ATTACHMENT 2



Local Road Safety Plan (LRSP)

City of Arroyo Grande

Final Draft Report









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Acknowledgements

A special thanks to all the Safety Partners that contributed to this plan.

City of Arroyo Grande

Mayor and Council Members

Community Development Department

Police Department

Public Works Department

Five Cities Fire Authority

San Luis Obispo County

City of Grover Beach

City of Pismo Beach

Caltrans, District 5

Lucia Mar Unified School District

Safe Routes to School Coordinator

San Luis Obispo Bike Club

Bike SLO County

Executive Summary

The Local Road Safety Plan (LRSP) is a traffic safety planning document for local agencies to address unique roadway safety needs in their jurisdictions. This comprehensive document will both help to guide the City's implementation of safety countermeasures and allow eligibility for funding in future HSIP grant applications.

Preparing an LRSP facilitates local agency partnerships and collaboration, resulting in a prioritized list of improvements and actions that contribute to California's Strategic Highway Safety Plan (SHSP) overall vision and goals. This SHSP focuses on reducing fatal and severe injury collisions with focused challenge/emphasis areas. The LRSP is a collaborative process that will build on the collision analysis from the Systemic Safety Analysis Report (SSAR) with a local leadership stakeholder group that represents the 5 E's (shown below) and guides the formation of the plan.

The LRSP helps to address the 5Es of traffic safety: Engineering, Enforcement, Education, Emergency Services, and Emerging Technologies.



In 2016, Arroyo Grande was awarded funding from Caltrans for the Systemic Safety Analysis Report Program (SSARP) for analysis of the City's entire roadway system. Per the upcoming HSIP Cycle 11 requirements, the City of Arroyo Grande added a Local Road Safety Plan to the process to be eligible for future funding.

This holistic approach of engaging stakeholders and the community in the development, allows certain areas of concern not showing a crash pattern to be analyzed. Also, it fosters local, state, and agency partnerships to advance local road safety.

In following the overall LRSP process, a Stakeholder Working Group (Working Group) was formed with the City as the lead with participation from local organizations from the 5 E's and anyone with an interest in improving the City's roadway safety. This group gathered for meetings to discuss the overall collision analysis, goals, priorities, safety recommendations, and overall development of the safety plan. In addition, after completion of the plan, support letters were provided by Caltrans and Lucia Del Mar Unified School District (see Appendix A).

Based on the Working Group Meetings, this LRSP will address multiple SHSP Challenge Areas including but not limited to:

- 1. Bicyclists
- 2. Intersections

- 3. Pedestrians
- 4. Distracted Driving
- 5. Aggressive Driving/Speeding

In addition, the vision, mission statement, and goals were established in guiding the development of the LRSP. It was also decided that the LRSP for the City of Arroyo Grande would be a living document with official updates every five (5) years.

Based on the input from the Working Group, this LRSP recommends the following strategies for the focused study locations and Citywide systemic applications for the 5 E's of Traffic Safety.

- 1. Engineering: Apply low-cost safety countermeasures at current locations experiencing collisions and systemically at locations with similar risks (comprehensive approach).
- 2. Enforcement: Enforce actions that reduce high-risk behaviors to include speeding, distracted roadway usage, and Driving Under the Influence (DUI).
- 3. Education: Educate all road users on safe behaviors.
- 4. Emergency Response: Improve emergency response times and actions.
- 5. Emerging Technologies: Utilize emerging technologies in conveying and collecting information from the roadway users in an effort to improve safety and operations.

In addition, it is important to understand the upcoming funding opportunities in the successful implementation of these safety projects.

Funding opportunities include but not limited to:

- 1. Highway Safety Improvement Program (HSIP) Call typically every 2 years. Last call (cycle 10) started in April 2020 and ended November 2, 2020 (extended due to COVID-19)
 - a. Next call HSIP Cycle 11 is schedule to start in April 2022
- 2. Active Transportation Program (ATP)
 - a. Next call for funding projects is scheduled to start in March 2022
- 3. Safe Routes to School grants
- 4. Congestion Mitigation and Air Quality (CMAQ) program
- 5. Sustainable Transportation Planning Grant (Sustainable Communities)
- 6. Other funding sources are Senate Bill 1 (SB 1) and Federal Highway Administration

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Appendix A Stakeholder and Public Input

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List of Abbreviations

AASHTO American Association of State Highway and Transportation Officials

APS Accessible Pedestrian Signal

ATP Active Transportation Program or Plan

AWSC All Way Stop Control
BCR Benefit to Cost Ratio

BUI Biking Under the Influence

CA MUTCD California Manual on Uniform Traffic Control Devices

CIP Capital Improvement Program

CMAQ Congestion Mitigation and Air Quality

DUI Driving Under the Influence

EPDO Equivalent Property Damage Only
FHWA Federal Highway Administration

FSI Fatal or Severe Injury

HSIP Highway Safety Improvement Program

HSM Highway Safety Manual

LRSM Local Roadway Safety Manual

LRSP Local Road Safety Plan

RRFB Rectangular Rapid Flashing Beacon

SHSP Strategic Highway Safety Plan

SSAR Systemic Safety Analysis Report

SWITRS Statewide Integrated Traffic Records System

TIMS Transportation Injury Mapping System

TWLTL Two-Way Left Turn Lane

TWSC Two Way Stop Control

1. Introduction

In 2016, the City of Arroyo Grande was successful in receiving a Systemic Safety Analysis Report Program (SSARP) grant from Caltrans' Local Assistance. Per the City's leadership direction and upcoming requirements for HSIP grant funding, a Local Road Safety Plan was appended to this effort. The LRSP builds off the safety analysis and engineering performed in the Systemic Safety Analysis Report (SSAR) to create a comprehensive and holistic Citywide safety plan.

The LRSP is a data-driven process similar to the process for the SSAR except a LRSP has a local leadership group that represents the 5 E's (Engineering, Enforcement, Education, Emergency Response, and Emerging Technologies) to guide the development of the plan.

The LRSP included a Citywide analysis of the roadway system in Arroyo Grande comprising the current collisions patterns and high-risk roadway characteristics (systemic analysis), and recommended safety improvements for the other E's. Furthermore, the City of Arroyo Grande's goal is to identify safety countermeasures to help mitigate the City's primary crash trends, reduce the overall collision severity, and identify locations with higher safety risks that do not currently experience a collision issue but could benefit from safety improvements.

The Federal Highway Administration's LRSP development process is shown in **Figure 1**. At the kick-off meeting the leadership team was established to guide the development of the Local Road Safety Plan.

Figure 1 The LRSP Development Process



Robin Dickerson, City Engineer, was identified as the Safety Champion/Lead for this project, working with a stakeholder working group that represented the other E's (enforcement, education, emergency response, and emerging technologies) and other important safety partners. This stakeholder working group was paramount in creating a comprehensive safety plan that is tailored to address local needs and issues.

2. Background

2.1 Purpose and Need

The City of Arroyo Grande has a current population of approximately 18,000 and is part of the 5 Cities region in San Luis Obispo County. The 5 Cities region is made up of Arroyo Grande, Pismo Beach, Grover Beach, Oceano, and Shell Beach with a total population of approximately 48,000. Arroyo Grande has a mix of local, commuter, and recreational traffic with a variety of different road users including passenger cars, heavy vehicles (buses, large trucks, and farming equipment related to the agricultural industry), bicyclists, pedestrians, and transit. In addition, this LRSP document will compliment the recently adopted Circulation Element's core value "to provide safe and easy travel within and through the City for pedestrians, bicyclists, and motor vehicles correlated with the Land Use Element."

Focusing on the roadway safety needs, the stakeholder group evaluated five (5) years of collision data from the SSAR (2014-2018) and an additional two (2) years (2019-2020) of data. From 2014 to 2020, there were 5 fatal and 18 severe injury collisions on City streets.

Collision severity for fatal and severe injury (FSI) collisions in years 2014-2020 is shown in **Table 1**. During the study period, year 2019 had the most FSI collision (2 fatal and 6 severe injuries, 8 total FSI). Followed by, 2017 with the second highest FSI collisions (1 fatal and 5 severe injuries, 6 total FSI). All other years during the study period had three (3) or less FSI collisions.

Table 1 Fatal and Severe Injury Collisions on City Roads (2014 - 2020)

Year	Severity	Location	Туре	Violation Category	Other Information
2015	Sev. Inj	N Oak Park Blvd and El Camino Real	Broadside	Traffic Signals and Signs	
2015	Sev. Inj	E Branch St, 11 ft east of Garden St	Broadside	Other Hazardous Violation	Bike collision
2016	Sev. Inj	James Way and N Oak Park Blvd	Broadside	Traffic Signals and Signs	-
2017	Sev. Inj	E Grand Ave and Courtland St	Broadside	Traffic Signals and Signs	-
2017	Sev. Inj	100 E Branch St	Vehicle-Pedestrian	Pedestrian Violation	Pedestrian was crossing not in a crosswalk
2017	Sev. Inj	E Branch St and Le Point Terrace	Head On	Wrong Side of Road	-
2017	Sev. Inj	S Halcyon Rd and The Pike	Broadside	Automobile Right of Way	-
2017	Fatal	E Branch St and Short St	Vehicle-Pedestrian	Pedestrian Right of Way	Pedestrian was crossing in a crosswalk at the intersection
2017	Sev. Inj	1105 El Camino Real	Head On	Improper Turning	-
2018	Sev. Inj	E Branch St, 298 ft east of Garden St	Head On	Unsafe Lane Change	-
2018	Fatal	El Camino Real, 770 ft east of Oak Park Blvd	Hit Object	Improper Turning	Single Vehicle - Driver was intoxicated
2018	Fatal	E Grand Ave and Bell St	Vehicle-Pedestrian	Pedestrian Violation	Pedestrian was crossing not in a crosswalk
2019	Sev. Inj	E Grand Ave and N Courtland Rd	Vehicle-Pedestrian	Unknown	Pedesrian was in the road, including the shoulder
2019	Fatal	El Camino Real, 319 ft south of Bennett Ave	Hit Object	DUI	Motorcycle collision
2019	Sev. Inj	300 E Grand Ave	Broadside	Automobile Right of Way	-
2019	Sev. Inj	E Grand Ave and Elm St	Vehicle-Pedestrian	Pedestrian Right of Way	Pedestrian was crossing in a crosswalk at the intersection
2019	Sev. Inj	Valley Rd, 530 ft south of Fair Oaks Ave	Sideswipe	Unknown	Motorcycle collision
2019	Sev. Inj	S Traffic Way, 21 ft south of Poole St	Other	Unknown	Bike collision
2019	Fatal	495 Valley Rd	Hit Object	DUI	Single Vehicle
2019	Sev. Inj	Corbett Canyon Rd, 52 ft south of Corral PI	Rear End	Unsafe Speed	Motorcycle collision
2020	Sev. Inj	Ash St and Courtland St	Hit Object	DUI	-
2020	Sev. Inj	E Grand Ave and El Camino Real	Vehicle-Pedestrian	Unknown	Pedestrian was crossing not in a crosswalk
2020	Sev. Inj	Huasna Rd and Stagecoach Rd	Sideswipe	Improper Passing	Motorcycle collision
		•	•		

The collision type and violation category are presented in **Table 1** above. The primary collision types for FSI collisions are broadside and vehicle-pedestrian collisions. The primary violation categories for FSI collisions are DUI/BUI, Traffic Signal/Signs violations, and Unknown.

2.2 Guiding Documents

In developing the City of Arroyo Grande LRSP, the following standards and guidelines were followed:

- "Local Roadway Safety, A Manual for California's Local Road Owners", Caltrans, Version 1.5, April 2020.
- 2020-2024 California's Strategic Highway Safety Plan (SHSP), "California Safe Roads: 2020-2024 Strategic Highway Safety Plan", Caltrans.
- "Developing Safety Plans, A Manual for Local Rural Road Owners", Federal Highway Administration, March 2012.
- "Highway Safety Manual", American Association of State Highway Officials (AASHTO), 1st Edition, 2014 supplement.
- "California Manual of Uniform Traffic Control Devices (CA MUTCD)", Revision 5, 2014.

2.3 Methodology

The LRSP methodology followed the FHWA's LRSP development process as shown in Figure 2.

Below is a roadmap created by the Federal Highway Administration to show the primary steps used to create the Local Road Safety Plan:

1. Identify Stakeholders

a. Working Group was formed, incorporating members representing the 5 E's and other interested representatives.

2. Use Safety Data

a. Past 7 years (2014-2020) of collisions were analyzed with discussion of other highrisk locations.

3. Choose Proven Solutions

a. FHWA Proven Countermeasures and Caltrans safety countermeasures were used in mitigation collision trends and risk characteristics.

4. Implement Solutions

a. Projects were identified for specific locations and systemically.

Local Road
Safety Plans:
Your Map to Safer Roadways

No matter what your resources, a local
Road Safety flow will guide you to
data-drive solutions and safer roads.
https://sdehy.threa.dot.gov/provencountermeasures/local_road/

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Figure 2 FHWA's LRSP Development Map

Source: Federal Highway Administration

3. Safety Partners and Stakeholders

At the project kick off meeting, the different safety partners to engage in the LRSP Stakeholder Working Group were discussed. These stakeholders included City representatives from various departments (Community Development, Public Works, and Police), fire, school district, bicycle and pedestrian groups, and roadway jurisdictional partners. Based on the City's connections and current working relationship with the identified stakeholders, the working group formation was led by the City.

The LRSP Stakeholder Working Group included the following representatives:

- City of Arroyo Grande
- Caltrans, District 5
- County of San Luis Obispo
- · City of Pismo Beach
- City of Grover Beach
- Arroyo Grande Police Department
- Five Cities Fire Authority
- Lucia Mar Unified School District
- San Luis Obispo Bike Club
- Bike SLO County

GHD worked with the City staff and the LRSP working group to come up with a vision, mission statement, and goals that support California's State Highway Strategic Plan (SHSP). The goals developed through this process aim for results consistent with the City's vision for safety and are realistic, achievable, and measurable. Identified future projects will aim to meet these goals. In addition, Caltrans and Lucia Mar Unified School District provided support letters for the LRSP. These letters are in **Appendix A: Stakeholder and Public Input**.

3.1 LRSP Stakeholder Working Group Meetings

Four meetings were held with the stakeholder working group. Two meetings were held in person pre-COVID and two meetings were held virtually, post-COVID. The meeting dates and summaries were as follows:

- 1. December 13, 2019 In person meeting
 - a. Discussed the overall LRSP process, working group member's safety priorities, past 5 years of collisions (City and Caltrans roadways), vision, goals, and priorities.
- 2. January 30, 2020 In person meeting
 - Reviewed summary of first meeting, discussed further collision analysis with priority locations, recent developments, safety countermeasures and projects, refined LRSP's guiding principles, and coordinated next steps.
- 3. February 9, 2021 Virtual Meeting







- Summarized first two meetings and process status, safety countermeasures and priority locations, finalized Mission Statement, Vision, and Goals, and discussed public outreach.
- 4. April 9, 2021 Virtual Meeting
 - a. Discussed next steps with the Draft LRSP plan, public outreach comments, and 2019-2020 fatal and severe injury collisions, current and planned safety projects, and overall recommendations for safety countermeasures.

3.2 SHSP Challenge Areas

The LRSP will complement California's SHSP 2020-2024. The California SHSP identifies 16 challenge areas as shown in **Figure 3** below. These challenge areas are recommended emphasis areas in the development of the plan.

Figure 3 SHSP Challenge Areas



Based on the LRSP Stakeholder Working Group Meetings, this LRSP will address multiple Strategic Highway Safety Plan (SHSP) Challenge Areas including:

- 1. Bicyclists
- 2. Intersections
- 3. Pedestrians
- 4. Distracted Driving
- 5. Aggressive Driving/Speeding
- 6. Emerging Technologies
- 7. Emergency Response

3.3 Guiding Principles

The members of the stakeholder working group established the vision, mission statement, and goals that guided the development of the document. Ideally, this document will help the City move toward Vision Zero. Vison Zero is a strategy which strives to eliminate all traffic fatalities and severe

injuries, while increasing safe, healthy, and equitable mobility for all. Traditionally traffic fatalities and severe injuries have been considered inevitable side effects of modern life. The reality is that these tragedies can be addressed over time by taking a proactive, preventative approach that prioritizes traffic safety as a public health issue. To do so, bicycle and pedestrian safety will be prioritized by focusing on uncontrolled crossing improvements and public education.

3.3.1 Vision

The vision statement describes what the Local Road Safety Plan is trying to achieve.

Arroyo Grande will strive toward the elimination of all traffic fatalities and severe injuries, while increasing safe, healthy, and equitable mobility for all.

3.3.2 Mission Statement

The mission statement defines the purpose of the plan, what it does, and what it is about. The mission statement was developed in collaboration with the stakeholder working group.

To reduce the number of fatalities and serious injuries occurring on Arroyo Grande's roadway system for all modes of travel in facilitating a safe, sustainable, and efficient movement of people and goods while promoting walking, encouraging bicycling, and supporting transit.

3.3.3 Goals

Safety goals were development for the Local Road Safety Plan. It is important to capture realistic goals that can evolve over time. The LRSP's goals were created based on the City's needs.

Plan Goals

- Reduce the potential for fatal and severe injury collisions Citywide
- Reduce the potential for rear end collisions Citywide
- Reduce the potential for bicycle and pedestrian collisions Citywide
- Improve the health and vitality of our community with a safety plan that encourages safety for pedestrians and bicyclists targeted to Arroyo Grande's local roadway needs
- Improve safety around schools with a connected multimodal system and improved crossings
- Increase walking, biking, rolling (stroller, walker, wheelchair, skateboard, scooter, etc.) to the downtown district, to work, and to school

- Improve safety at uncontrolled crossings
- Increase driver and pedestrian education
- Reduce distracted driving
- Improve bike safety with additional bikeways and green bike lanes for vehicle to bicycle conflict areas
- Increase traffic enforcement
- Receive grant funding for LRSP identified projects

3.3.4 Vision Zero

Vision Zero is a significant departure from the status quo in two major ways:

- Vision Zero recognizes that people will sometimes make mistakes, so the road system and related policies should be designed to minimize those inevitable mistakes and reduce their likeliness to result in severe injuries or fatalities. This means that system designers and policymakers are expected to improve the roadway environment, policies (such as speed management), and other related systems to lessen the severity of crashes. Roadway users are however still responsible for their mistakes and should follow all applicable laws and use reasonable judgement when conducting themselves within the public right of way.
- Vision Zero is a multidisciplinary approach, bringing together diverse and necessary stakeholders to address this complex problem. In the past, meaningful, cross-disciplinary collaboration among local traffic planners and engineers, policymakers, and public health professionals has not occurred consistently. Vision Zero acknowledges that many factors contribute to safe mobility -- roadway design, speeds, behaviors, technology, and policies -- and sets clear goals to achieve the shared goal of zero fatalities and severe injuries.

Figure 4 provides a comparison of the traditional approach versus the Vision Zero approach.

TRADITIONAL APPROACH

Traffic deaths are INEVITABLE

PERFECT human behavior

Prevent COLLISIONS

INDIVIDUAL Responsibility

Saving lives is EXPENSIVE

VISION ZERO

Traffic deaths are PREVENTABLE

Integrate HUMAN FAILING in approach

Prevent FATAL AND SEVERE COLLISIONS

SYSTEMS approach

Saving lives is NOT EXPENSIVE

Figure 4 Traditional Approach vs. Vision Zero

3.3.5 Safe Systems Approach

In providing a comprehensive approach to safety, the Safe System approach is to design our vehicles and infrastructure in a manner that anticipates human error and accommodates human tolerances with a goal of reducing fatal and serious injuries. The following framework is intended to assist the vehicle and infrastructure communities in making decisions in alignment with Safe System principles. Implementing and selecting safe system practices and design will incrementally improve safety over time.

