporate Dr	Garden Grove	30
National Credit Report Repair	1029 S Driftwood Dr	Santa Ana	20
Nealley Library	1530 W 17th St	Santa Ana	25
New Millenia Inc	409 Edgewood Rd	Santa Ana	10
Mobile MOHS Inc	1856 W 17th St	Santa Ana	30
Mobile Hose & Hydraulic Supply	911 N Poinsettia St	Santa Ana	56
Middle College High School	1530 W 17th St	Santa Ana	20
Mental Health Svc	1200 N Main St Ste 201	Santa Ana	43
Mental Health Assn-Orange Cnty	822 W Town and Country Rd	Orange	11
Mendez Intermediate School	2000 N Bristol St	Santa Ana	80
Men-Cal	941 E 4th St	Santa Ana	14
Men's Wearhouse	745 S Main St Ste 100	Orange	11
Medical Oncology Care Assoc	1010 W La Veta Ave Ste 250	Orange	25
Mc Donald's	301 E 1st St	Santa Ana	50
New World Van Lines	14322 Commerce Dr	Garden Grove	30
New York & Co	2800 N Main St Ste 603	Santa Ana	15
Newbridge College	1800 E 16th St Ste A	Santa Ana	40
Newhope Assembly of God Church	917 S Newhope St	Santa Ana	10
Newhope Elementary School	4419 W Regent Dr	Santa Ana	60
Newhope Library	122 N Newhope St	Santa Ana	12
Next Ace Corp	1100 W Town and Country Rd Ste 1	Orange	50
Norm's Restaurant	102 E 17th St	Santa Ana	75
Northgate Market 7	1623 W 17th St	Santa Ana	101
Northgate Markets	409 E 4th St	Santa Ana	99
Northwestern Mutual Financial	1100 W Town and Country Rd Ste 1	Orange	15
O C Auto Parts & Rebuilders	3621 W 5th St	Santa Ana	10
OCN	625 N Grand Ave	Santa Ana	80
Ocpw	1143 E Fruit St	Santa Ana	180
Office Bar & Grill	2106 N Tustin Ave	Santa Ana	20
Old Fashioned Natural Products	2230 Cape Cod Way	Santa Ana	12
Old Town Fiberglass Inc	456 S Montgomery Way	Orange	18
Olde Ship	1120 W 17th St	Santa Ana	15
Olin Group	1505 E 17th St Ste 101	Santa Ana	12
Olive Garden Italian Rstrnt	2800 N Main St Ste 760	Santa Ana	150
Orange Circle Antique Mall	118 S Glassell St	Orange	18
Orange City Fire Dept	176 S Grand St	Orange	20
Orange Cnty Housing Community	1770 N Broadway	Santa Ana	210
Orange Coast Plumbing	1524 W 5th St	Santa Ana	50
Orange County Alternate Dfndr	600 W Santa Ana Blvd Ste 600	Santa Ana	45
Orange County Assessor Office	11 Civic Center Plz	Santa Ana	301
Orange County Auditor	12 Civic Center Plz Ste 200	Santa Ana	130
Orange County Child Abuse	500 S Main St Ste 1100	Orange	91
Orange County Children & Youth	405 W 5th St # 590	Santa Ana	18
Orange County Clerk	211 W Santa Ana Blvd Ste 201	Santa Ana	100
Orange County Clerk Recorder	12 Civic Center Plz # 101	Santa Ana	100
Orange County Counsel	10 Civic Center Plz Ste 407	Santa Ana	80
Orange County Ctr-Contemporary	117 N Sycamore St	Santa Ana	22
Orange County District Atty	700 W Civic Center Dr # 200	Santa Ana	250

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Orange County District Atty	401 W Civic Center Dr Fl 1	Santa Ana	1,005
Orange County Emergency Med	405 W 5th St # 301A	Santa Ana	25
Orange County Employees Assn	830 N Ross St	Santa Ana	35
Orange County Epidemiology	1719 W 17th St	Santa Ana	23
Orange County Executive	10 Civic Center Plz # 3	Santa Ana	94
Orange County Fair Housing-Hud	201 S Broadway	Santa Ana	17
Orange County Grand Jury	700 W Civic Center Dr Ste B120	Santa Ana	20
Orange County Hazardous Waste	300 N Flower St # 400	Santa Ana	150
Orange County Health Dept	1725 W 17th St	Santa Ana	500
Orange County Health Promotion	12 Civic Center Plz Ste 127	Santa Ana	47
Orange County Heart Institute	1140 W La Veta Ave Ste 640	Orange	40
Orange County High Schl-Arts	1010 N Main St	Santa Ana	125
Orange County Housing Auth	1770 N Broadway	Santa Ana	250
Orange County Info & Tech	10 Civic Center Plz	Santa Ana	15
Orange County Internal Audit	12 Civic Center Plz # 232	Santa Ana	20
Orange County Landfill Site	320 N Flower St # 400	Santa Ana	150
Orange County Landfill Site	300 N Flower St # 400	Santa Ana	65
Orange County Law Library	515 N Flower St	Santa Ana	24
Orange County Register Comms	625 N Grand Ave	Santa Ana	1,500
Orange County Sexually Trnsmt	1725 W 17th St	Santa Ana	40
Orange County Sheriff	909 N Main St Ste 2	Santa Ana	65
Orange County Sheriff Civil	909 N Main St Ste 2	Santa Ana	15
Orange County Sheriff Dept	700 W Civic Center Dr	Santa Ana	70
Orange County Social Svc	2020 W Walnut St	Santa Ana	120
Orange County Social Svc Agcy	1000 E Santa Ana Blvd Ste 300	Santa Ana	30
Orange County Supervisors	10 Civic Center Plz Ste 465	Santa Ana	40
Orange County Supervisors Brd	333 W Santa Ana Blvd # 5	Santa Ana	60
Orange County Tax Collector	12 Civic Center Plz Rm G58	Santa Ana	87
Orange County Traffic Engrng	300 N Flower St	Santa Ana	24
Orange County Trans Authority	550 S Main St	Orange	500
Orange County Waste Mgmt Dept	300 N Flower St # 400	Santa Ana	290
Orange County WIC Program	1725 W 17th St	Santa Ana	40
Orange Electric	448 S Montgomery Way	Orange	10
Orange Fire Prevention	174 S Orange St	Orange	10
Orange Health Care	920 W La Veta Ave	Orange	105
Orange Homecare	725 W Town and Country Rd # 10	Orange	11
Orange Maternal Child & Adlscn	1725 W 17th St	Santa Ana	16
Orange Perinatal Substance/Act	1200 N Main St Ste 525	Santa Ana	17
Orange County Real Estate Div	14 Civic Center Plz # 3	Santa Ana	35
Orange County Quality Imprvmt	405 W 5th St Ste 410	Santa Ana	11
Orange County Public Works	300 N Flower St	Santa Ana	900
Orange County Public Health	405 W 5th St # 709	Santa Ana	15
Orange County Public Defenders	600 W Santa Ana Blvd Ste 111	Santa Ana	30
Orange County Public Defender	14 Civic Center Plz	Santa Ana	120
Orange County Pub Health Lab	1729 W 17th St	Santa Ana	50
Orange County Probation	909 N Main St # 1	Santa Ana	100
Orange County Personnel	333 W Santa Ana Blvd Ste 200	Santa Ana	42
Orange County Pathology Med	805 W La Veta Ave Ste 104	Orange	12
Orange Senior Ctr	170 S Olive St	Orange	10
Orange-Walker Physical Therapy	1111 W Town and Country Rd Ste 1	Orange	25
Orangewood Children's Fndtn	1575 E 17th St	Santa Ana	64
Orchard Supply Hardware	1975 E 17th St	Santa Ana	45
Orion Inc	2202 S Wright St	Santa Ana	15
Orthopedic Surgery	1125 E 17th St Ste E218	Santa Ana	24

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Our Lady of Lavang	288 S Harbor Blvd	Santa Ana	10
P J's Abbey Restaurant	182 S Orange St	Orange	30
Pacific Interpreting Svc Inc	1516 N Broadway # 1	Santa Ana	17
Pacific Plumbing of Santa Ana	615 E Washington Ave	Santa Ana	30
Padilla & Assoc Inc	211 E City Place Dr	Santa Ana	20
Palmed Inc	517 N Main St Ste 100	Santa Ana	30
Panaderia Ensenada & Rstrnt	431 E 1st St Ste 4E	Santa Ana	13
Panda Express	2800 N Main St Ste 912	Santa Ana	15
Papa John's Pizza	3770 W McFadden Ave Ste A	Santa Ana	10
Park Plaza Retirement Rsdnc	620 S Glassell St	Orange	50
Parking Concepts Inc	1020 W Civic Center Dr	Santa Ana	50
Parsons Brinckerhoff	505 S Main St Ste 900	Orange	60
Pasadena Billing	500 S Main St Ste 1210	Orange	18
Pavilion Family Physicians	1140 W La Veta Ave Ste 700	Orange	30
Pavilion Neurology	1140 W La Veta Ave Ste 730	Orange	15
PDC Facilities	836 W Town and Country Rd	Orange	10
Peryam & Kroll Research Corp	2435 N Grand Ave	Santa Ana	15
PETSMART	2140 E 17th St	Santa Ana	28
Philly's Best	1804 N Tustin Ave Ste B	Santa Ana	10
Pho Cali Restaurant	120 S Harbor Blvd Ste N	Santa Ana	10
Pho Hoa Binh Restaurant	3839 W 1st St Ste B11	Santa Ana	10
Phoenix House	1207 E Fruit St	Santa Ana	22
Phoenix Studios	804 E Washington Ave	Santa Ana	20
Picture People	2800 N Main St Ste 1028	Santa Ana	13
Pinkberry	2785 N Main St	Santa Ana	15
Pio Pico Elementary School	931 Highland St	Santa Ana	46
Pizza Hut	715 N Harbor Blvd Ste 103	Santa Ana	25
Pizza Hut	2003 W 1st St # B	Santa Ana	20
Pizza Hut	2390 N Tustin Ave Ste A	Santa Ana	18
Pizza Hut	806 W 17th St	Santa Ana	30
Planned Parenthood	1134 E 17th St	Santa Ana	12
Playground Burgers	220 E 4th St	Santa Ana	20
PM Realty Group	1140 W La Veta Ave Ste 400	Orange	11
Pointe Construction Inc	933 N Santiago St	Santa Ana	10
Polly's Pies Restaurant	2660 N Main St	Santa Ana	50
Popeye's Chicken & Biscuits	1244 E 17th St	Santa Ana	10
Precision Precast	530 N Terminal St	Santa Ana	10
Pregnancy Helpline	901 S Euclid St	Santa Ana	12
Prenovost Normandin Bergh Dawe	2122 N Broadway	Santa Ana	44
Primerica Financial Svc	720 W Town and Country Rd	Orange	200
Progress Speech & Language Ctr	2020 N Broadway Ste 101	Santa Ana	21
Progressive Air Systems Inc	915 E Washington Ave	Santa Ana	12
Providence Speech & Hearing	1301 W Providence Ave	Orange	60
PSOC	620 N Santiago St	Santa Ana	25
Psychological Assessment Svc	2107 N Broadway Ste 207	Santa Ana	18
Public Defender's Office	600 W Santa Ana Blvd Ste 111	Santa Ana	40
Public Law Ctr	601 W Civic Center Dr	Santa Ana	21
Qbics Career College	1125 E 17th St Ste E210	Santa Ana	15
R-Ranch Market	631 S Main St	Santa Ana	40
Ralph Allen & Partners	520 N Main St Ste 200	Santa Ana	12
Rancho De Mendoza	104 E 4th St	Santa Ana	20
RDMD-ARCHTCTR & Engrng	1152 E Fruit St	Santa Ana	23
Rebelle	127 S Olive St	Orange	25
Recruit Connection Inc	1940 E 17th St	Santa Ana	35

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Red Mountain Retail Group	1234 E 17th St	Santa Ana	100
Red Roof Inn-Santa Ana	2600 N Main St	Santa Ana	15
Reeves Law Group	200 W Santa Ana Blvd Ste 630	Santa Ana	30
Regent West	4717 W 1st St	Santa Ana	35
Rehlen Barthlow & Goodman	1125 E 17th St Ste W248	Santa Ana	30
Reindeer Inc	929 E 3rd St	Santa Ana	55
Reliable Mortgage	2510 N Grand Ave Ste 208	Santa Ana	10
Remington Elementary School	1325 E 4th St	Santa Ana	40
Retina Institute	436 S Glassell St	Orange	15
Revenue Enhancements	600 S Main St Ste 1010	Orange	18
RFG Group of Co Inc	1522 E 4th St	Santa Ana	34
Rice Drywall Inc	919 E 6th St	Santa Ana	50
Richardson Group	413 S Glassell St	Orange	16
Rimkus Consulting Group	2677 N Main St Ste 300	Santa Ana	10
Risk Placement Svc Inc	701 S Parker St Ste 6200	Orange	35
RMB Escrow	2119 N Main St	Santa Ana	15
Roberts Waste & Recycling	930 E Walnut St	Santa Ana	20
Roche Excavating Inc	1051 E 6th St	Santa Ana	15
Rohm Insurance	26 Plaza Sq # 200	Orange	12
Roman Realtors & Financial Svc	1901 N Broadway	Santa Ana	10
Romero Cruz Elementary School	1512 W Santa Ana Blvd	Santa Ana	49
Ronald Mc Donald House	383 S Batavia St	Orange	11
Roosevelt Elementary School	501 S Halladay St	Santa Ana	55
Rosenow Spevacek Group	309 W 4th St	Santa Ana	30
Rosita Elementary School	4726 W Hazard Ave	Santa Ana	82
Ross Dress For Less	2200 E 17th St	Santa Ana	70
Ross Dress For Less	3730 W McFadden Ave	Santa Ana	25
Ross Pallet Inc	940 E Walnut St	Santa Ana	60
Rubio's Fresh Mexican Grill	691 S Main St Ste 150	Orange	18
Ruper Eye Ctr	436 S Glassell St	Orange	15
Russell Elementary School	600 S Jackson St	Santa Ana	95
RWB Party Props Inc	128 S Cypress St	Orange	15
S G Wholesale Roofing Supplies	1101 E 6th St	Santa Ana	30
Safeco Insurance	2677 N Main St Ste 600	Santa Ana	300
Salgado Community Ctr	888 W Santa Ana Blvd Ste 200	Santa Ana	10
Santa Ana Cdc Infant Toddler	1530 W 17th St # V100	Santa Ana	45
Santa Ana City Attorney	20 Civic Center Plz # M29	Santa Ana	14
Santa Ana City Garage	215 S Center St # J	Santa Ana	22
Santa Ana City Hall	20 Civic Center Plz	Santa Ana	800
Santa Ana City Mayor's Office	20 Civic Center Plz	Santa Ana	10
Santa Ana City Planning	20 Civic Center Plz	Santa Ana	25
Santa Ana City Police Jail	62 Civic Center Plz	Santa Ana	180
Santa Ana City Public Works	220 S Daisy Ave	Santa Ana	20
Santa Ana City Purchasing	20 Civic Center Plz	Santa Ana	12
Santa Ana City Yard	215 S Center St	Santa Ana	200
Santa Ana Dental Group	715 S Main St	Santa Ana	26
Santa Ana Economic Development	20 Civic Center Plz	Santa Ana	10
Santa Ana Engineering Div	20 Civic Center Plz	Santa Ana	50
Santa Ana Equipment Mntnc	215 S Center St # J	Santa Ana	22
Santa Ana Federal Credit Union	800 W Santa Ana Blvd	Santa Ana	26
Santa Ana Finance & Management	20 Civic Center Plz	Santa Ana	80
Santa Ana Food Market Inc	1216 W 1st St	Santa Ana	30
Santa Ana High School	520 W Walnut St	Santa Ana	285
Santa Ana Housing Authority	20 Civic Center Plz # 200	Santa Ana	17

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Santa Ana Legal Svc	301 W Civic Center Dr	Santa Ana	60
Santa Ana Park Maintenance	888 W Santa Ana Blvd Ste 200	Santa Ana	50
Santa Ana Parks Recreation	26 Civic Center Plz	Santa Ana	300
Santa Ana Planning & Building	20 Civic Center Plz	Santa Ana	100
Santa Ana Police Chief	60 Civic Center Plz	Santa Ana	600
Santa Ana Police Records	60 Civic Center Plz	Santa Ana	25
Santa Ana Public Library	26 Civic Center Plz	Santa Ana	12
Santa Ana Treasury	20 Civic Center Plz	Santa Ana	45
Santa Ana Tustin Physcl Thrpy	1910 Old Tustin Ave	Santa Ana	12
Santa Ana Work Ctr	1000 E Santa Ana Blvd Ste 200	Santa Ana	30
Santa Clara Nursery School	1021 N Newhope St	Santa Ana	13
Santiago Elementary School	2212 N Baker St	Santa Ana	80
Santiago Food Mart & Auto Wash	617 E 17th St	Santa Ana	20
Sav More Thrift	2025 W 1st St	Santa Ana	23
Sayre & Levitt	333 W Civic Center Dr	Santa Ana	10
Sbarro	2800 N Main St Ste 940	Santa Ana	13
School Ten	1111 W Town and Country Rd Ste 2	Orange	12
Schools First Federal CU	2115 N Broadway	Santa Ana	735
SCS Flooring Systems	530 S Main St Ste 110	Orange	18
SDL Management Corp	2222 E 17th St	Santa Ana	17
Security Mortgage Funding Corp	854 W Town and Country Rd	Orange	26
Sedgwick Claims Management Svc	701 S Parker St	Orange	250
See's Candies	2800 N Main St	Santa Ana	25
Seventeenth Street Orthopedic	1450 E 17th St Ste 215	Santa Ana	30
Sierra Intermediate School	2021 N Grand Ave	Santa Ana	80
Silverstein & Huston Law Ofcs	701 S Parker St Ste 5500	Orange	10
Sizzler	16275 Harbor Blvd	Fountain Valley	28
Smi Millwork Inc	2116 W Chestnut Ave	Santa Ana	30
Smith & Smith	1605 E 4th St Ste 200	Santa Ana	16
Smith Campbell	1800 N Broadway Ste 200	Santa Ana	21
Social Services Administration	888 N Main St	Santa Ana	350
Soligen 2006	1356 N Santiago St	Santa Ana	35
Sombrero Street Inc	719 N Main St	Santa Ana	30
South Coast Car Co	808 N Harbor Blvd	Santa Ana	10
Southern Cal Iron Supply Inc	2401 Cape Cod Way	Santa Ana	15
Southland Plastering	917 E Pine St	Santa Ana	15
Spectrum Land Svc	725 W Town and Country Rd Ste 41	Orange	13
Sports Conditioning & Rehab	871 S Tustin St	Orange	12
Sprint	1800 N Bristol St Ste B	Santa Ana	15
SRC LLC	190 S Glassell St Ste 201	Orange	20
St Barbara School	5306 W McFadden Ave	Santa Ana	35
St Barbara's Catholic Church	730 S Euclid St	Santa Ana	10
St Francis Home	1718 W 6th St	Santa Ana	19
St John's Community Music	171 S Center St	Orange	17
St Joseph Health System	500 S Main St # 1000	Orange	150
St Joseph Hosp Human Resources	1100 W Stewart Dr	Orange	24
St Joseph's School	608 E Civic Center Dr	Santa Ana	19
St Joesph Heritage Med Group	845 W La Veta Ave Ste 108	Orange	14
Staples	2120 E 17th St	Santa Ana	15
Star Management	1400 E 4th St	Santa Ana	10
Starbucks	301 W 4th St	Santa Ana	14
Starbucks	691 S Main St Ste 100	Orange	25
Starbucks	44 Plaza Sq	Orange	20
State Courier Svc	1823 E 17th St Ste 108	Santa Ana	31

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Stater Bros Markets	2360 N Tustin Ave	Santa Ana	50
Steer Inn	801 S Tustin St	Orange	16
Sterling Imports	909 N Harbor Blvd	Santa Ana	19
Stockwell Harris Woolverton	701 S Parker St # 2200	Orange	32
Storybook Pre School	1032 N Ross St	Santa Ana	10
SUBWAY	220 N Broadway	Santa Ana	10
SUBWAY	122 E 17th St Ste 105	Santa Ana	14
Sunrise Multispecialist Med	867 S Tustin St	Orange	15
Sunset Photography Inc	827 S Main St	Santa Ana	15
Sunshine Dental Care	1109 W 17th St	Santa Ana	10
Super Center Concept Inc	2003 W 1st St	Santa Ana	49
Superior Warehouse Grocers	2009 W 1st St	Santa Ana	90
Surface Pros	2305 W 2nd St	Santa Ana	15
Suzuki Depot Svc Dept	909 N Grand Ave	Santa Ana	30
T L Machine	14272 Commerce Dr	Garden Grove	100
Taco Bell	468 S Main St	Orange	20
Taco Bell	1810 N Bristol St	Santa Ana	21
Taco Bell	2500 N Main St	Santa Ana	10
Taco Bell	1229 E 17th St	Santa Ana	21
Taco Bell	411 E 1st St	Santa Ana	19
Taco Bell	16252 S Harbor Blvd	Santa Ana	21
Taqueria De Anda	1029 E 4th St	Santa Ana	18
Taqueria Tapatia	202 S Bristol St	Santa Ana	10
Taquerias Guadalajara	1904 W 1st St	Santa Ana	20
Tardif Sheet Metal & Air Cond	412 N Santa Fe St	Santa Ana	15
Target	1330 E 17th St	Santa Ana	130
Taylor's Town Child Development	272 S Glassell St	Orange	10
Teen Challenge	418 S Main St	Santa Ana	20
Tel-A-Patient	2050 N Tustin Ave	Santa Ana	13
TELACU Construction Management	414 W 4th St Ste A	Santa Ana	10
Temp Machine	14329 Commerce Dr	Garden Grove	24
Templo Calvario	2501 W 5th St	Santa Ana	16
Things Remembered	2800 N Main St Ste 1020	Santa Ana	10
Thomas J Maupin Law Offices	2100 N Broadway Ste 210	Santa Ana	16
To & Mo Imports	117 N Standard Ave	Santa Ana	10
Tobin Steel Co Inc	817 E Santa Ana Blvd	Santa Ana	50
Tom's Truck Ctr Inc	909 N Grand Ave	Santa Ana	100
Toms Trucks	936 E 3rd St	Santa Ana	40
Tong Hoi Cu Si Phat Glao	1612 N Spurgeon St	Santa Ana	20
Top Finish Collision Ctr	626 W 17th St	Santa Ana	21
Town & Country Manor	555 E Memory Ln	Santa Ana	250
Trieu Chau	4401 W 1st St	Santa Ana	15
Trinity Intl University of Law	2200 N Grand Ave	Santa Ana	22
Tripoli Auto Sales	1415 N Harbor Blvd	Santa Ana	12
Tristar Capital	1234 E 17th St	Santa Ana	10
Tru Green Land Care	216 N Clara St	Santa Ana	145
Truck Lubrication Co Inc	143 S Pixley St	Orange	11
Truth & Advertising	454 N Broadway Ste 200	Santa Ana	10
TTS Transmission	914 S Harbor Blvd	Santa Ana	11
Union Bank	500 S Main St Ste 100	Orange	30
Unlimited Plastics Inc	801 N Broadway	Santa Ana	10
US Federal Probation Ofc	411 W 4th St Ste 4-170	Santa Ana	25
US Marshals Svc	751 W Santa Ana Blvd	Santa Ana	25
US Post Office	1620 W 1st St	Santa Ana	40