The Institute of Transportation Engineers (ITE) defines the safe systems approach and framework as the following:

"The Safe System approach differs from conventional safety practice by being human-centered, i.e. seeking safety through a more aggressive use of vehicle or roadway design and operational changes rather than relying primarily on behavioral changes – and by fully integrating the needs of all users (pedestrians, bicyclists, older, younger, disabled, etc.) of the transportation system. Safe Systems provide a safety-net for the user by:

- 1. Anticipating Human Error A Safe System is designed to anticipate and accommodate errors by drivers and other road users.
- 2. Accommodating Human Injury Tolerance A Safe System is designed to reduce or eliminate opportunities for crashes resulting in forces beyond human endurance."

Adopting a Safe System approach does not absolve users of their responsibility. Other safety practices such as speed management strategies, driver education, enforcement, and effective emergency response will remain essential to improving road safety. With the passing of Assembly Bill (AB) 43, there will be flexibility in setting speed limits.

3.3.5.1 Assembly Bill (AB) 43

AB 43 was signed into law by Governor Newsom on October 8, 2021. The City is reviewing AB 43 and how it will be applied locally to address traffic safety. This bill will change several aspects of speed setting and enforcement in California with a goal to make roadways safer for all road users. The new law is set to go into effect by June 30, 2024 with certain parts coming into law as soon as January 2022. AB 43 allows agencies more flexibility with keeping the previous speed limit, allows business and residential districts to have 15 and 20 mph speed limits, and allows the agency to round down the proposed speed limit based on an engineering study that finds the roadway is similar (no additional lanes added) or if there is a high presence of bicycles or pedestrians.

4. Analyze Safety Data

4.1 Recent/Planned Safety Projects

During the development of the plan, various safety projects were already implemented or planned in the City of Arroyo Grande. **Table 2** displays the safety projects and status. A letter of support from Caltrans for the Halcyon Road Complete Streets Plan is also included in **Appendix A: Stakeholder and Public Input**. In addition, the City is looking at opportunities to move this project forward.

In addition, the City is currently evaluating improvements on Tally Ho Road from James Way to SR 227. This roadway segment of Tally Ho Road was identified as the top 10 segment for crash rates (traffic volumes in comparison to crashes) per the SSAR analysis.

Table 2 Recent Safety Projects

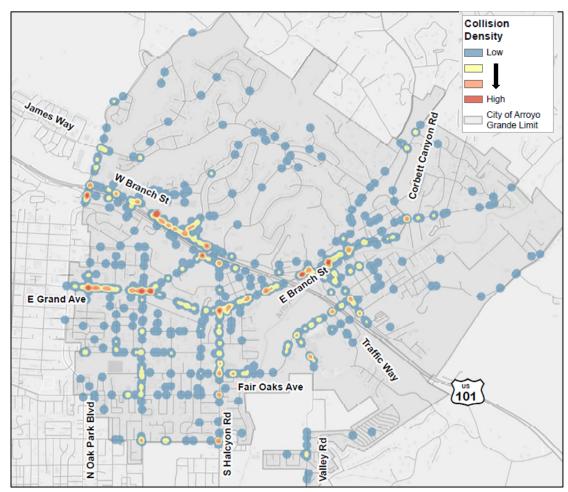
Project Location	Project Status	Improvement	Comment
E Branch St at Short St	Complete	Pedestrian crossing improvements to include pedestrian activated LED lights around the Pedestrian Warning signs in 2019. Additional red brick crosswalks was also previously added	Rank 1 Intersection Relative Severity
The Pike at S Halcyon Road	Complete	Converted to all way stop controlled in 2019. There were no collisions recorded at the intersection in 2020	Rank 5 Intersection Relative Severity
E Grand Ave at Courtland St	Planned	Striping and pavement marking improvements with CIP	Rank 3 Intersection Relative Severity
El Camino Real - Oak Park Blvd to Brisco Rd	Planned	Operational Improvements with Brisco Road Improvements	Rank 1 Segment Relative Severity
E. Grand Avenue – Courtland to Elm	Planned	Improve striping along Grand Ave by replacing bott dots with thermoplastic road markings	Rank 1 Segment Relative Severity
Halcyon Rd - Fair Oaks to Grand Ave	Planned	Halcyon Street Complete Street Plan	Rank 3 Segment Relative Severity
Fair Oaks – Halcyon to Valley Road	Planned	Halcyon Street Complete Street Plan has intersection improvements to include a roundabout at Halcyon and Fair Oaks	Rank 4 Segment Relative Severity
W. Branch – Brisco to Camino Mercado / US 101 ramps	Planned	Brisco Road Interchange Project	Rank 5 Segment Relative Severity
Camino Mercado – W. Branch Street to Rancho Parkway	Complete	Centerline striping added	Rank 2 Segment Crash Rate
Traffic Way at Allen Street	Complete	Improvements made at Traffic Way and Fair Oaks Ave in July 2019 – Traffic Signal installed and improved signage / pavement markings near Allen Street. The signal has helps to create gaps in traffic for Traffic Way and Allen Street	Rank 1 Intersection Crash Rate
Allen Street – Traffic Way to Pacific Coast Railway Place	Planned	Installation of Red Curb (limiting parking) along Allen Street. Improvements to sidewalk with recent private developments. City staff to begin working with residents to identify possible solutions	Rank 3 Segment Crash Rate
Valley Road at Arroyo Grande High School / Castillo Del Mar	Under Construction	Realignment of Castillo Del Mar and intersection at Valley Road	Rank 2 Intersection Crash Rate
W Branch Street at Brisco Road	Planned	Operation Improvements. Eventually will be improved through the Brisco Road Interchange Project	Rank 3 Intersection Crash Rate
E Branch Street at Bridge Street	Complete	Updated pedestrian crossing in 2019 with flashing LED lights on signs. Bridge Street was improved through Bridge Street Bridge Project completed in March 2021 (Funded through the Federal Highway Bridge Program (HBP))	Rank 4 Intersection Crash Rate
E Grand Ave at Alder St	Funded through HSIP Cycle 10	Install Rectangular Rapid Flashing Beacons (RRFBs) at the west leg for crossing Grand Ave, install curb extensions, ADA curb ramps, yield lines, and striping and pavement markings	Pedestrian Crossing
Farroll Ave at S. Halcyon Rd	Funded through HSIP Cycle 10	Refresh high visibility school crosswalk on west leg to cross Farroll Ave, Install curb extensions and ADA curb ramps	School Crossing
S Halcyon Rd at Sandalwood Ave	Funded through HSIP Cycle 10	Install/replace Rectangular Rapid Flashing Beacons (RRFBs) at the west and south leg, install curb extensions, ADA curb ramps, yield lines, and striping and pavement markings	
Oak Park Blvd - W Grand Ave to Mentone (City of Grover Beach project)	Under Construction	Reduce number of travel lane to single lane in each direction with buffered/wide bike lanes	City of Grover Beach Project
Oak Park Blvd -Mentone Ave to The Pike - Pavement Rehab project (City of Grover Beach project)	Planned	Reduce number of travel lane to single lane in each direction with buffered/wide bike lanes. Construction est. 2025/2026	City of Grover Beach Project

4.2 Collision Data

GHD collected and reviewed five years of complete collision data (2014-2018) from the California Highway Patrol's Statewide Integrated Traffic Records System (SWITRS), Transportation Injury Mapping System (TIMS), and the City of Arroyo Grande collision data. After rectifying the data, a comprehensive data set was used for the safety analysis. Due to the City also having to deliver a Systemic Safety Analysis Report (SSAR), the collision analysis will reference that report. In addition, the LRSP will capture other safety concerns from the LRSP working group and citizens including places where there are near-miss collisions as well as fatal and severe injury collisions that occurred in 2019 and 2020.

Collision analysis was performed for all roadways in the City of Arroyo Grande excluding the US 101 mainline collisions. The collisions for the US 101 interchanges in Arroyo Grande were evaluated separately. As presented in **Figure 5**, Citywide collisions for the past 5 years (2014-2018) excluding the US 101 interchange collisions were mapped, identifying the high-risk segments and intersections. Per the collision density map, the roadway segments and intersections with higher collision frequency fall along E. Grand Avenue, E Branch Street, W Branch Street, Fair Oaks Avenue, Halcyon Road, and El Camino Real. Additional collision analysis and maps are located in **Appendix B: SSAR Crash Analysis**.

Figure 5 Collision Density Heat Map (2014-2018)



In evaluating the past five (5) years in the SSAR with the recent 2019 and 2020 collision data, the severity for fatal and injury collisions was assessed. It is noted that in 2020 there were COVID shelter-in-place orders, and the traffic patterns were not representative of a typical year. However, it is important to still assess 2020 for context in understanding the collision patterns and safety issues. As shown in **Table 3**, there were fatal collisions in 2017, 2018, and 2019, with 2014, 2017, and 2019 having the highest total fatal and injury collisions per year.

Table 3 Collision Severity for Fatal and Injury Collisions per Year

	Severity (Fatal and Injury Collisions)									
Year	Fatal	Injury (Severe)	Injury (Other Visible)	Injury (Complaint of Pain)	Total (Fatal and Injury)					
2014	0	0	20	37	57					
2015	0	2	15	19	36					
2016	0	1	13	17	31					
2017	1	5	18	23	47					
2018	2	1	11	17	31					
2019	2	6	7	26	41					
2020	0	3	10	20	33					
Total	5	18	94	159	276					

As presented in **Table 4**, collision type is shown for the fatal and injury collisions each year. Broadside collisions were the most common and they typically occur at intersections due to vehicles not yielding the right of way or violating the traffic signal/stop sign. The second most common collision type was rear-ends. Rear-end collisions typically occur due to speed differential, congestion, and vehicles following too closing or inattention. There were also 32 vehicle/pedestrian collisions in the past 7 years.

Table 4 Collision Type for Fatal and Injury Collisions per Year

		-							
Year	Head On	Sideswipe	Rear End	Broadside	Hit Object	Overturned	Vehicle/ Pedestrian	Other/ Unknown	Total (Fatal and Injury)
2014	3	5	13	20	5	5	5	1	57
2015	1	2	15	11	2	0	4	1	36
2016	1	0	11	12	1	0	5	1	31
2017	3	5	9	14	9	0	7	0	47
2018	4	0	9	7	7	0	2	2	31
2019	2	2	13	12	4	0	7	1	41
2020	4	2	6	8	5	2	2	4	33
Total	18	16	76	84	33	7	32	10	276

Table 5 shows the primary collision factor (PCF) violation category for the fatal and injury collisions. The top violation category was unsafe speed followed by automobile right of way (Auto R/W).

Table 5 PCF Violation Category for Fatal and Injury Collisions per Year

						T	ype	Fata	land	Inju	у Со	llisio	ns)						
Year	DUI/BUI	Impending Traffic	Unsafe Speed	Following Too Closely	Wrong Way	Improper Passing	Unsafe Lane Change	Improper Turning	Auto R/W	Pedestrian R/W	Pedestrian Violation	Signals/Signs	Brake Failure	Other Hazard	Other than Driver	Unsafe Starting/Backing	Other Improper Driving	Unknown	Total (Fatal and Injury)
2014	4	0	13	0	2	0	1	7	11	4	0	4	1	4	2	1	0	3	57
2015	5	0	12	0	2	0	0	1	5	3	1	3	0	2	1	0	0	1	36
2016	1	0	9	0	1	0	0	4	7	3	1	2	0	0	0	0	2	1	31
2017	6	0	5	0	4	0	1	6	9	6	1	2	0	3	0	2	0	2	47
2018	2	0	5	0	1	0	2	7	6	2	1	1	0	0	1	0	0	3	31
2019	6	1	9	1	0	0	0	2	9	4	1	2	0	1	0	1	0	4	41
2020	4	0	6	0	0	1	1	8	4	1	0	1	0	1	2	0	1	3	33
Total	28	1	59	1	10	1	5	35	51	23	5	15	1	11	6	4	3	17	276

4.3 Top Collision Locations

A figure summarizing the locations that ranked in the highest ten for relative severity (Equivalent Property Damage Only (EPDO) methodology) and crash rates for the five-year collision analysis is included in the SSAR. For further information, please reference **Appendix C: SSAR Priority Projects** priority locations.

Since the completion of the SSAR, multiple safety projects have been implemented at many of the top collision locations, and additional improvements are being evaluated. These improvements are listed below as sub-bullets.

4.3.1 Top Collision Locations – Based on Collision Severity

As determined in the SSAR, the top intersection collision locations were identified based on relative severity (highest collision severity ranks highest). Per the SSAR recommendations, many locations have been improved. **Tables 6 and 7** below show the completed, planned, and identified projects for these locations. Identified projects are based on the recommendations from the SSAR and LRSP. These projects priority and subsequent implementation will be driven by the City and available grant funding.

Table 6 Top Intersection Locations by Collision Severity

Intersection	Completed Projects	Planned Projects	Identified Projects
E Branch Street and Short Street	Crossing improvements made in 2019 to include pedestrian-activated flashing LED lights on the pedestrian warning signs and refreshed crosswalk markings.	-	-
E Grand Avenue and Bell Street	Evaluated for mid-block crossing with a pedestrian hybrid beacon (HAWK) in last HSIP cycle 10. An additional engineering study needs to be performed to see if this location will meet CA MUTCD warrants for installation of a pedestrian hybrid beacon.	-	In the interim, a two-stage pedestrian crossing (median island in the center two-way left turn lane) is recommended on the east leg with a high visibility crosswalk, yield lines, and a pedestrian-activated Rectangular Rapid Flashing Beacon (RRFB).
E Grand Avenue and Courtland Street	-	Striping and pavement marking improvements are identified in the Capital Improvement Program (CIP).	Additional safety improvements can include adding an additional signal head per lane, retroreflective back plates, and ADA improvements with accessible pedestrian signal (APS) push buttons and countdown timers. With the completion of the commercial center on the southwest corner expected in 2022, City staff recommends that the traffic movements and signal phasing (might need to add a left turn phase for the northbound approach) and timing be reviewed for this intersection.
El Camino Real and N Oak Park Boulevard	-	-	Evaluate future traffic signal improvements to include a signal head per lane, flashing yellow left turn arrow for permissive/protected phasing, and update pedestrian push buttons to APS and provide countdown timers.
The Pike and S Halcyon Road (City/County controlled intersection)	This location was converted to an all-way stop control (AWSC) in 2019.	Evaluate future crossing improvements to include ADA ramps and crosswalks on the north and south legs.	-

Table 7 Top Segment Locations by Collision Severity

Segment	Completed Projects	Planned Projects	Identified Projects
El Camino Real – Oak Park Boulevard to Brisco Road	-	Operational improvements are included with the Brisco Road/ US 101 interchange project.	Evaluate as needed for additional safety improvements.
E. Grand Avenue – Courtland Street to Elm Street	-	Striping and pavement marking improvements with CIP project It is recommended to remove botts dots and install thermoplastic striping and pavement markings Provide continuous bike lanes as feasible.	-
Halcyon Road – Fair Oaks Avenue to Grand Avenue	-	Per the Halcyon Complete Streets Plan - A road diet is recommended in providing a center two-way left turn lane for left turns and buffered bike lanes adjacent to parking A roundabout is recommended at Halcyon Road and Fair Oaks Avenue	Pursue grant funding and evaluate project phasing to prioritize this area.
Fair Oaks Avenue – Halcyon Road to Valley Road	-	-	Provide continuous bike lanes (bike lanes end around the hospital) and green conflict marking in vehicle and bicycle conflict zones. Provide horizontal curve warning signs and/or chevrons. Provide high friction surface treatment for the downhill grade on the southbound approach to the Brisco Road intersection.
W. Branch Street – Brisco Road to Camino Mercado/US 101 Ramps	-	-	Provide green bike conflict marking for vehicle/bicycle mixing zones. Improve visibility of signalized intersections with retroreflective back plates and an additional signal head per lane. Provide a signal warning sign with flashing beacon at the top of the grade to the southbound approach to Brisco Road intersection. In the interim evaluate adding a blank out sign "NO RIGHT TURN ON RED" for the southbound right turn conflicts with the NB left protected left turn phase.

4.3.2 Top Additional Collision Locations – Based on Crash Rates

In addition to the top five intersections and top five segments based on relative severity, five additional intersections and segments were identified in the SSAR based on their crash rates. **Tables 8 and 9** show the completed, planned and identified projects for these additional locations.

Table 8 Top Intersection Locations by Crash Rates

Intersection	Completed Projects	Planned Projects	Identified Projects
Traffic Way and Allen Street	Recent improvements along Allen Street with the new Chevrolet Dealership. Recent installation of traffic signal at Traffic Way and Fair Oaks Boulevards.	-	
Valley Road and Castillo Del Mar/AGHS parking lot	Construction is underway for the realignment of Castillo Del Mar at Valley Road into a traditional perpendicular intersection.	-	-
W. Branch Street and Brisco Road	-	Brisco Road and US 101 interchange improvements will redesign this intersection.	-
E. Branch Street and Bridge Street		-	Evaluate pedestrian improvements (possibly move crosswalk on E. Branch Street to the west leg) so there are less conflicts with the turning vehicles (removes right turns from Nevada Street and Bridge Street and left turns from westbound E Branch).
E. Grand Avenue and S. Elm Street	-	-	Evaluate future traffic signal improvements to include a signal head per lane and update pedestrian push buttons to APS and provide countdown timers.

Table 9 Top Segment Locations by Crash Rates

Segment	Completed Projects	Planned Projects	Identified Projects
Bridge Street – Traffic Way to E. Branch Street	-	Evaluate removal of the post office mailboxes and conversion of the segment from Bridge Street to Nelson Street to one-way. Also recommended in Circulation Element.	-
Camino Mercado – W. Branch Street to Rancho Parkway	Recent striping improvements added a center yellow line.	-	Evaluate adding bike lanes.
Allen Street – Traffic Way to Pacific Coast Railway Place	-	-	Add a white edgeline to define parallel parking. Add high visibility crosswalks and ADA ramps to the all-way stop control intersection of Allen Street at Mason Street. City Staff to begin working with residents to identify additional solutions.
W. Branch Street – Brisco Road to E. Branch Street	-	Brisco Road at Branch and Rodeo Drive will be redesigned with the Brisco Road and US 101 Interchange Project.	-
Rancho Parkway – W. Branch Street to Via Vaquero	-	-	Provide pedestrian mid-block crossing improvements south the Via Vaquero.

4.4 Bicycle Collisions

In evaluating the bicycle to vehicle collisions in the City, seven years of data (2014-2020) was mapped by severity. There were no fatal bicycle collisions and all collisions occurred in the day except for two complaint of pain bicycle injury collisions. As shown in **Figure 6**, the bicycle collisions were focused on the E Grand Avenue, E Branch Street, and Fair Oaks Avenue corridors. In addition, a level of traffic stress (LTS) was performed on arterial and collector roadway in the 2021 Circulation Element. For reference, the LTS map is included in **Appendix D**: **Circulation Element Figures**. Many roadway segments have LTS 4 (highest stress network) due to the lack of bicycle facilities, high vehicle speeds, and roadway configuration. These high stress roadways include Oak

Park Boulevard, James Way, Rancho Parkway, Tally Ho Road, E Branch Street, Branch Mill Road, W Branch Street, El Camino Real, Brisco Road, Grand Avenue, Elm Street, Halcyon Road, Fair Oak Avenue, Valley Road, and The Pike.

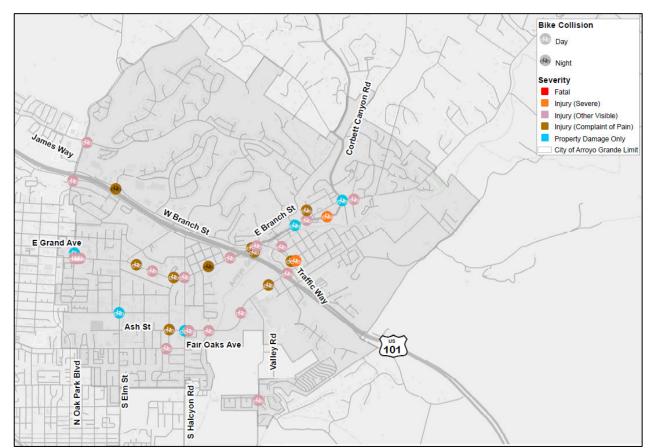


Figure 6 Bicycle Collisions (2014-2020)

4.5 Pedestrian Collisions

As shown in **Figure 7**, the pedestrian to vehicle collisions in the City were mapped for the past seven years (2014-2020) by collisions severity. There were two (2) fatal pedestrian collisions with one occurring at night (pedestrian was crossing Grand Avenue at Bell Street) and one occurred during the day (pedestrian was crossing E Branch Street at Short Street). There were also five (5) severe injury pedestrian collisions with three (3) at night and two (2) during the day. The sidewalk gaps were quantified in the Circulation Element, Background Report, and for reference the figure is included in **Appendix D**: **Circulation Element Figures**.

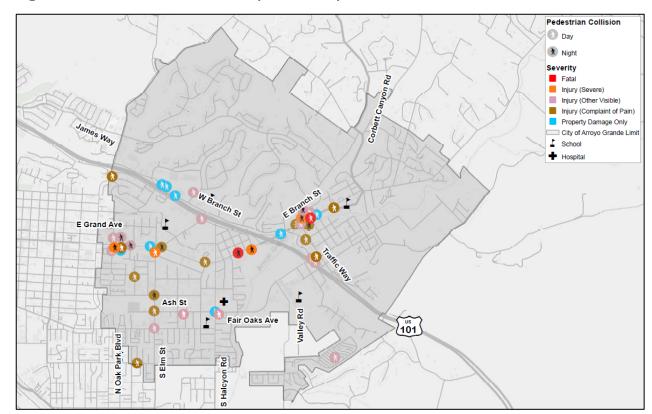


Figure 7 Pedestrian Collisions (2014-2020)

4.6 Fatal and Severe Injury Collisions

From 2014 to 2020, there were 5 fatal and 18 severe injury collisions recorded. As shown in **Figure 8**, the five fatal collisions are as follows:

- 2017 Pedestrian to vehicle collision at E. Branch Street and Short Street
- 2018 Pedestrian to vehicle collision at Grand Avenue at Bell Street (crossing mid-block)
- 2018 A single vehicle collision, hit object collision due to improper turning on El Camino Real, 770 ft east of Oak Park Blvd.
- 2019 A single vehicle, hit object collision due to DUI on El Camino Real 319 ft South of Bennett Ave
- 2019 A single vehicle, hit object collision due to DUI on Valley Road at Castillo Del Mar (Arroyo Grande High School Back Driveway)

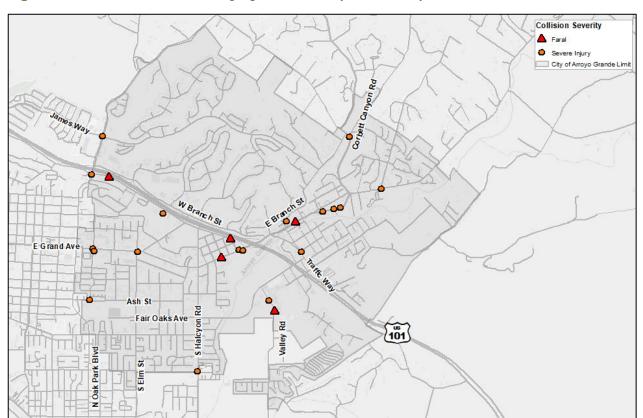


Figure 8 Fatal and Severe Injury Collisions (2014-2020)

5. Emphasis Areas

The emphasis areas determined by the working group are as follows:

- Bicycles
- Intersections
- Pedestrians
- Distracted Driving
- Aggressive Driving/Speeding
- Emerging Technologies
- Emergency Response

These emphasis areas were used in prioritizing safety projects in the SSAR and LRSP. Reference Appendix C for the SSAR prioritized list of projects.

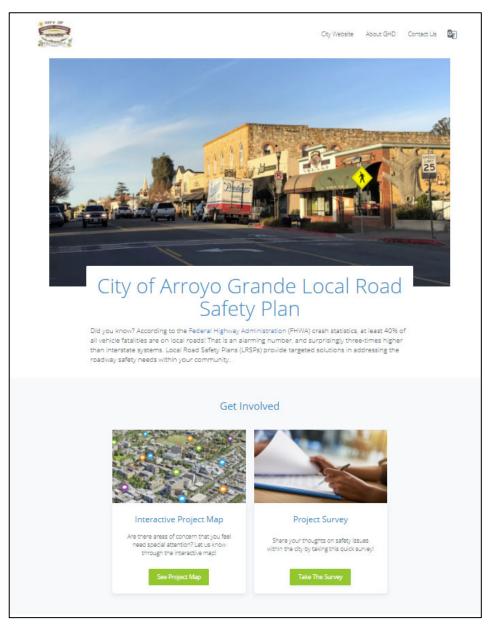


6. Public Outreach

6.1 Project Website

A project website was created on the Social Pinpoint platform to inform the public about the LRSP and provide a platform for input. **Figure 9** displays the homepage for the website found at Irsp.mysocialpinpoint.com/arroyogrande. Visitors to the page were invited to provide comments on an interactive project map and share their thoughts through a project survey. Comments from the interactive map and detailed results from the survey are included in **Appendix A: Stakeholder and Public Input.** The interactive map had comments for both the Circulation Element and Local Road Safety Plan as they were active for public comments at the same time.

Figure 9 Social Pinpoint Website Homepage

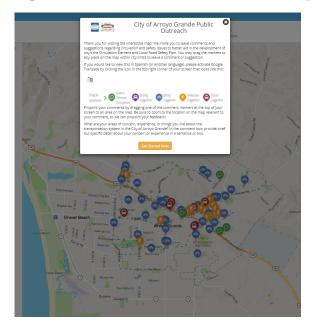


6.1.1 Interactive Map

The interactive map feature on the website allowed the public to drag icons to a location within the City and leave a comment regarding driving, pedestrian, or bicycle suggestions at that location.

Figure 10 shows the interactive map feature from the website. Some of the public concerns collected from the interactive map are as follows:

Figure 10 Public Website Interactive Map



Speeding

- Tally Ho Want traffic calming measures similar to Rodeo Drive (especially for WB)
- Grace Lane Recent speeds in excess of 60 mph
- Sunset Drive Cut through route
- E Branch St between Nevada St and Short St Public comment about vehicles speeding through segment and need for traffic calming
- E Grand Avenue, west of Courtland St Public comment about reducing speed to increase pedestrian and bicyclist safety
- S Mason St and Allen St Public comments about reducing speed (implementing traffic calming) to increase pedestrian and bicycle safety

Pedestrian

- Wayfinding for pedestrian bridge between Best Western Hotel and Oak Park Plaza
- Preferences for increased accessibility on S Mason Street
- Improve pavement markings for crosswalk at West Branch Street and Traffic Way

Biking

- Valley Road Complete the bike lanes by Arroyo Grande High School to Fair Oaks
- Grand Avenue Discontinuous bike lanes (East of Brisco, El Camino Real, around Halcyon)
- Fair Oaks Avenue No bike lanes at intersection with Halcyon (westbound), consider bike box for left turn at Traffic Way
- Halcyon Road Discontinuous bike lanes and changing typical section with travel lanes
- El Camino Real between Brisco Road and N Halcyon Road Suggestion for a separated pedestrian/bicycle path
- Brisco Road Interchange Public concern about US 101 crossing
- E Branch Street Concern about safety east of Garden Street and lack of infrastructure at Crown Hill Street
- E Branch St between Crown Hill St and Huasna Rd Public comments about providing protected bicycle infrastructure and removing parking to provide safer bicycle routes for students in both directions

7. Identify Strategies

Through coordination and feedback from the City of Arroyo Grande, LRSP working group, and public outreach, the Local Road Safety Plan identifies safety projects and strategies.

The LRSP will discuss engineering strategies and projects as well as the other E's to include Enforcement, Education, Emergency Response, and Emerging Technologies. Engineering strategies will include both a reactive approach (based on the past collision history) and a proactive approach (systemic application to locations with similar risk factors for future collisions but not currently experiencing a collision issue).

7.1 Engineering Strategies

Engineering strategies and projects are presented in **Table 10** based on feedback from the City, Stakeholder Working Group, public outreach, and engineering analysis. Some countermeasures identified in the SSAR were already implemented or are part of upcoming planned projects. The countermeasures listed below represents projects that were not yet implemented, and other projects identified since the SSAR process.

Table 10 Engineering Countermeasures

Countermeasure	Location	LRSM ID	Description
Pedestrian improvements at signalized intersections	Intersections of: E Grand Ave at Courtland St E Grand Ave at S Elm St E Grand Ave at S Halcyon Rd El Camino Real at Brisco Rd and/or Systemically at other City signalized intersections	S17PB	Install pedestrian countdown signal heads
		S18PB	Install pedestrian crossing
		S21PB	Modify signal phasing to implement a Leading Pedestrian Interval (LPI)
Non-pedestrian improvements at signalized intersections	Intersections of: E Grand Ave at Courtland St E Grand Ave at S Elm St E Grand Ave at S Halcyon Rd El Camino Real at Brisco Rd and/or Systemically at other City signalized intersections	S02	Improve signal hardware: lenses, back-plates with retroreflective border, mounting, size and number
		S03	Improve signal timing (coordination, phases, red, yellow, or operation)
		S07	Provide left turn phase (left turn lane already exists)
Pedestrian improvements at uncontrolled locations	Intersections of: E Grand Ave at Bell St - East leg crossing E Grand Ave Nelson St at Traffic Way Rancho Pkwy at Via Vaquero The Pike at Garfield Pl and/or Systemically at other City uncontrolled locations	NS19PB	Install raised medians/refuge islands
		NS20PB	Install pedestrian crossing at uncontrolled locations (signs and markings only)
		NS21PB	Install pedestrian crossing at uncontrolled location with enhanced safety feature (RRFB, Curb Extensions) (where applicable)
Bike lane improvements along segments	El Camino Real from N Oak Park Blvd to Grand Ave W Branch St from N Oak Park Blvd to Camino Mercado Valley Road -Approx. 600 ft S of Fair Oaks Ave Fair Oaks Ave - 650 ft E of Halcyon Rd Grand Avenue -Provide continuous bike lanes	R32PB	Install bike lanes
		-	Install green marking for bicycle lane conflict zones / install bike boxes where appropriate
Road diet	Halcyon Rd from Fair Oaks Ave to E Grand Ave Oak Park Boulevard from E Grand Ave to Atlantic City Ave	R14	Evaluate Road Diet (Reduce travel lanes from 4 to 3 and add two way left-turn and buffered bike lanes)
Signage improvements	Locations determined through a citywide sign audit	R22	Install/Upgrade signs with new fluorescent sheeting (regulatory and waring signs)
Curve related Improvements	N Oak Park Blvd from Atlantic City Ave to Chilton St Fair Oaks Ave from Halcyon Rd to Valley Rd	R23	Install chevron signs on horizontal curves (where applicable)
		R24	Install curve advance warning signs
Striping and pavement marking improvements	E Grand Avenue from El Camino Real to Courtland St	R28	Install thermoplastic edgelines and centerlines and pavement markings
		-	Remove botts dots and provide guide marks for offset lanes through intersection (e.g. Halcyon Road, Elm St)
Speed management	Traffic Way at US 101 NB Off-Ramp Grace Lane North or Rodeo Drive Tally Ho from SR 227 to James Way Sunset Drive from Elm St to Alder St	R24	Install Dynamic/variable speed warning signs
		•	Additional Enforcement
		-	Evaluate Traffic calming measures to include speed cushions, travel width narrowing, parking delination and/or separate bikeway, etc. (traffic calming needs to adhere to City policy)

7.1.1 Other Recommended City Projects

Pedestrian crossing improvements are recommended at the existing mid-block crossing at Nelson Street and Traffic Way, at the proposed mid-block crossing at Grand Avenue at Bell Street (closest crossing is at Halcyon Road and Traffic Way on Grand Avenue), and at a proposed midblock

crossing at Rancho Parkway at Via Vaquero based on the high risk characteristics associated with uncontrolled pedestrian crossings. With these improvements, it is recommended to provide or evaluate the lighting for the pedestrians crossing at night.

Grand Avenue at Bell Street

 Propose midblock crossing with ped refuge island and RRFB



Rancho Parkway at Via Vaquero

 Propose midblock crossing with pedestrian refuge island and RRFB



Nelson Street and Traffic Way

 Proposed Pedestrian Crossing Enhancement and RRFB





7.2 Non-Engineering Strategies

7.2.1 Education



Education strategies are listed below.

- Pedestrian education campaigns street crossing "dos and don'ts", wear bright clothing and have a light at night
- Driver and bicyclist education and resources
- Safe route to school maps and outreach at schools
- Social media blasts with quick education tool for all users
- Pop up campaigns
 - April is distracted driving month, City should aim to have an outreach campaign (can be funded by Office of Traffic Safety grants)
- School safety campaigns

7.2.2 Emerging Technologies

9

Possible emerging technologies strategies are listed below.

Bicycle detection at traffic signals

- Bicycle detection is obtainable at traffic signal with video detection technology. Currently, the City of Arroyo Grande only has one signal with this technology (Traffic Way and Fair Oaks Avenue)
- Changeable message signs
 - Police Department currently has two portable changeable message signs. The second sign was recently purchased through a grant
- City recently purchased a data collector for speed and volumes
- Update older technology (traffic signals, speed feedback signs, etc.)

7.2.3 Enforcement



Enforcement strategies are listed below.

- During the development of the LRSP the City added a full-time motor office, supplemented by a part time motor office.
- Targeted speed enforcement
- DUI saturation patrols

7.2.4 Emergency Response



Emergency response strategies are suggested below.

- Provide Administrative Staff
- Continue Save a Life PulsePoint Responder (smartphone app designed to empower everyday citizens to save a life)
- Continue Emergency Preparedness Information

8. Implementation Process

In evaluating how to implement safety projects, a prioritized list of projects with additional systemic projects is included in **Appendix C: SSAR Priority Projects**. The City of Arroyo Grande will look for opportunities to incorporate safety enhancements with the Capital Improvement Program. However, funding is very limited and typically used for roadway paving and maintenance. Additional funding opportunities can come through grant funding to include HSIP, ATP, and CMAQ.

8.1 Implemented/Planned Projects

Since the completion of the SSAR, multiple safety projects have been implemented throughout the City. Some improvements are as follows:

- At the intersection of E. Branch Street and Short Street crossing improvements were made to provide pedestrian activated flashing warning signs on E. Branch Street.
- The intersection of The Pike and S. Halcyon Road was converted from a two-way stop to an all-way stop in 2019 and is no longer a high priority intersection.
- Due to the improvements made at the intersection of Fair Oaks Avenue and Traffic Way, the intersection of Traffic Way and Allen Street has seen operational improvements. A signal was installed in July 2019 that improved signage and pavement markings near Allen Street and has helped create gaps in traffic for those turning from Allen Street.
- Coordination is underway for the relocation of the bus loading zone on Valley Road
 adjacent to Arroyo Grande High School. The bus loading zone is planned to be relocated to
 the back parking lot which will allow continuous bike lanes on Valley Road adjacent to the
 high school through a roadway restriping project.

9. Evaluation Process

To evaluate the success of this plan, yearly collision analysis, along with requests for public feedback, can take place and be compared to the established goals and measure of success.

For the LRSP goals the measure of success should be **SMART**:

Specific – clear action item description

Measurable – identified performance measures

Achievable – committed resources by responsible organization

Relevant – statewide significance and data-driven issue and countermeasure

Time Constrained – achievable within the LRSP time frame

In following this methodology the LRSP goals and measure of success are defined below:

Goal: Reduce the potential for fatal and severe injury collisions Citywide

 Measure of Success: A downward trend with fatal or severe injury (FSI) collisions over the next five (5) years.

Goal: Reduce the potential for rear-end collisions Citywide

connected systems.

Measure of Success: A decrease in "rear-end" type collisions by 5% over 5 years.

 Measure of Success: A decrease in pedestrian and bicycle involved collisions in the next five (5) years. This could be attributed to an increase in multimodal facilities and

Goal: Reduce the potential for bicycle and pedestrian collisions Citywide.

Goal: Improve the health and vitality of our community with a safety plan that encourages safety for pedestrians and bicyclists that is targeted to Arroyo Grande's local roadway needs

 Measure of Success: If this goal is successful, residents will express an increased feeling of safety while using Arroyo Grande's transportation systems. Additionally, the number and severity of collisions each year will trend downward in the next five (5) years.

Goal: Improve safety around schools with a connected multimodal system and improved crossings

- Measure of Success: An evaluation of improvements to the multimodal transportation infrastructure around schools will capture the effectiveness of this goal.
- A downward trend in the number of collisions within five hundred feet of schools over the next five (5) years.
- Goal: Increase walking, biking, rolling (wheelchair, skateboard, scooter, etc.) to the downtown district, to work, and to school.
 - Measure of Success: Increase in multimodal infrastructure and improvements and subsequent pedestrian and bicycle counts.
- Goal: Improve safety at uncontrolled crossings
 - Measure of Success: Increase safety improvements at uncontrolled crossing locations (2 per year) with a reduction of collisions occurring at these locations will determine if this goal is met.
- Goal: Increase driver and pedestrian education
 - Measure of Success: An increase to the number of public education and information campaigns initiated by the City in the next five (5) years will determine if this goal has been met.
- Goal: Reduce distracted driving

 Measure of Success: A decrease in "
 - Measure of Success: A decrease in "Distracted Driving" violations after implementing engineering, enforcement, education, and emerging technologies will determine if this goal is met.



- Goal: Improve bike safety with additional bikeways and green bike lanes for vehicle to bicycle conflict areas
 - Measure of Success: An increase to the amount of bikeways and green bike lanes at conflict areas in next five (5) years will determine if this goal is met.
- (11)
- Goal: Increase traffic enforcement
 - Measure of Success: A reduction in community reports and complaints and an additional motorcycle police officer.
- 12
- Goal: Receive grant funding for LRSP identified projects
 - Measure of Success: Successful grant applications for federal and state funding for the Local Road Safety Plan identified projects and other applicable safety projects/plans (grant application for an Active Transportation Plan was recently submitted in 2021) in the next five (5) years.