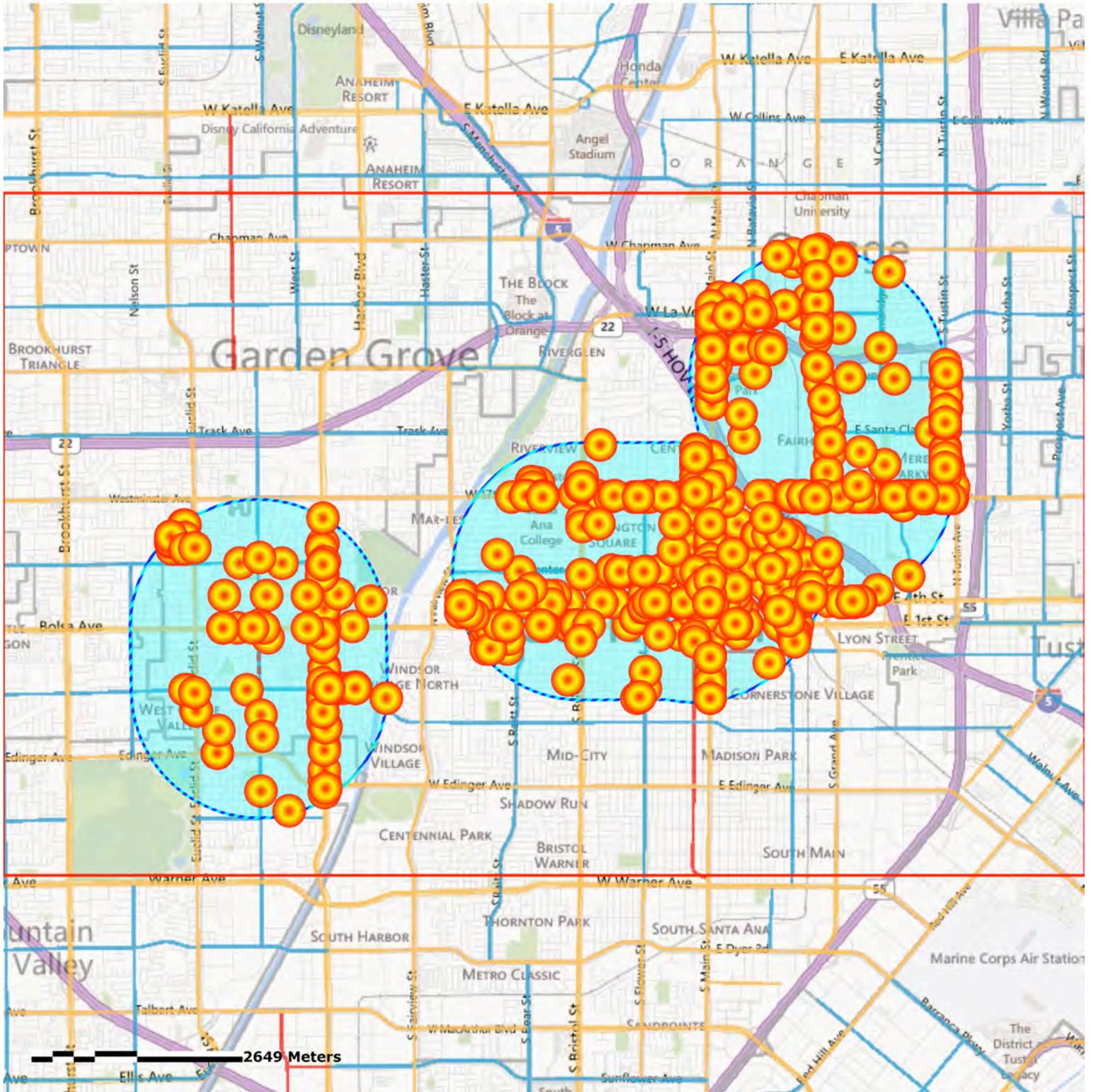
City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
US Secret Svc	200 W Santa Ana Blvd Ste 500	Santa Ana	10
US Service Corps-Retired Execs	200 W Santa Ana Blvd Ste 700	Santa Ana	70
USA Photocopy Svc	2670 N Main St Ste 200	Santa Ana	10
Vail Macrae & Edrington	2677 N Main St Ste 200	Santa Ana	20
Valley Couriers Inc	1111 W Town and Country Rd Ste 2	Orange	55
Vans	2800 N Main St Ste 720	Santa Ana	10
Vascular & Interventional Spec	1140 W La Veta Ave Ste 850	Orange	20
Verizon Wireless	3770 W McFadden Ave Ste H	Santa Ana	10
Verizon Wireless	691 S Main St Ste 80	Orange	17
Victoria's Secret	2800 N Main St Ste 162	Santa Ana	90
Vietnamese Community of Orange	1618 W 1st St	Santa Ana	10
Villa	910 French St	Santa Ana	10
Voss Built	815 N Harbor Blvd	Santa Ana	14
Walker Products Inc	14291 Commerce Dr	Garden Grove	30
Wall Words Inc	426 W 6th St	Santa Ana	10
Walmart	3600 W McFadden Ave	Santa Ana	200
Wellness Center A Program	1910 N Bush St	Santa Ana	15
Wells Fargo Bank	1801 E 17th St	Santa Ana	24
Wells Fargo Bank	2700 N Main St	Santa Ana	16
Wendy's	1737 E 17th St	Santa Ana	15
West Lake Food Corp	2430 Cape Cod Way	Santa Ana	20
Western Blasting & Metalizing	4521 W 1st St	Santa Ana	14
Western Dental Ctr	500 N Main St	Santa Ana	13
Western Dental Svc Inc	530 S Main St Ste 600	Orange	280
Western Youth Svc	1666 N Main St Ste 400	Santa Ana	40
Westin Financial Corp	1533 E 4th St	Santa Ana	10
Westminster Press	4906 W 1st St	Santa Ana	60
Westview Services	3922 W 5th St	Santa Ana	23
Wet Seal	2800 N Main St Ste 430	Santa Ana	16
Which Wich	1945 E 17th St Ste 106	Santa Ana	12
Willard Intermediate School	1342 N Ross St	Santa Ana	130
William Green Law Office	1321 N Bristol St	Santa Ana	15
Willis & Depasquale Llp	725 W Town and Country Rd Ste 55	Orange	30
Wilson Elementary School	1317 N Baker St	Santa Ana	80
Wells Fargo Bank	3764 W McFadden Ave	Santa Ana	18
Wells Fargo Bank	101 W 4th St	Santa Ana	18
Warner Reporting	1419 E 18th St	Santa Ana	15
Vina Distributors	10891 Capital Ave	Garden Grove	25
Villas At Tustin	2414 N Tustin Ave	Santa Ana	10
Wilson Pesota & Fox	200 W Santa Ana Blvd Ste 970	Santa Ana	10
Women's Healthcare Physicians	1140 W La Veta Ave Ste 560	Orange	20
Womens Law Ctr	950 W 17th St Ste C	Santa Ana	13
Wooden Floor	1810 N Main St	Santa Ana	20
Woodward's Ace Hardware	2343 N Tustin Ave	Santa Ana	25
Word & Brown Insurance	721 S Parker St Ste 300	Orange	301
Work Creation Program Inc	1980 Old Tustin Ave	Santa Ana	30
World Travel Bureau Inc	618 N Main St	Santa Ana	10
World View Travel	101 W 4th St Ste 400	Santa Ana	50
Wrecks West	1804 W 5th St	Santa Ana	16
WSS	1408 N Main St	Santa Ana	13
Xchanging	901 W Civic Center Dr Ste 230	Santa Ana	21
Yen Ching Restaurant	574 S Glassell St	Orange	24
Yesmua Corp	14331 Euclid St Ste 206	Garden Grove	10
Yoshinoya Beef Bowl Restaurant	1701 N Broadway Ste A	Santa Ana	15

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Businesses Within 1 Mile

Company	Mail Address	City	Employees
Zero Temp	2510 N Grand Ave Ste 112	Santa Ana	12
Zion Christian Ctr	710 S Cambridge St	Orange	10
Zumiez	2800 N Main St Ste 724	Santa Ana	12
Total			39,513

City of Santa Ana - Newhope-Civic Center-Grand Class II



Legend

- | | | | |
|-----------------------|--------------------------|-----------------------|----------------|
| Minor Arterial | Orange County | Los Angeles Cities | Ventura Cities |
| Freeway or Expressway | City Boundary | San Bernardino Cities | |
| Principal Arterial | County Boundary (Labels) | Riverside Cities | |
| Collector | County Boundary | San Diego Cities | |

**CULTURAL LOCATIONS WITHIN
1 MILE
ATTACHMENT I AND J**

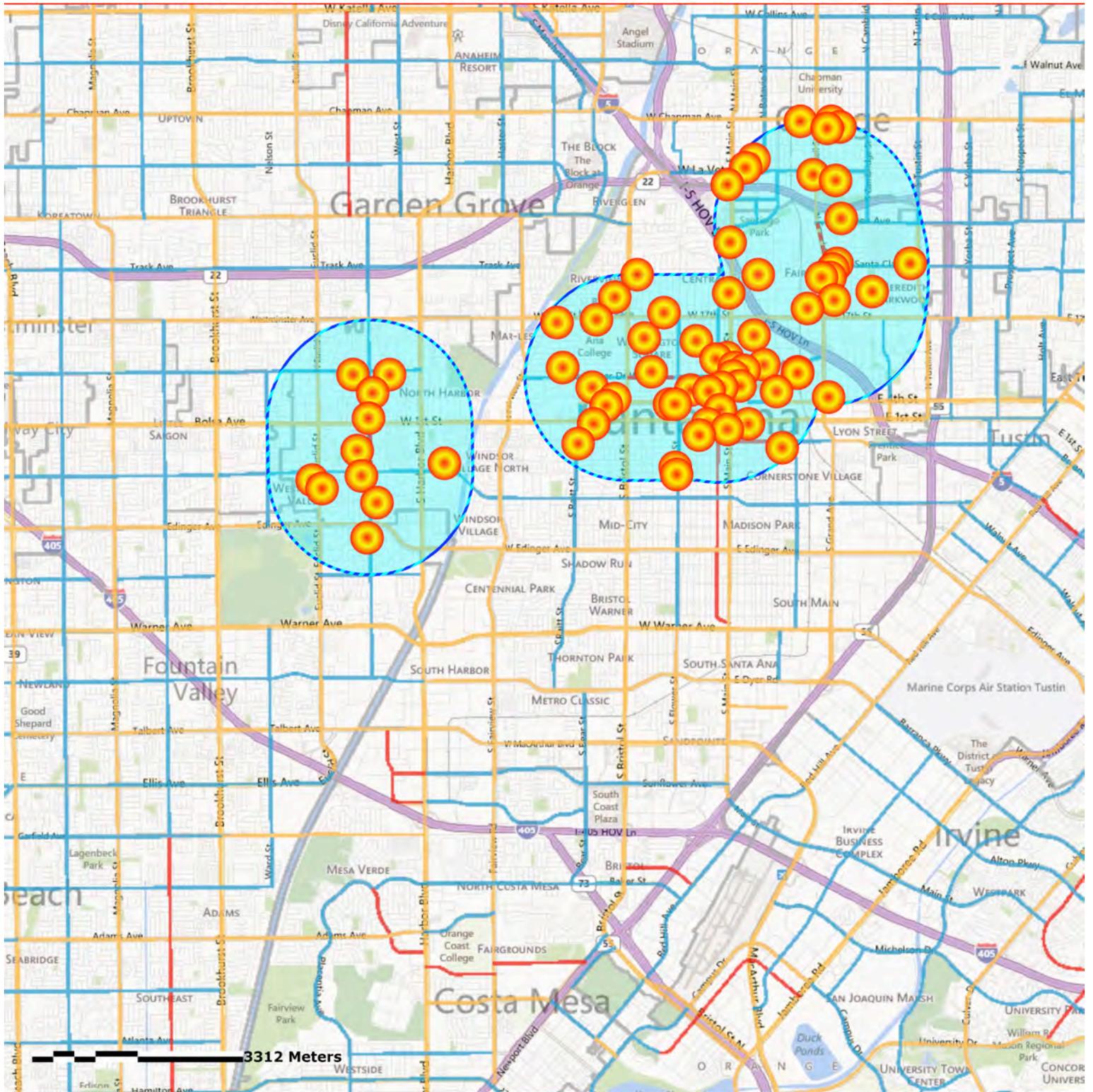
City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Cultural Locations Within 1 Mile

Cultural Location Name	Type	Street
SANTORA BUILDING OF THE ARTS	BUILDING	BROADWAY
ORANGE CITY HALL	CITY HALL	CHAPMAN
TRINITY INTERNATIONAL UNIVERSITY	COLLEGE/UNIVERSITY	GRAND
CENTRAL JUSTICE CENTER ANNEX	COURTHOUSE	MAIN
FS	FIRE STATION	*****
CALIFORNIA HIGHWAY PATROL-SANTA ANA	HIGHWAY PATROL	SANTA CLARA
SAINT JOSEPH HOSPITAL	HOSPITAL	STEWART
CHILDRENS HOSPITAL OF ORANGE COUNTY	HOSPITAL	MAIN
ORANGE COUNTY ARCHIVES	LIBRARY	SANTA ANA
ORANGE COUNTY LAW LIBRARY	LIBRARY	FLOWER
NEWHOPE BRANCH LIBRARY	LIBRARY	NEWHOPE
ORANGE COUNTY TRANSPORTATION AUTHORITY	MAJOR GOVERNMENT BUILDINGS	MAIN
STATE APPELLATE COURT	MAJOR GOVERNMENT BUILDINGS	SPURGEON
SHERIFFS FORENSIC SCIENCES	MAJOR GOVERNMENT BUILDINGS	SANTA ANA
ORANGE COUNTY PUBLIC WORKS	MAJOR GOVERNMENT BUILDINGS	FLOWER
DISCOVERY SCIENCE CENTER	MUSEUM	MAIN
BOWERS MUSEUM	MUSEUM	MAIN
ORANGE ARMY NATIONAL GUARD	NATIONAL GUARD	RIVER
OC PAVILION PERFORMING ARTS THEATRE, THE	PERFORMING ARTS/MUSIC THEATER	MAIN
PLAZA ORANGE POST OFFICE	POST OFFICE	CHAPMAN AVE
SANTA ANA POST OFFICE	POST OFFICE	GRAND
KING POST OFFICE	POST OFFICE	KING
SPURGEON POST OFFICE	POST OFFICE	BUSH
BRISTOL POST OFFICE	POST OFFICE	1ST
AMTRAK STATION-SANTA ANA	RAILROAD STATION	SANTA ANA
METROLINK SANTA ANA	RAILROAD STATION	SANTA ANA
OCTA TRANSIT TERMINAL	RAPID TRANSIT STATION	SANTA ANA BLVD & ROSS ST
SAINT JOHNS LUTHERAN SCHOOL	SCHOOL-PRIVATE ELEMENTARY	SHAFFER
HOLY FAMILY CATHEDRAL SCHOOL	SCHOOL-PRIVATE ELEMENTARY	GLASSELL
GRAND AVENUE CHRISTIAN SCHOOL	SCHOOL-PRIVATE ELEMENTARY	GRAND
SAINT JOSEPH ELEMENTARY SCHOOL	SCHOOL-PRIVATE ELEMENTARY	CIVIC CENTER
OUR LADY OF THE PILLAR SCHOOL	SCHOOL-PRIVATE ELEMENTARY	WESTERN
SAINT BARBARA ELEMENTARY SCHOOL	SCHOOL-PRIVATE ELEMENTARY	MCFADDEN
BETHEL BAPTIST CHURCH SCHOOL	SCHOOL-PRIVATE ELEMENTARY	EUCLID
FAIRHAVEN ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	FAIRHAVEN
HOOVER ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	SANTA CLARA
SANTIAGO ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	BAKER
MUIR FUNDAMENTAL SCHOOL	SCHOOL-PUBLIC ELEMENTARY	MABURY
DAVIS ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	FRENCH
WILSON ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	BAKER
EL SOL ACADEMY	SCHOOL-PUBLIC ELEMENTARY	BROADWAY
FREMONT ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	10TH
HEROES ELEMENTARY	SCHOOL-PUBLIC ELEMENTARY	CIVIC CENTER
HAZARD ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	HAZARD
ROSITA ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	HAZARD
GARFIELD ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	BROWN
REMINGTON ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	4TH
CARVER ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	SANTA ANA
ROMERO-CRUZ ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	SANTA ANA
GRANT ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	WALNUT
HENINGER ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	WALNUT
ROOSEVELT ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	HALLADAY
HERITAGE ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	ANDRES
LOWELL ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	FLOWER
RUSSELL ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	JACKSON
PIO PICO ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	HIGHLAND
NEW HOPE ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	REGENT

City of Santa Ana
 Newhope-Civic Center-Grand Class II Bike Lanes Project
 Cultural Locations Within 1 Mile

Cultural Location Name	Type	Street
MONROE ELEMENTARY SCHOOL	SCHOOL-PUBLIC ELEMENTARY	NEWHOPE
ALBOR CHARTER HIGH SCHOOL	SCHOOL-PUBLIC HIGH	17TH
MIDDLE COLLEGE HIGH SCHOOL	SCHOOL-PUBLIC HIGH	17TH
ORANGE COUNTY HIGH SCHOOL OF THE ARTS	SCHOOL-PUBLIC HIGH	MAIN
SANTA ANA HIGH SCHOOL	SCHOOL-PUBLIC HIGH	WALNUT
SIERRA INTERMEDIATE SCHOOL	SCHOOL-PUBLIC INTERMEDIATE	GRAND
MENDEZ FUNDAMENTAL INTERMEDIATE SCHOOL	SCHOOL-PUBLIC INTERMEDIATE	BRISTOL
WILLARD INTERMEDIATE SCHOOL	SCHOOL-PUBLIC INTERMEDIATE	ROSS
FITZ INTERMEDIATE SCHOOL	SCHOOL-PUBLIC INTERMEDIATE	MCFADDEN

City of Santa Ana - Newhope-Civic Center-Grand Class II



Legend

- | | | | |
|-----------------------|--------------------------|-----------------------|----------------|
| Minor Arterial | Orange County | Los Angeles Cities | Ventura Cities |
| Freeway or Expressway | City Boundary | San Bernardino Cities | |
| Principal Arterial | County Boundary (Labels) | Riverside Cities | |
| Collector | County Boundary | San Diego Cities | |

**BICYCLE AND PEDESTRIAN
ACCIDENT DATA
ATTACHMENT K, L, M, AND N**

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Bicycle Accidents from 2007 to 2011

Case ID	Longitude	Latitude	Number Killed	Number Injured	Primary Road	Secondary Road	Date
3020004	-117.867882	33.721886	0	1	MAIN ST	SAINT ANDREW	1/17/2007
3020020	-117.885402	33.712585	0	1	BRISTOL ST	CENTRAL AV	1/18/2007
3020040	-117.882812	33.740009	0	1	BAKER	BISHOP	1/20/2007
3031472	-117.856402	33.733578	0	1	STANDARD AV	MCFADDEN AV	1/31/2007
3031515	-117.892282	33.707325	0	1	BEAR ST	SEGERSTROM AV	1/19/2007
3031516	-117.86789	33.759979	0	1	17TH ST	MAIN	1/24/2007
3048392	-117.866412	33.757816	0	1	15TH ST	ALY E BUSH	2/5/2007
3061284	-117.867795	33.729576	0	1	MAIN ST	HOBART ST	2/13/2007
3061289	-117.850247	33.738289	0	1	GRAND AV	HUNTER AV	2/12/2007
3068021	-117.921384	33.738262	0	1	MCFADDEN AV	DENNIS ST	2/7/2007
3086427	-117.918009	33.748676	0	1	BEWLEY ST	5TH ST	3/16/2007
3086452	-117.835882	33.733871	0	1	TUSTIN VILLAGE WY	MCFADDEN AV	3/13/2007
3092389	-117.850292	33.742565	0	2	GRAND	CHESTNUT	3/8/2007
3100154	-117.873602	33.755764	0	1	WASHINGTON AV	VAN NESS AV	3/19/2007
3107670	-117.850262	33.735455	0	1	NORMANDY PL	GRAND AV	3/23/2007
3114264	-117.885156	33.744492	0	1	WALNUT ST	BRISTOL ST	4/2/2007
3114320	-117.907451	33.718025	0	1	ANAHURST PL	FAIRVIEW ST	4/1/2007
3116905	-117.901532	33.723186	0	1	GREENVILLE	SAINT ANDREW PL	3/8/2007
3139488	-117.865052	33.745403	0	1	1ST ST	ORANGE AV	4/12/2007
3139508	-117.902582	33.740025	0	1	WILLITS ST	SULLIVAN ST	4/14/2007
3139557	-117.843822	33.745522	0	1	ELK LN	1ST ST	4/9/2007
3152610	-117.885002	33.760124	0	1	BRISTOL ST	17TH ST	4/11/2007
3152614	-117.907912	33.715225	0	1	FAIRVIEW AV	WARNER	4/13/2007
3168164	-117.869782	33.742485	0	1	BROADWAY	CHESTNUT AV	4/13/2007
3168228	-117.865182	33.759964	0	1	17TH ST	SPURGEON ST	4/17/2007
3170893	-117.844492	33.773273	0	1	CAMBRIDGE ST	FAIRHAVEN AV	4/23/2007
3176180	-117.920092	33.734646	0	1	HARBOR BL	KENT AV	5/3/2007
3176204	-117.874712	33.753906	0	1	PARTON ST	10TH ST	5/6/2007
3176359	-117.879832	33.749683	0	1	6TH ST	BOYD WY	4/25/2007
3177045	-117.878362	33.753674	0	1	LOWELL ST	10TH ST	4/25/2007
3178096	-117.937482	33.745045	0	1	EUCLID ST	1ST ST	5/8/2007
3178108	-117.86248	33.7299	0	1	HOBART ST	OAK ST	5/7/2007
3190140	-117.844932	33.742313	0	1	LYON ST	CHESTNUT AV	5/15/2007
3191057	-117.856422	33.739525	0	1	BISHOP ST	STANDARD AV	5/10/2007
3203677	-117.93775	33.738152	0	1	MCFADDEN	EUCLID	5/25/2007
3208881	-117.928671	33.730934	0	1	EDINGER AV	NEWHOPE ST	5/28/2007
3219560	-117.850312	33.74638	0	1	MCCLAY ST	2ND ST	6/1/2007
3231625	-117.902887	33.758991	0	1	FAIRVIEW AV	17TH ST	6/10/2007
3244643	-117.84523	33.726711	0	1	LYON ST	EDINGER AV	6/16/2007
3244647	-117.876583	33.724705	0	1	FLOWER ST	BERKELEY ST	6/16/2007
3247996	-117.841302	33.733746	0	1	RITCHEY ST	MCFADDEN AV	5/30/2007
3268813	-117.885002	33.760124	0	1	BRISTOL ST	17TH ST	6/20/2007
3270980	-117.872532	33.751484	0	1	CIVIC CENTER CIR	ROSS ST	6/25/2007
3278176	-117.867332	33.776608	0	1	MAIN ST	TOWN AND COUNTRY RD	6/27/2007
3280099	-117.885402	33.712585	0	1	BRISTOL ST	CENTRAL AV	7/1/2007
3282449	-117.885402	33.712585	0	1	CENTRAL ST	BRISTOL ST	7/11/2007
3282457	-117.834292	33.755184	0	1	WELLINGTON AV	TUSTIN AV	7/12/2007
3282473	-117.8961	33.71553	0	1	RAITT ST	WARNER	7/6/2007
3282716	-117.874672	33.716084	0	1	GARNSEY ST	WARNER AV	7/10/2007
3288847	-117.880714	33.745525	0	1	1ST ST	SHELTON ST	7/10/2007
3293783	-117.867361	33.772781	0	1	MAIN ST	MAINPLACE DR	7/24/2007
3293791	-117.865242	33.727158	0	1	ORANGE AV	EDINGER AV	7/24/2007
3293830	-117.885116	33.750362	0	1	BRISTOL ST	7TH ST	7/23/2007
3299077	-117.883642	33.746246	0	1	2ND ST	BAKER ST	7/14/2007
3299081	-117.920221	33.746082	0	1	HARBOR BL	1ST ST	7/23/2007
3302541	-117.833736	33.748142	0	1	4TH ST	TUSTIN AV	7/24/2007
3302549	-117.867802	33.728947	0	1	MAIN	BORCHARD	7/29/2007
3302604	-117.906272	33.727325	0	3	EDINGER AV	FAIRVIEW ST	8/4/2007
3303470	-117.919828	33.708626	0	1	SEGERSTROM	HARBOR	7/17/2007

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Bicycle Accidents from 2007 to 2011

Case ID	Longitude	Latitude	Number Killed	Number Injured	Primary Road	Secondary Road	Date
3303477	-117.867792	33.729843	0	1	MAIN ST	HOBART	7/15/2007
3303493	-117.875722	33.723969	0	1	WOODLAND PL	OCCIDENTAL ST	7/22/2007
3306089	-117.862972	33.729897	0	1	HOBART ST	OAK ST	8/5/2007
3306890	-117.855233	33.733593	0	1	MCFADDEN AV	MINNIE ST	7/18/2007
3306922	-117.939042	33.752377	0	1	HURLEY ST	HAZARD AV	7/15/2007
3306930	-117.861252	33.726963	0	1	EDINGER AV	KILSON DR	7/29/2007
3313721	-117.899556	33.768646	0	1	MONICA LN	LAIRD ST	8/4/2007
3313733	-117.915703	33.745193	0	1	1ST ST	JACKSON ST	8/5/2007
3324564	-117.841302	33.732315	0	1	RITCHEY ST	WILSHIRE AV	8/8/2007
3324639	-117.885461	33.707825	0	1	BRISTOL	SEGERSTROM	8/11/2007
3324756	-117.87961	33.716156	0	1	WARNER AV	TOWNER ST	7/19/2007
3330736	-117.920186	33.745155	0	1	1ST ST	HARBOR BL	8/17/2007
3330784	-117.882812	33.745403	0	1	BAKER ST	1ST ST	8/21/2007
3349236	-117.851842	33.747196	0	1	GRAND AV	3RD ST	8/22/2007
3349264	-117.868743	33.743332	0	1	SYCAMORE ST	PINE ST	8/20/2007
3351175	-117.895864	33.727207	0	1	EDINGER AV	TOWNSEND ST	8/15/2007
3362190	-117.919802	33.708626	0	1	SEGERSTROM AV	HARBOR BL	8/11/2007
3362772	-117.901154	33.718754	0	1	SAINT GERTRUDE PL	SAINT ANNE PL	9/7/2007
3376000	-117.866412	33.757816	0	1	BUSH ST	15TH ST	9/12/2007
3376017	-117.917725	33.759865	0	1	WESTMINSTER AV	NAUTILUS DR	9/13/2007
3383406	-117.868205	33.700176	0	1	MAIN ST	MACARTHUR BL	9/18/2007
3390532	-117.865264	33.722221	0	1	ORANGE	SAINT ANDREW	9/21/2007
3390579	-117.920133	33.737064	0	1	HARBOR BL	MCFADDEN AV	9/26/2007
3390584	-117.869762	33.746803	0	1	BROADWAY	3RD ST	9/20/2007
3390702	-117.881022	33.747066	0	1	W 3RD ST	SHELTON ST	9/23/2007
3393302	-117.914952	33.759785	0	1	WESTMINSTER AV	SUSAN ST	9/10/2007
3397003	-117.901583	33.759815	0	1	17TH ST	FAIRVIEW	10/5/2007
3397007	-117.883922	33.755737	0	1	LOUISE ST	WASHINGTON AV	10/5/2007
3397030	-117.876546	33.748035	0	1	SANTA ANA BL	FLOWER ST	10/12/2007
3397031	-117.835772	33.767143	0	1	TUSTIN AV	SANTA CLARA AV	10/1/2007
3397572	-117.867562	33.759975	0	1	MAIN ST	17TH ST	10/2/2007
3400465	-117.876902	33.705456	0	1	FLOWER	ALTON	9/20/2007
3408205	-117.920559	33.738274	0	1	MCFADDEN AV	HARBOR BL	10/9/2007
3411100	-117.885312	33.719223	0	1	BRISTOL ST	SAINT GERTRUDE PL	10/13/2007
3415472	-117.850482	33.726704	0	1	EDINGER AV	GRAND AV	10/17/2007
3415485	-117.860308	33.751427	0	1	GARFIELD ST	SANTA ANA BL	10/14/2007
3415490	-117.881802	33.716175	0	1	SHELTON ST	WARNER AV	10/9/2007
3415497	-117.885748	33.752644	0	1	9TH ST	BRISTOL ST	10/17/2007
3442910	-117.907882	33.708786	0	1	FAIRVIEW AV	SEGERSTROM	10/25/2007
3442918	-117.906548	33.73151	0	1	DAHL LN	FAIRVIEW ST	10/25/2007
3442922	-117.883022	33.727325	0	1	EDINGER	BAKER	10/7/2007
3449086	-117.920092	33.734646	0	1	HARBOR BL	KENT AV	11/2/2007
3449094	-117.911652	33.727436	0	1	MOHAWK DR	EDINGER AV	11/2/2007
3449110	-117.857208	33.742489	0	1	CHESTNUT	STANDARD	11/4/2007
3462287	-117.885182	33.744495	0	1	BRISTOL ST	WALNUT ST	10/18/2007
3472566	-117.893162	33.750584	0	1	RAITT ST	7TH ST	11/15/2007
3472570	-117.928823	33.745514	0	1	S NEWHOPE ST	1ST ST	11/13/2007
3472633	-117.870702	33.751583	0	1	CIVIC CENTER DR	BIRCH ST	11/15/2007
3486344	-117.928982	33.752514	0	1	NEWHOPE ST	HAZARD AV	11/12/2007
3486372	-117.919822	33.713856	0	1	HARBOR BL	WARNER AV	11/13/2007
3490289	-117.881908	33.745525	0	1	1ST ST	SHELTON	11/20/2007
3495887	-117.866414	33.745525	0	1	1ST ST	BUSH ST	11/25/2007
3495911	-117.879302	33.755806	0	1	WASHINGTON AV	FREEMAN ST	11/7/2007
3516402	-117.864602	33.75782	0	1	15TH ST	SPURGEON	9/17/2007
3553636	-117.928944	33.750469	0	1	NEWHOPE ST	ROOSEVELT AV	12/26/2007
3553856	-117.866344	33.739456	0	1	BISHOP ST	CYPRESS AV	12/18/2007
3553868	-117.859612	33.744484	0	1	HALLADAY ST	WALNUT ST	12/17/2007
3553876	-117.872532	33.760094	0	1	17TH ST	ROSS ST	12/17/2007
3565150	-117.907872	33.695774	0	1	SUNFLOWER AV	FAIRVIEW RD	1/1/2008