10. Next Steps

The City of Arroyo Grande's Local Road Safety Plan is scheduled to go to City Council in January 2022. This safety plan will be a living document and will guide the City's roadway safety needs for the next five years. It will be updated as needed and the goals will be evaluated every two (2) years.

11. References

Traffic Data

- Statewide Integrated Traffic Records System, 2014-2018.
- Transportation Injury Mapping System, 2014-2018.
- Collision Data, City of Arroyo Grande, 2014-2020.

Manuals

- "Developing Safety Plans, A Manual for Local Rural Road Owners", Federal Highway Administration, March 2012, http://safety.fhwa.dot.gov/local_rural/training/fhwasa12017/.
- 2020-2024 California's Strategic Highway Safety Plan (SHSP), "California Safe Roads: 2020-2024 Strategic Highway Safety Plan", Caltrans.
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- "Highway Safety Manual", American Association of State Highway Officials (AASHTO), 1st
 Edition, 2014 supplement.
- "California Manual of Uniform Traffic Control Devices (CA MUTCD)", Revision 5, 2014.

Websites

- California Department of Transportation, "Strategic Highway Safety Plan (SHSP)", https://dot.ca.gov/programs/safety-programs/shsp.
- California Department of Transportation, "Local Roadway Safety Plan (LRSP) and Systemic Safety Analysis Report Program (SSARP)", https://dot.ca.gov/programs/local-assistance/fedand-state-programs/highway-safety-improvement-program/local-roadway-safety-plans.
- California Department of Transportation, "HSIP Cycle 10", https://dot.ca.gov/programs/local-assistance/fed-and-state-programs/highway-safety-improvement-program/apply-now.
- City of Arroyo Grande Local Road Safety Plan, https://lrsp.mysocialpinpoint.com/arroyogrande.
- Institute of Transportation Engineers, https://www.ite.org/technical-resources/topics/safesystems/.



about GHD

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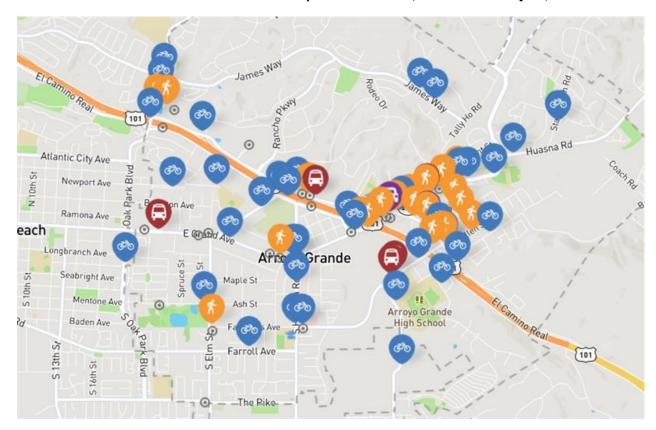
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Public Comments collected via Interactive Map - December 15, 2020 to February 25, 2021



Driving Comments

ID	Comment	Marker Location	Latitude	Longitude
	Often drivers will wait to the last minute and then go			
	straight. Many already turned right back at the USPS drop.			
	Just make this a bike / bus only segment that allows right			
	turns if needed, instead of a Right Turn only lane that people			
	misuse. Make the right turn at the USPS boxes "Right Turn			
D-1	Only" instead.	Traffic Way and Nelson St	35.121364	-120.578048
	Court humains left have sometiment and instantion to the court of the			
	Cars turning left here must navigate traffic coming from 2			
	different lights, 2 different driveways, and pedestrians in the			
D-2	crosswalk. It's dangerous for everyone involved.	E Grand Ave and W Branch St	35.122131	-120.581979

Biking Comments

	9 0011111101110	1	1	
ID	Comment	Marker Location	Latitude	Longitude
	Possibly an isolated pedestrian path on the north side of el			
	camino that would funnel cyclist and pedestrian onto a			
	shared path under the 101 towards Branch street. It would			
	allow cyclist to cross Brisco, west bound, easier as well.			
	I constantly ride on this short stretch of el camino west			
	bound past Brisco and have to fight for space in traffic as cars			
	race to turn right on Brisco towards 101 north bound. The	El Camino Real btwn Brisco Rd and N		
B-1	light is a no turn on red, so cars urgently try to make the turn.	Halcyon Rd	35.123708	-120.592804
	This area is a major concern for cyclist to pass to branch			
	street. choosing between the sidewalk and the busy road.			
	Updating the sidewalk to allow cyclist easily flow into a safe			
B-2	space to cross the 101.	Brisco Rd north of El Camino Real	35.123906	-120.593387

ID	Comment	Marker Location	Latitude	Longitude
	adding the class 2 bits lane would be a big when by	C Helevan Del betwee Devil Marine and		
	adding the class 2 bike lane would be a big plus, but reducing		05 446055	400 504500
B-3	speed limit would make bikers feel more comfortable.	Dodson Way	35.116255	-120.591598
	At around 44' across, this could also fit an uphill bike lane.			
	2x7.5' parking, 2x 11' travel lanes, and a 7' bike lane uphill			
B-4	with sharrows downhill.	Stagecoach Rd south of Platino Ln	35.129907	-120.564587
	This is a designated "bike boulevard" in the city's bike			
	master plan. Cars don't know that, so merging into 1 lane			
	here for the sake of on-street parking becomes pretty			
	dangerous. There are 10 on street parking spaces on each			
	side of this block. Usually at least half unused. Not sure that			
B-5	justifies the use of road space.	W Branch St east of Traffic Way	35.122661	-120.58067
	Might be Pismo, but a bike lane to the right of a right turn			
	only lane only works if you slow down traffic and make the			
B-6	right of way more obvious.	Intx of Oak Park Blvd and James Way	35.133879	-120.605292
	Just get rid of the overly long merging lane and use the			
	space for better bike lanes on both sides. The buses will be			
B-7	able to handle it.	Huasna Rd east of SR 227	35.12715	-120.56918
	Bike lane ends as road expands to three lanes. "Good luck			
B-8	cyclists!"	Valley Rd south of Fair Oaks Way	35.114617	-120.581296
	Some sections here are wide enough for a full-fat bike lane,			
	instead of a bike boulevard, as long as you simply count how			
	much parking is needed for the church days. Would also	Newport Ave btwn Courtland St and		
B-9	reduce speeding in addition to the speed bumps.	Montego St	35.124265	-120.604391
	People can (and should) use bike lanes to turn right, so just	1.0		
	make a wide bike lane eastbound instead of a disappearing			
B-10	bike lane into a right turn only lane.	E Grand Ave and Halcyon Rd	35.11854	-120.591953
	Northbound bike lane starts far from the intersection.		55122551	120.00100
B-11	Conflict point at the McDonald's entrance.	El Camino Real and Cornwall Ave	35.121393	-120.586282
J 11	You could fit bike lanes and discouraging speeding by adding	Er carimio near ana communi ///c	33.121333	120.300202
	them, for just the cost of paint.			
	Further up Orchard there is no parking and you should	Orchard Ave btwn Pilgram Way and		
B-12	definitely reduce the width there also.	W Cherry Ave	35.116124	-120.576563
D-1Z	As with a number of bike lanes in the city, the bike lane here	W Cherry Ave	33.110124	-120.370303
	is half gutter. The gutter is not part of the road and can lead	James Way btwn Mesquite Ln and		
B-13			25 122620	120 570771
D-13	to some dangerous conditions for cyclists.	Village Glen Dr	33.132036	-120.578771
D 14	Ash St should absolutely have a safe bike lane. No reason	Ash Church of C Floo Ch	25 44 45 20	120 (01172
B-14	every trip to the sports complex needs to be by car.	Ash St west of S Elm St	35.114538	-120.601172
D 45		El Camino Real btwn Brisco Rd and N	25 422500	420 502406
B-15	No bike lane westbound, just sharrows for a long time.	Halcyon Rd	35.123506	-120.592486
D 10	Protect this bike lane with XLP channelizers to reduce	Traffic Way btwn E Cherry Ave and S	25 44702	120 57404
B-16	offramp speeding.	Traffic Way	35.11792	-120.57491
	A Bike Boulevard may be insufficient to get elementary			
	school kids to bike. You'll need to make it very high quality,			
	and the Ocean View drop off areas would need to be			
B-17	monitored.	Montego St and Linda Dr	1	-120.599843
	Farroll is the same width here as it is to the west, so there's	Farroll Ave btwn Walnut St and Pecan		
B-18	no reason for the bike lane to just disappear.	St	35.110795	-120.59646

ID	Comment	Marker Location	Latitude	Longitude
	There's also a magically appearing bike lane on this side of			
	the intersection (Westbound). The parking should be			
	removed directly next to the intersection and the bike lane			
B-19	made continuous.	S Halcyon Rd and Fair Oaks Ave	35.112757	-120.591785
	The bike lanes are so faded that Chevy customers think they			
B-20	can park here instead of just around the corner.	Traffic Way and Poole St	35.120375	-120.576871
	You could probably fit an uphill bike lane and a downhill	Brisco Rd btwn Linda Dr and El		
B-21	sharrow on Brisco without removing parking.	Camino Real	35.122543	-120.595191
	The outer travel lanes are 15+ ft while the bike lane is	Oak Park Blvd bridge south of W		
B-22	substandard. Do not let CalTrans get in the way of fixing that.	Branch St	35.130087	-120.606707
B-23	No bike lane uphill is brutal. I use the sidewalk.	Oak Park Blvd south of James Way	35.132762	-120.605618
	Bike lane frequently gets sandy here. Provide regular			
B-24	sweeping.	W Branch St west of Rodeo Dr	35.124238	-120.591494
	The parking demand here is low on the north side. Consider			
	removing north side parking for a bike buffer, especially for	James Way btwn Colina St and Village		
B-25	fast moving cyclists downhill where a dooring could be fatal.	Glen Dr	35.131717	-120.577268
	There is parking allowed here, and therefore this isn't even a			
	bike lane on the south side. One parked car and you have to			
B-26	merge with fast traffic uphill.	Branch St and Sterling Dr	35.125078	-120.5739
2 20	Turning left onto Fair Oaks is tricky. Consider a bike box or	Drainer et and eterming 5	00.12200.0	120.07.00
B-27	two stage turn configuration to facilitate.	Fair Oaks Ave and Traffic Way	35.119686	-120.576221
5 2,	Make this an actual bike lane and maintain it like one.	Tan Saks / We and Traine Way	33.113000	120.370221
	Calling it a shoulder implies you don't have to maintain it			
	like a bike lane, when we know kids are using the shoulder	Valley Rd btwn Fair Oaks Ave and Los		
B-28	to bike to school.	Berros Rd	35.109234	-120.58072
D 20	These bike lanes are better than the previous 35mph no-	Deli os Na	33.103234	120.30072
	bike-lane condition, but the addition of parked cars on one			
	side detracts from it. The bike lane is a door zone near the			
	parked cars and should be wider. The city standard details			
	should have all-ages-and-abilities bikeways as standard	E Cherry Ave btwn Pacific Coast		
B-29	following NACTO.	Railway Pl and Leedham Pl	35.120452	-120.571616
D-23	While this has improved since my time at Paulding, it's still	Italiway Fi aliu Leeuliani Fi	33.120432	-120.571010
	nowhere near acceptable. The door zone bike lanes going			
	uphill are dangerous, and the substandard width bike lane			
D 20	going downhill combined with high pedestrians at release	E Branch St east of Cardon St	25 125251	120 571106
B-30	time are also dangerous.	E Branch St east of Garden St	35.125351	-120.571196
	Lack of protected infrastructure here makes this an unsafe			
D 24	route to school, should kids want to bike to school. Students	E Bosos shi Ct and Cossons Hill Ct	25 425020	420 574727
B-31	should have a safe route to school.	E Branch St and Crown Hill St	35.125038	-120.574737
	The bike lane approaching and at the intersection here is			
	faded, basically gone, at this point. It's also hard to navigate			
	a left turn from the bike lane here when cars in the			
	rightmost lane can turn left or go straight. These conditions			
	make this intersection unsafe and unusable for most on			
B-32	bike.	Traffic Way south of W Branch St	35.122278	-120.581002
			05	100
B-33	The bike lane here is not marked.	W Branch St east of Camino Mercado	35.128968	-120.601333
	Ending the bike lane here and dropping cyclists into fast			
B-34	moving traffic makes this route unsafe and unusable.	S Oak Park Blvd and Manhattan Ave	35.117855	-120.609283
	Traffic on Fair Oaks moves at 40mph. The unprotected lane			
	here is not safe. A protected lane should be provided in	Fair Oaks Ave btwn California St and		
B-35	order to make this a feasible and safe route to school.	Orchard Ave	35.118192	-120.578985

ID	Comment	Marker Location	Latitude	Longitude
	There is no dedicated space for bikes approaching this			
	intersection when going west on Fair Oaks. The bike lane has			
	been removed for a right turn lane. This makes drivers			
	impatient and creates unsafe conditions for cyclists. As this			
	is a route to school, safety for cyclists here should be a			
B-36	priority.	Fair Oaks ave and S Halycon Rd	35.11268	-120.591023
	The bike lane heading west from Halcyon on Grand isn't			
B-37	marked, which makes this route unsafe and unusable.	E Grand Ave and Halcyon Rd	35.118561	-120.591602
	Lack of a bike lane here makes this route unsafe and			
	unusable. The proposed improvements mark this as a			
	proposed sharrow. That is not safe given that cars are			
	moving at 35mph here. A bike lane (preferably protected) is			
B-38	needed here.	E Grand Ave east of El Camino Real	35.120597	-120.585573
	The break in the bike lane here makes this route unsafe and			
B-39	unusable.	E Grand Ave east of Brisco Rd	35.119978	-120.598469

Pedestrian Comments

ID	Comment	Marker Location	Latitude	Longitude
	Pedestrians cross here, and will continue to cross here			
	whether or not there is a marked crosswalk. There should	W Branch St btwn Traffic Way		
P-1	be a marked crosswalk to make it safer.	and Bridge St	35.122769	-120.579967
	No reason for a beg button here. Are we surprised by			
	pedestrian traffic at this intersection? Leading interval is			
	also necessary. Lots of eager drivers aggressively trying to			
P-2	make the turn in front of pedestrians.	E Branch St and S Mason St	35.124281	-120.576582
	No reason for a beg button here. There is plenty of			
	pedestrian traffic at this intersection. Making pedestrians			
	wait a full light cycle because they pushed the button 2			
P-3	seconds late is really disrespectful.	Fair Oaks Ave and Traffic Way	35.119708	-120.5764
	There is no marked crosswalk on the north side of this			
	intersection and the curb cutout is misaligned with where			
	the marked crosswalk should be, creating unsafe			
	conditions for pedestrians and cyclists traveling to and			
P-4	from the park.	S Elm St and Fair Oaks Ave	35.112662	-120.600357
	This bus stop serving the library has no bench, no shade,	W Branch St and Library		
P-5	and no sidewalk.	driveway	35.12377	-120.590272
	Extremely dangerous, and we make it worse by not having			
	a north side crosswalk at Fair Oaks. Add an RRFB, remove			
	adjacent parking, push the bike lane towards the curb and			
	provide refuge islands between the bike lanes and travel			
P-6	lanes.	Traffic Way and Nelson St	35.121296	-120.578148
	This bridge is nice and should be better marked so people	Ped Bridge btwn Best Western		
P-7	use it.	and Oak Park Plaza	35.131213	-120.604949
	The cars get yield teeth merging onto traffic way. The			
P-8	crosswalk should also get Yield Teeth.	W Branch St and Traffic Way	35.122293	-120.581404
	Hope you're not ADA because this sidewalk has been taken			
	over by Ford. And there's no sidewalk on the other side of	Station Way north of Fair Oaks		
P-9	the street either.	Ave	35.119398	-120.577543
	Could use a "Yield HERE to Peds" sign to make the stop bar			
P-10	more useful. Also RRFB, bulbouts, etc.	E Grand Ave and Alder St	35.118602	-120.593195

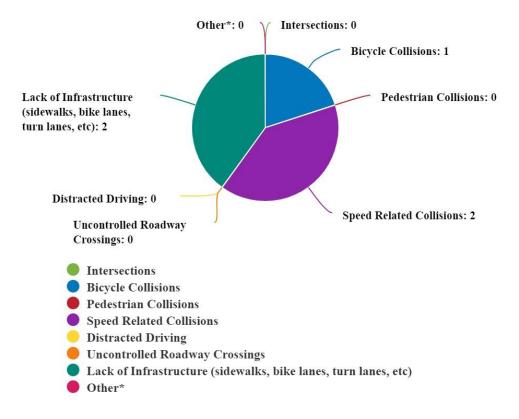
ID	Comment	Marker Location	Latitude	Longitude
	The dual lane capture point for the onramp just serves to			
	widen the pedestrian crossing, and serves little purpose.			
	Plus, longer light cycles due to long pedestrian crossing	E Grand Ave and US 101 SB On		
P-11	times.	Ramp	35.120837	-120.584244
	Where even IS the pedestrian crosswalk supposed to be?			
P-12	20 feet behind the stop lines? It's silly.	Traffic Way and Station Way	35.121827	-120.579449
	There's no reason to have a 50 foot corner radius if semis	E Grand Ave and US 101 SB Off		
P-13	can just use the outer lane during a turn.	Ramp	35.120884	-120.585004
	No marked crosswalk to actually get to this sidewalk up to			
P-14	the houses and shopping center.	N Oak Park Blvd and Branch St	35.131316	-120.606024
	This crosswalk was improved, but it should be made even			
P-15	better with concrete to reduce the street width.	Crown Hill St at E Branch St	35.12514	-120.574973
. 13	better with contract to reduce the street with	Crown run Stat E Branar St	33.12311	120.37 1373
D 1C	Create bulb outs (and set the stop bars back so trucks can	F Duningly Change Ch	25 124400	120 576464
P-16	still turn)	E Branch St and S Mason St	35.124499	-120.576464
	Chan be a his to be a set in the			
P-17	Stop bar at intersection is literally in the direct walking path between curb ramps.	Nelson St and S Mason St	25 122067	-120.575316
1/	Narrow sidewalk is often blocked by cars, posing an	Neison St and S Mason St	33.122007	-120.373310
	accessibility blocker for wheelchair users who then have to			
P-18	use the street.	S Mason St and Poole St	35 121887	-120.574615
-10	use the street.	5 Mason St and Foole St	33.121007	-120.374013
P-19	Leading pedestrian interval for safer crossing.	Fair Oaks Ave and Traffic Way	35.119646	-120.576314
	Consider enabling all pedestrian crossings without the			
	need for the beg button. Wide curb cutouts to facilitate			
	and encourage fast moving traffic, like at this intersection,			
	make it unsafe to cross if I approach this crossing during a			
	green light, with time to cross, but after having the			
	opportunity to use the beg button. This creates a delay for			
	pedestrians since they then need to wait another full light	E Grand Ave and US 101 NB On		
P-20	cycle.	Ramp	35.121734	-120.582848
	Mason and Allen are commonly used as routes for traffic to			
	cut through from E Branch to Branch Mill. Most traffic			
	through here is speeding above 25mph, which creates			
	unsafe conditions for pedestrians and cyclists (many			
	children) in the neighborhood. Consider traffic calming			
P-21	measures here.	S Mason St and Allen St	35.120633	-120.573492

Transit Suggestion

ID	Comment	Marker Location	Latitude	Longitude
	the speed limit needs to be reduced here. It would cause			
	pedestrians to feel safer when crossing. And slowing			
	transit would cause more recognition of store fronts and	E Branch St btwn Nevada St and		
T-1	businesses.	Short St	35.123688	-120.578125
	Reduce speed limit on Grand to provide more recognition			
	of store fronts and allow pedestrians and cyclist to feel	E Grand Ave west of Courtland		
T-2	safer and more inclined to take this route.	St	35.120646	-120.605893
	It's a little unfortunate that the library can only be reached			
	by a bus that runs one direction. A traffic light at Branch			
	and Grand would probably allow the buses to continue			
T-3	down Branch instead of getting onto the freeway.	W Branch St at Library driveway	35.123567	-120.589606
	Specifically we could do level boarding for both east and			
	westbound stops. Would be more equitable for ADA			
T-4	school kids as well.	Fair Oaks Ave east of Valley Rd	35.117185	-120.581508
T-5	We can engineer a westbound bus stop that makes sense.	Fair Oaks Ave east of Valley Rd	35.11692	-120.581805
	Instead of exposed bike racks, use bike lockers that can be	El Camino Real btwn N Halcyon		
T-6	locked with a personal lock like a U-lock on the door.	Rd and Feah Ave	35.122767	-120.590205

City of Arroyo Grande LRSP Public Survey Results

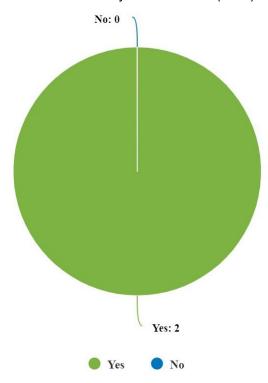
Q1. What are the main roadway safety issues in Arroyo Grande? Check all that apply.



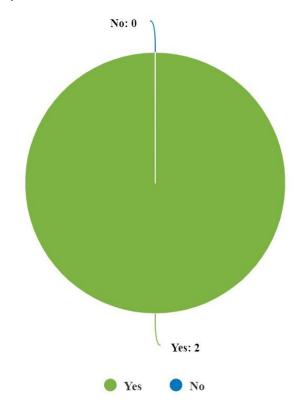
Q2. If other, Please list

No response –

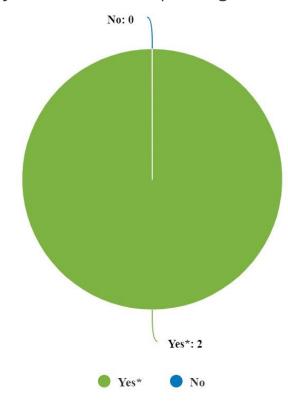
Q3. Are you familiar with how Pedestrian Hybrid Beacons (PHB) work?



Q4. Would you be interested in an educational component for PHBs (e.g. a video or infographic)?



Q5. Do you have any concerns about speeding on local roads?



Q6. *Please list specific locations and any recommendations you may have.

- 1. The village!!!! Make the speed limit 15 mph, put a bike lane, and have cars park on one side of the street or behind businesses so that people and families have space to comfortably ride their bikes and walk around without cars speeding by.
- 2. The village. Speed is 25 mph but people rush through anyways. It is difficult to leisurely ride a bike through that area due to this , and biking on the side walk is not a good option due to the busy store fronts. Also in the Halcyon/grande area the speed limit is 40 mph in some places with no area for bikes. These suggestions have also been added to the interactive map. *

Q7. What roadway improvements would you like to see in and around school zones?

- No Responses -

Q8. What other improvements would you like to see?

- 1. Isolated pedestrian/bike paths. The proposed plans for the lanes and path are wonderful and I hope all of them can be completed soon! These paths are a great opportunities that prompt people to be outside. I hope the Grand 101 overpass can be improved for bike crossing. Biking and even walking that section feels very exposed to the cars getting on the 101. I am a professional cyclist and avoid this area of grand because of this and the lack of a bike lane.
- 2. More bike lanes!!!!!!!

Q9. Additional Comments

- No Responses -

DEPARTMENT OF TRANSPORTATION

50 HIGUERA STREET SAN LUIS OBISPO, CA 93401-5415 PHONE (805) 549-3101 FAX (805) 549-3329 TTY 711 http://www.dot.ca.gov/dist05/



Flex your power! Be energy efficient!

May 29, 2018

Matthew Downing, Planning Manager City of Arroyo Grande Community Development 300 East Branch Street Arroyo Grande, CA 93420

Dear Mr. Downing:

Thank you for the opportunity to review your agency's draft 2018 *Halcyon Road Complete Streets Plan*. Caltrans supports the plan's main objective to provide safe mobility and accessibility throughout the corridor while connecting people, schools, the hospital and local businesses with multimodal travel options for all users. We also appreciate how it advances the state's high sustainability goals of tripling bicycling, and doubling walking and riding transit by 2020.

Caltrans commends the city's efforts to implement the plan's conceptual improvements into a capital project in the Active Transportation Program (Cycle 4). We also thank your agency for addressing our comments submitted in correspondence to the city on November 28, 2017. Please include a copy of that letter (see attached) and this one in the plan's appendices for future reference.

Please note the draft plan is a planning-level-only document. The feasibility and design standards will need to be studied further as this plan moves forward. Caltrans' comments regarding this document are <u>not</u> considered approval for any proposed concepts. Overall, the draft plan features understanding of the issues, deficiencies and collaboration needed to address them as well as potential solutions.

Proposed Improvements

We support the concept for two roundabouts at Highway 1/Halcyon Road (north and south). The plan should specify, as these projects move toward implementation, more traffic and network analysis would be necessary as required in the *Highway Capacity Manual (HCM)* Sixth Edition: A Guide for Multimodal Mobility Analysis. It should also note, if a proposed highway improvement requires a deviation of design standards, Caltrans must approve the deviation prior to commitments on the specific geometrics.

We appreciate the plan's acknowledgment that state highway intersection improvements are subject to Caltrans' review and approval via the Intersection Control Evaluation (ICE) process. Please consider further discussing and listing the plan's proposed improvements in separate categories, including the most feasible for funding, construction and

Matthew Downing, Planning Manager May 29, 2018 Page 2

implementation; long and short-term priorities; long-term maintenance costs and responsibilities; and those likely to be built in phases.

Cross Sections

Please note several of the plan's existing and proposed cross sections show the gutter pan as part of the travel lane width. Although this is typical for bicycle lanes, it does not apply to vehicular travel lanes.

Bicycle and Pedestrian Travel

We recommend referencing the Caltrans 2017 State Bicycle and Pedestrian Plan, Toward an Active California. This plan guides the planning and development of non-motorized transportation facilities and maximizing the use of future investments on the state highway system and other state facilities. The document is available online at: http://goactiveca.org/

Senate Bill 743 (2013)

For better consistency with SB 743, we recommend future traffic studies address projects reducing Vehicle Miles Traveled (VMT) generation and improving pedestrian, bicycle and transit service, and infrastructure—in addition to level of service analysis for transportation impacts regarding proposed local development.

More information at: http://www.dot.ca.gov/hq/tpp/documents/RevisedInterimGuidance11092016.pdf

Community Visioning

We compliment the city on its excellent community visioning and extensive outreach to develop the draft plan, which appears to maintain consistency with other relevant state and local plans and/or proposed improvements.

Regional Transportation Plan/Sustainable Community Strategy (RTP/SCS)

Once the city adopts the 2018 *Halcyon Complete Streets Plan*, we recommend including the proposed improvements—supported by Caltrans as conceptually feasible only—into the San Luis Obispo Council of Governments' current RTP/SCS for funding potential. The proposed projects should be listed along with lead agencies identified.

In conclusion, it is our desire to work closely with the City of Arroyo Grande in developing the most efficient, safe and sustainable transportation system for all users. If you have any questions, please contact me at 805-549-3648 or email <u>cindy.utter@dot.ca.gov</u>.

Sincerely,

CINDY UTTER

Associate Transportation Planner

DEPARTMENT OF TRANSPORTATION

CALTRANS DISTRICT 5 50 HIGUERA STREET SAN LUIS OBISPO, CA 93401-5415 PHONE (805) 549-3101 FAX (805) 549-3329 TTY 711 www.dot.ca.gov/dist05/



August 11, 2021

Robin Dickerson City Engineer 300 East Branch Street Arroyo Grande, CA 93420

Dear Ms. Dickerson:

Thank you for the opportunity to review your agency's final 2021 *Local Road Safety Plan* (LRSP). Caltrans supports how the plan builds on the collision analysis from the Systemic Safety Analysis Report (SSAR) and addresses in partnership the five Es of traffic safety: engineering, enforcement, education, emergency services, and emerging technologies.

We also appreciate the city's goal to identify safety countermeasures to help mitigate primary crash trends, reduce overall collision severity, and identify specific locations with higher safety risks—all important elements supporting the state's goals of improving safety for all users and travel modes. With this plan, the city is well prepared to apply for funding through the State Highway Safety Improvement Program (Cycle 11).

Conceptual Plan

Please note the LRSPis a planning-level document. The feasibility and design standards will need to be studied further on some improvements as this plan moves forward. Caltrans' comments regarding this document should not be considered approval for any proposed improvements. Overall, the plan features an understanding of the issues, deficiencies and collaboration needed to address them as well as potential solutions.

Proposed Improvements

The plan should specify, as these projects move toward implementation, more traffic and network analysis may be necessary for optimal transportation safety, mobility, operations, efficiency and connectivity.

Senate Bill 743 (2013)

As of July 2020, traffic studies are required to analyze projects using Vehicle Miles Traveled (VMT) as the primary metric for identifying transportation impacts and should consider improving pedestrian, bicycle infrastructure and transit service. Other important aspects include quality of life, healthier lifestyles and an improved economy. Senate Bill 743 changes the metric for considering automobile delay as a significant environmental impact within CEQA transportation analysis. This

Ms. Robin Dickerson City Engineer August 11, 2021 Page 2

means studies will address how new development projects may influence the overall use of the automobile rather than focusing on intersection and roadway traffic. More information: https://env.onramp.dot.ca.gov/emo/senate-bill-sb-743-implementation-website-link

Bicycle, Pedestrian & Transit Travel

Caltrans District 5 recently developed a districtwide *Active Transportation Plan* and gathered extensive public input on bicycle and pedestrian needs at specific locations, especially in disadvantaged communities. The plan emphasizes social equity and providing safe walking, bicycling and riding transit. Scheduled for an online release soon, it will be a useful tool for local jurisdictional multimodal planning efforts. Statewide, Caltrans is creating plans for context-appropriate solutions on, near and adjacent to state highways.

Community Visioning

We compliment the city on its excellent community visioning and extensive outreach to develop the LRSP, which appears to maintain consistency with other relevant state and local plans and/or proposed improvements. Please include a copy of this letter in the plan's appendices along with our previous letter regarding the city's 2018 *Halcyon Complete Streets Plan*.

In conclusion, it is our desire to work closely with the City of Arroyo Grande in developing the most efficient, safe and sustainable transportation system for all users. If you have any questions, please contact me at 805-835-6432 or jenna.schudson@dot.ca.gov.

Sincerely

JENNA SCHUDSON

Associate Transportation Planner

Caltrans, District 5



Engage.Challenge.Inspire

BUSINESS SERVICES DEPARTMENT Jim Empey

Assistant Superintendent, Business Services 602 Orchard Street, Arroyo Grande, CA 93420 Tel 805.474.3000 x1070 | Fax 805.473.1593

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AUG 1 9 2021

CITY OF ARROYO GRANDE

August 16, 2021

Arroyo Grande City Council 300 E Branch Street Arroyo Grande, CA 93420

Subject: Local Road Safety Plan

Dear Arroyo Grande City Council:

Over the last year and a half Lucia Mar Unified School District has collaborated with City of Arroyo Grande officials and other organizations to finalize the Local Road Safety Plan (LRSP). During this time, Lucia Mar has had a district representative working closely with the committee to identify safety issues that we feel affect our students and families. Lucia Mar USD is serious about ensuring the safety of its students. Safety starts with students walking, biking, or driving to-and-from school, and we believe that all forms of transportation are of equal importance. As every family has its own unique situation, a variety of forms of transportation are required.

We attended in-person and virtual meetings, and we met with Robin Dickerson onsite to review potential changes to Valley Road. This positive collaboration is reflected in the final version of the LRSP. During our meetings, several safety issues were identified and studied: (1) Fair Oaks Road encompasses two of our biggest campuses: Arroyo Grande High School (AGHS) and Harloe Elementary School. The LRSP addresses the needs of both schools through the Halcyon Complete Streets Project and the redesign of Valley Road. (2) Identifying a potential problem on Nelson Street and Traffic Way was also important because we have many students traveling to-and-from AGHS using that intersection.

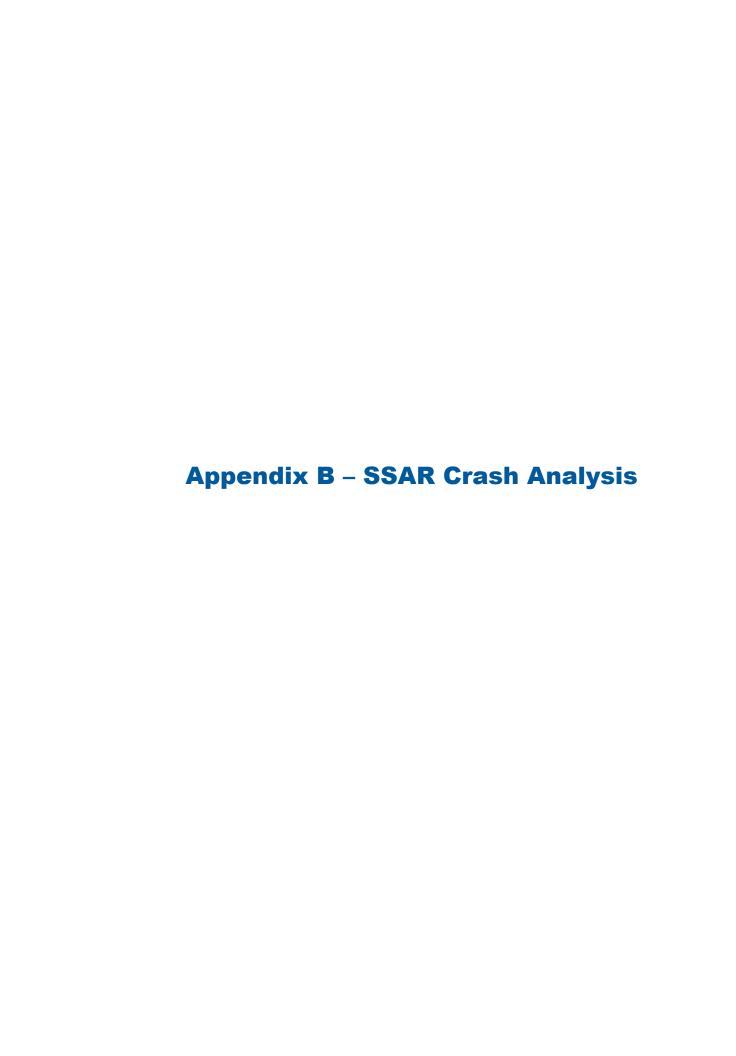
Lucia Mar Unified School District strongly supports the final version of LRSP. We hope that it will be adopted and implemented. It is very important that the City of Arroyo Grande continues to collaborate with the "School District" to ensure that our streets are safe for all of our road users. Thank you for giving us the opportunity to help make the City of Arroyo Grande a better place to live and work.