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Bicycle Accidents from 2007 to 2011

Case ID	Longitude	Latitude	Number Killed	Number Injured	Primary Road	Secondary Road	Date
3567352	-117.902881	33.762131	0	1	FAIRVIEW AV	ST ANDREWS PL	1/11/2008
3567379	-117.885142	33.740025	0	1	BRISTOL ST	WILLITS ST	1/8/2008
3588307	-117.867632	33.750553	0	1	MAIN ST	CIVIC CENTER DR	1/28/2008
3591614	-117.863362	33.745426	0	1	1ST ST	MAPLE ST	1/21/2008
3620660	-117.867636	33.747948	0	2	MAIN ST	4TH ST	2/5/2008
3624298	-117.864828	33.749714	0	1	SANTA ANA BL	FRENCH ST	1/17/2008
3634087	-117.869892	33.727226	0	1	BROADWAY	EDINGER AV	2/13/2008
3634189	-117.850302	33.745445	0	1	1ST ST	MCCLAY ST	2/13/2008
3642229	-117.906252	33.727379	0	1	FAIRVIEW ST	EDINGER AV	2/16/2008
3665062	-117.905355	33.745213	0	1	FAIRVIEW ST	1ST ST	2/29/2008
3665507	-117.869562	33.766842	0	1	BROADWAY	SANTA CLARA AV	3/7/2008
3673409	-117.896002	33.745346	1	0	1ST ST	TOWNSEND ST	2/25/2008
3681363	-117.867742	33.73629	0	1	MAIN ST	CUBBON ST	3/18/2008
3681426	-117.893342	33.734455	0	1	MCFADDEN AV	DOUGLAS	3/18/2008
3683111	-117.876473	33.759972	0	1	FLOWER ST	17TH ST	4/3/2008
3701960	-117.890323	33.748791	0	1	5TH ST	FOREST AV	4/2/2008
3701972	-117.875522	33.755775	0	1	WASHINGTON AV	GARNSEY ST	4/4/2008
3701988	-117.885402	33.712585	0	1	BRISTOL ST	CENTRAL AV	4/2/2008
3704256	-117.865242	33.757835	0	1	SPURGEON	15TH ST	1/28/2008
3708462	-117.919822	33.713787	0	1	HARBOR BL	WARNER AV	4/16/2008
3708470	-117.865573	33.749706	0	1	SPURGEON	SANTA ANA BL	4/9/2008
3708474	-117.884842	33.773632	0	1	NORTH BRISTOL ST	MEMORY LN	4/20/2008
3711627	-117.890668	33.759956	0	1	17TH ST	COLLEGE AV	4/25/2008
3711962	-117.896406	33.745346	0	1	1ST ST	TOWNSEND ST	4/18/2008
3713600	-117.909261	33.734673	0	1	W MCFADDEN	MOHAWK	4/17/2008
3713612	-117.851525	33.766735	0	1	N GRAND	SANTA CLARA	4/15/2008
3730339	-117.9174	33.745167	0	1	GUNTHER ST	1ST ST	4/30/2008
3750020	-117.920348	33.757938	0	1	HARBOR BL	WASHINGTON AV	4/16/2008
3754043	-117.876522	33.757896	0	1	FLOWER AV	15TH	5/16/2008
3754047	-117.876442	33.739426	0	1	FLOWER AV	BISHOP	5/15/2008
3758752	-117.866432	33.745396	0	1	1ST ST	CYPRESS AV	5/24/2008
3760391	-117.876552	33.748035	0	1	SANTA ANA BL	FLOWER	5/2/2008
3763384	-117.867902	33.717873	0	1	MAIN ST	ANAHURST PL	5/6/2008
3763432	-117.867852	33.725121	0	1	S MAIN	POMONA	5/20/2008
3763558	-117.919712	33.702026	0	1	HARBOR BL	MACARTHUR BL	5/17/2008
3768220	-117.876051	33.740753	0	1	CAMILE PL	FLOWER	6/4/2008
3777689	-117.851528	33.745422	0	1	1ST ST	GRAND AV	5/30/2008
3781642	-117.881802	33.716175	0	1	WARNER AV	SHELTON ST	5/22/2008
3781670	-117.879102	33.712513	0	1	LOWELL ST	CENTRAL AV	5/27/2008
3793268	-117.842732	33.767143	0	1	SANTA CLARA AV	MANTLE LN	6/20/2008
3799907	-117.885562	33.694324	0	1	BRISTOL ST	BRISTOL PL	6/28/2008
3811445	-117.915822	33.748875	0	1	5TH ST	JACKSON ST	6/20/2008
3811457	-117.867817	33.727005	0	1	MAIN ST	EDINGER AV	5/18/2008
3818311	-117.887312	33.723186	1	0	SAINT ANDREWS PL	POPLAR ST	6/30/2008
3835204	-117.852151	33.726749	0	1	EDINGER AV	GRAND AV	6/17/2008
3838176	-117.876958	33.699562	0	1	FLOWER AV	MACARTHUR	6/26/2008
3838219	-117.928722	33.738205	0	1	NEWHOPE	MCFADDEN	6/22/2008
3842848	-117.859971	33.751575	0	1	SANTA ANA BL	GARFIELD	8/26/2008
3847792	-117.894032	33.734455	0	1	RAITT ST	MCFADDEN AV	7/3/2008
3856483	-117.916652	33.713894	0	1	W WARNER	YALE	7/2/2008
3862738	-117.87099	33.742027	0	1	BIRCH ST	CHESTNUT AV	7/9/2008
3863037	-117.881249	33.745525	0	1	1ST ST	SHELTON ST	7/5/2008
3864543	-117.877128	33.759995	0	1	17TH ST	FLOWER ST	7/30/2008
3872845	-117.884842	33.773769	0	1	BRISTOL	MEMORY	8/5/2008
3874402	-117.872302	33.760086	0	1	17TH ST	ROSS ST	9/17/2008
3874469	-117.865241	33.757915	0	1	N SPURGEON	15TH ST	9/18/2008
3874477	-117.835769	33.765526	0	1	TUSTIN AV	SANTA CLARA AV	9/19/2008
3874851	-117.867662	33.744404	0	1	WALNUT ST	MAIN ST	8/5/2008
3879134	-117.879539	33.699974	0	1	MACARTHUR BL	TOWNER	7/22/2008

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Case ID	Longitude	Latitude	Number Killed	Number Injured	Primary Road	Secondary Road	Date
3885557	-117.851522	33.767204	0	1	SANTA CLARA AV	GRAND AV	7/19/2008
3886345	-117.856242	33.759914	0	1	LINCOLN	17TH ST	8/3/2008
3886358	-117.886243	33.699944	0	1	MAC ARTHUR BL	BRISTOL ST	8/13/2008
3892921	-117.908622	33.720226	0	1	HARVARD ST	FAIRVIEW ST	8/14/2008
3895385	-117.867632	33.750553	0	1	CIVIC CENTER DR	MAIN ST	7/16/2008
3898846	-117.856433	33.735836	0	1	STANDARD AV	BEVERLY PL	7/13/2008
3901582	-117.856952	33.744526	0	1	WALNUT ST	STANDARD AV	7/1/2008
3908677	-117.85181	33.768986	0	1	GRAND AV	BEECHWOOD ST	8/23/2008
3918113	-117.858048	33.752403	0	1	SANTA ANA BL	SANTIAGO	8/10/2008
3921068	-117.867632	33.751415	0	1	MAIN ST	8TH ST	8/23/2008
3925810	-117.875847	33.748043	0	1	SANTA ANA BL	FLOWER ST	8/22/2008
3926155	-117.920248	33.747349	1	0	HARBOR BL	1ST ST	7/25/2008
3933773	-117.843822	33.745533	0	1	1ST ST	ELK ST	9/22/2008
3934672	-117.907922	33.714813	0	1	FAIRVIEW AV	WARNER AV	9/10/2008
3934700	-117.869727	33.759731	0	1	BROADWAY	17TH ST	9/23/2008
3935986	-117.928632	33.730934	0	1	EDINGER AV	NEWHOPE ST	9/24/2008
3935990	-117.904143	33.70882	0	1	SEGERSTROM AV	GREENVILLE ST	9/24/2008
3938964	-117.894032	33.734455	0	1	MCFADDEN	RAITT	9/20/2008
3944785	-117.859612	33.745457	0	1	1ST ST	HALLADAY	8/11/2008
3958242	-117.834172	33.749966	0	1	TUSTIN AV	6TH ST	12/2/2008
3967946	-117.885222	33.730816	0	1	BRISTOL	WILSHIRE	10/11/2008
3967950	-117.864582	33.747105	0	1	3RD ST	FRENCH ST	10/15/2008
3968007	-117.868672	33.759991	0	1	SYCAMORE ST	17TH ST	10/8/2008
3968644	-117.906301	33.734512	0	1	MC FADDEN	FAIRVIEW	10/22/2008
3968688	-117.884864	33.766804	0	1	BRISTOL ST	SANTA CLARA AV	10/20/2008
3968712	-117.865322	33.715996	0	1	E WARNER AV	S ORANGE AV	10/24/2008
3973207	-117.880332	33.727024	0	1	EDINGER AV	PARK DR	10/16/2008
3977022	-117.867662	33.745396	0	1	MAIN ST	1ST ST	10/30/2008
3980281	-117.905742	33.759815	0	1	WESTMINSTER AV	SYDNEY	10/12/2008
3987305	-117.885112	33.699932	0	1	MACARTHUR BL	BRISTOL ST	11/8/2008
3987309	-117.865332	33.719715	0	1	SAINT GERTRUDE PL	ORANGE AV	11/10/2008
3993565	-117.871212	33.716053	0	1	W WARNER AV	S BIRCH	11/20/2008
3994926	-117.874662	33.759975	0	1	17TH ST	PARTON ST	11/21/2008
4007472	-117.894222	33.723965	0	1	RAITT ST	OCCIDENTAL	11/11/2008
4010354	-117.902602	33.745285	0	2	1ST ST	SULLIVAN	10/27/2008
4011464	-117.850412	33.733646	0	1	GRAND AV	MCFADDEN AV	11/25/2008
4011472	-117.907592	33.72361	0	1	FAIRVIEW	CENTENNIAL RD	11/26/2008
4016736	-117.864063	33.727145	0	1	EDINGER AV	MAPLE ST	1/7/2009
4027315	-117.869682	33.751156	0	1	BROADWAY ST	CIVIC CENTER DR	12/9/2008
4028588	-117.885342	33.716206	0	1	WARNER AV	BRISTOL ST	11/12/2008
4028592	-117.858151	33.726795	0	1	EDINGER AV	CEDAR ST	11/14/2008
4028596	-117.861332	33.729927	0	1	KILSON DR	HOBART ST	11/6/2008
4028635	-117.888473	33.748039	0	1	PACIFIC AV	SANTA ANA BL	11/7/2008
4043313	-117.86517	33.73169	0	1	ORANGE AV	OXFORD ST	2/14/2009
4052050	-117.892171	33.694824	0	1	BEAR ST	SUNFLOWER AV	12/24/2008
4052062	-117.900336	33.72723	0	1	EDINGER AV	GREENVILLE ST	12/22/2008
4065339	-117.863492	33.734459	0	1	MAPLE ST	HARWOOD ST	12/31/2008
4065343	-117.869743	33.744846	0	1	BROADWAY	1ST ST	12/30/2008
4069586	-117.907832	33.703651	0	1	FAIRVIEW ST	ALTON	11/17/2008
4076042	-117.867632	33.751381	0	1	MAIN ST	8TH ST	11/30/2008
4076050	-117.861252	33.726963	0	1	EDINGER AV	KILSON DR	11/28/2008
4077554	-117.898955	33.739883	0	1	WILLITS ST	DIAMOND ST	12/1/2008
4092397	-121.948936	37.354964	0	1	CIVIC CENTER DR	MAIN ST	1/10/2009
4092416	-117.843911	33.745556	0	1	1ST ST	MABURY ST	1/16/2009
4092428	-117.89474	33.72165	0	1	RAITT ST	GLENWOOD PL	1/8/2009
4092566	-117.86871	33.74439	0	1	SYCAMORE ST	WALNUT ST	1/6/2009
4099163	-117.882962	33.734449	0	1	BAKER ST	MCFADDEN AV	1/12/2009
4099183	-117.920052	33.744662	0	1	HARBOR BL	1ST ST	1/13/2009
4122215	-117.910603	33.637986	0	1	FLOWER AV	SANTA ANA BL	3/1/2009

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4126601	-117.89981	33.70739	0	1	TOWNSEND ST	SEGERSTROM AV	1/27/2009
4134162	-117.872582	33.761833	0	1	ROSS ST	19TH ST	1/27/2009
4134424	-117.90573	33.75981	0	1	17TH ST	SYDNEY ST	2/4/2009
4139534	-117.85192	33.759716	0	1	GRAND AV	17TH ST	2/11/2009
4140821	-117.859448	33.745455	0	1	1ST ST	HALLADAY ST	2/14/2009
4145030	-117.876472	33.759995	0	1	17TH ST	FLOWER ST	10/21/2008
4161768	-116.866576	33.043132	0	1	MAIN ST	9TH ST	3/10/2009
4162863	-117.86525	33.72549	0	1	ORANGE AV	POMONA ST	3/5/2009
4162901	-117.867722	33.737514	0	1	MAIN ST	HIGHLAND ST	3/3/2009
4162933	-117.90259	33.75238	0	1	FAIRVIEW AV	9TH ST	3/6/2009
4181062	-117.87926	33.75999	0	1	17TH ST	FREEMAN ST	3/26/2009
4183083	-117.864205	33.758895	0	1	16TH ST	FRENCH	3/31/2009
4192198	-117.919948	33.737677	0	1	HARBOR BL	MCFADDEN AV	4/7/2009
4197646	-117.86352	33.75444	0	1	WELLINGTON AV	LACY ST	3/21/2009
4200011	-117.884813	33.712579	0	1	CENTRAL AV	SOUTH BRISTOL ST	3/27/2009
4200015	-118.481739	34.025401	0	1	17TH ST	BROADWAY ST	3/29/2009
4200083	-117.90254	33.72882	0	1	BORCHARD AV	SULLIVAN ST	4/14/2009
4203989	-117.863598	33.752939	0	1	VANCE PL	MINTER ST	4/14/2009
4203993	-117.83429	33.752785	0	1	FRUIT ST	TUSTIN ST	4/5/2009
4207992	-121.9546	36.98605	0	1	MAIN ST	WALNUT ST	4/15/2009
4254675	-117.876466	33.736841	0	1	FLOWER AV	HIGHLAND	5/11/2009
4255484	-117.9041	33.69997	0	1	MAC ARTHUR BL	GREENVILLE ST	5/13/2009
4262666	-117.860554	33.739149	0	1	HICKORY ST	BISHOP ST	5/13/2009
4262686	-117.859718	33.70867	0	1	DYER RD	HALLADAY ST	5/12/2009
4262713	-117.885566	33.693218	0	1	BRISTOL ST	SUNFLOWER AV	5/8/2009
4266485	-117.895903	33.755765	0	1	WASHINGTON AV	TOWNSEND ST	5/23/2009
4266805	-117.904327	33.74871	0	1	5TH ST	FAIRVIEW ST	5/15/2009
4266957	-117.8596	33.74545	0	1	1ST ST	HALLADAY ST	6/8/2009
4273001	-117.838935	33.767145	0	1	SANTA CLARA AV	TUSTIN AV	5/29/2009
4280126	-117.884792	33.772952	0	1	BRISTOL ST	MEMORY LN	5/4/2009
4292892	-117.897452	33.704295	0	1	MOORE AV	RAITT	5/23/2009
4292909	-117.9157	33.73902	0	1	JACKSON ST	JAMES ST	6/6/2009
4297846	-117.85769	33.71596	0	1	WARNER AV	EVERGREEN ST	5/29/2009
4297928	-117.90259	33.75238	0	1	FAIRVIEW AV	9TH	6/3/2009
4297936	-117.8694	33.77281	0	1	MAINPLACE DR	BROADWAY ST	6/1/2009
4298009	-117.920262	33.748909	0	1	HARBOR BL	5TH ST	6/1/2009
4298688	-117.919516	33.740835	0	1	CAMILLE ST	HARBOR BL	6/11/2009
4302440	-117.865205	33.733474	1	0	MCFADDEN AV	ORANGE AV	5/3/2009
4302774	-117.87243	33.74552	0	1	ROSS ST	1ST ST	6/10/2009
4305687	-117.88179	33.73444	0	1	MCFADDEN AV	ROSEWOOD	6/16/2009
4305730	-117.92899	33.75972	0	1	NEWHOPE ST	17TH ST	6/18/2009
4307880	-117.88536	33.716555	0	1	BRISTOL ST	WARNER AV	7/3/2009
4316302	-122.02351	36.96642	0	1	MAIN ST	3RD ST	6/5/2009
4339379	-117.88499	33.76012	0	1	BRISTOL ST	17TH ST	7/9/2009
4339394	-117.851951	33.759947	0	1	17TH ST	GRAND AV	7/13/2009
4339434	-117.88508	33.75154	0	1	BRISTOL ST	CIVIC CENTER DR	7/13/2009
4346872	-117.86983	33.7358	0	1	CUBBON ST	BROADWAY ST	7/15/2009
4347095	-117.857816	33.723771	0	1	OCCIDENTAL ST	EVERGREEN ST	7/7/2009
4347145	-117.841458	33.726725	0	1	EDINGER AV	RITCHEY ST	7/18/2009
4347161	-117.839072	33.759833	0	1	WILLIAMS ST	17TH ST	7/16/2009
4347173	-117.8664	33.74158	0	1	CYPRESS AV	MYRTLE ST	7/17/2009
4349062	-117.89668	33.75987	0	1	17TH ST	ENGLISH ST	7/28/2009
4349703	-117.86779	33.72894	0	1	MAIN ST	BORCHARD AV	7/28/2009
4349761	-117.85185	33.7542	0	1	SANTA ANA BL	GRAND AV	7/22/2009
4349773	-117.90678	33.73715	0	1	FAIRVIEW ST	HIGHLAND ST	7/27/2009
4349789	-117.920341	33.756678	0	1	HARBOR BL	WASHINGTON ST	4/24/2009
4349992	-118.481298	34.025047	0	1	BROADWAY	17TH ST	7/26/2009
4354487	-117.890339	33.74541	0	1	1ST ST	FOREST ST	7/30/2009
4368003	-117.872528	33.750621	0	1	ROSS ST	CIVIC CENTER CIR	8/11/2009

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4368133	-121.954608	36.986062	0	1	WALNUT ST	MAIN ST	8/13/2009
4369312	-117.892664	33.736915	0	1	WISTERIA PL	RAITT	8/14/2009
4372080	-117.855239	33.759895	0	1	17TH ST	LINCOLN AV	8/12/2009
4373464	-117.868517	33.735815	0	1	CUBBON ST	SYCAMORE	8/8/2009
4380765	-117.88998	33.74786	0	1	SANTA ANA BL	FOREST AV	8/26/2009
4387387	-117.893863	33.738437	0	1	RAITT ST	RICHLAND ST	9/2/2009
4387541	-118.4762	34.01593	0	1	EUCLID ST	4TH ST	9/7/2009
4387565	-117.865246	33.756768	0	1	SPURGEON ST	WASHINGTON AV	9/6/2009
4392801	-117.93762	33.75459	0	1	EUCLID ST	OAKFIELD AV	9/5/2009
4400973	-117.920177	33.74119	0	1	HARBOR BL	CAMILE ST	9/8/2009
4411288	-117.859379	33.753298	0	1	CIVIC CENTER DR	POINSETTIA ST	9/9/2009
4411359	-117.85185	33.7454	0	1	1ST ST	GRAND AV	9/11/2009
4421769	-117.919803	33.713809	0	1	WARNER AV	HARBOR BL	9/25/2009
4421790	-117.91994	33.737074	0	1	HARBOR BL	MCFADDEN AV	9/23/2009
4431408	-117.86762	33.74799	0	1	4TH ST	MAIN	9/11/2009
4432491	-117.93741	33.73816	0	1	MCFADDEN AV	EUCLID ST	9/29/2009
4439488	-117.991073	33.737469	0	1	MCFADDEN AV	PACIFIC AV	9/19/2009
4439561	-117.85996	33.75562	0	1	WASHINGTON AV	SANTIAGO AV	9/23/2009
4443525	-117.86333	33.74542	0	1	1ST ST	MAPLE	9/28/2009
4449473	-117.872509	33.759548	0	1	ROSS ST	17TH ST	10/18/2009
4468904	-117.84702	33.71587	0	1	WARNER AV	WRIGHT ST	10/27/2009
4469018	-117.93753	33.74696	0	1	EUCLID ST	3RD ST	10/23/2009
4474433	-117.93756	33.748517	0	1	NORTH EUCLID	5TH ST	10/10/2009
4479632	-121.944145	37.346502	0	1	MAIN ST	SANTA CLARA AV	10/20/2009
4479642	-117.92034	33.75866	0	1	HARBOR	CENTURY	10/27/2009
4479652	-117.867816	33.727051	0	1	MAIN ST	EDINGER AV	10/30/2009
4479662	-117.86225	33.74343	0	1	PINE ST	OAK ST	10/21/2009
4479676	-117.862162	33.698025	0	1	MACARTHUR BL	RT 55	10/31/2009
4490399	-117.867705	33.739381	0	1	MAIN ST	BISHOP	11/29/2009
4490532	-117.86642	33.74539	0	1	1ST ST	CYPRESS ST	11/7/2009
4490755	-117.896856	33.759872	0	1	17TH ST	ENGLISH ST	11/22/2009
4504051	-117.929012	33.753875	0	1	HOLLYLINE AV	NEWHOPE ST	11/12/2009
4504192	-117.834881	33.759838	0	1	17TH ST	TUSTIN AV	11/16/2009
4504341	-117.856393	33.730919	0	1	STANDARD AV	WILSHIRE AV	11/6/2009
4505659	-117.902552	33.727514	0	1	SULLIVAN ST	EDINGER	10/1/2009
4510418	-117.851525	33.766725	0	1	GRAND AV	SANTA CLARA AV	11/11/2009
4510430	-122.51861	37.97196	0	1	GRAND AV	14TH ST	11/10/2009
4524340	-117.85981	33.71596	0	1	WARNER	HALLADAY ST	11/24/2009
4524344	-117.9041	33.69997	0	1	GREENVILLE ST	MACARTHUR BL	11/30/2009
4527398	-117.8808	33.73527	0	1	SHELTON ST	CUBBON ST	12/9/2009
4532475	-117.85916	33.74807	0	1	4TH ST	GARFIELD	12/23/2009
4533988	-117.852893	33.773035	0	1	GRAND	FAIRHAVEN LN	12/26/2009
4536296	-117.902612	33.748659	0	1	SULLIVAN ST	5TH ST	12/10/2009
4536525	-117.90254	33.72018	0	1	GREENVILLE ST	HARVARD ST	12/16/2009
4536549	-117.87651	33.74552	0	1	1ST ST	FLOWER ST	12/20/2009
4553093	-117.86124	33.72696	0	1	EDINGER AV	KILSON DR	12/29/2009
4553105	-117.86985	33.73075	0	1	BROADWAY ST	WILSHIRE AV	12/20/2009
4557447	-117.89402	33.73445	0	1	MCFADDEN AV	RAITT ST	12/29/2009
4558903	-117.905906	33.728468	0	1	FAIRVIEW AV	BORCHARD AV	1/4/2010
4559397	-118.47942	34.02656	0	1	BROADWAY	19TH ST	12/6/2009
4561431	-117.903471	33.727289	1	0	EDINGER AV	SULLIVAN ST	11/7/2009
4571444	-117.856442	33.735135	0	1	STANDARD AV	NORMANDY PL	1/31/2010
4571499	-117.885516	33.698908	0	1	BRISTOL ST	MACARTHUR BL	1/29/2010
4579050	-117.856522	33.719635	0	1	SAINT GERTRUDE PL	STANDARD AV	1/8/2010
4586844	-117.842852	33.733755	0	1	MCFADDEN AV	MANTLE LN	1/14/2010
4586864	-117.893892	33.735355	0	1	CUBBON ST	RAITT ST	1/11/2010
4586874	-117.902552	33.720185	0	1	GREENVILLE ST	HARVARD ST	1/14/2010
4586904	-117.920284	33.745155	0	1	1ST ST	HARBOR	1/15/2010
4586960	-117.883022	33.727325	0	1	EDINGER AV	BAKER ST	1/17/2010