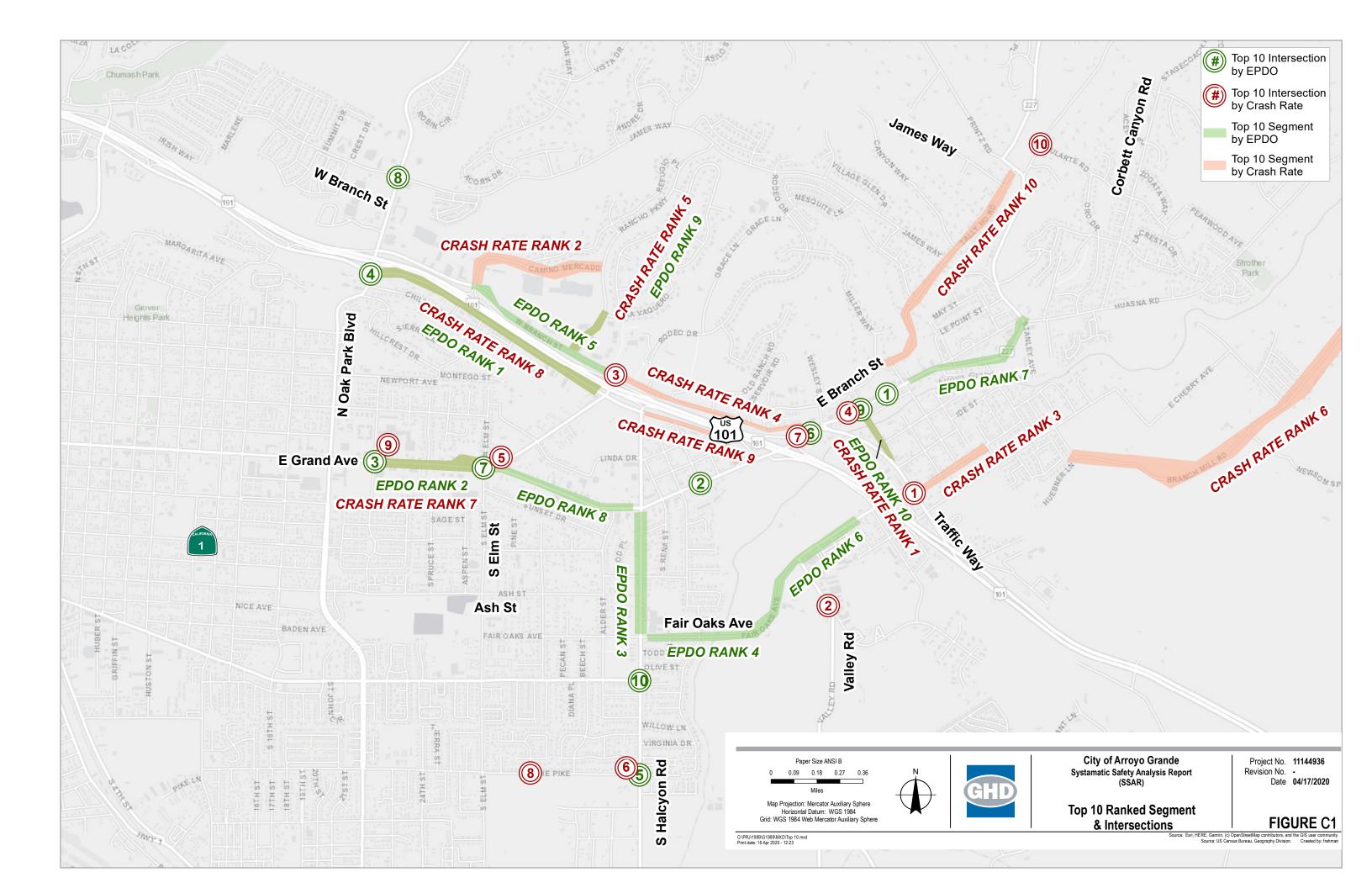
Sincerely,

Jim Empey

Assistant Superintendent, Business Services

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9	Ranked Intersection by EPDO E BRANCH ST & SHORT ST	<u></u>	Ĕ	Ranked Intersection by Overall Crash Rates TRAFFIC WAY & ALLEN ST	Ş &	2	Ranked intersection by Total Crashes F GRAND AVE & S FLM ST	£
46	E GRAND AVE & BELL ST	557	51 64	VALLEY RD & AGHS STAFF PARKING / BACK ROAD	1.48	1	E GRAND AVE & COURTLAND ST	44 34
1	E GRAND AVE & COURTLAND ST	133	15	W BRANCH ST & BRISCO RD	0.94	13	EL CAMINO REAL & N OAK PARK BLVD	34 32 30 30 26 25 23 23 22 21 21
13	EL CAMINO REAL & N OAK PARK BLVD	91 82	8	W BRNACH ST & BRIDGE ST	0.93	6	E GRAND AVE & W BRANCH ST	30
20 6	THE PIKE & S HALCYON RD E GRAND AVE & W BRANCH ST	70	2 20	E GRAND AVE & S ELM ST THE PIKE & S HALCYON RD	0.91	8	E GRAND AVE & S HALCYON RD W BRNACH ST & BRIDGE ST	30
2	E GRAND AVE & S ELM ST	54	6	E GRAND AVE & W BRANCH ST	0.79	15	W BRANCH ST & BRISCO RD	25
12	JAMES WAY & OAK PARK BLVD	52	43	THE PIKE & GARFIELD PL	0.78	27	E GRAND AVE & US 101 SB RAMP	23
8 19	W BRNACH ST & BRIDGE ST FARROLL AVE & S HALCYON RD	51 48	1 67	E GRAND AVE & COURTLAND ST CORBETT CANYON RD & GULARTE RD	0.76	3 16	E GRAND AVE & BRISCO RD EL CAMINO REAL & BRISCO RD	23
16	EL CAMINO REAL & BRISCO RD	48	16	EL CAMINO REAL & BRISCO RD	0.67	7	W BRANCH ST & TRAFFIC WAY	21
4	E GRAND AVE & S HALCYON RD	45	28	W BRANCH ST & CAMINO MERCADO / US 101 NB RAMPS	0.66	29	W BRANCH ST / US 101 NB RAMP & N OAK PARK BLVD	21
14	W BRANCH ST & RANCHO PKWY	43	14	W BRANCH ST & RANCHO PKWY	0.65	28	W BRANCH ST & CAMINO MERCADO / US 101 NB RAMPS	19
5 17	E GRAND AVE & EL CAMINO REAL FL CAMINO REAL & N HALCYON RD	39 39	17 65	EL CAMINO REAL & N HALCYON RD FAIR OAKS AVE & TODD I N	0.65	17 5	EL CAMINO REAL & N HALCYON RD E GRAND AVE & FL CAMINO REAL	19 19
27	E GRAND AVE & US 101 SB RAMP	38	13	EL CAMINO REAL & N OAK PARK BLVD	0.56	20	THE PIKE & S HALCYON RD	18
29	W BRANCH ST / US 101 NB RAMP & N OAK PARK BLVD	36	27	E GRAND AVE & US 101 SB RAMP	0.56	14	W BRANCH ST & RANCHO PKWY	18
58 40	FAIR OAKS AVE & STATION WAY E GRAND AVE & JUNIPER ST	36	23 52	FAIR OAKS AVE & US 101 SB OFF RAMP & ORCHARD ST NELSON ST & S MASON ST	0.56	64 23	VALLEY RD & AGHS STAFF PARKING / BACK ROAD FAIR OAKS AVE & US 101 SB OFF RAMP & ORCHARD ST	17 16
40 15	W BRANCH ST & BRISCO RD	32	11	E BRANCH ST & HUSANA RD	0.55	10	E BRANCH ST & S MASON ST	16
63	FAIR OAKS AVE & AGHS EAST ENTRANCE	30	7	W BRANCH ST & TRAFFIC WAY	0.54	46	E GRAND AVE & BELL ST	14
28	W BRANCH ST & CAMINO MERCADO / US 101 NB RAMPS	29	19	FARROLL AVE & S HALCYON RD	0.54	19	FARROLL AVE & S HALCYON RD	13
31 3	N OAK PARK BLVD & E GRAND AVE E GRAND AVE & BRISCO RD	29	4 35	E GRAND AVE & S HALCYON RD ASH ST & COURTLAND ST	0.54	18 11	FAIR OAKS AVE & S HALCYON RD E BRANCH ST & HUSANA RD	13 12
11	E BRANCH ST & HUSANA RD	27	35	E GRAND AVE & BRISCO RD	0.53	22	FAIR OAKS AVE & TRAFFIC WAY	12
64	VALLEY RD & AGHS STAFF PARKING / BACK ROAD	27	5	E GRAND AVE & EL CAMINO REAL	0.52	40	E GRAND AVE & JUNIPER ST	12
7	W BRANCH ST & TRAFFIC WAY	26	59	CHERRY AVE & TRAFFIC WAY	0.51	44	E GRAND AVE & RENA ST	12
42 69	THE PIKE & S ELM ST E GRAND AVE & ALDER ST	26 26	47 74	EL CAMINO REAL & BELL ST W BRANCH ST & TOWN CENTER DR	0.47	42 24	THE PIKE & S ELM ST FAIR OAKS AVE & VALLEY RD	11 11
37	FARROLL AVE & S ELM ST	25	10	E BRANCH ST & S MASON ST	0.43	65	FAIR OAKS AVE & TODD LN	10
65	FAIR OAKS AVE & TODD LN	25	49	TRAFFIC WAY & NELSON ST	0.41	59	CHERRY AVE & TRAFFIC WAY	10
74	W BRANCH ST & TOWN CENTER DR	24	42	THE PIKE & S ELM ST	0.39	36	FAIR OAKSAVE & S ELM ST	10
18 22	FAIR OAKS AVE & S HALCYON RD FAIR OAKS AVE & TRAFFIC WAY	23	62 22	FAIR OAKS AVE & AGHS MIDDLE ENTRANCE FAIR OAKS AVE & TRAFFIC WAY	0.39	74 49	W BRANCH ST & TOWN CENTER DR TRAFFIC WAY & NELSON ST	9
45	E GRAND AVE N ALPINE ST	22	46	E GRAND AVE & BELL ST	0.39	62	FAIR OAKS AVE & AGHS MIDDLE ENTRANCE	8
10	E BRANCH ST & S MASON ST	19	24	FAIR OAKS AVE & VALLEY RD	0.39	9	E BRANCH ST & SHORT ST	8
49 62	TRAFFIC WAY & NELSON ST FAIR OAKS AVE & AGHS MIDDLE ENTRANCE	18	18 66	FAIR OAKS AVE & S HALCYON RD S ELM ST & MAPLE ST	0.37	12 43	JAMES WAY & OAK PARK BLVD THE PIKE & GARFIELD PL	7
44	E GRAND AVE & RENA ST	17	53	CORBETT CANYON RD & SR 227 / PRINTZ RD	0.37	66	S ELM ST & MAPLE ST	7
66	S ELM ST & MAPLE ST	17	36	FAIR OAKSAVE & S ELM ST	0.36	45	E GRAND AVE N ALPINE ST	7
23	FAIR OAKS AVE & US 101 SB OFF RAMP & ORCHARD ST	16	29	W BRANCH ST / US 101 NB RAMP & N OAK PARK BLVD	0.36	35	ASH ST & COURTLAND ST	6
35 36	ASH ST & COURTLAND ST FAIR OAKSAVE & S FI M ST	16 15	70 9	JAMES WAY & MEADOW WAY F BRANCH ST & SHORT ST	0.36	58 69	FAIR OAKS AVE & STATION WAY F GRAND AVE & AI DER ST	6
59	CHERRY AVE & TRAFFIC WAY	15	40	E GRAND AVE & JUNIPER ST	0.34	41	E GRAND AVE & FAIR VIEW DR	6
54	HUSANA RD & CLARENCE AVE	14	44	E GRAND AVE & RENA ST	0.33	67	CORBETT CANYON RD & GULARTE RD	5
55 56	HUSANA RD & ORO DR HUSANA RD & STAGECOACH RD	13 12	21 58	LEANNA DR & VALLEY RD FAIR OAKS AVE & STATION WAY	0.29	52 53	NELSON ST & S MASON ST CORBETT CANYON RD & SR 227 / PRINTZ RD	5
24	FAIR OAKS AVE & VALLEY RD	11	54	HUSANA RD & CLARENCE AVE	0.29	63	FAIR OAKS AVE & AGHS EAST ENTRANCE	5
41	E GRAND AVE & FAIR VIEW DR	11	71	OAK PARK BLVD & MEADOWLARK DR	0.26	37	FARROLL AVE & S ELM ST	5
52	NELSON ST & S MASON ST	10	68	MASON & LE POINT ST	0.26	51	TRAFFIC WAY & ALLEN ST	4
21 61	LEANNA DR & VALLEY RD FAIR OAKS AVE & AGHS WEST ENTRANCE	9	57 63	PRINTZ RD & TALLY HO RD FAIR OAKS AVE & AGHS EAST ENTRANCE	0.25	70 21	JAMES WAY & MEADOW WAY LEANNA DR & VALLEY RD	4
43	THE PIKE & GARFIELD PL	7	12	JAMES WAY & OAK PARK BLVD	0.23	54	HUSANA RD & CLARENCE AVE	4
50	TRAFFIC WAY & POOLE ST	7	72	BRISCO & LINDA DR	0.21	38	DODSON WAY & HALCYON RD	4
53	CORBETT CANYON RD & SR 227 / PRINTZ RD	5	69	E GRAND AVE & ALDER ST	0.21	31	N OAK PARK BLVD & E GRAND AVE	4
67 38	CORBETT CANYON RD & GULARTE RD DODSON WAY & HAI CYON RD	5	37 55	FARROLL AVE & S ELM ST HUSANA RD & ORO DR	0.20	71 68	OAK PARK BLVD & MEADOWLARK DR MASON & LE POINT ST	3
51	TRAFFIC WAY & ALLEN ST	4	45	E GRAND AVE N ALPINE ST	0.19	57	PRINTZ RD & TALLY HO RD	3
70	JAMES WAY & MEADOW WAY	4	25	TRAFFIC WAY & US 101 NB RAMP	0.19	72	BRISCO & LINDA DR	3
25 26	TRAFFIC WAY & US 101 NB RAMP E GRAND AVE & US 101 NB RAMP	3	39 32	ASH ST & WALNUT ST W BRANCH ST & RODEO DR	0.18	55 25	HUSANA RD & ORO DR TRAFFIC WAY & US 101 NB RAMP	3
26 57	PRINTZ RD & TALLY HO RD	3	32 48	W BRANCH ST & RODEO DR W BRANCH ST & VERNON ST	0.18	25 61	FAIR OAKS AVE & AGHS WEST ENTRANCE	3
68	MASON & LE POINT ST	3	41	E GRAND AVE & FAIR VIEW DR	0.17	26	E GRAND AVE & US 101 NB RAMP	3
71	OAK PARK BLVD & MEADOWLARK DR	3	61	FAIR OAKS AVE & AGHS WEST ENTRANCE	0.14	60	CHERRY AVE & CALIFORNIA ST	2
72 30	BRISCO & LINDA DR BRISCO RD & US 101 NB RAMPS	2	38 56	DODSON WAY & HALCYON RD HUSANA RD & STAGECOACH RD	0.14	47 39	EL CAMINO REAL & BELL ST ASH ST & WALNUT ST	2
30	W BRANCH ST & RODEO DR	2	33	JAMES WAY & RODEO DR	0.13	39	W BRANCH ST & RODEO DR	2
39	ASH ST & WALNUT ST	2	34	JAMES WAY & TALLY HO RD	0.11	56	HUSANA RD & STAGECOACH RD	2 2 2
47	EL CAMINO REAL & BELL ST	2	50	TRAFFIC WAY & POOLE ST	0.10	50	TRAFFIC WAY & POOLE ST	2
60 33	CHERRY AVE & CALIFORNIA ST JAMES WAY & RODEO DR	1	30 26	BRISCO RD & US 101 NB RAMPS E GRAND AVE & US 101 NB RAMP	0.07	30 48	BRISCO RD & US 101 NB RAMPS W BRANCH ST & VERNON ST	2
34	JAMES WAY & TALLY HO RD	1	31	N OAK PARK BLVD & E GRAND AVE	0.07	33	JAMES WAY & RODEO DR	1
48	W BRANCH ST & VERNON ST	1	73	FAIR OAKS AVE & CALIFORNIA ST	0.04	34	JAMES WAY & TALLY HO RD	1
73	FAIR OAKS AVE & CALIFORNIA ST	1	60	CHERRY AVE & CALIFORNIA ST	<u> </u>	73	FAIR OAKS AVE & CALIFORNIA ST	1

Collisions at Selected Intersection

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	E GRAND AVE & BRISCO RD				1	22	1	3	5		3		3 1		8	3	4	5 3			1	0.526	-	0.042	
	E GRAND AVE & SHALCYON RD			1	1	28	1	7	- 8		2		3 1	1	9	7	5	6 3		30,603	2	0.520	-	0.025	
5	E GRAND AVE & EL CAMINO REAL			1	2	16	-	2	5		2		2	1	7	3	6	2 1		19,883	3	0.524	-	0.083	
6	E GRAND AVE & W BRANCH ST			3	2	25	2	4	2	20			2 1	2	10	7	3	6 4	70	20,709	5	0.794		0.132	
7	W BRANCH ST & TRAFFIC WAY				1	20	2	2	8	5	1		3		3		5	6 7	26	21,343	1	0.539	-	0.026	_
-	W BRNACH ST & BRIDGE ST			1	3	22		9	6		2	2			1	8	5	4 8		15,249	4	0.934	٠	0.144	
	E BRANCH ST & SHORT ST	1		3		4	1		1		1		3 2		1	1	3	1 2		12,602	4	0.348	0.043	0.174	
	E BRANCH ST & S MASON ST				1	13	2	1	6	1	1		2 1		3	2	3	2 4		17,799	1	0.431	-	0.031	
11 12	E BRANCH ST & HUSANA RD JAMES WAY & OAK PARK BLVD		1	1	1	10		1	3	3	<u>′</u>			-	2	2	4	1 6	27	12,172	2	0.540	-	0.090	4
	EL CAMINO REAL & N OAK PARK BLVD	_	1	2	2	27	2	7	7		1		l 5	1	8	3	9	6 6	01	20,040 31,197	-	0.219		0.082	
14	W BRANCH ST & RANCHO PKWY	_		2	1	15	1	1	5		3		5	-	5	3	4	2 4		15,096	3	0.653	-	0.109	ŀ
	W BRANCH ST & BRISCO RD	_			1	24	1	6	13	1			,	1	7	6	3	6 3	_	14,590	1			0.038	
16	EL CAMINO REAL & BRISCO RD			1	3	18	4	6	7	3			1 1	1	3	2	3	7 7		17,901	4	0.673	-	0.122	Ī
17	EL CAMINO REAL & N HALCYON RD			1	2	16	1	11	3	1	3)		2	4	4	1 8	39	16,038	3	0.649		0.102	ľ
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9	FARROLL AVE & S HALCYON RD			3	1	9		1	2	8	1		ı		2	3	5	1 2		13,213	4	0.539	-	0.166	
:0	THE PIKE & S HALCYON RD		1	2	3	12	1	1	5	9			2		4	2	2	6 4		11,952	6	0.825	-	0.275	ĺ
	LEANNA DR & VALLEY RD				1	3	1		2				L		1		2	1		7,619	1		-	-	_
	FAIR OAKS AVE & TRAFFIC WAY				2	10	2	2	3	4			L	_	5		2	2 3		16,827	2	0.391	-	0.065	_
3 4	FAIR OAKS AVE & US 101 SB OFF RAMP & ORCHARD ST FAIR OAKS AVE & VALLEY RD					16 11	2	4	1		3		2 L	₩	3	5 3	4	2 2		15,787 15,563	0	0.555	-	l -	-
\$ 5	TRAFFIC WAY & US 101 NB RAMP					3		4	1		1		L L	1	1	1	2	1 5	_	15,563 8,675	0	0.387	- :	-	-
	F GRAND AVE & US 101 NB RAMP					3		1	1		1)	1	1	2			3	24.252	0	0.165	-	-	•
7	E GRAND AVE & US 101 NB RAMP	_		1	1	21		5	7		2		3 1	1	2	9	3	3 6		22,479	2	0.561		0.049	٠
	W BRANCH ST & CAMINO MERCADO / US 101 NB RAMPS				2	17	1	3	6		8		, -	-	6	2	3	4 4			2	0.661	-	0.070	
9	W BRANCH ST / US 101 NB RAMP & N OAK PARK BLVD			1	1	19	1	3	3	9	1		1		7	5	3	1 5		31,872	2	0.361	-	0.034	٠
0	BRISCO RD & US 101 NB RAMPS					2			1		1)			1		1		15,055	0	0.073		-	
	N OAK PARK BLVD & E GRAND AVE			2	1	1		1	1	2)			2	1	1	29	32,613	3	0.067		-	
2	W BRANCH ST & RODEO DR					2							2		1			1	2	6,173	0	0.178	-	-	
3	JAMES WAY & RODEO DR					1		1)					1	1	4,667	0	0.117	-	-	
	JAMES WAY & TALLY HO RD					1			1)			1			1	4,821	0	0.114	-	-	
	ASH ST & COURTLAND ST				2	4	1	1		4)		2		2	2	16	6,202	2	0.530		0.177	ı
3	FAIR OAKSAVE & S ELM ST				1	9		2	3		2) 1	1	1	2	5	2	15	15,120	1	0.362	-	0.036	
7	FARROLL AVE & S ELM ST			2		3	-	1		2			1	1	1	1		1 2		13,534	2	0.202	-	0.081	
	DODSON WAY & HALCYON RD ASH ST & WALNUT ST					4	1	2	1	1)	1	1			2 1	_	15,352 6.017	0	0.143	-	- -	-
	ASH ST & WALNUT ST E GRAND AVE & JUNIPER ST			2		10		3	3	1	4) 1	1	2	2	2	5 1		6,017 19,216	2	0.182	-	0.057	-
	E GRAND AVE & JUNIPER ST E GRAND AVE & FAIR VIEW DR				1	5		1	-	4	-		1 1		1		3	2	11	19,216	1	0.342	-	0.057	
12	THE PIKE & S ELM ST	_		1	1	9		2	1	1	5		2	1	3	2	4	1 1	26	15,348	2	0.393	-	0.023	
_	THE PIKE & GARFIELD PL			-	-	7		1	1	3	,		2		2			3 2	_	4,901	0	0.783	-	- 0.071	-
	E GRAND AVE & RENA ST				1	11		4	4		1		2	1	2	1	2	5 2		19,714	1	0.334	-	0.028	١
	E GRAND AVE N ALPINE ST			1	1	5		3	2	1	1)		2	1	3	1		19,714	2	0.195		0.056	
16	E GRAND AVE & BELL ST	1				13	1	1	5		3		1 1		1	3	3	4 3		19,714	1	0.389	0.028	0.028	
	EL CAMINO REAL & BELL ST					2				1	1)				1	1		2,312	0	0.474	-	0.000	
-	W BRANCH ST & VERNON ST					1		1)					1	_	3,175	0	0.173	-	0.000	
9	TRAFFIC WAY & NELSON ST				2	6	1	1	1		1		2 1		2	1	3	2		10,681	2	0.410	-	0.103	
)	TRAFFIC WAY & POOLE ST				1	1				2)	1		1		1	7	10,681	1	0.103	-	0.051	
1	TRAFFIC WAY & ALLEN ST				1	4		1	2	2			1	1	1	1		1 1	10	1,483	0	1.478 0.551	-	<u> </u>	,
2	NELSON ST & S MASON ST CORBETT CANYON RD & SR 227 / PRINTZ RD				1	5		3	2	2			ı	1	2	1		2	10	4,970 7,462	0	0.551	-	0.110	
	HUSANA RD & CLARENCE AVE			1		3		1	2		1)	1	1			1 2		7,462 8.187	1	0.367	-	0.067	
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	HUSANA RD & STAGECOACH RD			1	-	1		-			1		,	1	Ė	1		1 1	12	8,187	1	0.201	<u> </u>	0.067	
	PRINTZ RD & TALLY HO RD					3					2		í	t		<u> </u>	2			6,703	0	0.245	-	-	
	FAIR OAKS AVE & STATION WAY			3		3	1	1		3			2	1		2	2	2	36	11,447	3	0.287	-	0.144	ı
)	CHERRY AVE & TRAFFIC WAY				1	9	1		2	3	2		2		5	1	1	2 1	15	10,780	1	0.508	-	0.051	
)	CHERRY AVE & CALIFORNIA ST					2		2)			1		1	2	No Volume Data	0	-	-	-	
	FAIR OAKS AVE & AGHS WEST ENTRANCE				1	2		1		2)			2	1		8	11,354	1	0.145	-	0.048	
2	FAIR OAKS AVE & AGHS MIDDLE ENTRANCE			1		7		4	1	1			2		2	1	4	1	18	11,187	1	0.392	-	·	
3	FAIR OAKS AVE & AGHS EAST ENTRANCE			1	3	1	1			4	_			1	l .	1	2	2	30	11,822	4	0.232	-	0.185	ļ
4 5	VALLEY RD & AGHS STAFF PARKING / BACK ROAD FAIR OAKS AVE & TODD LN	_		1	_	16		3	6		3		1	1	1	5	5	4 2	_	7,619	1	0.628	-	0.072	
	FAIR OAKS AVE & TODD LN S ELM ST & MAPLE ST			1	2	8		2	4	2)	1	3	1	2	3	25 17	8,724 10,252	2	0.628	-	0.126	į
6 7	S ELM ST & MAPLE ST CORBETT CANYON RD & GULARTE RD				2	5 5		2	4	1	4		l l	\vdash	1	1	1	2 1	_	10,252 3,605	0	0.374	-	0.107	ļ
, 8	MASON & LE POINT ST					3					1		1	\vdash	L'	1	1	1	3	6,363	0	0.258	-	-	٠
9	E GRAND AVE & ALDER ST			1	2	3	1	1	1	•	-		l 1	1	2	-	-	2 2	_	15,707	3	0.209	-	0.105	ĺ
	JAMES WAY & MEADOW WAY			-		4	Ė	÷	1		3)	Ť	1			2 1		6,114	0	0.358	-	<u> </u>	
1	OAK PARK BLVD & MEADOWLARK DR					3					2)		1		1	1	3	6,277	0	0.262	-	١.	
2	BRISCO & LINDA DR					3	1		1	1)	L	2	1			3	7,674	0	0.214		-	۰
3	FAIR OAKS AVE & CALIFORNIA ST					1				1				L			1		1	12,644	0	0.043			
74	W BRANCH ST & TOWN CENTER DR				3	6	1	1	5	1	1			1	2	1	1	2 :	24	11.264	2	0.438		1	-