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4598051	-117.869507	33.755645	0	1	WASHINGTON AV	BROADWAY ST	1/27/2010
4598063	-117.919755	33.71382	0	1	WARNER AV	HARBOR BL	1/28/2010
4600788	-117.904112	33.699975	0	1	MACARTHUR BL	GREENVILLE ST	2/10/2010
4601646	-117.885196	33.723163	0	1	SAINT ANDREWS	BRISTOL ST	11/3/2009
4602672	-117.906782	33.735669	0	1	FAIRVIEW AV	MCFADDEN ST	2/3/2010
4613942	-117.876551	33.755886	0	1	FLOWER AV	WASHINGTON AV	2/5/2010
4613946	-117.884312	33.699957	0	1	MACARTHUR BL	BRISTOL ST	2/7/2010
4614086	-117.885192	33.73434	0	1	BRISTOL ST	MCFADDEN AV	1/23/2010
4617718	-117.885142	33.740366	0	1	BRISTOL	BISHOP ST	3/20/2010
4619667	-117.867752	33.735815	0	1	CUBBON ST	MAIN ST	2/4/2010
4621124	-117.924133	33.752521	0	1	WEST ST	HAZARD AV	3/10/2010
4621858	-117.865322	33.715995	0	1	WARNER AV	ORANGE AV	2/26/2010
4621902	-117.867741	33.733692	0	1	MAIN ST	MCFADDEN AV	2/24/2010
4625334	-117.904932	33.748815	0	1	FAIRVIEW AV	5TH ST	3/15/2010
4625346	-117.881042	33.745525	0	1	1ST ST	SHELTON AV	3/12/2010
4634963	-117.889272	33.734455	0	1	MCFADDEN AV	PACIFIC AV	2/22/2010
4636644	-117.898432	33.699905	0	1	MACARTHUR BL	RAITT ST	3/3/2010
4636656	-117.868942	33.719685	0	1	SAINT GERTRUDE PL	SYCAMORE ST	3/4/2010
4636692	-117.872442	33.745525	0	1	1ST ST	ROSS ST	3/2/2010
4638525	-117.900666	33.745303	0	1	FIRST ST	CLARA ST	3/6/2010
4647657	-117.874672	33.71607	0	1	GARNSEY ST	WARNER AV	3/17/2010
4655033	-117.902105	33.703577	0	1	ALTON	GREENVILLE ST	3/22/2010
4655072	-117.885415	33.711327	0	1	BRISTOL ST	CENTRAL AV	3/18/2010
4655080	-117.898182	33.734465	0	1	MCFADDEN AV	CENTER ST	3/19/2010
4661044	-117.885418	33.711215	0	1	BRISTOL ST	CENTRAL AV	3/23/2010
4661075	-117.89258	33.735353	0	1	CUBBON ST	RAITT ST	3/27/2010
4662443	-117.885142	33.740366	0	1	BRISTOL	BISHOP ST	3/20/2010
4675144	-117.853034	33.708525	0	1	DYER RD	GRAND AV	3/16/2010
4675195	-117.860502	33.749227	0	1	LACY ST	5TH ST	3/28/2010
4675558	-117.902892	33.759848	0	1	FAIRVIEW ST	17TH ST	4/14/2010
4676001	-117.907922	33.714814	0	1	FAIRVIEW AV	WARNER AV	3/22/2010
4680462	-117.937422	33.738165	0	1	EUCLID ST	MCFADDEN AV	3/16/2010
4693775	-117.866976	33.767041	0	1	RT 5	MAIN ST	4/19/2010
4701135	-117.859642	33.742545	0	1	CHESTNUT AV	HALLADAY ST	4/12/2010
4709820	-117.928862	33.748893	0	1	NEWHOPE	5TH ST	5/9/2010
4726428	-117.906172	33.745255	0	1	1ST ST	FAIRVIEW ST	4/27/2010
4726443	-117.869902	33.725212	0	1	BROADWAY	POMONA ST	4/23/2010
4726463	-117.885122	33.749665	0	1	BRISTOL	6TH ST	4/25/2010
4726467	-117.894852	33.745351	0	1	DAISY ST	1ST ST	4/20/2010
4727847	-117.885218	33.747906	0	1	SANTA ANA BL	BRISTOL ST	5/4/2010
4727920	-117.915782	33.745606	0	1	JACKSON	1ST ST	5/5/2010
4750747	-117.851862	33.754205	0	1	SANTA ANA BL	GRAND AV	4/23/2010
4751031	-117.866611	33.721211	0	1	CYPRESS AV	SAINT GERTRUDE PL	1/29/2010
4751432	-117.867747	33.735692	0	1	MAIN ST	CUBBON ST	10/22/2010
4752305	-117.920052	33.744744	0	1	HARBOR BL	1ST ST	3/26/2011
4755049	-118.0026	33.87048	0	1	5TH ST	WESTERN AV	5/10/2011
4764500	-117.86788	33.722673	0	1	MAIN ST	SAINT ANDREW PL	5/26/2010
4764512	-117.880812	33.735604	0	1	SHELTON ST	CUBBON ST	5/22/2010
4764840	-117.858752	33.723795	0	1	CEDAR ST	OCCIDENTAL ST	6/16/2010
4765479	-117.862302	33.736655	0	1	OAK	WISTERIA	5/28/2010
4769224	-117.863342	33.745425	0	1	FIRST ST	MAPLE	6/22/2010
4769256	-117.867742	33.733445	0	1	MAIN ST	MCFADDEN AV	6/29/2010
4780903	-117.889077	33.730816	0	1	WILSHIRE AV	SPRUCE ST	5/10/2010
4780915	-117.835212	33.759841	0	1	17TH ST	TUSTIN AV	5/10/2010
4784736	-117.869747	33.758843	0	1	BROADWAY	17TH ST	5/20/2010
4785652	-117.859972	33.755625	0	1	WASHINGTON AV	SANTIAGO ST	6/8/2010
4785950	-117.878405	33.717952	0	1	ANAHURST PL	LOWELL ST	5/31/2010
4785970	-117.905706	33.727275	0	1	EDINGER AV	FAIRVIEW ST	5/26/2010
4785990	-117.863472	33.739465	0	1	BISHOP ST	MAPLE ST	5/28/2010

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Case ID	Longitude	Latitude	Number Killed	Number Injured	Primary Road	Secondary Road	Date
4786013	-117.832883	33.759815	0	1	17TH ST	PONDEROSA ST	6/2/2010
4786017	-117.874672	33.751485	0	1	CIVIC CENTER DR	PARTON ST	6/1/2010
4787964	-117.846821	33.752491	0	1	RT 5	GRAND AV	5/14/2010
4789478	-117.85593	33.737295	0	1	MINNIE ST	WAKEHAM AV	6/10/2010
4789849	-117.867371	33.771678	0	1	MAIN ST	MAIN PLACE DR	6/3/2010
4789873	-117.908786	33.720225	0	1	HARVARD ST	FAIRVIEW ST	6/4/2010
4789901	-117.941318	33.745025	0	1	1ST ST	SOUTH 1ST ST	6/4/2010
4804361	-117.906782	33.735337	0	1	FAIRVIEW AV	MCFADDEN	6/15/2010
4807243	-117.920202	33.745155	0	1	HARBOR BL	1ST ST	7/7/2010
4807247	-117.913252	33.748861	0	1	5TH ST	SUSAN ST	7/7/2010
4808022	-117.885128	33.750635	0	1	7TH ST	BRISTOL ST	7/15/2010
4808034	-117.888305	33.751474	0	1	CIVIC CENTER DR	PACIFIC AV	7/10/2010
4808042	-117.867662	33.745395	0	1	MAIN ST	1ST ST	7/11/2010
4819051	-117.928632	33.730935	0	1	NEWHOPE ST	EDINGER AV	7/15/2010
4819116	-117.889282	33.767445	0	1	MARION AV	FOREST AV	7/9/2010
4820223	-117.87811	33.744535	0	1	WALNUT ST	BOOTH ST	7/8/2010
4820235	-117.905291	33.74805	0	1	FAIRVIEW AV	5TH ST	7/8/2010
4823338	-117.906272	33.727325	0	1	FAIRVIEW ST	EDINGER AV	7/20/2010
4825939	-117.869952	33.722465	0	1	BROADWAY ST	SAINT ANDREW PL	7/21/2010
4826112	-117.928729	33.739	0	1	NEWHOPE ST	ACAPULCO AV	7/1/2010
4826116	-117.865142	33.739455	0	1	BISHOP ST	ORANGE AV	7/2/2010
4826120	-117.872502	33.747125	0	1	3RD ST	ROSS ST	7/2/2010
4829081	-117.924141	33.748891	0	1	5TH ST	HUYLARS LN	7/27/2010
4829089	-117.865332	33.719715	0	1	ORANGE AV	SAINT GERTRUDE PL	7/25/2010
4833213	-117.887103	33.710578	0	1	POPLAR ST	HEMLOCK WY	5/27/2010
4834590	-117.835785	33.767624	0	1	TUSTIN AV	SANTA CLARA AV	7/29/2010
4834610	-117.992182	33.804265	0	1	CHESTNUT	GRAND	7/29/2010
4835419	-117.904096	33.699975	0	1	MACARTHUR BL	GREENVILLE	8/9/2010
4866007	-117.881042	33.745525	0	1	1ST ST	SHELTON ST	8/18/2010
4866080	-117.893353	33.733157	0	1	DOUGLAS ST	LINGAN	8/17/2010
4875283	-117.877632	33.746265	0	1	2ND ST	OLIVE ST	8/4/2010
4876035	-117.853072	33.748045	0	1	4TH ST	HATHAWAY ST	8/23/2010
4876063	-117.867594	33.758815	0	1	MAIN ST	16TH ST	8/19/2010
4879359	-117.858732	33.736956	0	1	CEDAR ST	WISTERIA PL	8/28/2010
4882610	-117.867752	33.735815	0	1	SOUTH MAIN ST	E CUBBON ST	9/6/2010
4882618	-117.863422	33.742515	0	1	CHESTNUT AV	MAPLE ST	9/1/2010
4883247	-117.906825	33.737151	0	1	HIGHLAND AV	FAIRVIEW AV	8/27/2010
4883263	-117.937737	33.748682	0	1	5TH ST	EUCLID ST	8/27/2010
4885926	-117.863344	33.759925	0	1	PENN WY	17TH ST	9/1/2010
4889948	-117.867365	33.772021	0	1	MAIN ST	MAINPLACE DR	9/2/2010
4905383	-117.868672	33.759995	0	1	SYCAMORE ST	17TH ST	9/27/2010
4905391	-117.850002	33.759915	0	1	MCCLAY ST	17TH ST	9/23/2010
4912341	-117.875112	33.766835	0	1	SANTA CLARA AV	HELIOTROPE DR	9/1/2010
4912385	-117.884203	33.745412	0	1	1ST ST	BRISTOL ST	9/16/2010
4915880	-117.884792	33.771955	0	1	BRISTOL	PARK LN	9/23/2010
4915920	-117.902602	33.744188	0	2	SULLIVAN ST	1ST ST	9/14/2010
4916026	-117.856422	33.72844	0	1	STANDARD AV	HOBART ST	9/16/2010
4918457	-117.858702	33.726795	0	2	EDINGER AV	CEDAR ST	10/8/2010
4919762	-117.920225	33.746172	0	1	HARBOR BL	1ST ST	10/11/2010
4919766	-117.907652	33.723455	0	1	FAIRVIEW AV	CENTENNIAL	10/6/2010
4919774	-117.863562	33.749415	0	1	MORTIMER ST	6TH ST	10/12/2010
4919790	-117.902572	33.732965	0	1	SULLIVAN ST	ADRIN WY	10/13/2010
4933281	-117.881252	33.694045	0	1	SUNFLOWER	BRISTOL	11/1/2010
4933888	-117.866602	33.747115	0	1	BUSH ST	3RD ST	10/31/2010
4941273	-117.876532	33.749695	0	1	FLOWER ST	6TH ST	10/27/2010
4946339	-117.880912	33.71618	0	1	PARK	WARNER	10/13/2010
4948476	-117.929002	33.759725	0	1	17TH ST	NEWHOPE	10/10/2010
4948480	-117.835802	33.769525	0	1	FRANZEN	TUSTIN	10/14/2010
4958109	-117.885202	33.745475	0	1	BRISTOL ST	1ST ST	11/3/2010

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4958117	-117.937094	33.738165	0	1	MCFADDEN AV	EUCLID ST	11/4/2010
4958125	-117.920562	33.738273	0	1	MCFADDEN AV	HARBOR BL	11/3/2010
4964692	-117.867553	33.760125	0	1	MAIN ST	17TH ST	10/20/2010
4965274	-117.876552	33.728965	0	1	BORCHARD AV	FLOWER ST	10/18/2010
4971522	-117.903012	33.718755	0	1	GREENVILLE ST	SAINT GERTRUDE PL	11/23/2010
4971589	-117.901132	33.715305	0	1	WARNER AV	DIAMOND ST	11/22/2010
4981301	-117.859972	33.755625	0	1	WASHINGTON AV	SANTIAGO AV	10/27/2010
4983264	-117.893862	33.69996	0	1	MACARTHUR BL	BEAR ST	12/4/2010
5007053	-117.849385	33.708475	0	1	DYER RD	PULLMAN ST	12/28/2010
5007093	-117.882652	33.7162	0	1	ROSEWOOD AV	WARNER AV	12/28/2010
5007101	-117.884952	33.716197	0	1	WARNER AV	BRISTOL ST	12/30/2010
5022837	-117.872528	33.750599	0	1	ROSS ST	CIVIC CENTER DR	12/14/2010
5029405	-117.860962	33.743947	0	1	HICKORY ST	PINE ST	12/23/2010
5034650	-117.873831	33.748233	0	1	SANTA ANA BL	PARTON ST	12/7/2010
5034915	-117.867822	33.727265	0	1	MAIN ST	EDINGER AV	12/1/2010
5035042	-117.899436	33.715484	0	1	WARNER AV	CENTER	11/30/2010
5068583	-117.89005	33.7163	0	1	WARNER AV	RENE DR	1/5/2011
5069331	-117.87658	33.72348	0	1	FLOWER ST	OCCIDENTAL ST	1/16/2011
5079283	-117.89608	33.71884	0	1	RAITT ST	SAINT GERTRUDE PL	1/15/2011
5079307	-117.86637	33.75996	0	1	17TH ST	BUSH ST	1/10/2011
5087603	-117.904076	33.703617	0	1	GREENVILLE ST	ALTON AV	1/26/2011
5095042	-117.853123	33.773315	0	1	FAIRHAVEN AV	GRAND AV	1/26/2011
5095046	-117.83415	33.74813	0	1	4TH ST	TUSTIN AV	1/28/2011
5095113	-117.85191	33.75993	0	1	GRAND AV	17TH ST	1/27/2011
5095826	-117.851812	33.750371	0	1	GRAND AV	6TH ST	2/2/2011
5107355	-117.872455	33.745525	0	1	FIRST ST	ROSS ST	1/26/2011
5109767	-117.85028	33.74256	0	1	GRAND AV	CHESTNUT AV	2/7/2011
5109771	-117.88551	33.69992	0	1	BRISTOL ST	MACARTHUR BL	2/14/2011
5115326	-117.88482	33.699941	0	1	MACARTHUR BL	BRISTOL ST	2/17/2011
5125841	-117.892227	33.703669	0	1	BEAR ST	ALTON AV	2/10/2011
5128908	-117.90374	33.71661	0	1	GREENVILLE ST	PENDLETON AV	3/30/2011
5132226	-117.91981	33.7138	0	1	HARBOR BL	WARNER AV	2/8/2011
5132774	-117.851928	33.757755	0	1	15TH ST	GRAND AV	2/10/2011
5132782	-117.883303	33.735427	0	1	CUBBON ST	BAKER ST	2/9/2011
5138384	-117.83918	33.733795	0	1	MCFADDEN AV	WILLIAMS ST	3/9/2011
5138392	-117.937592	33.752386	0	1	HAZARD AV	EUCLID ST	3/11/2011
5138590	-117.87647	33.73448	0	1	FLOWER ST	MCFADDEN AV	2/28/2011
5141113	-117.89011	33.72247	0	1	RENE DR	CARLTON	4/17/2011
5156560	-117.918009	33.748718	0	1	BEWLEY ST	5TH ST	4/7/2011
5162057	-117.893152	33.742388	0	1	RAITT ST	CHESTNUT AV	3/22/2011
5162069	-117.851753	33.744866	0	1	GRAND AV	21ST ST	3/29/2011
5163932	-117.972114	33.731157	0	1	MAGNOLIA ST	EDINGER AV	4/9/2011
5169186	-117.83587	33.7338	0	1	MCFADDEN	VILLAGE WY	3/26/2011
5172009	-117.85187	33.75668	0	1	GRAND AV	WASHINGTON BL	3/5/2011
5175185	-117.89844	33.7155	0	1	CENTER ST	WARNER AV	5/10/2011
5175275	-117.86644	33.75431	0	1	11TH ST	BUSH ST	5/5/2011
5176269	-117.86978	33.75124	0	1	BROADWAY	CIVIC CENTER DR	4/12/2011
5182347	-117.882233	33.730818	0	1	WILSHIRE AV	ROSEWOOD AV	5/31/2011
5182964	-117.914687	33.738278	0	1	MCFADDEN AV	SUSAN ST	5/4/2011
5188516	-117.92025	33.74889	0	1	5TH ST	HARBOR BL	4/28/2011
5188906	-117.8808	33.73527	0	1	CUBBON ST	SHELTON ST	5/10/2011
5197555	-117.91816	33.71386	0	1	WARNER AV	OTIS ST	4/15/2011
5197579	-117.86864	33.75564	0	1	SYCAMORE ST	WASHINGTON AV	4/26/2011
5200219	-117.885197	33.733929	0	1	BRISTOL ST	MCFADDEN AV	5/20/2011
5207470	-117.87643	33.73941	0	1	BISHOP ST	FLOWER ST	4/17/2011
5207520	-117.90861	33.72022	0	1	FAIRVIEW AV	HARVARD	5/27/2011
5207549	-121.9546	36.98605	0	1	MAIN ST	WALNUT ST	5/20/2011
5210715	-117.83587	33.7338	0	1	MCFADDEN AV	TUSTIN VILLAGE WY	5/3/2011
5210719	-117.90784	33.69983	0	1	FAIRVIEW AV	MACARTHUR BL	5/3/2011

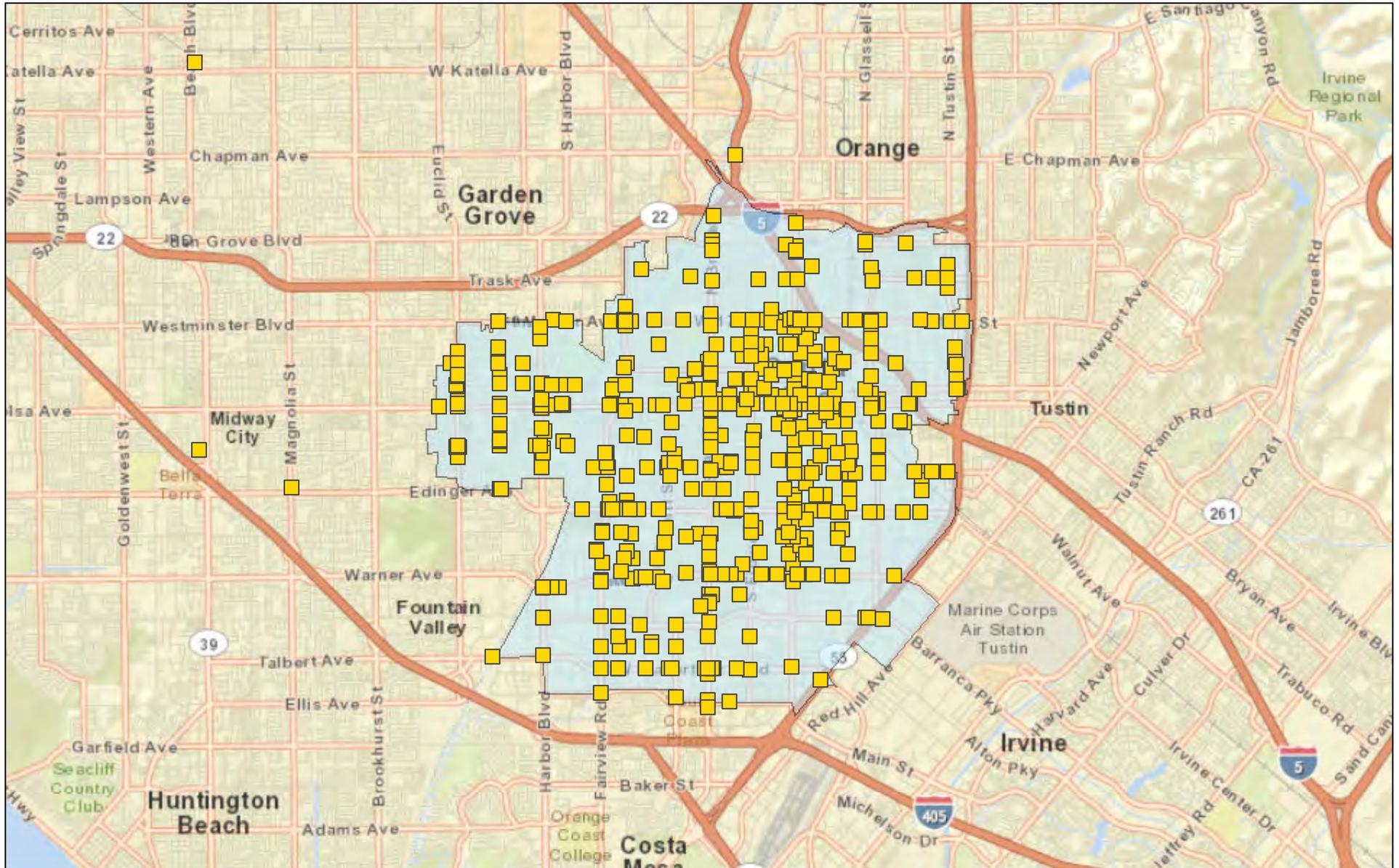
City of Santa Ana
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Case ID	Longitude	Latitude	Number Killed	Number Injured	Primary Road	Secondary Road	Date
5211685	-117.88522	33.72154	0	1	BRISTOL ST	GLENWOOD PL	5/7/2011
5211754	-117.85739	33.752664	0	1	SANTA ANA BL	SANTIAGO AV	5/3/2011
5226041	-117.86797	33.71494	0	1	MAIN ST	FLORA ST	5/27/2011
5226218	-117.937402	33.736402	0	1	EUCLID ST	NAPALI DR	6/3/2011
5231984	-117.92025	33.74889	0	1	HARBOR BL	5TH ST	5/16/2011
5232832	-117.93775	33.738151	0	1	MCFADDEN AV	EUCLID ST	6/14/2011
5235816	-117.928732	33.739379	0	1	NEWHOPE ST	WATKINS WY	6/9/2011
5235828	-118.48581	34.00667	0	1	PACIFIC AV	3RD ST	6/10/2011
5236200	-117.86372	33.715985	0	1	WARNER AV	MAPLE ST	5/3/2011
5236244	-117.868878	33.723415	0	1	COMMERCIAL ST	SYCAMORE ST	5/31/2011
5237929	-117.92875	33.74202	0	1	NEW HOPE	NEW BRITAIN COMMON	6/14/2011
5242908	-117.918012	33.748841	0	1	BEWLEY ST	5TH ST	7/12/2011
5246562	-117.841369	33.730515	0	1	RITCHEY ST	AUTO MALL DR	6/15/2011
5246598	-117.85764	33.72376	0	1	OCCIDENTAL ST	EVERGREEN ST	6/24/2011
5246788	-117.87978	33.72722	0	1	EDINGER AV	TOWNER ST	6/14/2011
5247370	-117.94139	33.74502	0	1	FIRST ST	COOPER ST	6/30/2011
5247683	-117.893026	33.699967	0	1	MACARTHUR BL	BEAR ST	7/8/2011
5247703	-117.898432	33.699891	0	1	RAITT ST	MACARTHUR BL	7/7/2011
5247715	-117.905952	33.727275	0	1	EDINGER AV	FAIRVIEW ST	7/5/2011
5252464	-117.86782	33.726936	0	1	MAIN ST	EDINGER AV	7/1/2011
5259813	-117.89505	33.71498	0	1	ARTESIA ST	FLORA ST	8/17/2011
5269815	-117.88551	33.69992	0	1	MACARTHUR BL	BRISTOL ST	7/24/2011
5287143	-117.880062	33.788447	0	1	RT 57	BRISTOL ST	6/17/2011
5291111	-117.87103	33.7358	1	0	CUBBON ST	BIRCH ST	6/24/2011
5292455	-117.85694	33.74452	0	1	STANDARD AV	WALNUT ST	7/25/2011
5292479	-117.857702	33.715981	0	1	EVERGREEN ST	WARNER AV	7/26/2011
5320657	-117.897413	33.70365	0	1	RAITT ST	ALTON AV	9/27/2011
5320661	-117.88513	33.73815	0	1	BRISTOL ST	RICHLAND AV N	9/26/2011
5325963	-117.857685	33.723766	0	1	OCCIDENTAL ST	EVERGREEN ST	9/21/2011
5337264	-117.85965	33.73354	0	1	HALLADAY ST	MCFADDEN AV	10/12/2011
5337702	-117.84174	33.75989	0	1	17TH ST	CABRILLO PARK DR	8/19/2011
5337718	-117.8687	33.74551	0	1	1ST ST	SYCAMORE ST	8/19/2011
5337725	-117.90357	33.72336	0	1	SAINT ANDREW PL	BAMDAL ST	8/9/2011
5337729	-117.902886	33.759816	0	1	17TH ST	FAIRVIEW ST	8/12/2011
5339538	-117.87655	33.75368	0	1	FLOWER ST	10TH ST	10/27/2011
5342388	-117.845848	33.74258	0	1	CHESTNUT AV	LYON ST	8/30/2011
5342392	-117.902967	33.751779	0	1	FAIRVIEW AV	CIVIC CENTER DR	8/30/2011
5342535	-117.928976	33.755357	0	1	MAURIE AV	NEWHOPE	9/2/2011
5343985	-118.4759	34.02942	0	1	BROADWAY	3RD ST	9/18/2011
5344980	-117.876594	33.723279	0	1	S FLOWER ST	OCCIDENTAL	9/25/2011
5346565	-117.88849	33.75147	0	1	PACIFIC AV	CIVIC CENTER DR	10/7/2011
5348253	-117.868765	33.741293	0	1	SYCAMORE ST	CAMILE ST	8/30/2011
5356948	-117.86413	33.76931	0	1	EDGEWOOD RD	FRENCH ST	9/7/2011
5356993	-117.874967	33.719959	0	1	GARNSEY ST	SAINT GERTRUDE PL	9/4/2011
5358284	-117.88103	33.74552	0	1	WEST 1ST ST	SHELTON	9/14/2011
5358285	-117.900175	33.727217	0	1	GREENVILLE ST	EDINGER AV	9/5/2011
5358287	-117.90288	33.75981	0	1	17TH ST	FAIRVIEW ST	9/29/2011
5358288	-119.45196	35.13874	0	1	FIRST ST	CENTER ST	9/29/2011
5358293	-117.88514	33.74177	0	1	BRISTOL ST	MYRTLE ST	9/26/2011
5363843	-117.88451	33.778	0	1	BRISTOL ST	HESPERIAN ST	8/29/2011
5363875	-117.867214	33.716005	0	1	WARNER AV	MAIN ST	8/31/2011
5368266	-117.937423	33.738206	0	1	EUCLID ST	MCFADDEN AV	10/17/2011
5370742	-117.89227	33.70732	0	1	SEGERSTROM AV	BEAR ST	10/19/2011
5370959	-117.83576	33.76714	0	1	TUSTIN AV	SANTA CLARA AV	11/3/2011
5373565	-117.872528	33.750567	0	1	ROSS ST	CIVIC CENTER DR	10/12/2011
5381422	-119.463092	35.141728	0	1	18TH ST	MAIN ST	11/3/2011
5385656	-117.928982	33.752482	0	1	NEWHOPE ST	HAZARD AV	9/8/2011
5386540	-117.87658	33.72523	0	1	FLOWER ST	POMONA ST	11/9/2011
5387742	-117.90546	33.727276	0	1	EDINGER AV	FAIRVIEW ST	10/17/2011

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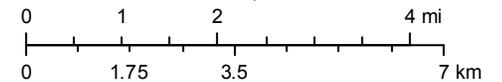
Case ID	Longitude	Latitude	Number Killed	Number Injured	Primary Road	Secondary Road	Date
5389076	-117.885086	33.753145	0	1	NORTH BRISTOL ST	W 10TH ST	11/13/2011
5398756	-117.919759	33.713819	0	1	WARNER AV	HARBOR BL	11/14/2011
5399867	-117.85192	33.759699	0	1	GRAND AV	17TH ST	11/23/2011
5401592	-117.8633	33.729895	0	1	HOBART ST	OAK ST	11/11/2011
5403608	-117.855095	33.759895	0	1	17TH ST	LINCOLN AV	11/23/2011
5403636	-117.870162	33.745525	0	1	1ST ST	BROADWAY	11/23/2011
5406836	-117.856736	33.74453	0	1	WALNUT ST	STANDARD AV	11/15/2011
5406901	-117.884982	33.760853	0	1	BRISTOL ST	17TH ST	11/11/2011
5415482	-117.86637	33.75996	0	1	17TH ST	BUSH ST	11/28/2011
5415763	-117.8819	33.72723	0	1	EDINGER AV	ROSEWOOD AV	11/15/2011
5415841	-117.92879	33.7451	0	1	NEWHOPE ST	1ST ST	10/23/2011
5415859	-117.90411	33.70551	0	1	GREENVILLE ST	GARRY AV	11/17/2011
5415891	-117.858752	33.722373	0	1	CEDAR ST	SAINT ANDREW	11/24/2011
5415907	-117.869792	33.751231	0	1	BROADWAY	CIVIC CENTER DR	11/17/2011
5416096	-117.91981	33.7138	0	1	HARBOR BL	WARNER AV	11/22/2011
5422090	-117.841894	33.748088	0	1	4TH ST	CABRILLO PARK DR	11/26/2011
5423473	-117.93019	33.70193	0	1	MACARTHUR BL	MACARTHUR PL	12/4/2011
5423481	-117.85225	33.708515	0	1	DYER RD	GRAND AV	12/7/2011
5423485	-117.90764	33.72345	0	1	FAIRVIEW ST	CENTENNIAL RD	12/5/2011
5423862	-117.92862	33.73093	0	1	EDINGER AV	NEWHOPE ST	12/7/2011
5423893	-117.902612	33.748676	0	1	SULLIVAN ST	5TH ST	12/5/2011
5430303	-117.846821	33.752491	0	1	SANTA ANA BL	GRAND AV	11/30/2011
5431094	-117.901942	33.727278	0	1	EDINGER AV	SULLIVAN ST	12/6/2011
5431341	-117.93757	33.75028	0	1	EUCLID ST	ROOSEVELT AV	11/14/2011
5432720	-117.863986	33.733475	0	1	MC FADDEN AV	MAPLE ST	12/2/2011
5435567	-117.93757	33.75057	0	1	7TH ST	EUCLID ST	12/8/2011
5438700	-119.46308	35.14132	0	1	MAIN ST	8TH ST	12/13/2011
5464490	-117.885551	33.705375	0	1	GARRY AV	BRISTOL ST	12/30/2011
5464506	-117.861208	33.745435	0	1	E 1ST ST	HICKORY ST	12/17/2011
5470762	-122.34588	37.96152	0	1	STANDARD AV	3RD ST	11/5/2011
5482420	-117.885046	33.759032	0	1	BRISTOL ST	17TH ST	12/20/2011
5483687	-117.937482	33.745497	0	2	EUCLID ST	1ST ST	12/25/2011
5562898	-117.834174	33.752126	0	1	TUSTIN AV	FRUIT	11/19/2011

SWITRS Collisions from 1-1-07 to 12-31-11, SANTA ANA, ORANGE



April 18, 2014

1:126,091



Sources: Esri, DeLorme, HERE, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom

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City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Pedestrian Accidents from 2007 to 2011

CASEID	POINT_X	POINT_Y	KILLED	INJURED	PRIMARYRD	SECONDRD	DATE_
3003538	-117.852526	33.708538	0	1	GRAND AV	DYER RD	1/7/2007
3003549	-117.915242	33.708725	0	1	SEGERSTROM AV	YALE ST	1/11/2007
3031449	-117.868812	33.735813	0	1	CUBBON ST	SYCAMORE ST	1/31/2007
3031476	-117.867692	33.742474	0	1	MAIN ST	CHESTNUT AV	1/31/2007
3038180	-117.904112	33.699974	0	1	MACARTHUR	GREENVILLE	1/16/2007
3038200	-117.904026	33.703537	0	1	ALTON AV	GREENVILLE	1/16/2007
3048269	-117.924013	33.738235	0	1	MCFADDEN AV	SHANNON ST	1/30/2007
3048304	-117.904112	33.699974	0	2	GREENVILLE ST	MACARTHUR BL	2/6/2007
3048445	-117.867912	33.719696	0	1	MAIN ST	ST GERTRUDE	2/3/2007
3061288	-117.894012	33.744724	0	1	FRANKLIN ST	WALNUT ST	2/8/2007
3061292	-117.871427	33.75576	0	1	WASHINGTON AV	DURANT ST	2/12/2007
3061312	-117.857129	33.752762	0	1	SANTA ANA BL	SANTIAGO BL	2/14/2007
3068009	-117.92792	33.748837	0	1	5TH ST	MOUNTAIN VIEW ST	2/8/2007
3071892	-117.904696	33.745243	0	1	1ST ST	FAIRVIEW ST	2/15/2007
3072807	-117.858022	33.752415	0	1	SANTA ANA BL	SANTIAGO	2/20/2007
3072842	-117.878288	33.746258	0	1	2ND ST	OLIVE ST	2/25/2007
3073341	-117.902582	33.734814	0	1	SULLIVAN	MCFADDEN	2/18/2007
3077624	-117.87461	33.699947	0	2	MACARTHUR BL	PARTON	2/26/2007
3080886	-117.885002	33.760124	0	1	17TH ST	BRISTOL ST	3/5/2007
3080917	-117.915822	33.748875	0	1	5TH	JACKSON	3/1/2007
3080918	-117.901812	33.735619	0	1	BAMDAL ST	BROOK ST	3/4/2007
3080921	-117.85976	33.729935	0	1	HOBART ST	HALLADAY ST	3/1/2007
3086439	-117.884313	33.73447	0	1	MCFADDEN AV	BRISTOL ST	3/17/2007
3092385	-117.902552	33.727295	0	1	EDINGER	SULLIVAN	3/8/2007
3092389	-117.850292	33.742565	0	2	GRAND	CHESTNUT	3/8/2007
3100122	-117.885021	33.773083	0	4	MEMORY LN	BRISTOL	3/20/2007
3107607	-117.870241	33.742485	0	3	CHESTNUT AV	BROADWAY	3/24/2007
3107666	-117.937632	33.754597	0	1	EUCLID ST	OAKFIELD AV	3/23/2007
3116850	-117.865255	33.757835	0	1	15TH ST	SPURGEON ST	3/9/2007
3116874	-117.867912	33.719696	0	1	MAIN ST	ST GERTRUDE	3/25/2007
3116917	-117.920201	33.738274	0	1	MCFADDEN AV	HARBOR	3/30/2007
3139377	-117.914682	33.745193	0	1	N LAUREL	1ST ST	4/11/2007
3152622	-117.864798	33.748016	0	1	4TH ST	FRENCH ST	4/17/2007
3157532	-117.885172	33.743584	0	1	PINE	BRISTOL	4/7/2007
3157551	-117.882812	33.745464	0	1	BAKER ST	1ST ST	4/15/2007
3157559	-117.895408	33.734795	0	1	TOWNSEND ST	MCFADDEN AV	4/15/2007
3167831	-117.937422	33.738132	0	1	EUCLID	MC FADDEN	4/18/2007
3168168	-117.87119	33.734486	0	1	MCFADDEN AV	BIRCH ST	4/8/2007
3168181	-117.868088	33.700035	0	1	MAIN ST	MACARTHUR BL	4/9/2007
3176371	-117.890941	33.751469	0	1	CIVIC CENTER DR	WESTERN AV	4/28/2007
3177085	-117.858698	33.732426	0	1	CEDAR ST	RUSSELL AV	4/26/2007
3189920	-117.87718	33.739414	0	1	BISHOP ST	FLOWER ST	5/2/2007
3189921	-117.869822	33.734486	0	1	MCFADDEN AV	BROADWAY	5/14/2007
3200010	-117.867632	33.750553	0	1	CIVIC CENTER DR	MAIN ST	4/6/2007
3202102	-117.865182	33.759964	0	1	17TH ST	SPURGEON ST	5/25/2007
3202142	-117.860306	33.743458	0	1	PINE ST	HICKORY ST	5/26/2007
3208694	-117.920262	33.748894	0	1	HARBOR BL	5TH ST	5/27/2007
3208722	-117.943214	33.738007	1	0	MCFADDEN AV	SAIL ST	3/30/2007
3208734	-117.939566	33.738106	1	0	MCFADDEN AV	MAXINE ST	4/1/2007
3222956	-117.898182	33.734467	0	1	MCFADDEN AV	CENTER ST	4/1/2007
3224220	-117.917936	33.713871	0	2	WARNER AV	OTIS ST	5/19/2007
3225104	-117.885003	33.760117	0	2	BRISTOL ST	17TH ST	5/26/2007
3225875	-117.935022	33.752441	0	2	SHEFFIELD ST	HAZARD AV	6/5/2007
3230142	-117.843822	33.744713	0	1	ELK LN	1ST ST	6/13/2007
3244651	-117.864038	33.757805	0	1	15TH ST	FRENCH ST	6/15/2007
3244679	-117.919712	33.702271	0	1	HARBOR BL	MACARTHUR BL	6/9/2007
3247952	-117.869789	33.74865	0	1	BROADWAY	5TH ST	6/18/2007
3247980	-117.872987	33.718201	0	1	VAN NESS AV	ANAHURST PL	6/21/2007
3271065	-117.88114	33.743622	0	1	PINE ST	SHELTON ST	7/2/2007
3278227	-117.885542	33.703686	0	1	BRISTOL CIR	ALTON	6/25/2007
3278231	-117.885238	33.746246	0	1	2ND ST	BRISTOL ST	6/28/2007

City of Santa Ana
Newhope-Civic Center-Grand Class II Bike Lanes Project
Pedestrian Accidents from 2007 to 2011

CASEID	POINT_X	POINT_Y	KILLED	INJURED	PRIMARYRD	SECONDRD	DATE_
3278239	-117.863978	33.766575	0	1	SANTA CLARA AV	FRENCH ST	6/26/2007
3279621	-117.859162	33.751915	0	1	SANTA ANA BL	POINSETTIA ST	7/2/2007
3279911	-117.882376	33.713245	0	1	SOUTH ROSEWOOD	CENTRAL	6/28/2007
3280091	-117.868007	33.712978	0	1	MAIN ST	CENTRAL AV	7/6/2007
3282704	-117.867616	33.748875	0	1	5TH ST	MAIN ST	7/7/2007
3293771	-117.891501	33.754971	0	1	12TH ST	RAITT ST	7/18/2007
3293877	-117.88545	33.699924	0	1	MACARTHUR BL	BRISTOL ST	7/25/2007
3302661	-117.851839	33.747318	1	0	GRAND AV	3RD ST	5/19/2007
3302687	-117.841752	33.759895	0	1	17TH ST	SHERRY LN	7/26/2007
3302691	-117.867822	33.727264	0	1	MAIN ST	EDINGER AV	7/31/2007
3303465	-117.885222	33.730778	0	1	BRISTOL ST	WILSHIRE AV	7/16/2007
3303481	-117.891672	33.759933	0	1	17TH ST	COLLEGE AV	7/16/2007
3303494	-117.888531	33.754215	0	1	11TH ST	PACIFIC AV	7/20/2007
3303498	-117.937558	33.746964	0	2	3RD ST	EUCLID	7/15/2007
3306914	-117.881277	33.72665	0	1	SHELTON ST	EDINGER AV	7/29/2007
3306938	-117.886645	33.769192	0	2	POPLAR ST	RIVIERA DR	7/24/2007
3307221	-117.867692	33.742516	0	1	MAIN ST	CHESTNUT AV	8/2/2007
3324631	-117.920352	33.758663	0	1	HARBOR BL	CENTURY ST	8/10/2007
3330728	-117.917962	33.745174	1	0	1ST ST	BEWLEY	8/19/2007
3330740	-117.867702	33.739456	0	1	MAIN	BISHOP	8/21/2007
3330752	-117.852953	33.751297	0	1	EASTWOOD AV	FRUIT ST	8/16/2007
3330768	-117.884813	33.751534	0	1	CIVIC CNTR	W BRISTOL	8/20/2007
3336947	-117.842373	33.745118	1	1	RT 5	4TH ST	4/14/2007
3359114	-117.888495	33.745426	0	3	1ST ST	PACIFIC ST	9/12/2007
3362780	-117.904472	33.756748	0	1	GLENARBOR ST	HURON DR	9/3/2007
3363182	-117.855068	33.734776	0	2	MINNIE ST	MCFADDEN AV	8/26/2007
3363186	-117.874472	33.734486	0	1	MCFADDEN AV	PARTON ST	8/28/2007
3363190	-117.859671	33.745453	0	1	1ST ST	HALLADAY ST	8/27/2007
3365276	-117.910675	33.748516	1	0	MARY COMMON	LISABETH COMMON	8/31/2007
3369540	-117.869857	33.745399	1	0	1ST ST	BROADWAY	9/24/2007
3375992	-117.864037	33.727146	0	1	EDINGER AV	MAPLE ST	9/21/2007
3375996	-117.869832	33.738777	0	1	BROADWAY	RICHLAND ST	9/12/2007
3376033	-117.909737	33.733036	0	1	NAKOMA DR	LINGAN LN	9/14/2007
3378183	-117.867662	33.745396	0	1	MAIN ST	1ST ST	10/6/2007
3383394	-117.910556	33.730198	0	1	NAKOMA	LA VERNE	9/16/2007
3390564	-117.928982	33.752525	0	1	NEWHOPE ST	HAZARD AV	9/20/2007
3395489	-117.879134	33.734467	0	1	MCFADDEN AV	LOWELL ST	9/30/2007
3397015	-117.901666	33.753395	0	1	10TH ST	KINGS ST	10/6/2007
3397026	-117.867803	33.727264	0	1	EDINGER AV	MAIN ST	10/12/2007
3397564	-117.864008	33.733448	0	1	MAPLE ST	MCFADDEN AV	10/1/2007
3397576	-117.873586	33.755764	0	1	WASHINGTON AV	VAN NESS ST	10/4/2007
3407722	-117.904171	33.745251	0	1	1ST ST	FAIRVIEW AV	10/10/2007
3408217	-117.873642	33.753654	0	2	10TH ST	VAN NESS AV	10/2/2007
3415482	-117.895343	33.720856	0	1	HARVARD ST	RAITT ST	10/19/2007
3415493	-117.887244	33.71941	0	1	SAINT GERTRUDE PL	POPLAR	10/18/2007
3423751	-117.929813	33.745106	1	0	1ST ST	NEWHOPE ST	10/17/2007
3436878	-117.875452	33.739414	0	1	BISHOP ST	GARNSEY ST	10/23/2007
3437247	-117.883837	33.739971	0	1	BISHOP ST	MAGNOLIA AV	10/21/2007
3441670	-117.862262	33.74334	0	1	S OAK ST	PINE ST	11/14/2007
3442914	-117.906792	33.734486	0	1	FAIRVIEW AV	MCFADDEN	10/25/2007
3445510	-117.864975	33.745525	0	1	1ST ST	SPURGEON ST	10/14/2007
3445559	-117.899263	33.755756	0	1	WASHINGTON	KING	8/2/2007
3448199	-117.882969	33.734455	0	1	MCFADDEN AV	BAKER ST	10/30/2007
3448681	-117.870972	33.747135	0	1	3RD AV	BIRCH ST	11/5/2007
3470830	-117.919752	33.705624	0	1	HARBOR BL	GARRY AV	11/13/2007
3477877	-117.860972	33.742535	0	1	CHESTNUT AV	HICKORY ST	11/8/2007
3477889	-117.867602	33.755646	0	1	MAIN ST	WASHINGTON AV	11/7/2007
3486360	-117.920152	33.738083	0	1	HARBOR BL	MCFADDEN AV	11/5/2007
3490353	-117.895422	33.735561	0	1	TOWNSEND ST	MCFADDEN AV	11/17/2007
3495871	-117.858973	33.745583	0	1	1ST ST	GARFIELD	11/22/2007
3495875	-117.915739	33.740589	0	1	JACKSON ST	CAMILLE ST	11/28/2007

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CASEID	POINT_X	POINT_Y	KILLED	INJURED	PRIMARYRD	SECONDRD	DATE_
3495903	-117.884832	33.775944	0	1	BRISTOL ST	RIVERGLEN	11/23/2007
3495919	-117.885985	33.752647	0	1	9TH ST	BRISTOL ST	11/28/2007
3501088	-117.921725	33.738655	0	1	DENNIS ST	MCFADDEN AV	11/30/2007
3510695	-117.867632	33.750553	0	1	CIVIC CENTER DR	MAIN ST	12/5/2007
3510719	-117.897184	33.759865	0	1	17TH ST	ENGLISH ST	12/5/2007
3513351	-117.872509	33.758915	0	1	16TH ST	ROSS ST	12/6/2007
3517276	-117.894618	33.696354	0	1	WAKEHAM PL	BEAR ST	11/29/2007
3521811	-117.915802	33.746841	0	1	JACKSON ST	1ST ST	12/10/2007
3527932	-117.835808	33.770039	1	0	TUSTIN AV	FRANZEN AV	11/23/2007
3553588	-117.89876	33.71489	0	1	W FLORA	CENTER	12/21/2007
3553613	-117.891583	33.759937	0	1	17TH ST	COLLEGE AV	12/28/2007
3565154	-117.850412	33.733646	0	1	MCFADDEN AV	GRAND AV	1/4/2008
3567383	-117.886992	33.734444	0	1	MCFADDEN AV	GRAHAM LN	1/7/2008
3596008	-117.885522	33.699924	0	1	MACARTHUR	BRISTOL	1/24/2008
3596016	-117.885014	33.760044	0	1	BRISTOL	17TH ST	1/23/2008
3596071	-117.868022	33.712704	0	1	CENTRAL AV	MAIN ST S	1/28/2008
3596079	-117.911602	33.759785	0	1	17TH ST	CLINTON	1/26/2008
3613145	-117.933382	33.738186	0	1	MCFADDEN AV	FLINTRIDGE DR	1/16/2008
3613197	-117.863623	33.722404	0	1	SAINT ANDREW	ROUSSELLE	1/18/2008
3615559	-117.865182	33.759964	0	1	17TH ST	SPURGEON ST	7/8/2008
3620660	-117.867636	33.747948	0	2	MAIN ST	4TH ST	2/5/2008
3620687	-117.868802	33.737106	0	1	SYCAMORE ST	HIGHLAND ST	2/5/2008
3620703	-117.876478	33.759758	0	1	FLOWER AV	17TH ST	2/5/2008
3629577	-117.894082	33.727203	0	1	EDINGER AV	RAITT ST	2/7/2008
3630000	-117.867752	33.735813	0	1	MAIN ST	CUBBON ST	2/7/2008
3633247	-117.869822	33.739456	0	1	BROADWAY	BISHOP ST	2/9/2008
3634115	-117.895769	33.748745	0	1	5TH	TOWNSEND	2/15/2008
3634127	-117.835771	33.76712	0	1	TUSTIN AV	SANTA CLARA	2/15/2008
3642744	-117.885192	33.747063	0	1	BRISTOL ST	3RD ST	2/26/2008
3646342	-117.870234	33.748062	0	1	4TH ST	BROADWAY	2/18/2008
3665054	-117.867632	33.748032	0	1	MAIN ST	4TH ST	2/28/2008
3665066	-117.881901	33.727974	0	1	ROSEWOOD AV	EDINGER AV	2/27/2008
3665104	-117.889493	33.754223	0	1	11TH ST	PACIFIC AV	2/12/2008
3665451	-117.885192	33.74789	0	1	BRISTOL ST	SANTA ANA BL	3/2/2008
3672442	-117.842662	33.733753	0	1	MCFADDEN AV	MANTLE LN	4/2/2008
3673459	-117.904193	33.727283	1	0	EDINGER AV	SULLIVAN ST	1/25/2008
3673554	-117.842124	33.709572	0	1	CARNEGIE AV	RED HILL AV	3/14/2008
3673557	-117.873497	33.730377	0	1	VAN NESS	WILSHIRE	3/22/2008
3673597	-117.864083	33.727146	0	1	EDINGER AV	MAPLE ST	3/10/2008
3675552	-117.905742	33.759815	0	1	WEST 17TH ST	N MAR LES DR	3/13/2008
3681387	-117.88329	33.734459	0	1	MCFADDEN AV	BAKER ST	3/19/2008
3681406	-117.894032	33.734455	0	1	RAITT ST	MCFADDEN AV	3/17/2008
3681411	-117.869762	33.747135	0	1	BROADWAY	3RD ST	3/19/2008
3681438	-117.877662	33.717945	0	1	ANAHURST PL	OLIVE ST	3/17/2008
3702636	-117.845712	33.755215	0	1	CONCORD ST	WELLINGTON AV	4/16/2008
3711619	-117.889158	33.751476	0	1	CIVIC CENTER DR	PACIFIC AV	4/28/2008
3711643	-117.851522	33.767204	0	1	SANTA CLARA AV	GRAND AV	4/29/2008
3712866	-117.917402	33.745186	0	1	1ST ST	GUNTHER ST	4/6/2008
3713604	-117.868225	33.702656	0	2	COLUMBINE AV	MAIN ST	4/12/2008
3713616	-117.850622	33.714016	0	1	BROOKHOLLOW DR	GRAND AV	4/11/2008
3713624	-117.868032	33.708355	0	1	MAIN ST	DYER RD	4/21/2008
3750303	-117.874679	33.757542	0	1	PARTON ST	15TH ST	5/12/2008
3752988	-117.896692	33.753445	0	1	ENGLISH ST	10TH ST	5/9/2008
3752996	-117.835042	33.759838	0	1	17TH ST	TUSTIN	5/22/2008
3755869	-117.850303	33.743851	0	1	MCCLAY ST	1ST ST	5/30/2008
3760359	-117.891173	33.754211	0	1	11TH ST	RAITT ST	5/2/2008
3760379	-117.906753	33.734516	0	2	MCFADDEN AV	FAIRVIEW ST	5/4/2008
3763416	-117.894102	33.727203	0	1	EDINGER	RAITT	5/12/2008
3763546	-117.834292	33.755184	0	1	TUSTIN AV	WELLINGTON AV	5/14/2008
3768188	-117.896668	33.745342	0	1	1ST ST	TOWNSEND ST	6/6/2008
3768228	-117.856169	33.733593	0	1	MCFADDEN	STANDARD	6/7/2008