^{*} Data provide by the City of Arroyo Grande do not identify bicycle related collisions

ment ID				8	CI Juent				orall Crash	Gi tueut				shes
Se	Ranked Segment by EPDO	From	То	<u> </u>	se i	Ranked Segment by Overall Crash Rate	From	То	9 %	eg eg	Ranked Segment by Total Crashes	From	То	δδ
			WEST OF BRISCO	594		BRIDGE ST NORTH OF TRAFFIC TO SOUTH OF W BRANCH		SOUTH OF W BRANCH	2.92		GRAND COURTLAND TO ELM		EAST OF S ELM	50
			EAST OF S ELM	110				SOUTH OF RANCHO PKWY	2.53		HALCYON NORTH OF FAIR OAKS TO SOUTH OF GRAND		SOUTH OF GRAND	30
			SOUTH OF GRAND	65		ALLEN ST EAST OF TRAFFIC WAY TO WEST OF PCR PL		WEST OF PACIFIC COAST RAILWAY PLACE	2.16		BRANCH WEST OF CAMINO MERCADO TO WEST OF BRISCO		WEST OF BRISCO	27
			WEST OF VALLEY	60				NORTH OF W BRANCH	2.07		BRANCH EAST OF OAK PARK TO WEST OF CAMINO MERCADO		WEST OF CAMINO MERCADO	27
			WEST OF BRISCO EAST OF CALIFORNIA	57		RANCHO PKWY NORTH OF BRANCH TO NO. OF VIA VAQUERO BRANCH MILL RD SO. OF HUEBNER LN TO CITY LIMIT		NORHT OF VIA VAQUERO CITY LIMIT	1.63		RANCHO PKWY NORTH OF BRANCH TO NO. OF VIA VAQUERO GRAND EAST OF ELM TO WEST OF HALCYON		NORHT OF VIA VAQUERO WEST OF HALCYON	25
			EAST OF CALIFORNIA EAST OF HUSANA/227	30				EAST OF S ELM	1.02		FAIR OAKS WEST OF VALLEY TO EAST OF CALIFORNIA		EAST OF CALIFORNIA	15
			WEST OF HALCYON	20		EL CAMINO REAL EAST OF OAK PARK TO WEST OF BRISCO		WEST OF BRISCO	1.43		BRISCO NORTH OF GRAND TO SOUTH OF ECR		SOUTH OF EL CAMINO REAL	15
			NORHT OF VIA VAQUERO	35				SOUTH OF GRAND	1.42		FAIR OAKS EAST OF HALCYON TO WEST OF VALLEY		WEST OF VALLEY	15
264	IRIDGE ST NORTH OF TRAFFIC TO SOUTH OF W BRANCH		SOUTH OF W BRANCH	32		TALLY HO RD EAST OF MASON TO WEST OF 227		WEST OF 227	1.29		BRIDGE ST NORTH OF TRAFFIC TO SOUTH OF W BRANCH		SOUTH OF W BRANCH	12
5A			WEST OF CAMINO MERCADO	27				WEST OF BRISCO	1.15		BRANCH WEST OF BRISCO TO NORTH OF W BRANCH		NORTH OF W BRANCH	12
14A	RISCO NORTH OF GRAND TO SOUTH OF ECR	NORTH OF GRAND	SOUTH OF EL CAMINO REAL	25	14A	BRISCO NORTH OF GRAND TO SOUTH OF ECR	NORTH OF GRAND	SOUTH OF EL CAMINO REAL	1.15	15A	EL CAMINO REAL EAST OF OAK PARK TO WEST OF BRISCO	EAST OF OAK PARK	WEST OF BRISCO	12
2A	GRAND WEST OF HALCYON TO EAST OF EL CAMINO REAL	WEST OF HALCYON	EAST OF EL CAMINO REAL	22	6B	HALCYON NORTH OF FAIR OAKS TO SOUTH OF GRAND	NORTH OF FAIR OAKS	SOUTH OF GRAND	1.14	3C	W BRANCH EAST OF MASON TO EAST OF HUSANA/227	EAST OF MASON ST	EAST OF HUSANA/227	11
3D I	IUSANA EAST OF 227 TO CITY LIMIT	EAST OF 227	CITY LIMITS	22	5A	BRANCH EAST OF OAK PARK TO WEST OF CAMINO MERCADO	EAST OF OAK PARK	WEST OF CAMINO MERCADO	1.09	11B	ELM SOUTH OF FARROLL TO NORTH OF ASH		NORTH OF ASH	10
	RANCH MILL RD SO. OF HUEBNER LN TO CITY LIMIT		CITY LIMIT	20		FAIR OAKS EAST OF HALCYON TO WEST OF VALLEY		WEST OF VALLEY	0.93		OAK PARK SOUTH OF BRANCH TO CITY LIMIT		CITY LIMIT	10
			EAST OF W BRANCH	18	8A	JAMES WAY EAST OF OAK PARK WEST OF TALLY HO		WEST OF TALLY HO	0.81		JAMES WAY EAST OF OAK PARK WEST OF TALLY HO		WEST OF TALLY HO	9
			WEST OF 227	18		FARROLL EAST OF OAK PARK TO WEST OF HALCYON		WEST OF ELM	0.79		SPRUCE ASH TO POPLAR		SOUTH OF POPLAR	8
			CITY LIMIT	15	18B	ASH EAST OF ELM TO EAST OF ALDER		WEST OF ALDER	0.78		CAMINO MERCADO NO. OF BRANCH TO SO. OF RANCHO PKWY		SOUTH OF RANCHO PKWY	- 8
			SOUTH OF RANCHO PKWY	13		FAIR OAKS WEST OF VALLEY TO EAST OF CALIFORNIA		EAST OF CALIFORNIA	0.77		TALLY HO RD EAST OF MASON TO WEST OF 227		WEST OF 227	-
			SOUTH OF POPLAR SOUTH OF 227	13		GRAND EAST OF ELM TO WEST OF HALCYON ASH WEST OF COURTLAND TO WEST OF ELM		WEST OF HALCYON WEST OF ELM	0.65		W BRANCH WEST OF BRIDGE TO EAST OF MASON GRAND/BRANCH EAST OF ECR TO EAST OF W BRANCH		EAST OF MASON ST EAST OF W BRANCH	-
			WEST OF BRIDGE ST	12		W BRANCH EAST OF MASON TO EAST OF HUSANA/227		EAST OF HUSANA/227	0.65		FARROLL EAST OF OAK PARK TO WEST OF HALCYON		WEST OF ELM	7
			NORTH OF W BRANCH	12		ELM SOUTH OF FARROLL TO NORTH OF ASH		NORTH OF ASH	0.53		GRAND WEST OF HALCYON TO EAST OF EL CAMINO REAL		EAST OF EL CAMINO REAL	7
			SOUTH OF GRAND	11		COURTLAND NORTH OF GRAND TO NORTH OF BRIGHTON			0.55				SOUTH OF GRAND	6
	LM SOUTH OF FARROLL TO NORTH OF ASH		NORTH OF ASH	10		FAIR OAKS EAST OF ELM TO EAST OF HALCYON			0.41		ASH EAST OF ELM TO EAST OF ALDER		WEST OF ALDER	6
			WEST OF HALCYON	10		NELSON ST EAST OF TRAFFIC WAY TO WEST OF MASON ST			0.34		BRANCH MILL RD SO. OF HUEBNER LN TO CITY LIMIT		CITY LIMIT	5
			WEST OF ELM	10	16B	THE PIKE EAST OF ELM TO WEST OF HALCYON		WEST OF HALCYON	0.34		ASH WEST OF COURTLAND TO WEST OF ELM		WEST OF ELM	5
6C	ALCYON NORTH OF GRAND NORTH OF ECR TO	NORTH OF GRAND	NORTH OF ECR	9	7B	OAK PARK SOUTH OF BRANCH TO CITY LIMIT	NORTH OF BRANCH	CITY LIMIT	0.33	13A	COURTLAND NORTH OF GRAND TO NORHT OF BRIGHTON	NORTH OF GRAND	NORTH OF BRIGHTON	5
8A .	AMES WAY EAST OF OAK PARK WEST OF TALLY HO	EAST OF OAK PARK	WEST OF TALLY HO	9	3B	W BRANCH WEST OF BRIDGE TO EAST OF MASON	WEST OF BRIDGE ST	EAST OF MASON ST	0.32	11C	ELM NORTH OF ASH TO SOUTH OF GRAND	NORTH OF ASH	SOUTH OF GRAND	5
			EAST OF MASON ST	8		ELM NORTH OF ASH TO SOUTH OF GRAND			0.27		EL CAMINO REAL EAST OF BRISCO TO WEST OF HALCYON		WEST OF HALCYON	5
			WEST OF ELM	7		ORCHARD SO. OF CASTILLO DEL MAR TO SO. OF CHERRY			0.26		GRAND OAK PARK TO EAST OF COURTLAND		EAST OF COURTLAND	5
			WEST OF ALDER	6		ELM NORTH OF GRAND TO LIMIT		TERMINUS	0.26		ALDER ST NORTH OF ASH TO SOUTH OF GRAND		SOUTH OF GRAND	4
			EAST OF COURTLAND	5		EL CAMINO REAL EAST OF BRISCO TO WEST OF HALCYON			0.23		STATION NORTH OF FAIR OAKS SOTUH OF TRAFFIC		SOUTH OF TRAFFIC	4
			SOUTH OF GRAND	5		GRAND/BRANCH EAST OF ECR TO EAST OF W BRANCH			0.22		OLOHAN ALLY EAST OF TRAFFIC WAY EAST OF MASON ST		EAST OF MASON ST	4
			NORTH OF BRIGHTON SOUTH OF GRAND	5 4	2A 20A	GRAND WEST OF HALCYON TO EAST OF EL CAMINO REAL VALLEY RD SOUTH OF CASTILLO DEL MAR			0.22		HALCYON NORTH OF GRAND NORTH OF ECR TO TRAFFCI WAY NORTH OF POOLE TO SOUTH OF BRANCH	NORTH OF GRAND NORTH OF POOLE	NORTH OF ECR SOUTH OF BRANCH	4
	RAFFCI WAY NORTH OF POOLE TO SOUTH OF BRANCH		SOUTH OF GRAND	-				NORTH OF CASTILLO DEL MAR NORTH OF ECR	0.22		LE POINTE RD FROM CROWN TER TO 227		SOUTH OF BRANCH	3
			SOUTH OF TRAFFIC	- 4		TRAFFCI WAY NORTH OF POOLE TO SOUTH OF BRANCH			0.21		CROWN HILL FROM NORTH OF BRANCH TO 227		SOUTH OF 227	3
			EAST OF MASON ST			FARROLL EAST OF ELM TO WEST OF HALCYON			0.19		ALLEN ST EAST OF TRAFFIC WAY TO WEST OF PCR PL		WEST OF PACIFIC COAST RAILWAY PLACE	
			EAST OF HALCYON	3	20B	VALLEY RD CASTRILLO SOUTH OF DEL MAR TO FAIR OAKS	NORTH OF CASTILLO DEL MAR		0.14		FAIR OAKS EAST OF ELM TO EAST OF HALCYON		EAST OF HALCYON	3
			WEST OF HALCYON	3	1A	GRAND OAK PARK TO EAST OF COURTLAND		EAST OF COURTLAND	0.14		THE PIKE EAST OF ELM TO WEST OF HALCYON		WEST OF HALCYON	3
			SOUTH OF CASTILLO DEL MAR	3		HUSANA EAST OF 227 TO CITY LIMIT		CITY LIMITS	0.13		VALLEY RD SOUTH OF CASTILLO DEL MAR		SOUTH OF CASTILLO DEL MAR	3
			SOUTH OF 227	3		TRAFFIC WAY NORTH OF RAMP TO SOUTH OF FAIR OAKS			0.13		RENA ST NORTH OF DODSON TO SOUTH OF GRAND		SOUTH OF GRAND	2
			WEST OF PACIFIC COAST RAILWAY PLACE	3		ELM SOUTH OF PIKE TO SOUTH OF FARROLL			0.11		WHITELEY ST		EXTENT	2
	ELM SOUTH OF PIKE TO SOUTH OF FARROLL		SOUTH OF FARROLL	2	27B			NORTH OF POOLE	0.09		NELSON ST EAST OF TRAFFIC WAY TO WEST OF MASON ST		EAST OF MASON ST	2
20B		NORTH OF CASTILLO DEL MAR		2				WEST OF BRIDGE ST	0.08		ORCHARD SO. OF CASTILLO DEL MAR TO SO. OF CHERRY	SOUTH OF CASTILLO DEL MAR		2
	RENA ST NORTH OF DODSON TO SOUTH OF GRAND		SOUTH OF GRAND	2		FAIR OAKS EAST OF CALIFORNIA TO WEST OF TRAFFIC		WEST OF TRAFFIC WAY	0.00			NORTH OF CASTILLO DEL MAR		2
	RAFFIC WAY NORTH OF RAMP TO SOUTH OF FAIR OAKS		SOUTH OF FAIR OAKS	2		HALCYON SOUTH OF PIKE TO SOUTH OF FAIR OAKS			0.00		HUSANA EAST OF 227 TO CITY LIMIT		CITYLIMITS	2
			NORTH OF POOLE	2		OAK PARK SOUTH OF CHITTON NORTH OF BRANCH			0.00		TRAFFIC WAY NORTH OF RAMP TO SOUTH OF FAIR OAKS		SOUTH OF FAIR OAKS	2
		EAST OF TRAFFIC WAY SOUTH OF CASTILLO DEL MAR	EAST OF MASON ST	2		BRISCO SOUTH OF ECR TO NORTH OF NB RAMPS PIKE CITH LIMIT TO WEST OF ELM		NORTH OF NB RAMPS WEST OF ELM	0.00		ELM SOUTH OF PIKE TO SOUTH OF FARROLL TRAFFIC WAY SOUTH OF FAIR OAKS TO NORTH OF POOLE		SOUTH OF FARROLL NORTH OF POOLE	2
			EXTENT	2		SPRUCE ASH TO POPLAR		SOUTH OF POPLAR	0.00		W BRANCH EAST OF W BRANCH TO WEST OF BRIDGE		WEST OF BRIDGE ST	2
			TERMINUS	1		LE POINTE RD FROM CROWN TER TO 227		SOUTH OF POPDAR SOUTH OF 227			MAPLE EAST OF ELM TO WEST OF ALDER	EAST OF ELM	WEST OF ALDER	1
			WEST OF HALCYON	1		ALDER ST NORTH OF ASH TO SOUTH OF GRAND		SOUTH OF 227 SOUTH OF GRAND			ELM NORTH OF GRAND TO LIMIT	NORTH OF GRAND	TERMINUS	1
			WEST OF ALDER	1		STATION NORTH OF FAIR OAKS SOTUH OF TRAFFIC		SOUTH OF TRAFFIC			FARROLL EAST OF ELM TO WEST OF HALCYON		WEST OF HALCYON	1
			WEST OF TRAFFIC WAY	0		OLOHAN ALLY EAST OF TRAFFIC WAY EAST OF MASON ST		EAST OF MASON ST	-		FAIR OAKS EAST OF CALIFORNIA TO WEST OF TRAFFIC		WEST OF TRAFFIC WAY	-
			SOUTH OF FAIR OAKS	0		CROWN HILL FROM NORTH OF BRANCH TO 227		SOUTH OF 227			HALCYON SOUTH OF PIKE TO SOUTH OF FAIR OAKS		SOUTH OF FAIR OAKS	0
	DAK PARK SOUTH OF CHITTON NORTH OF BRANCH		NORTH OF BRANCH	0				SOUTH OF GRAND			OAK PARK SOUTH OF CHITTON NORTH OF BRANCH		NORTH OF BRANCH	0
		SOUTH OF ECR	NORTH OF NB RAMPS	0	34A	WHITELEY ST	EXTENT	EXTENT		14B	BRISCO SOUTH OF ECR TO NORTH OF NB RAMPS	SOUTH OF ECR	NORTH OF NB RAMPS	0
			WEST OF ELM	0		MAPLE EAST OF ELM TO WEST OF ALDER	EAST OF ELM	WEST OF ALDER		16A	PIKE CITH LIMIT TO WEST OF ELM	CITY LIMIT (DEL SOL ST)	WEST OF ELM	0