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CASEID	POINT_X	POINT_Y	KILLED	INJURED	PRIMARYRD	SECONDRD	DATE_
3777709	-117.885182	33.744511	0	1	BRISTOL ST	WALNUT ST	5/28/2008
3779188	-117.915762	33.742882	0	1	JACKSON ST	PINE	4/10/2008
3779404	-117.840142	33.776595	0	1	RT 22	TUSTIN AV	5/15/2008
3780522	-117.887697	33.74448	0	1	WALNUT ST	PACIFIC AV	5/4/2008
3781634	-117.902179	33.745289	0	1	1ST ST	SULLIVAN ST	5/6/2008
3781654	-117.840828	33.758957	0	1	16TH ST	CABRILLO PARK DR	5/22/2008
3781715	-117.90786	33.715202	0	1	W WARNER	FAIRVIEW	5/25/2008
3781730	-117.872502	33.747124	0	1	ROSS ST	3RD ST	5/21/2008
3797048	-117.893162	33.745377	0	1	1ST ST	RAITT	6/6/2008
3834927	-117.87654	33.746578	0	1	FLOWER	3RD ST	6/18/2008
3837883	-117.867662	33.745415	1	0	MAIN ST	1ST ST	6/29/2008
3844618	-117.851209	33.744129	0	1	GRAND AV	WALNUT ST	9/4/2008
3862793	-117.876424	33.745525	0	1	1ST ST	FLOWER	7/6/2008
3862974	-117.869955	33.722191	0	1	BROADWAY ST	SAINT ANDREW PL	7/4/2008
3863034	-117.868712	33.745415	0	1	SYCAMORE ST	1ST ST	7/8/2008
3863503	-117.858774	33.759926	0	2	17TH ST	FAIRMONT	8/6/2008
3864523	-117.868672	33.759968	0	1	SYCAMORE ST	17TH ST	7/28/2008
3874410	-117.937505	33.743614	0	1	HENDERSON PL	EUCLID	9/17/2008
3874414	-117.864582	33.748024	0	1	4TH ST	FRENCH ST	9/16/2008
3874425	-117.860638	33.745575	0	1	1ST ST	LACY ST	9/18/2008
3874445	-117.862022	33.713871	0	1	CENTRAL AV	MEASOR ST	9/15/2008
3874449	-117.869752	33.745396	0	1	BROADWAY	1ST ST	9/16/2008
3874855	-117.854402	33.759895	0	1	17TH ST	LINCOLN AV	8/1/2008
3886370	-117.873008	33.755764	0	1	WASHINGTON	ROSS	8/10/2008
3892909	-117.864461	33.745415	0	3	1ST ST	ORANGE ST	8/30/2008
3892957	-117.885448	33.710007	0	1	BRISTOL ST	HEMLOCK WY	8/30/2008
3893179	-117.899448	33.72541	0	1	POMONA ST	DIAMOND ST	9/2/2008
3904478	-117.902552	33.728767	0	1	SULLIVAN ST	BORCHARD AV	6/10/2008
3912609	-117.861638	33.745434	0	1	1ST ST	OAK	8/17/2008
3918158	-117.898451	33.715614	0	1	CENTER ST	WARNER AV	8/31/2008
3925830	-117.861606	33.742535	0	1	CHESTNUT AV	OAK ST	8/26/2008
3935998	-117.882039	33.712543	0	1	CENTRAL AV	SHELTON ST	9/5/2008
3939019	-117.899337	33.721764	0	1	GLENWOOD PL	HARVARD ST	9/25/2008
3960603	-117.858742	33.724239	0	1	CEDAR ST	OCCIDENTAL ST	7/18/2008
3960639	-117.87475	33.761772	0	1	19TH ST	HELIOTROPE DR	7/19/2008
3964175	-117.865572	33.749725	0	2	NORTH SPURGEON	SANTA ANA BL	9/27/2008
3964220	-117.856506	33.755665	0	1	WASHINGTON AV	LINCOLN AV	9/26/2008
3967982	-117.864819	33.745411	0	2	1ST ST	ORANGE AV	10/9/2008
3977581	-117.864516	33.755402	0	1	FRENCH ST	WASHINGTON AV	10/4/2008
3977651	-117.905313	33.745251	0	1	1ST ST	FAIRVIEW	9/30/2008
3977659	-117.876548	33.735386	0	1	CUBBON ST	FLOWER ST	9/30/2008
3980250	-117.868682	33.750595	0	1	CIVIC CENTER DR	SYCAMORE ST	10/14/2008
3980317	-117.850302	33.745445	0	2	MCCLAY ST	1ST ST	10/11/2008
3982744	-117.889755	33.73671	0	1	BROOK ST	WISTERIA PL	9/14/2008
3993529	-117.876562	33.753685	0	1	FLOWER AV	10TH ST	11/17/2008
3993557	-117.880331	33.760143	0	1	TOWNER LN	17TH ST	11/20/2008
3993569	-117.907652	33.723454	0	2	FAIRVIEW ST	CENTENNIAL RD	11/21/2008
3994910	-117.902576	33.745285	0	1	1ST ST	SULLIVAN ST	11/15/2008
3994918	-117.867632	33.750603	0	1	MAIN ST	CIVIC CENTER DR	11/21/2008
4011503	-117.850412	33.733646	0	1	MCFADDEN	GRAND	11/26/2008
4015088	-117.943689	33.737991	1	0	MCFADDEN AV	SAIL ST	10/25/2008
4021635	-117.867622	33.749725	0	1	SANTA ANA BL	MAIN ST	12/17/2008
4028960	-117.868012	33.712704	0	1	MAIN ST	CENTRAL AV	11/7/2008
4039720	-117.9082	33.718117	0	1	FAIRVIEW	ANAHURST PL	1/13/2009
4043297	-117.868747	33.742927	0	1	SYCAMORE ST	CHESTNUT AV	2/22/2009
4051144	-117.851882	33.754204	0	1	SANTA ANA BL	GRAND AV	12/16/2008
4052058	-117.867962	33.716003	0	1	MAIN ST	WARNER AV	12/23/2008
4057491	-117.865222	33.729874	0	1	HOBART ST	ORANGE AV	12/12/2008
4060787	-117.901415	33.731544	0	1	GOLDEN WEST ST	WILSHIRE AV	11/28/2008
4065059	-117.850696	33.745441	0	1	E 1ST ST	MCCLAY ST	12/31/2008
4069558	-117.876522	33.745525	0	1	1ST ST	FLOWER ST	11/11/2008

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4069582	-117.937562	33.748714	0	1	5TH ST	EUCLID ST	11/19/2008
4077453	-117.856932	33.745445	0	1	1ST ST	STANDARD AV	12/11/2008
4077489	-117.834192	33.752796	0	1	TUSTIN AV	FRUIT ST	12/9/2008
4077530	-117.864132	33.727146	0	1	EDINGER AV	MAPLE ST	12/8/2008
4077534	-117.934586	33.75967	0	2	WESTMINSTER AV	LA BONITA AV	12/1/2008
4078774	-117.8504	33.73364	0	1	MCFADDEN AV	GRAND AV	1/2/2009
4084017	-117.8704	33.70878	0	1	DYER RD	SYCAMORE ST	1/25/2009
4092424	-117.8679	33.71969	0	1	MAIN ST	SAINT GERTRUDE PL	1/9/2009
4092467	-117.89668	33.75576	0	1	WASHINGTON AV	ENGLISH ST	1/14/2009
4097434	-117.915723	33.745195	0	1	1ST ST	JACKSON ST	1/12/2009
4097438	-117.86867	33.75059	0	1	CIVIC CENTER DR	SYCAMORE ST	1/12/2009
4099124	-117.920365	33.758673	0	1	CENTURY BL	HARBOR BL	1/12/2009
4111202	-117.884986	33.760124	0	1	17TH ST	BRISTOL ST	4/23/2008
4111242	-117.867632	33.751415	0	1	MAIN ST	8TH ST	5/25/2008
4111592	-117.86531	33.71599	0	1	ORANGE AV	WARNER AV	1/22/2009
4125550	-117.992351	33.808365	0	1	MAIN ST	CHESTNUT AV	4/18/2009
4130453	-117.898639	33.748745	0	1	5TH ST	HAWLEY ST	1/17/2009
4130645	-117.90784	33.69983	0	1	MACARTHUR BL	FAIRVIEW ST	1/23/2009
4130653	-117.879782	33.729249	0	1	TOWNER ST	BORCHARD AV	1/25/2009
4134416	-117.868812	33.73266	0	1	SYCAMORE ST	RUSSELL AV	2/3/2009
4134444	-117.872577	33.707431	0	1	CARRIAGE DR	BRADFORD	2/2/2009
4134452	-118.493768	34.015216	0	1	4TH ST	BROADWAY	2/3/2009
4136318	-117.888519	33.751475	0	1	CIVIC CENTER DR	PACIFIC	1/30/2009
4138584	-117.87251	33.75576	0	2	ROSS ST	WASHINGTON AV	1/30/2009
4139526	-117.865182	33.731678	0	2	ORANGE AV	OXFORD ST	2/12/2009
4139542	-117.907862	33.72353	0	1	CENTENNIAL RD	FAIRVIEW ST	2/12/2009
4139565	-117.88081	33.73723	0	1	SHELTON ST	HIGHLAND ST	2/4/2009
4140809	-117.841697	33.759877	0	1	17TH ST	SHERRY LN	2/27/2009
4140810	-118.484439	34.008291	0	1	5TH ST	PACIFIC AV	2/19/2009
4140834	-118.48036	34.0258	0	1	BROADWAY	18TH ST	2/25/2009
4161824	-117.86989	33.72518	0	1	BROADWAY	POMONA	3/7/2009
4164771	-117.84501	33.74544	0	1	LYON ST	1ST ST	3/14/2009
4164783	-117.85928	33.71385	0	1	HALLADAY ST	CENTRAL AV	3/12/2009
4170331	-117.83436	33.75983	0	1	17TH ST	TUSTIN AV	3/13/2009
4179276	-117.902775	33.727293	0	1	EDINGER	SULLIVAN ST	3/20/2009
4179325	-117.857122	33.755665	0	1	WASHINGTON ST	LOGAN ST	3/24/2009
4181058	-118.49359	34.01507	0	1	BROADWAY ST	4TH ST	3/26/2009
4181074	-119.459414	35.140203	0	1	5TH ST	MAIN ST	3/27/2009
4183042	-117.870749	33.7454	0	1	1ST ST	BIRCH ST	3/30/2009
4189727	-118.006903	33.736029	0	1	GOLDENWEST ST	MCFADDEN	3/23/2009
4189999	-118.482	34.025626	0	1	17TH ST	BROADWAY	4/2/2009
4197642	-117.85916	33.74807	0	3	GARFIELD	4TH ST	3/24/2009
4202284	-117.92038	33.759704	1	0	HARBOR BL	WESTMINSTER AV	1/13/2009
4202288	-117.915838	33.745195	1	0	1ST ST	JACKSON ST	4/11/2009
4207128	-117.91576	33.74519	0	1	1ST ST	JACKSON	3/21/2009
4207996	-117.93755	33.74871	0	1	NORTH EUCLID	5TH ST	4/16/2009
4230733	-117.88511	33.74966	0	1	BRISTOL ST	6TH ST	4/21/2009
4230745	-117.920175	33.741092	0	1	SOUTH HARBOR BL	CAMILE ST	4/24/2009
4234101	-117.863185	33.759955	0	1	EAST 17TH ST	FRENCH ST	4/19/2009
4234121	-117.90764	33.72345	0	1	FAIRVIEW AV	SAINT ANDREW	4/20/2009
4234149	-117.909019	33.739863	0	1	RAYMAR ST	MOHAWK DR	4/23/2009
4241186	-117.92003	33.74515	0	1	1ST ST	HARBOR BL	4/27/2009
4245125	-117.928851	33.747325	1	1	NEWHOPE ST	1ST ST	2/1/2009
4248419	-117.937342	33.73277	0	2	EUCLID ST	LEHNHARDT AV	5/6/2009
4248435	-117.874846	33.7579	0	1	15TH ST	PARTON ST	5/6/2009
4254691	-117.877103	33.745525	0	1	1ST ST	FLOWER ST	5/12/2009
4255131	-117.867558	33.717865	0	1	ANAHURST PL	MAIN ST	5/9/2009
4255472	-117.90787	33.70878	0	1	SEGERSTROM AV	FAIRVIEW ST	5/14/2009
4265549	-122.02351	36.96642	0	1	3RD ST	MAIN ST	5/19/2009
4266493	-117.860555	33.738885	0	1	HICKORY ST	BISHOP ST	5/24/2009
4266726	-117.85623	33.75991	0	5	17TH ST	LINCOLN AV	6/7/2009

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4292897	-117.873592	33.716081	0	1	WARNER AV	PARTON ST	6/10/2009
4297924	-117.86642	33.74539	0	1	1ST ST	CYPRESS AV	6/3/2009
4298017	-117.85594	33.684942	0	1	MACARTHUR BL	MAIN ST	6/11/2009
4298660	-117.893817	33.73711	0	1	RAITT ST	WISTERIA PL	6/5/2009
4302154	-117.868062	33.706519	1	0	MAIN ST	GARRY AV	4/18/2009
4305698	-117.868253	33.745515	0	1	1ST ST	MAIN ST	6/13/2009
4305710	-117.895333	33.727515	0	1	TOWNSEND ST	EDINGER AV	6/22/2009
4305722	-117.91664	33.71389	0	1	WARNER AV	YALE ST	6/25/2009
4305723	-117.917981	33.74721	0	2	BEWLEY ST	5TH ST	6/24/2009
4305738	-117.879345	33.746239	0	1	2ND ST	SHELTON ST	6/13/2009
4307872	-117.863484	33.729895	0	1	HOBART ST	OAK ST	7/2/2009
4316118	-118.493258	34.014779	0	1	4TH	BROADWAY	6/19/2009
4323067	-117.917325	33.741351	0	1	GUNTHER PL	CAMILLE ST	7/4/2009
4323139	-117.86523	33.75783	0	2	SPURGEON ST	15TH ST	7/6/2009
4339430	-121.951	37.35874	0	2	WASHINGTON AV	MAIN ST	7/13/2009
4349714	-117.868917	33.721064	0	1	SYCAMORE	SAINT ANDREW PL	7/25/2009
4349718	-117.92901	33.75755	0	1	SUNSWEEP AV	NEWHOPE	7/25/2009
4349722	-117.87243	33.74552	0	1	1ST ST	ROSS	7/18/2009
4349777	-117.88884	33.69994	0	1	MACARTHUR BL	PLAZA DR	7/28/2009
4349984	-117.867474	33.749725	0	3	SANTA ANA BL	MAIN	7/20/2009
4349988	-118.49265	34.01584	0	1	BROADWAY	5TH ST	7/27/2009
4349996	-117.848048	33.747768	0	1	EASTSIDE AV	4TH ST	9/24/2009
4354503	-118.483211	34.023503	0	1	15TH ST	BROADWAY	7/31/2009
4368015	-117.905522	33.733672	0	1	LINGAN LN	MARINE ST	8/12/2009
4368277	-117.842226	33.713933	0	1	PULLMAN ST	WARNER AV	8/7/2009
4368281	-117.847662	33.753035	0	2	GRAND AV	RT 5	8/19/2009
4368293	-117.85621	33.7585	0	1	DORMAN ST	LINCOLN AV	8/18/2009
4369308	-117.888223	33.719926	0	1	PACIFIC AV	SAINT GERTRUDE PL	8/5/2009
4372040	-117.920271	33.749443	0	1	HARBOR BL	5TH ST	8/16/2009
4373139	-117.899689	33.753403	0	1	10TH ST	HAWLEY ST	8/22/2009
4374776	-117.855562	33.704635	0	1	RT 55	DYER RD	8/17/2009
4381198	-117.885133	33.760123	0	1	17TH ST	BRISTOL ST	8/31/2009
4389674	-118.069526	33.716284	0	1	PACIFICA AV	10TH ST	8/17/2009
4400977	-117.885151	33.727155	0	1	EDINGER AV	BRISTOL ST	9/9/2009
4410714	-118.48792	34.01967	0	1	BROADWAY AV	10TH ST	9/11/2009
4411309	-117.836756	33.767146	0	1	SANTA CLARA AV	TUSTIN AV	9/1/2009
4412679	-119.46089	35.14062	0	1	MAIN ST	16TH ST	8/7/2009
4415987	-116.871497	33.051198	0	1	POPLAR ST	PINE ST	9/12/2009
4421786	-117.901157	33.724289	0	1	GREENVILLE ST	OCCIDENTAL ST	9/17/2009
4421919	-117.871214	33.755764	0	1	WASHINGTON ST	DURANT ST	9/21/2009
4431384	-117.893469	33.77111	0	1	SHARON RD	TOWNLEY ST	9/15/2009
4432342	-117.87363	33.75365	0	1	VAN NESS AV	10TH ST	10/2/2009
4439487	-117.903327	33.72729	0	1	EDINGER AV	FAIRVIEW ST	9/21/2009
4439557	-121.94892	37.35496	0	1	CIVIC CENTER DR	MAIN ST	9/25/2009
4439565	-117.86637	33.75996	0	2	17TH ST	BUSH ST	9/25/2009
4456656	-117.8828	33.7454	0	1	BAKER ST	21ST ST	10/12/2009
4456660	-117.872573	33.760641	0	1	ROSS ST	17TH ST	10/9/2009
4456725	-117.89652	33.71193	0	1	ADAMS ST	ARTESIA ST	9/21/2009
4456749	-118.49359	34.01507	0	1	4TH ST	BROADWAY	10/7/2009
4456778	-117.919653	33.756197	0	1	WASHINGTON AV	HARBOR	10/10/2009
4456795	-117.867355	33.772884	0	1	MAIN ST	MAINPLACE DR	10/23/2009
4463236	-117.884903	33.773086	0	1	MEMORY LN	BRISTOL ST	10/6/2009
4468820	-117.88519	33.74547	0	1	1ST ST	BRISTOL ST	11/3/2009
4468986	-117.86978	33.75124	0	1	CIVIC CENTER DR	BROADWAY	10/23/2009
4468994	-117.91979	33.70862	0	1	HARBOR BL	SEGERSTROM AV	10/26/2009
4469468	-117.886546	33.773191	1	0	MEMORY LN	PACIFIC AV	9/13/2009
4477238	-117.856442	33.735313	0	1	STANDARD	NORMANDY AV	11/5/2009
4479593	-117.915788	33.740834	0	1	CAMILLE ST	JACKSON ST	10/22/2009
4479604	-117.869833	33.727145	0	1	EDINGER AV	BROADWAY	10/22/2009
4479644	-117.88208	33.6666	0	1	SANTA ANA BL	BRISTOL ST	10/25/2009
4479654	-117.831812	33.753015	0	1	4TH ST	RT 55	10/23/2009

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4490465	-117.850319	33.744623	0	1	MCCLAY ST	1ST ST	11/28/2009
4490702	-117.861945	33.751772	0	1	LACY ST	CIVIC CENTER DR	11/8/2009
4490718	-117.85023	33.73845	0	2	HUNTER AV	GRAND AV	11/2/2009
4490762	-117.840682	33.749851	0	1	CABRILLO PARK DR	PARK COURT PL	11/9/2009
4490932	-117.885113	33.734446	0	1	BRISTOL ST	MCFADDEN AV	10/28/2009
4504059	-117.861328	33.730792	0	1	KILSON DR	HOBART ST	11/15/2009
4504079	-117.8596	33.74448	0	1	WALNUT ST	HALLADAY ST	11/14/2009
4506297	-117.884707	33.72711	0	1	EDINGER AV	BRISTOL ST	12/3/2009
4524288	-117.88519	33.74547	0	1	1ST ST	BRISTOL	11/23/2009
4526064	-117.886205	33.7376	0	1	HESPERIAN ST	TOLLIVER ST	12/4/2009
4527372	-117.972002	33.716303	0	1	MAGNOLIA	WARNER	11/14/2009
4527426	-117.887332	33.722452	0	1	POPLAR ST	CARLTON PL	12/3/2009
4531903	-117.831089	33.768735	1	0	RT 55	SANTA CLARA AV	10/6/2009
4535946	-117.92003	33.74515	0	1	1ST ST	HARBOR BL	12/13/2009
4535970	-117.85659	33.71595	0	1	STANDARD AV	WARNER AV	12/16/2009
4535998	-117.866602	33.747913	0	1	BUSH ST	4TH ST	12/19/2009
4536248	-117.89385	33.73835	0	1	RAITT	RICHLAND AV	12/11/2009
4536276	-117.90257	33.73448	0	1	MCFADDEN AV	SULLIVAN ST	12/12/2009
4536533	-117.894098	33.734455	0	1	MCFADDEN AV	RAITT ST	12/18/2009
4536537	-117.889935	33.733644	0	1	SPRUCE ST	LINGAN LN	12/17/2009
4553101	-119.45942	35.14016	0	1	15TH ST	MAIN ST	12/26/2009
4559401	-117.850838	33.748065	0	1	4TH ST	GRAND	12/7/2009
4561414	-117.863171	33.754577	1	0	WELLINGTON AV	LACY ST	10/31/2009
4561859	-117.851854	33.745337	0	1	GRAND AV	1ST ST	1/2/2010
4561863	-117.937692	33.759645	0	1	WESTMINSTER AV	EUCLID ST	1/20/2010
4561878	-117.907911	33.699834	0	2	MACARTHUR BL	FAIRVIEW	1/20/2010
4561886	-117.842816	33.735059	0	1	MANTLE LN	MCFADDEN AV	1/22/2010
4565972	-117.89036	33.759961	0	1	17TH ST	COLLEGE AV	1/19/2010
4571495	-117.885092	33.751545	0	1	BRISTOL ST	CIVIC CENTER DR	1/28/2010
4571515	-117.905144	33.715345	0	1	WARNER AV	EVERGLADE ST	1/28/2010
4579054	-117.899581	33.739875	0	1	WILLITS ST	DIAMOND ST	1/9/2010
4586804	-117.862711	33.763209	0	1	VALENCIA AV	20TH ST	1/11/2010
4586808	-117.898182	33.734465	0	1	MCFADDEN AV	CENTER ST	1/13/2010
4586820	-117.9063	33.727332	0	1	EDINGER AV	FAIRVIEW ST	1/11/2010
4586828	-117.915756	33.745195	0	1	1ST ST	JACKSON ST	1/14/2010
4586944	-117.92875	33.7408	0	1	NEWHOPE ST	CAMILLE ST	12/7/2009
4598051	-117.869507	33.755645	0	1	WASHINGTON AV	BROADWAY ST	1/27/2010
4600792	-117.907902	33.710811	0	1	FAIRVIEW AV	SEGERSTROM AV	2/10/2010
4600796	-117.894006	33.734455	0	2	MCFADDEN AV	RAITT ST	2/10/2010
4600800	-117.937582	33.752338	0	1	EUCLID ST	HAZARD AV	2/10/2010
4602745	-117.928439	33.732936	0	2	REGENT DR	NEWHOPE ST	2/1/2010
4613970	-117.885562	33.694315	0	2	BRISTOL ST	BRISTOL PLZ	2/7/2010
4617754	-117.863342	33.745425	0	1	1ST ST	MAPLE ST	3/12/2010
4621846	-117.887207	33.732297	0	1	POPLAR ST	DAHL LN	2/26/2010
4621878	-117.903304	33.734487	0	1	MCFADDEN AV	SULLIVAN ST	2/26/2010
4625403	-117.888352	33.727185	0	2	EDINGER AV	PACIFIC AV	3/12/2010
4634292	-117.884862	33.766855	0	2	SANTA CLARA	BRISTOL ST	2/16/2010
4634296	-117.885152	33.737725	0	1	TOLLIVER ST	BRISTOL ST	2/16/2010
4634987	-117.872942	33.708875	0	1	DYER RD	BRADFORD PL	2/16/2010
4636664	-117.887529	33.768672	0	1	PACIFIC AV	RIVIERA DR	3/3/2010
4638221	-117.865322	33.715995	0	1	WARNER AV	ORANGE AV	3/2/2010
4647661	-117.937582	33.752401	0	1	EUCLID ST	HAZARD AV	3/16/2010
4655037	-117.902602	33.745285	0	1	1ST ST	SULLIVAN ST	3/22/2010
4659620	-117.869762	33.746275	0	1	2ND ST	BROADWAY	2/26/2010
4661049	-117.851862	33.745405	0	1	GRAND AV	1ST ST	3/23/2010
4664855	-117.894032	33.734455	0	1	MCFADDEN AV	RAITT ST	3/15/2010
4666848	-117.869722	33.760005	0	1	17TH ST	BROADWAY	4/12/2010
4678687	-117.885563	33.760117	0	1	17TH ST	BRISTOL ST	4/1/2010
4679160	-117.865142	33.739455	0	1	BISHOP ST	ORANGE AV	3/30/2010
4717153	-117.896104	33.715017	0	1	RAITT ST	WARNER AV	5/1/2010
4726412	-117.918628	33.756205	0	1	WASHINGTON AV	BEWLEY ST	4/29/2010

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CASEID	POINT_X	POINT_Y	KILLED	INJURED	PRIMARYRD	SECONDRD	DATE_
4726432	-117.870702	33.751585	0	1	CIVIC CENTER DR	BIRCH ST	4/28/2010
4726444	-117.891705	33.759935	0	2	17TH ST	COLLEGE AV	4/29/2010
4726459	-117.896692	33.759875	0	1	ENGLISH ST	17TH ST	4/20/2010
4726475	-117.888193	33.747899	0	1	SANTA ANA BL	PACIFIC	4/16/2010
4726478	-117.856962	33.743083	0	1	STANDARD AV	PINE ST	4/30/2010
4736764	-117.906527	33.698469	0	1	ORION AV	MARINE ST	6/17/2010
4740936	-117.903504	33.745264	0	1	1ST ST	SULLIVAN	5/7/2010
4740971	-117.897512	33.759861	0	1	17TH ST	ENGLISH ST	3/28/2010
4752241	-117.885142	33.739977	0	3	BRISTOL ST	BISHOP ST	3/25/2011
4752313	-117.88553	33.70368	0	1	ALTON AV	BRISTOL ST	3/25/2011
4759597	-117.901593	33.748704	0	1	5TH ST	NANTUCKET PL	4/26/2010
4763489	-117.867622	33.749878	0	1	MAIN ST	SANTA ANA BL	6/10/2010
4764797	-117.865182	33.759965	0	1	17TH ST	SPURGEON ST	6/18/2010
4768534	-117.885337	33.715437	0	1	BRISTOL ST	WARNER AV	6/28/2010
4769208	-117.862262	33.754735	0	1	GARFIELD ST	WELLINGTON ST	6/26/2010
4769248	-117.884084	33.730566	0	1	MAGNOLIA AV	WILSHIRE AV	6/30/2010
4784759	-117.839226	33.745615	0	1	1ST ST	GOLDEN CIRCLE DR	5/13/2010
4786009	-117.895246	33.745358	0	1	1ST ST	DAISY AV	6/2/2010
4789478	-117.85593	33.737295	0	1	MINNIE ST	WAKEHAM AV	6/10/2010
4789853	-117.894012	33.744024	0	1	FRANKLIN ST	WALNUT ST	6/10/2010
4789885	-117.899281	33.757581	0	1	KING ST	14TH ST	6/5/2010
4789897	-117.842938	33.747701	0	1	4TH ST	RT 5	6/6/2010
4804382	-117.878515	33.745515	0	1	1ST ST	OLIVE ST	6/14/2010
4807227	-117.921	33.748898	0	1	5TH ST	HARBOR	7/4/2010
4808001	-117.901666	33.728821	0	1	W BORCHARD	S SULLIVAN	7/11/2010
4819055	-117.920267	33.749194	0	1	HARBOR BL	5TH ST	7/16/2010
4822178	-117.920092	33.734645	0	1	HARBOR BL	KENT AV	7/28/2010
4823358	-117.864005	33.758492	0	1	FRENCH ST	16TH ST	7/23/2010
4829017	-117.990042	33.808395	0	1	MAIN ST	SYCAMORE ST	7/21/2010
4829029	-117.867602	33.757561	0	1	MAIN ST	15TH ST	7/26/2010
4829979	-117.899492	33.753403	0	1	10TH ST	HAWLEY ST	7/17/2010
4834142	-117.885236	33.766755	0	1	SANTA CLARA AV	BRISTOL ST	8/4/2010
4834594	-117.920135	33.737178	0	1	HARBOR BL	MCFADDEN	7/30/2010
4838869	-117.869762	33.747102	0	1	BROADWAY	3RD ST	7/31/2010
4843642	-117.857638	33.725191	1	0	EVERGREEN	EDINGER	4/30/2010
4862424	-117.881842	33.732459	0	1	ROSEWOOD AV	RUSSELL ST	8/11/2010
4862428	-117.862494	33.713878	0	1	CENTRAL	MEASOR ST	8/13/2010
4862432	-117.86769	33.743483	0	2	MAIN ST	PINE ST	8/12/2010
4862475	-117.834372	33.759835	0	1	17TH ST	TUSTIN AV	8/10/2010
4876008	-117.868935	33.720078	0	1	SYCAMORE ST	ANAHURST ST	8/21/2010
4876016	-117.868842	33.728945	0	1	SYCAMORE ST	BORCHARD ST	8/18/2010
4879660	-117.895336	33.727751	0	1	TOWNSEND ST	EDINGER	8/25/2010
4882800	-117.888377	33.745426	0	1	1ST ST	PACIFIC AV	9/1/2010
4883217	-117.89485	33.721656	0	1	GLENWOOD PL	RAITT ST	8/14/2010
4889928	-117.856482	33.723725	0	1	STANDARD AV	OCCIDENTAL ST	9/12/2010
4889983	-117.937442	33.738164	0	1	MCFADDEN AV	EUCLID ST	9/30/2010
4898050	-117.898162	33.745325	1	0	1ST ST	CENTER ST	4/25/2010
4903270	-117.902552	33.728025	0	1	HOOD AV	SULLIVAN ST	10/2/2010
4904569	-117.885335	33.715876	0	1	SOUTH BRISTOL ST	WARNER AV	8/28/2010
4905244	-117.844932	33.742315	0	1	LYON ST	CHESTNUT AV	9/30/2010
4912333	-117.835772	33.767145	0	1	TUSTIN AV	SANTA CLARA AV	9/14/2010
4915908	-117.907365	33.736395	0	1	WISTERIA PL	HURON DR	9/23/2010
4915920	-117.902602	33.744188	0	2	SULLIVAN ST	1ST ST	9/14/2010
4916069	-117.866432	33.755635	0	1	WASHINGTON AV	BUSH ST	9/17/2010
4918185	-117.869752	33.745395	0	1	BROADWAY AV	1ST ST	9/22/2010
4918729	-117.885512	33.705375	0	1	GARRY AV	BRISTOL ST	9/18/2010
4922345	-117.867672	33.744399	0	1	MAIN ST	WALNUT ST	10/4/2010
4926096	-117.919836	33.713155	1	1	HARBOR BL	WARNER AV	9/1/2010
4926133	-117.920356	33.758923	1	0	HARBOR BL	17TH ST	10/15/2010
4926168	-117.902826	33.756201	1	0	FAIRVIEW AV	12TH ST	6/20/2010
4933025	-117.876522	33.745525	0	2	1ST ST	FLOWER ST	9/7/2010

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CASEID	POINT_X	POINT_Y	KILLED	INJURED	PRIMARYRD	SECONDRD	DATE_
4944485	-117.865322	33.715995	0	1	E WARNER AV	S ORANGE AV	10/12/2010
4948489	-117.864572	33.752307	0	2	FRENCH ST	9TH ST	10/17/2010
4948493	-117.844932	33.742315	0	1	CHESTNUT AV	LYON ST	10/19/2010
4964688	-117.856442	33.735107	0	1	STANDARD AV	NORMANDY PL	10/20/2010
4966107	-117.872521	33.749864	0	1	ROSS ST	SANTA ANA BL	11/11/2010
4970686	-117.868009	33.71291	0	2	MAIN ST	CENTRAL AV	10/7/2010
4971546	-117.880352	33.760115	0	1	17TH ST	TOWNER ST	11/23/2010
4971550	-117.872519	33.749713	0	1	ROSS ST	SANTA ANA BL	11/23/2010
4971597	-117.869742	33.748065	0	1	4TH ST	BROADWAY	11/22/2010
4978952	-117.937548	33.745044	0	2	WEST 1ST ST	EUCLID ST	11/13/2010
4980040	-118.032742	33.737185	0	1	MCFADDEN	GRAHAM	11/6/2010
4981321	-117.851357	33.733649	0	4	MCFADDEN AV	GRAND AV	10/20/2010
4982159	-117.937489	33.745045	0	1	FIRST ST	EUCLID	11/18/2010
4983281	-117.899532	33.739875	0	1	WILLITS ST	DIAMOND ST	12/8/2010
4990753	-117.919979	33.738954	1	0	HARBOR BL	MCFADDEN AV	2/5/2011
4995649	-117.867751	33.735798	0	1	MAIN ST	CUBBON ST	12/9/2010
4997110	-117.876532	33.749695	0	1	FLOWER AV	6TH ST	12/20/2010
5007045	-117.889326	33.733568	0	1	RENE DR	SPRUCE	12/27/2010
5007085	-117.868752	33.742475	0	1	CHESTNUT AV	SYCAMORE ST	12/28/2010
5007089	-117.872512	33.749055	0	1	SANTA ANA BL	ROSS ST	12/28/2010
5022700	-117.858621	33.753443	0	1	SANTIAGO ST	CIVIC CENTER DR	12/11/2010
5022825	-117.892282	33.707325	0	2	SEGERSTROM AV	BEAR ST	12/9/2010
5022849	-117.862607	33.743432	0	1	PINE ST	OAK ST	12/3/2010
5029347	-117.851811	33.763131	0	1	GRAND AV	21ST ST	12/24/2010
5029397	-117.867785	33.730861	0	1	MAIN ST	WILSHIRE AV	12/19/2010
5029411	-117.919376	33.738328	0	1	MCFADDEN	HARBOR	12/17/2010
5030640	-117.920305	33.753163	0	1	HARBOR BL	HAZARD AV	11/28/2010
5034559	-117.890998	33.761651	0	1	19TH ST	COLLEGE AV	12/1/2010
5034666	-117.906806	33.739897	0	4	FAIRVIEW ST	WILLITS ST	12/6/2010
5034680	-117.920292	33.751732	0	1	NORTH HARBOR BL	HAZARD	11/30/2010
5034690	-117.858922	33.777795	0	1	GRAND AV	RT 22	12/5/2010
5035046	-117.876446	33.759995	0	1	17TH ST	FLOWER	11/20/2010
5035050	-117.937655	33.757793	0	1	EUCLID ST	PROGRESSO ST	11/29/2010
5043325	-117.835882	33.733717	0	1	VILLAGE WY	MCFADDEN AV	1/10/2011
5043775	-117.862584	33.675273	0	1	AIRPORT WY	MICHELSON	1/22/2011
5051772	-117.920268	33.749717	0	1	HARBOR	5TH ST	9/9/2010
5063144	-117.860814	33.677743	0	1	AIRPORT WY	MICHELSON	1/15/2011
5068129	-117.885288	33.728645	0	2	BORCHARD AV	BRISTOL ST	1/12/2011
5069319	-117.938362	33.746952	0	1	3RD ST	EUCLID ST	1/19/2011
5069351	-117.90091	33.754185	0	1	11TH ST	KING ST	1/18/2011
5079675	-117.910481	33.734187	0	2	LINGAN LN	MOHAWK DR	1/18/2011
5079758	-117.953579	33.770455	0	1	CENTRAL AV	FLOWER ST	1/10/2011
5086530	-117.890771	33.728236	0	1	RENE DR	EDINGER AV	2/13/2011
5086914	-117.886893	33.748004	0	1	SANTA ANA BL	HESPERIAN ST	2/8/2011
5086918	-117.93741	33.73816	0	1	MCFADDEN AV	EUCLID ST	2/9/2011
5087607	-117.841757	33.726723	0	1	EDINGER AV	RITCHEY ST	1/20/2011
5087615	-117.86753	33.76255	0	2	MAIN ST	20TH ST	1/21/2011
5087631	-117.85185	33.7454	0	1	1ST ST	GRAND AV	1/20/2011
5090977	-117.86517	33.75996	0	1	17TH ST	SPURGEON ST	1/31/2011
5098303	-117.901944	33.759815	0	1	17TH ST	FAIRVIEW	2/20/2011
5109763	-117.929018	33.755354	0	1	MAURIE AV	NEWHOPE ST	2/28/2011
5111246	-117.84492	33.74231	0	1	CHESTNUT AV	LYON ST	2/12/2011
5115310	-117.87975	33.73266	0	1	RUSSELL AV	TOWNER ST	2/16/2011
5115521	-117.86769	33.73945	0	1	MAIN ST	BISHOP ST	2/10/2011
5127074	-117.902882	33.758068	0	1	FAIRVIEW ST	16TH ST	3/7/2011
5132216	-117.920042	33.745163	0	1	HARBOR BL	1ST ST	2/22/2011
5132763	-117.859027	33.733559	0	1	MCFADDEN AV	CEDAR ST	2/26/2011
5132790	-117.88313	33.730823	0	1	WILSHIRE AV	BAKER ST	2/8/2011
5133872	-117.879305	33.759995	0	1	17TH ST	FREEMAN ST	3/8/2011
5138380	-117.882512	33.711997	0	1	ROSEWOOD AV	CENTRAL AV	3/8/2011
5144758	-117.898162	33.734465	0	1	MCFADDEN AV	CENTER ST	3/12/2011

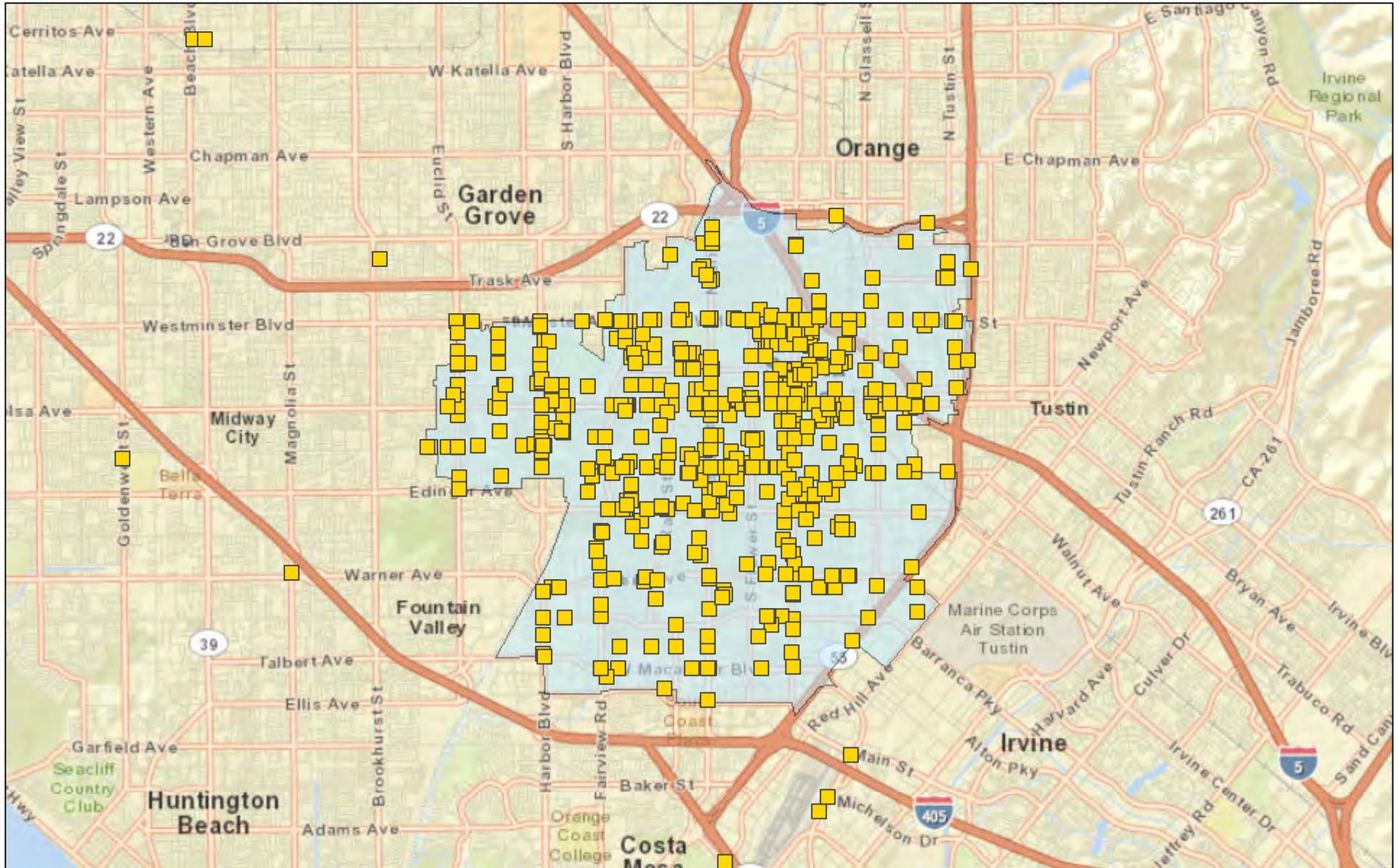
City of Santa Ana
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CASEID	POINT_X	POINT_Y	KILLED	INJURED	PRIMARYRD	SECONDRD	DATE_
5151438	-117.850251	33.741743	0	1	GRAND AV	CHESTNUT AV	3/16/2011
5154176	-117.872519	33.749695	0	1	ROSS ST	5TH ST	5/4/2011
5156721	-117.908596	33.72049	0	1	FAIRVIEW	HARVARD	3/22/2011
5156741	-117.889665	33.733436	0	1	RENE DR	SPRUCE ST	3/19/2011
5158767	-117.91796	33.746079	0	1	BEWLEY ST	1ST ST	4/2/2011
5162077	-117.875478	33.737115	0	1	HIGHLAND AV	FLOWER ST	3/29/2011
5163371	-117.92003	33.74515	0	1	HARBOR BL	1ST ST	4/17/2011
5169008	-117.87249	33.74807	0	1	ROSS ST	4TH ST	3/11/2011
5188512	-117.88519	33.74547	0	2	1ST ST	BRISTOL ST	4/16/2011
5188548	-117.846682	33.759925	0	1	17TH ST	WRIGHT ST	4/21/2011
5188882	-117.939672	33.745052	0	1	MAXINE ST	1ST ST	5/10/2011
5189507	-117.856274	33.715955	1	0	WARNER AV	STANDARD AV	4/22/2011
5196991	-117.885157	33.748923	0	1	BRISTOL ST	5TH ST	5/4/2011
5197551	-117.920182	33.742257	0	1	HARBOR BL	CAMILLE ST	4/15/2011
5198789	-117.866673	33.727155	0	1	EDINGER AV	CYPRESS AV	5/17/2011
5198793	-117.93757	33.75238	0	1	HAZARD AV	EUCLID ST	5/18/2011
5198797	-117.866976	33.747124	0	1	3RD ST	BUSH ST	5/18/2011
5226014	-117.844877	33.733736	0	1	MCFADDEN AV	S LYON ST	5/28/2011
5226261	-117.856602	33.715966	0	1	STANDARD AV	WARNER AV	6/3/2011
5232808	-117.844492	33.773316	0	1	CAMBRIDGE ST	FAIRHAVEN AV	6/16/2011
5232958	-117.873408	33.708882	0	1	DYER RD	BRADFORD PL	6/23/2011
5234066	-117.92776	33.74883	0	3	W 5TH ST	N MOUNTAIN VIEW	6/19/2011
5235788	-117.91995	33.73822	0	1	HARBOR BL	MCFADDEN AV	6/1/2011
5237933	-117.90861	33.72022	0	1	FAIRVIEW ST	HARVARD ST	6/9/2011
5238112	-117.888354	33.726979	0	1	PACIFIC AV	EDINGER AVE	7/16/2011
5243547	-117.86761	33.74972	0	1	MAIN ST	SANTA ANA BL	6/26/2011
5246602	-117.90626	33.72732	0	1	EDINGER AV	FAIRVIEW ST	6/24/2011
5246821	-117.83411	33.748136	0	1	4TH ST	TUSTIN AV	6/22/2011
5247090	-117.891643	33.759935	0	1	WEST 17TH ST	COLLEGE AV	7/9/2011
5247410	-117.937156	33.730846	0	1	EDINGER AV	EUCLID ST	6/30/2011
5247430	-117.83906	33.75985	0	1	17TH ST	WILLIAMS ST	6/19/2011
5247735	-117.860417	33.744473	0	1	WALNUT ST	HICKORY ST	7/7/2011
5286775	-117.885819	33.767797	0	1	HESPERIAN ST	ELM ST	7/20/2011
5291421	-117.906804	33.759916	1	0	17TH ST	NANCY LN	6/28/2011
5291659	-117.918012	33.748833	1	1	BEWLEY ST	5TH ST	11/9/2011
5295743	-117.843303	33.717293	0	1	RT 55	WARNER AV	8/13/2011
5296951	-117.907853	33.69978	0	1	FAIRVIEW ST	MACARTHUR BL	9/11/2011
5304221	-117.851768	33.744903	0	1	GRAND AV	WALNUT ST	8/22/2011
5304230	-117.897357	33.703629	0	1	ALTON AV	RAITT ST	8/18/2011
5305962	-117.86659	33.75055	0	1	CIVIC CENTER DR	BUSH ST	9/13/2011
5305978	-117.893136	33.747835	0	1	SANTA ANA BL	RAITT ST	9/9/2011
5313254	-117.87106	33.75786	0	1	DURANT ST	15TH ST	8/18/2011
5320709	-117.86068	33.745572	0	1	1ST ST	LACY ST	9/23/2011
5330141	-117.898231	33.727215	0	1	EDINGER AV	CENTER ST	10/6/2011
5337268	-117.864413	33.751128	0	1	CIVIC CENTER DR	FRENCH ST	10/17/2011
5337713	-117.91125	33.63725	0	1	BROADWAY	SANTA ANA BL	8/3/2011
5337717	-117.895672	33.741707	0	1	MYRTLE ST	DAISY AV	8/10/2011
5342531	-117.89221	33.70364	0	1	ALTON AV	BEAR ST	9/2/2011
5345423	-117.88507	33.75342	0	2	BRISTOL ST	10TH ST	10/14/2011
5346467	-117.937422	33.738006	0	1	EUCLID ST	MCFADDEN AV	10/6/2011
5347394	-117.88478	33.77309	0	1	BRISTOL ST	MEMORY LN	9/28/2011
5348257	-117.900634	33.752405	0	1	9TH ST	FAIRVIEW	8/30/2011
5354473	-117.920312	33.75398	0	1	HARBOR BL	11TH ST	10/4/2011
5356962	-118.49548	34.013554	0	1	BROADWAY	2ND ST	9/4/2011
5356978	-117.875054	33.705435	0	1	ALTON AV	BRADFORD PL	9/8/2011
5357038	-117.869546	33.716031	0	1	WARNER AV	BROADWAY	9/9/2011
5360502	-117.889089	33.736016	0	1	S PACIFIC AV	WISTERIA PL	10/1/2011
5360506	-117.883001	33.734455	0	3	MCFADDEN AV	BAKER ST	10/8/2011
5363895	-117.87643	33.73941	0	1	BISHOP ST	FLOWER ST	8/29/2011
5368249	-117.8504	33.73364	0	1	GRAND AV	MCFADDEN AV	10/20/2011
5369533	-117.86525	33.72549	0	1	POMONA ST	ORANGE AV	10/23/2011

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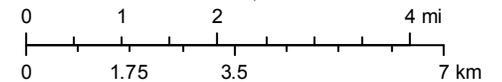
CASEID	POINT_X	POINT_Y	KILLED	INJURED	PRIMARYRD	SECONDRD	DATE_
5370738	-117.885122	33.734454	0	1	BRISTOL ST	MCFADDEN AV	10/4/2011
5373573	-117.907688	33.699835	0	1	MACARTHUR BL	FAIRVIEW ST	10/4/2011
5387750	-117.879664	33.735968	0	1	BROOK ST	SHELTON ST	10/15/2011
5397073	-117.880038	33.747082	0	1	3RD ST	SHELTON ST	11/15/2011
5397960	-119.460456	35.140485	0	1	MAIN ST	16TH ST	11/9/2011
5402721	-117.885094	33.734427	1	0	BRISTOL ST	MCFADDEN AV	9/16/2011
5402753	-117.873201	33.757881	1	0	15TH ST	ROSS ST	10/31/2011
5402909	-117.928801	33.744683	1	0	NEWHOPE ST	1ST ST	10/4/2011
5412026	-117.862543	33.760357	0	1	17TH ST	RT 5	9/7/2011
5415478	-117.85981	33.71596	0	1	WARNER AV	HALLADAY ST	11/10/2011
5416088	-117.865611	33.750598	0	4	CIVIC CENTER DR	SPURGEON ST	11/3/2011
5416155	-117.87642	33.7444	0	1	FLOWER ST	WALNUT ST	11/26/2011
5423705	-117.847966	33.745451	0	1	1ST ST	WRIGHT ST	11/28/2011
5423858	-117.90288	33.75981	0	1	17TH ST	FAIRVIEW ST	12/8/2011
5423869	-117.903492	33.759829	0	1	17TH ST	FAIRVIEW ST	12/6/2011
5423873	-117.85765	33.723929	0	1	EVERGREEN ST	OCCIDENTAL ST	12/8/2011
5431333	-117.864925	33.741425	0	1	MYRTLE ST	ORANGE AV	12/3/2011
5432712	-117.876482	33.734504	0	1	FLOWER ST	MCFADDEN AV	12/2/2011
5446279	-117.884842	33.77396	0	1	BRISTOL ST	MEMORY LN	12/16/2011
5446561	-117.880802	33.734466	0	2	SHELTON ST	MCFADDEN AV	12/15/2011
5458814	-117.919659	33.702012	0	1	MACARTHUR BL	HARBOR BL	11/17/2011
5472202	-117.86765	33.74551	0	1	1ST ST	MAIN ST	12/20/2011
5482396	-117.86735	33.77277	0	1	MAIN ST	MAINPLACE DR	12/20/2011

SWITRS Collisions from 1-1-07 to 12-31-11, SANTA ANA, ORANGE



April 18, 2014

1:126,091



Sources: Esri, DeLorme, HERE, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom

105 of 121

Made by: SWITRS GIS Map at TIMS (<http://tims.berkeley.edu>)
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PUBLIC PARTICIPATION ATTACHMENT O

Appendices

A. Development Tools

OCTA BPI

OCTA maintains a robust GIS database to evaluate bicycle demand. The Bicycle Priority Index (BPI) provides evaluates how bicycle usage and demand is linked to areas within the county with high population and employment density, key land uses such as local schools and destinations, as well as location of key transit centers.

Level of Traffic Stress Analysis

A bicycle network is likely to attract a larger portion of the population if its fundamental attribute is low stress connectivity. In other words, a network should provide direct routes between origins and destinations that do not include links that exceed one's tolerance for traffic stress. The foundation for the Traffic Stress Analysis is based on The Mineta Transportation Institute's Low-Stress Bicycle and Network Connectivity model. Traffic Stress Analysis is an objective, data-driven and points-based evaluation model which identifies high traffic stress links, bicycle network gaps, and gaps between "low stress" links.

The premise for this analysis is that points increase as stress-inducing factors, such as high traffic speeds and volume, increase. Street segments with bicycle facilities are intended to reduce stress levels but, given roadway conditions, may comprise higher stress categories.

A Traffic Stress Analysis results in four possible street type outcomes:

Stress Category	Stress Indicator
LTS 1	All local roads and off street bikeways
LTS 2	Less than 8,000 vehicles per day or collector streets
LTS 3	Less than 30,000 vehicles per day with bike lanes or bike routes
LTS 4	All other streets

In suburban and urban contexts, it is common to see low stress "islands" bounded by higher stress links. Higher stress links represent natural barriers to cyclists who may be uncomfortable navigating across or along streets with high or moderate stress indicators especially if the transportation system lacks bicycle facilities. Therefore, movement from low stress links across higher stress links warrants special attention to minimize

the stress experienced by cyclists.

In the context of OCTA's Bikeway Strategy and corridor prioritization, the numeric values which reflect stress levels are aggregated to the corridor level to produce an average Traffic Stress value.

This analysis is useful in prioritizing projects to increase the potential volumes of would-be cyclists that may currently feel comfortable on lower stress streets. The priority corridors developed by OCTA and the project team provide excellent connections between key trip origins and destinations. However, they are currently located on several higher stress links (i.e., LTS 3 and LTS 4 links). The goal of this analysis and the overall project is to accommodate a wider range of cyclists by reducing stress levels through enhanced bicycle facilities, traffic calming mechanisms, or optional parallel off-street paths that provide route directness and connectivity to major destinations and attractions.

B. Facilitation Efforts

Preparation of this report was a collaborative effort, with facilitation by OCTA of input from public stakeholders, agency staff, and elected officials. Preparation of the Strategy included the following efforts.

Project Development Team (PDT) Summary

A project development team (PDT) was convened with planning and engineering representatives from each member agency within Districts 1 and 2, as well as OCTA, OCCOG, and project consultant team staff. The PDT met on multiple occasions to discuss project goals and objectives, opportunities and constraints, preliminary corridor alignments, and draft ranking criteria. Meetings were held at OCTA (December 2012), Huntington Beach City Hall (January 2013), Westminster City Hall (April 2013), and Newport Beach City Hall (June 2013). Attendance at the PDT meetings ranged between 25-30 attendees. The PDT membership included the following representatives:

City of Buena Park – Leah Phu, Dennis Barnes, and Nabil Henein

City of Costa Mesa – Raja Sethuraman and Pritam Deshmukh

City of Cypress – Nick Mangalakiri and Kori Nevarez

City of Fountain Valley – Stacy Delong

City of Garden Grove – Greg Brown

City of Huntington Beach – Rick Ramos, Bob Stachelski, and Darren Sam

City of La Palma – Larry Baldwin

City of Newport Beach – Fern Nueno and Brad Sommers

City of Santa Ana – Melanie McCann, Suzi Furjanic, and Zed Kekula

City of Seal Beach – Jerry Olivera and Cesar Rangel

City of Stanton – Kelly Hart and Quang Le

City of Westminster – Adolfo Ozaeta and Art Bashmakian

County of Orange – Lance Natsuhara, Jeff Dickman, Ruby Maldonado, Jose Elias, and Tuan Richardson

Caltrans – Romeo Estrella

OCCOG – Dave Simpson

OCTA – Wes Parsel, Charlie Larwood, Alice Rogan, Marlon Perry, Carolyn Mamaradlo, Gary Hewitt, Jim Sterling

Focus Group Meetings

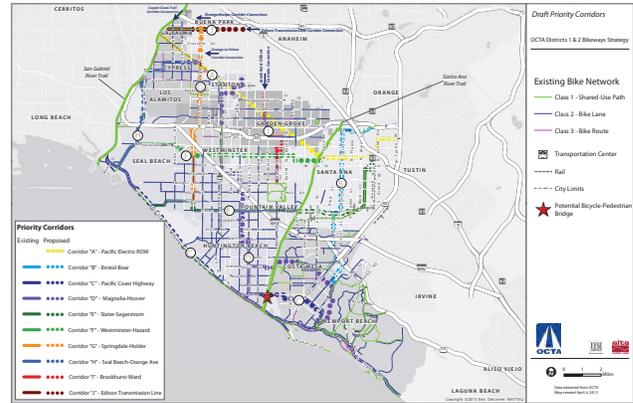
Focus group meetings were convened with PDT representatives to create smaller working groups comprised of groups of cities. During the focus meeting, large format boards were printed for brainstorming potential bikeways corridors. The printed materials included identification of utility corridors, water and rail corridors, the transportation network, existing and proposed bikeways, major destinations, and other key features for consideration and collaborative brainstorming. Focus meeting #1 occurred on February 21st at the City of Costa Mesa with representatives from Costa Mesa and Newport Beach. Focus meeting #2 occurred on March 7th at the City of Fountain Valley with representatives from Fountain Valley, Garden Grove, Huntington Beach, Santa Ana, Seal Beach, Stanton, and Westminster. Focus meeting #3 occurred on March 14th the City of Cypress with representatives from Buena Park, County of Orange, Cypress, and La Palma. Prior to the Focus meeting #3, the project team met with staff from Los Alamitos at the Los Alamitos City Hall to solicit bikeways corridors input.

C. Outreach

Media

A project webpage was created at www.octa.net/D1-2bike. The webpage includes a project overview and a map illustrating the existing bikeways network in the project area. The webpage was updated regularly with project materials including meeting materials, meeting dates, and contact information. Additionally, outreach events scheduled within the community were posted to the webpage to provide notification to the community. The project website includes a marketing contact from OCTA on the right frame with phone and email contact information provided.

The Districts 1 & 2 Bikeways Collaborative has been promoted and covered by various outlets throughout the process. The winter 2013 edition of OCTA's "Bikeways Newsletter" described the December 2012 kickoff to the effort and mentioned the 4th District's similar planning process. The local nonprofit news source *Voice of OC* published an article about bicycle



OCTA Districts 1 & 2 Bikeways Collaborative Survey
The Orange County Transportation Authority (OCTA) is conducting a survey to better understand bicycle transportation. To participate, you can:
• Complete survey and mail back by June 5th
• Complete survey online at www.octa.net/BikePlanningSurvey
Participants providing an email address will receive future updates on OCTA's bike efforts.

- 1. Why do you ride your bicycle? (check all that apply)
- [] Work/School
- [] Shopping/Entertainment/Social
- [] Exercise/Recreation
- [] Other:
2. Please choose three of the draft priority regional bikeway corridors that you would most likely use. (Use 1, 2, and 3 to indicate priority)
3. Where do you prefer riding your bike?
4. What types of streets would you feel comfortable riding on? (check all that apply)
5. How often do you ride your bicycle?
6. Email address (Optional):
7. Other comments:

Graphic 4: Survey provided at outreach events and online asking for public input on bicycling and preliminary corridors ranking.

safety on May 30, 2013, and credited the current regional bikeways strategy effort for seeking to make the county's roadways safer for bicycling. OCTA's blog and newsletter – *Orange County On the Move* - advertised the Bikeways Workshop in its April edition, then provided a recap in the May edition. In addition, the independent *bikeNewportBeach.org* blog provided a positive summary of the first Bikeways Workshop on May 16, 2013. The second Bikeways Workshop in September of 2013 was promoted in *Orange County On the Move* on July 26, 2013, and in Supervisor Janet Nguyen's *First District Journal* on August 15th. The second Workshop was then recapped by *bikeNewportBeach.org*, *Orange County On the Move*, and Supervisor Shawn Nelson's *4th District Update* shortly after the September 11th event.

Survey

A survey that asked respondents to identify corridors they would be most likely to utilize, their bicycling preferences, and frequency was distributed online, during outreach events, and at the first public workshop. The survey was provided in English and Spanish, and included a graphic showing the preliminary regional corridors. A total of 103 surveys were completed including six in Spanish.

A separate survey was distributed at the second Bikeways Workshop in September 2013 to gauge attendees' level of cycling comfort and to ask to describe their typical bicycle trip purpose(s). The survey also solicited feedback on the proposed corridors and ranking results as presented in the second draft of the Bikeways Strategy.

When respondents were asked why you ride your bicycle:

- 35 answered Work/School
- 90 answered Exercise/Recreation
- 90 answered Shopping/Entertainment/Social
- 9 answered Other including vacation, park, fun, family time, and bike to work week

When respondents were asked to identify three of the corridors they would be most likely to use, the following results were received:

- Corridor A: 29

- Corridor B: 37
- Corridor C: 57
- Corridor D: 23
- Corridor E: 23
- Corridor F: 17
- Corridor G: 12
- Corridor H: 25
- Corridor I: 9
- Corridor J: 5

When respondents were asked where you prefer riding your bike, the following results were received:

- On the street – with either a striped bike lane, a signed bike route, or on a bicycle boulevard: 64
- Off-street – on a paved bicycle path: 40
- Other: 1 (mountain biking)

When respondents were asked what types of streets they would feel comfortable riding on, the following results were received:

- Multi-lane arterial streets with a speed limit over 35 MPH and no bike lane: 22
- Multi-lane arterial streets with a speed limit over 35 MPH and with a bike lane: 66
- Local streets with a speed limit below 35 MPH: 68
- Residential streets: 61

When respondents were frequency of riding their bicycle, the following results were received:

- 4+ days a week: 12
- 2-3 days a week: 20
- Once a week: 34
- Less than once a week: 33

Additional comments were provided with some email addresses. Comments provided varied in topic including destinations where bicycle connectivity is desired, to bicycle safety, to discussion about the project in general.



Outreach Event #2: Buena Park Hall & Police Department Open House



Outreach Event #3: Newport Beach Back Bay Trail

Small Format Outreach Events

Nine small-format outreach events were held throughout the project area to reach an audience diverse in geography, as well as skill-level (from the “strong & fearless” to the “interested but concerned”). These included organized events such as the Huntington Beach Bicycle Master Plan meeting, Buena Park City Hall and Police Department Open House, the Santa Ana Health & Fitness Fair, the Fountain Valley Kiwanis Club meeting, the Latino Health Access Wellness Corridor Walk/Ride, the Westminster Dia de la Familia event, and the OC Wheelmen Annual Picnic, and a standalone booth at Mile Square Park in Fountain Valley and the Newport Beach Back Bay Trail.

Outreach Event #1: Huntington Beach Bicycle Master Plan Meeting

Public outreach was conducted in Huntington Beach on Thursday, April 11 at the City-organized Bicycle Master

Plan Workshop at the Huntington Beach Public Library. A table was set up at the event from 6:00 p.m. to 8:30 p.m. Project team staff spoke with event attendees about the bikeways collaborative project and asked for input and completion of the survey. Surveys were completed by four visitors to the booth identifying their primary reasons for bicycling, how often, where they would like to see facilities, and what types. Those who stopped by the booth were also provided with materials such as bike maps, fact sheets, and visors. The event was primarily attended by residents of Huntington Beach interested in the Draft Bicycle Master Plan presentation by the project team.

Outreach Event #2: Buena Park City Hall & Police Department Open House

Public outreach was conducted in Buena Park on Saturday, May 4 at the City-organized Open House event at City Hall. A table with canopy was set up at the



Outreach Event #5: Santa Ana Health & Fitness Fair

event from 11:00 a.m. to 2:00 p.m. Project team staff spoke with event attendees about the bikeways collaborative project and asked for input and completion of the survey. Surveys were completed by seven visitors to the booth. Those who stopped by the booth were also provided with materials such as bike maps, fact sheets, visors, and cell phone cases. The event was well attended by members of the community, and all available visors, cell phone cases, and bike maps were given out to the community.

Outreach Event #3: Newport Beach Back Bay Trail

Public outreach was conducted in Newport Beach on Saturday, May 11 on the Back Bay Trail. A table with canopy was set up just off the paved path at the junction of San Joaquin Hills Road and Back Bay Road from 10:00 a.m. to 1:00 p.m. Project team staff spoke with bicyclists and pedestrians along the trail about the bikeways collaborative project and asked for input

and completion of the survey. Surveys were completed by 21 visitors to the booth. Those who stopped by the booth were also provided with materials such as bike maps, fact sheets, visors, snacks, and cell phone cases.

Outreach Event #4: Mile Square Park

Public outreach was conducted in Fountain Valley on Saturday, May 25 at Mile Square Park. A table with canopy was set up from 11:00 a.m. to 2:00 p.m. near a natural junction in pathways in the park and south of the bicycle rentals. Project team staff spoke with passing bicyclists and pedestrians about the bikeways collaborative project and solicited input and completion of the survey. Seven visitors to the booth completed the surveys. Those who stopped by the booth were also provided with materials such as bike maps, fact sheets, visors, and cell phone cases.

Outreach Event #5: Santa Ana Health & Fitness Fair

Public outreach was conducted in Santa Ana on Saturday, June 1 at Rosita Park. The booth discussing the bikeways collaborative project was set up as part of the City-organized 7th Annual Health and Fitness Fair. Project team staff was present at the event from 8:00 a.m. and 1:00 p.m. to discuss the project. A total of nineteen (19) surveys were completed by visitors to the booth including six (6) using the Spanish form. Those who stopped by the booth were also provided with materials such as bike maps, fact sheets, visors, snacks, and cell phone cases. The event included a large group of children and families, and all available visors and cell phone cases were given to booth visitors.

Outreach Event #6: Fountain Valley Kiwanis Meeting

Public outreach was conducted at the regular meeting of the Fountain Valley Kiwanis non-profit service



organization on Thursday, June 13 in the City of Fountain Valley. At the request of the organization President, OCTA and the consultant team spoke about regional bikeway planning by OCTA, the Districts 1 and 2 Bikeways Collaborative, and the forthcoming OCTA bikeshare in Fullerton (Bikelink). Approximately 10 members of the Kiwanis club attended the meeting and provided input and asked questions about bikeway use within Fountain Valley and surrounding areas. The members were pleased to hear about connectivity through Fountain Valley and to major destinations such as Mile Square Park and the Santa Ana River Trail.

Outreach Event #7: Latino Health Access Wellness Corridor Walk/Ride

Public outreach was conducted at the monthly Wellness Corridor promotional walk and ride located in downtown Santa Ana. The August 17 Wellness Corridor walk and bicycle ride was organized by Latino Health Access (LHA). A table was set up from 7:00 p.m. to 9:00 p.m. at the LHA offices at 450 West 4th Street in Santa Ana. Project team staff spoke with participants in the walk and rides about the public review draft strategy and promoted the upcoming Bikeways Workshop #2 meeting with flyers in both English and Spanish. LHA staff helped translate to the Spanish-speaking participants. Materials such as bike maps, fact sheets, and cell phone cases were distributed to the event participants.



Outreach Event #7: Santa Ana Latino Health Access Wellness Corridor Walk/Ride

Outreach Event #8: OC Wheelmen Picnic

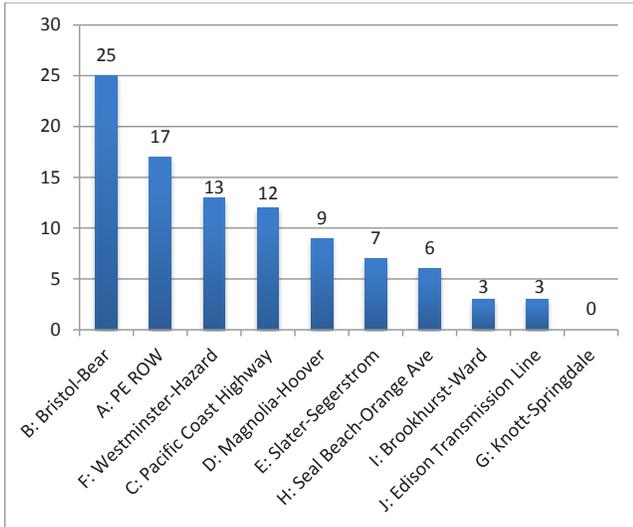
Public outreach was conducted at the annual picnic organized for members of the OC Wheelmen bicycling club. The August 18 event occurred in the City of Huntington Beach at Huntington Central Park at 6622 Lakeview Drive. A table was set up from 11:00 a.m. to 1:00 p.m. at the park and project team staff spoke with event attendees about the public review draft strategy and promoted the upcoming Bikeways Workshop #2 meeting with flyers in both English and Spanish. Materials such as bike maps, fact sheets, and cell phone cases were distributed to the event participants.



Outreach Event #9: Westminster Dia de la Familia event

Outreach Event #9: Westminster Dia de la Familia

Public outreach was conducted at the annual Dia de la Familia event facilitated by the City of Westminster at Sigler Park at 7200 Plaza Street on September 8. A table was set up from 1:00 p.m. to 5:00 p.m. at the park and project team staff spoke with event attendees about the public review draft strategy and promoted the upcoming Bikeways Workshop #2 meeting with flyers in both English and Spanish. Materials such as bike maps, fact sheets, and cell phone cases were distributed to the event participants.



Graphic 5: Sticker Vote Count of Priority Corridors by Workshop Attendees

Bikeways Workshop

Two workshops provided the opportunity for public input on the project. The first workshop included a presentation on the potential corridors and their ranking and public input was requested on corridor concepts and ranking evaluation criteria. Attendees included public stakeholders from the bicycle advocacy, health, safety, and social justice sectors, as well as elected officials and community residents. Presentations and large-format boards were provided describing the planning process and project components. The second workshop was attended by a similar number of people with boards showing the proposed corridors. A presentation discussed the eleven corridors and key changes since the first workshop, and focused on concepts for near-term implementation. Attendees at the workshop were provided the opportunity to comment to the group and were asked to provide comments on the boards directly and through a comment sheet. Promotion of the second workshop included direct emails to stakeholders that had provided contact information to “stay connected” to the project at outreach events, the website, or through the survey.

Bikeways Workshop 1: Garden Grove Community Center

The Bikeways Workshop was conducted in Garden Grove on Thursday, May 16 at the Community Center near Garden Grove City Hall to provide detailed information to members of the public and solicit input. Large format boards were provided illustrating the overview of the draft corridors, a board for each corridor, and a board for ranking criteria. A presentation was given discussing regional context and background, with an overview of each corridor. Six OCTA Board of Directors attended the event and spoke during the presentation. Additional City Council and technical staff represented many of the project cities. Over 50 stakeholders provided comments during the presentation and on the draft corridors. Input from the stakeholders in attendance helped prioritize corridors as well as identify non-engineering ideas for improving bicycling within Districts 1 & 2. Workshop materials posted to the OCTA website include the presentation given in PDF format, a project Factsheet, the Draft Regional Corridors Map, and the draft evaluation criteria.

Bikeways Workshop 2: Costa Mesa Neighborhood Community Center

The second Bikeways Workshop was conducted in Costa Mesa on Wednesday, September 11, at the Neighborhood Community Center to provide a quick summary of the Public Review Draft Strategy and to discuss near-term implementation concepts. Large format boards were provided illustrating the proposed bikeway corridors. A presentation was given discussing the proposed corridors with changes identified since the May workshop. Near-term recommendations were highlighted on the boards around the room, and the presentation discussed near-term concepts. Five OCTA Board of Directors attended the event and participated in the presentation. Approximately 50 stakeholders attended the workshop including community members, elected officials, and agency staff from many of the project cities. Attendees were asked to review the near-term concepts proposed for each corridor and provide comments to determine if additional “low-hanging fruit” opportunities should be identified within the report. Workshop materials promoting the event were provided in English, Spanish, and Vietnamese.

**LETTERS OF SUPPORT
ATTACHMENT P**



**COUNTY OF ORANGE
HEALTH CARE AGENCY**

**PUBLIC HEALTH SERVICES
HEALTH PROMOTION**

MARK A. REFOWITZ
DIRECTOR

DAVID M. SOULELES, MPH
DEPUTY AGENCY DIRECTOR

DONNA S. FLEMING, DrPA, MSW
CHIEF, PUBLIC HEALTH OPERATIONS

AMY BUCH, MA
DIVISION MANAGER
HEALTH PROMOTION

MAILING ADDRESS:
12 CIVIC CENTER PLAZA, ROOM 127
SANTA ANA, CA 92701-4057

TELEPHONE: (714) 834-5728
FAX: (714) 834-3492
E-MAIL: abuch@ochca.com

*Excellence
Integrity
Service*

September 12, 2013

Orange County Transportation Authority
600 S. Main St
Orange, CA 92863-1584

SUBJECT: CITY OF SANTA ANA BICYCLE CORRIDOR IMPROVEMENT PROJECT
APPLICATION, FISCAL YEAR 2013-2014

To whom it may concern:

We are aware that the City of Santa Ana, is applying for bicycle safety funding under the Bicycle Corridor Improvement (BCI) Project for several streets within the city. Santa Ana is a densely populated city with high volumes of motor vehicles, pedestrian and bicycle traffic which all are vying for the same public right of ways. Due to these conditions, we are concerned about the collisions involving bicyclists with the traffic of vehicles and pedestrians.

We are pleased with the City's efforts to provide safety enhancements for bicyclists to share the roads with motor vehicles in dedicated facilities. These facilities will also remove potential pedestrian versus bicyclist incidents that currently occur because of bicyclists primarily use of the sidewalks.

The BCI program is very important to our community in providing resources to promote more bicycle usage thus reducing emissions and vehicular traffic, and increasing opportunities for active transportation. The Orange County Health Care Agency supports the improvements proposed in the City's funding application. We are committed to working closely with the City and the community to implement the proposed improvements.

On behalf of the Orange County Health Care Agency, we thank you in advance for your efforts to secure funding for these important improvements in our application.

Sincerely,

Amy Buch
Division Manager
Orange County Health Care Agency
Health Promotion Division

EXHIBIT H

GARDEN GROVE UNIFIED SCHOOL DISTRICT

10331 STANFORD AVENUE
GARDEN GROVE, CALIFORNIA 92840-6353
(714) 663-6000 Fax: (714) 663-6100

BOARD OF EDUCATION
George West, Ed.D., President
Lan Quoc Nguyen, Vice President
Bob Harden
Bao Nguyen
Linda Reed

SUPERINTENDENT
Gabriela Mafi, Ed.D.

September 12, 2013

Orange County Transportation Authority
600 S. Main St
Orange, CA 92863-1584

**SUBJECT: CITY OF SANTA ANA BICYCLE CORRIDOR IMPROVEMENT PROJECT
APPLICATION, FISCAL YEAR 2013-2014**

To whom it may concern:

We are aware that the City of Santa Ana, is applying for bicycle safety funding under the Bicycle Corridor Improvement (BCI) Project for several streets within the city. Santa Ana is a densely populated city with high volumes of motor vehicles, pedestrian and bicycle traffic which all are vying for the same public right of ways. Due to these conditions, the City is concerned about the collisions involving bicyclists with the traffic of vehicles and pedestrians.

We are very pleased with the City's efforts to provide safety enhancements for bicyclists to share the roads with motor vehicles in dedicated facilities. These facilities will also remove potential pedestrian versus bicyclist incidents that currently occur because of bicyclists primarily use of the sidewalks.

The BCI program is very important to our community in providing resources to promote more bicycle usage thus reducing emissions and vehicular traffic. The Garden Grove Unified School District fully support the improvements proposed in the City's funding application. We give the City our full endorsement and we are committed to working closely with the City and the community to implement the proposed improvements.

On behalf of Garden Grove Unified School District, we thank you in advance for your efforts to secure funding for these important improvements in our application.

Sincerely,



Rick Nakano
Assistant Superintendent, Business Services

EXHIBIT H

COST BENEFIT ANALYSIS

ATTACHMENT Q

Cost Benefit Analysis Methodology

The methodology used to calculate Mobility, Health and Recreation benefits is described in the Guidelines for Analysis of Investment in Bicycle Facilities, National Cooperative Highway Research Program (NCHRP), Report 552, Transportation Research Board, 2006. The on-line “tool” based on this methodology (available at www.pedbikeinfo.org) was utilized to obtain the project estimates of Mobility, Health and Recreation benefits.

Demand

Estimating the use of a new facility rests on two main assumptions. First, all existing commuter bicyclists near a new facility will shift from some other facility to the new one. Second, the new facility will induce new bicyclists as a function of the number of existing bicyclists. The NCHRP Report uncovered that people are more likely to ride a bicycle if they live within 1,600 m (1 mi) of a facility than if they live outside that distance. The likelihood of bicycling increases even more at 800 m and 400 m. The methodology therefore estimates existing and induced demand using 400-, 800-, and 1600-m buffers around a facility.

Mobility Benefit

The NCHRP Report found that bicycle commuters are willing to spend, on average 20.38 extra minutes per trip to travel on an off-street bicycle trail when the alternative is riding on a street with parked cars. Commuters are willing to spend 18.02 min for an on- street bicycle lane without parking and 15.83 min for a lane with parking. Assuming an hourly value of time of \$12, the per-trip benefit is \$4.08, \$3.60, and \$3.17, respectively. Multiply the per-trip benefit for the appropriate facility by the number of daily existing *and* induced commuters, then double it to include trips both to and from work. This results in a daily mobility benefit. All benefits were calculated based on a 20-year project life cycle using a discount rate of 4%.

Health Benefit

An annual per-capita cost savings from physical activity of \$128 was determined by taking the median value of 10 studies. The health benefit was generated by multiplying \$128 by the total number of new bicyclists.

Recreation Benefit

The methodology assumes a “typical” day involves about 1 hour of total bicycling activity, which is valued at \$10 based on a wide variety of studies of outdoor recreational activities. The average adult cycling day includes about 40 min of cycling.

Safety Benefit

The Safety benefit was calculated using:

- Accident data from the California Highway Patrol, Statewide Integrated Traffic Records System (*SWITRS*), Year 2011, for Orange County,
- Vehicle miles traveled data from the Caltrans 2011 California Public Road Data, Highway Performance Monitoring System report, Orange County Daily VMT.
- VMT reduction based on average commute miles of 9 (California Air Resources Board, emission reduction model) and new commuters calculated using the NCHRP tool (described above).
- Accident cost data from the Caltrans Cal-B/C model parameters.

PUBLIC HEALTH ATTACHMENT R

Overweight and Obesity among Children by California Cities - 2010

Orange County Fact Sheet

The health of California's children is all over the map as evidenced by the first-ever release of childhood overweight and obesity numbers by city. Over 250 California cities were analyzed for the study conducted by the UCLA Center for Health Policy Research and the California Center for Public Health Advocacy, revealing shocking discrepancies based on locale.

- While 38 percent of the state's children are overweight or obese, city ranges begin as low as 11 percent (Manhattan Beach) and climb five-fold to 53 percent for the state's poorest performing city (Huntington Park).
- In Orange County, city ranges begin as low as 14.3 percent (Laguna Beach) and climb to 51.8 percent in the county's poorest performing city (Stanton).

Orange County City	2010 Overweight + Obese %
Stanton	51.8%
Santa Ana	46.5%
Anaheim	43.5%
Orange	43.2%
Buena Park	41.8%
Garden Grove	38.0%
La Habra	36.9%
Tustin	35.9%
San Juan Capistrano	33.7%
Westminster	33.0%
Fountain Valley	31.4%
Fullerton	30.9%
Seal Beach	28.8%
Brea	28.0%
Cypress	27.6%

Orange County City	2010 Overweight + Obese %
Laguna Hills	27.2%
Lake Forest	26.9%
Huntington Beach	26.4%
Mission Viejo	25.1%
Rancho Santa Margarita	22.9%
Irvine	21.7%
San Clemente	21.1%
Dana Point	20.8%
Aliso Viejo	20.8%
Laguna Niguel	19.4%
Newport Beach	18.3%
Laguna Beach	14.3%
ORANGE COUNTY	33.3%
CALIFORNIA	38.0%