Collisions at Segments (no Intersections)

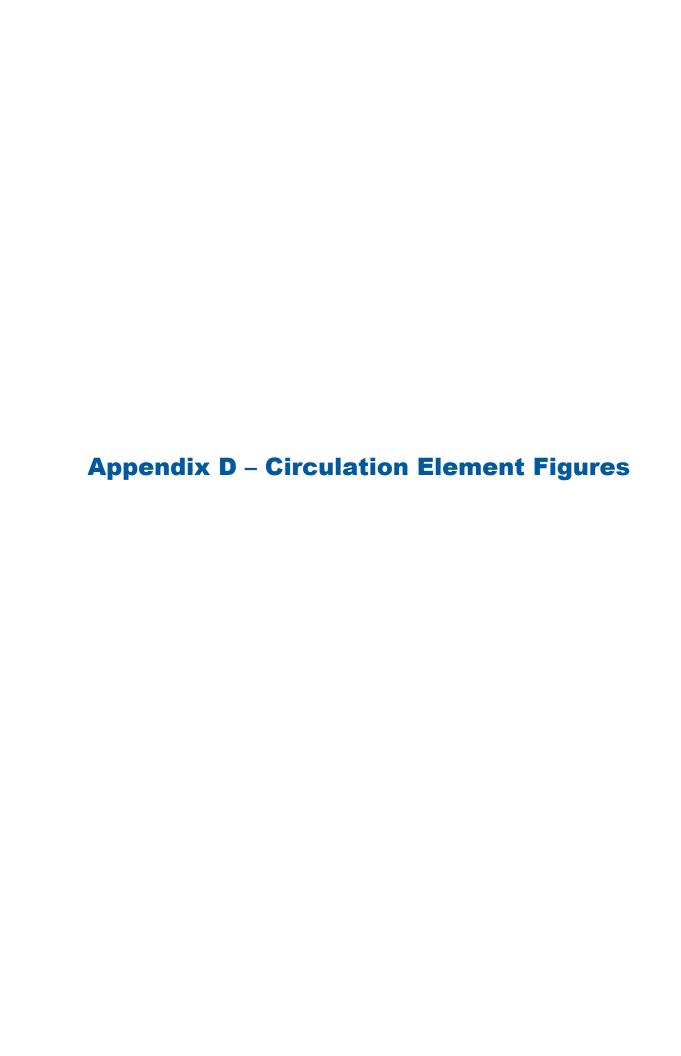
Memorescion Name	10	1.426 - 0.663 - 0.220 - 0.223 - 0.080 - 0.320 - 0.320 - 0.134 - 0.406 - 0.933 - 0.773 - 0.000 -	- 5 0.171 50 0.105 19 0.063 7 0.028 8 0.040 2 - 8 0.100 11 0.134 2 0.000 3
B GRAND COURTLAND TO LEM	19,216 6 1. 9 15,707 3 0. 2 17,402 2 0. 8 19,646 1 0. 2 13,699 1 0. 6 13,699 0 0. 5 10,980 2 0. 2 8,187 2 0. 6 4,046 0 0. 0 8,805 7 0. 6 11,348 6 0. 1 13,091 0 0. 7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	1.426 - 0.663 - 0.220 - 0.223 - 0.080 - 0.320 - 0.320 - 0.134 - 0.406 - 0.933 - 0.773 - 0.000 -	0.171 50 0.105 19 0.063 7 0.028 8 0.040 2 - 8 0.100 11 0.134 2
2A GRAND EAST OF ELM TO WEST OF HALCYON EAST OF ELC MINO REAL WEST OF HALCYON EAST OF EL CAMINO REAL WEST OF HALCYON TO BAST OF EL CAMINO REAL EAST OF WEST OF HALCYON TO BAST OF ELC AMINO REAL EAST OF WEST OF HALCYON TO BAST OF WEST OF WE	9 15,707 3 0. 2 17,402 2 0. 8 19,646 1 0. 2 13,699 1 0. 5 10,980 2 0. 5 10,980 2 0. 2 8,187 2 0. 6 4,046 0 0. 0 8,805 7 0. 6 11,348 6 0. 1 13,091 0 0. 7 13,536 0 1. 7 12,810 5 1.	0.663 - 0.220 - 0.223 - 0.080 - 0.320 - 0.320 - 0.134 - 0.406 - 0.933 - 0.773 - 0.000 -	0.105 19 0.063 7 0.028 8 0.040 2 - 8 0.100 11 0.134 2
2A GRAND WEST OF HALCYON TO EAST OF EL CAMINO REAL 2B GRAND/BRANCH EAST OF ECR TO EAST OF W BRANCH 2AST OF EL CAMINO REAL 3A W BRANCH EAST OF EXT TO EAST OF W BRANCH 3A W BRANCH EAST OF W BRANCH TO WEST OF BRIDGE 4AST OF W BRANCH ST 3B W BRANCH WEST OF BRIDGE EAST OF W BRANCH ST 3B W BRANCH WEST OF BRIDGE TO EAST OF MASON 3C W BRANCH MEST OF BRIDGE TO EAST OF MASON 3C W BRANCH MEST OF BRIDGE TO EAST OF MASON 3C W BRANCH SEAT OF MASON TO EAST OF HUSANA/227 4A FAIR OAKS EAST OF EAST OF MASON TO EAST OF HUSANA/227 5B HUSANA EAST OF E27 TO CITY LIMIT 4A FAIR OAKS EAST OF EAST OF HUSANA/227 5B FAIR OAKS EAST OF HUSANA/227 5C FAIR OAKS EAST OF CALIFORNIA WEST OF VALLEY 5C FAIR OAKS EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAKS EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS 5C FAIR OAK EAST OF CALIFORNIA WEST OF FAIR OAKS	2 17,402 2 0. 8 19,646 1 0. 2 13,699 1 0. 6 13,699 0 0. 5 10,980 2 0. 2 8,187 2 0. 6 4,046 0 0. 6 8,805 7 0. 6 11,348 6 0. 7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	0.220 - 0.223 - 0.080 - 0.320 - 0.549 - 0.0134 - 0.0406 - 0.933 - 0.773 - 0.000 -	0.063 7 0.028 8 0.040 2 - 8 0.100 11 0.134 2
28 GRAND/BRANCH EAST OF ECR TO EAST OF W BRANCH EAST OF EL CAMINO REAL EAST OF W BRANCH SAT OF BRIDGE EAST OF W BRANCH STO F BIDGE EAST OF W BRANCH STO F BIDGE EAST OF W BRANCH STO F BIDGE EAST OF MASON WEST OF BRIDGE ST 0 0 1 0 1 0 1 0 0 0 2 0 0 0 3 0 0 1 1 0 1 0 0 0 1 2 0 0 0 3 0 0 0 1 0 1 0 1 0 0 0 1 2 0 0 0 1 0 0 0 0	8 19,646 1 0. 2 13,699 1 0. 3 13,699 0 0. 5 10,980 2 0. 2 8,187 2 0. 3 4,046 0 0 4 0 0. 8,805 7 0. 5 11,348 6 0. 6 11,348 6 0. 7 12,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	0.0223 - 0.080 - 0.320 - 0.549 - 0.134 - 0.406 - 0.933 - 0.773 - 0.000 -	0.028 8 0.040 2 - 8 0.100 11 0.134 2
3A W BRANCH EAST OF W BRANCH TO WEST OF BRIDGE EAST OF W BRANCH ST WEST OF BRIDGE ST O 0 1 0 1 0 1 0 0 0 2 0 0 0 3 0 0 1 0 1 0 1 0 0 0 1 1 0 1 0 0 0 1 1 0 1 0 0 0 1 1 0 1 0 0 0 1 1 0 1 0 0 0 1 1 0 1 0 0 0 0 1 1 0 1 0 0 0 0 1 1 0 1 0 0 0 0 1 1 0 1 0 0 0 0 1 1 0	2 13,699 1 0. 13,699 0 0. 5 10,980 2 0. 2 8,187 2 0. 6 4,046 0 0. 8,805 7 0. 6 11,348 6 0. 7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	0.080 - 0.320 - 0.549 - 0.134 - 0.406 - 0.933 - 0.773 - 0.000 -	0.040 2 - 8 0.100 11 0.134 2
38 W BRANCH WEST OF BRIDGE TO EAST OF MASON WEST OF BRIDGE ST EAST OF MASON ST EAST OF MASO	11,699 0 0. 10,980 2 0. 2 8,187 2 0. 3 4,046 0 0. 0 8,805 7 0. 6 11,348 6 0. 1 13,091 0 0. 7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	0.320 - 0.549 - 0.134 - 0.406 - 0.933 - 0.773 - 0.000 -	- 8 0.100 11 0.134 2
3C W BRANCH EAST OF MASON TO EAST OF HUSANA/227 EAST OF MASON ST EAST OF HUSANA/227 0 1 0 1 0 1 9 1 3 4 0 1 0 0 3 0 0 2 3 2 2 2 4 4 5 3 1 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 10,980 2 0. 2 8,187 2 0. 3 4,046 0 0. 0 8,805 7 0. 5 11,348 6 0. 0 13,091 0 0. 7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	0.549 - 0.134 - 0.406 - 0.933 - 0.773 - 0.000 -	0.134 2
3D HUSANA EAST OF 227 TO CITY LIMIT EAST OF 227 CITY LIMITS 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 8,187 2 0. 4,046 0 0. 0 8,805 7 0. 6 11,348 6 0. 1 13,091 0 0. 7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	0.134 - 0.406 - 0.933 - 0.773 - 0.000 -	0.134 2
4A FAIR OAKS EAST OF ELM TO EAST OF HALCYON EAST OF ELM EAST OF HALCYON WEST OF VALLEY EAST OF HALCYON WEST OF VALLEY EAST OF HALCYON WEST OF VALLEY EAST OF FAIR OAKS EAST OF HALCYON TO WEST OF VALLEY EAST OF FAIR OAKS EAST OF HALCYON TO WEST OF VALLEY EAST OF CALIFORNIA O 0 2 5 8 1 4 7 1 0 1 0 1 0 1 0 1 0 1 4 3 3 3 2 2 60 4C FAIR OAKS EAST OF CALIFORNIA TO WEST OF TRAFFIC EAST OF CALIFORNIA WEST OF VALLEY EAST OF CALIFORNIA WEST OF VALLEY EAST OF CALIFORNIA O 0 2 4 10 1 5 1 7 0 0 0 3 0 1 2 4 7 3 0 0 0 5 6 4D FAIR OAKS EAST OF CALIFORNIA TO WEST OF TRAFFIC EAST OF CALIFORNIA WEST OF TAFFIC WAY O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,046 0 0. 0 8,805 7 0. 6 11,348 6 0. 13,091 0 0. 7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	0.406 - 0.933 - 0.773 - 0.000 -	
## FAIR OAKS EAST OF HALCYON TO WEST OF VALLEY	0 8,805 7 0. 6 11,348 6 0. 13,091 0 0. 7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	0.933 - 0.773 - 0.000 -	0.000 1 3
4C FAIR OAKS WEST OF VALLEY TO EAST OF CALIFORNIA WEST OF VALLEY EAST OF CALIFORNIA WEST OF CALIFORNIA WEST OF CALIFORNIA WEST OF CALIFORNIA WEST OF TRAFFIC EAST OF CALIFORNIA WEST OF TRAFFIC WAY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 11,348 6 0. 13,091 0 0. 7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	0.773 - 0.000 -	0.436 15
4D FAIR OAKS EAST OF CALIFORNIA TO WEST OF TRAFFIC EAST OF CALIFORNIA WEST OF TRAFFIC WAY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13,091 0 0. 7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.	0.000 -	0.290 16
5A BRANCH EAST OF OAK PARK TO WEST OF CAMINO MERCADO EAST OF OAK PARK WEST OF CAMINO MERCADO WEST OF BRISCO MEST OF CAMINO MERCADO WEST OF BRISCO MEST OF CAMINO MERCADO WEST OF BRISCO MEST OF DAK PARK WEST OF CAMINO MERCADO WEST OF BRISCO MEST OF DAK PARK MEST OF CAMINO MERCADO MEST OF BRISCO MEST OF DAK PARK MEST OF CAMINO MERCADO MEST OF DAK PARK MEST OF CAMINO MERCADO MEST OF BRISCO MEST OF BRISCO MEST OF BRISCO MEST OF CAMINO MERCADO MEST OF BRISCO MEST OF DAK PARK MEST OF CAMINO MERCADO MEST OF BRISCO MEST OF CAMINO MERCADO MEST OF BRISCO MEST OF CAMINO MERCADO MEST OF CAMINO MERCADO MEST OF BRISCO MEST OF CAMINO MERCADO MEST OF CAMINO MERCADO MEST OF BRISCO MEST OF CAMINO MERCADO MEST OF CAMINO MERCADO MEST OF BRISCO MEST OF CAMINO MERCADO MEST OF CAMINO MEST OF CAMINO MEST OF CAMINO MEST O	7 13,536 0 1. 7 12,810 5 1. 2 3,175 0 2.		- 0
5B BRANCH WEST OF CAMINO MERCADO TO WEST OF BRISCO WEST OF CAMINO MERCADO WEST OF BRISCO 0 1 4 22 2 1 12 4 2 0 0 1 3 5 3 8 8 57 5C BRANCH WEST OF BRISCO TO NORTH OF W BRANCH WEST OF BRISCO NORTH OF W BRANCH 0 0 0 0 12 0 4 2 0 1 0 0 9 0 0 3 4 2 2 1 12 6A HALCYON SOUTH OF PIKE TO SOUTH OF FAIR OAKS SOUTH OF PIKE SOUTH OF FAIR OAKS 0	12,810 5 1. 2 3,175 0 2.	1.093	- 27
5C BRANCH WEST OF BRISCO TO NORTH OF W BRANCH WEST OF BRISCO NORTH OF W BRANCH 0 0 0 0 12 0 4 2 0 1 0 0 9 0 0 3 4 2 2 1 12 6A HALCYON SOUTH OF PIKE TO SOUTH OF FAIR OAKS SOUTH OF PIKE SOUTH OF FAIR OAKS SOUTH OF FAIR OAKS SOUTH OF FAIR OAKS SOUTH OF FAIR OAKS SOUTH OF GRAND NORTH OF FAIR OAKS SOUTH OF GRAND NORTH OF BRANCH SOUTH OF CHITTON NORTH OF BRANCH SOUTH OF CHITTON NORTH OF BRANCH SOUTH OF BRANCH SOUTH OF BRANCH CITY LIMIT 0 0 0 1 9 0 1 1 2 0 1 0 5 0 0 4 3 2 1 0 15	2 3,175 0 2.	1.155 -	0.214 27
6A HALCYON SOUTH OF PIKE TO SOUTH OF FAIR OAKS SOUTH OF PIKE SOUTH OF FAIR OAKS SOUTH OF GRAND NORTH OF FAIR OAKS SOUTH OF GRAND NORTH OF BRANCH SOUTH OF CHITTON NORTH OF BRANCH SOUTH OF CHITTON NORTH OF BRANCH SOUTH OF BRANCH SOUTH OF BRANCH OITY LIMIT O 0 0 1 9 0 1 1 2 0 1 0 5 0 0 4 3 2 1 0 15		2.071 -	- 12
6B HALCYON NORTH OF FAIR OAKS TO SOUTH OF GRAND NORTH OF FAIR OAKS SOUTH OF GRAND ON THO FAIR OAKS SOUTH OF GRAND NORTH OF ECR O 0 0 1 3 0 1 2 0 0 0 0 1 0 0 2 1 1 0 0 9 9 6 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6		0.000 -	- 0
6C HALCYON NORTH OF GRAND NORTH OF GRAND NORTH OF GRAND NORTH OF ECR 0 0 1 3 0 1 2 0 0 0 0 1 0 0 9 7A OAK PARK SOUTH OF CHITTON NORTH OF BRANCH SOUTH OF CHITTON NORTH OF BRANCH 0		1.144 -	0.229 30
7B OAK PARK SOUTH OF BRANCH TO CITY LIMIT NORTH OF BRANCH CITY LIMIT 0 0 0 1 9 0 1 1 2 0 1 0 5 0 0 4 3 2 1 0 15	10,625 1 0.	0.206 -	0.052 4
	16,065 0 0.	0.000 -	- 0
	16,645 1 0.	0.329 -	0.033 10
8A JAMES WAY EAST OF OAK PARK WEST OF TALLY HO	6,114 0 0.	0.807 -	- 9
9A CAMINO MERCADO NO. OF BRANCH TO SO. OF RANCHO PKWY NORTH OF BRANCH SOUTH OF RANCHO PKWY 0 0 0 1 7 0 1 0 1 3 0 0 3 0 0 3 2 1 2 0 13	1,736 1 2.	2.525 -	0.316 8
10A RANCHO PKWY NORTH OF BRANCH TO NO. OF VIA VAQUERO NORTH OF BRANCH NORTH OF VIA VAQUERO 0 0 0 2 23 1 4 1 5 3 0 0 12 0 0 3 7 6 4 5 35	8,391 2 1.	1.633 -	0.131 25
11A ELM SOUTH OF PIKE TO SOUTH OF FARROLL SOUTH OF PIKE SOUTH OF FARROLL 0 0 0 0 1 1 0		0.107 -	- 2
11B ELM SOUTH OF FARROLL TO NORTH OF ASH SOUTH OF FARROLL NORTH OF ASH 0 0 0 10 0 3 1 5 0 0 0 2 0 0 0 3 1 4 2 10		0.534 -	- 10
11C ELM NORTH OF ASH TO SOUTH OF GRAND NORTH OF ASH SOUTH OF GRAND 0 0 0 5 0 3 1 0 0 0 0 1 0 0 1 2 2 0 5		0.267 -	- 5
11D ELM NORTH OF GRAND TO LIMIT NORTH OF GRAND TERMINUS 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 0 1 1 0 0 0 1 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 1 0	2,145 0 0.	0.255 -	- 1
12A SPRUCE ASH TO POPLAR ASH SOUTH OF POPLAR 0 0 1 7 0 3 0 1 1 0 1 2 2 2 1 3 2	- 1		- 8
13A COURTLAND NORTH OF GRAND TO NORTH OF BRIGHTON NORTH OF BRIGHTON NORTH OF BRIGHTON O 0 0 0 5 0 0 0 2 1 0 0 2 0 1 0 0 3 0 2 5		0.490 -	- 5
14A BRISCO NORTH OF GRAND TO SOUTH OF ECR NORTH OF GRAND SOUTH OF EL CAMINO REAL 0 1 0 1 4 1 4 0 0 1 0 <th>7,135 1 1. 13,990 0 0.</th> <th>0.000 -</th> <th>0.077 15</th>	7,135 1 1. 13,990 0 0.	0.000 -	0.077 15
14B BRISCO SOUTH OF ECR TO NORTH OF NB RAMPS SOUTH OF ECR NORTH OF NB RAMPS 0	·	1.425 0.119	- 0 0.475 12
15B EL CAMINO REAL EAST OF DAR FARR TO WEST OF BRISCO EAST OF DAR FARR WEST OF BRISCO WEST OF HALCYON EAST OF BRISCO TO WEST OF HALCYON EAST OF BRISCO WEST OF HALCYON 0 0 0 1 4 0 2 1 0 1 0 0 3 0 1 1 0 10		0.229 -	0.046 5
15C EL CAMINO REAL EAST OF HALCYON TO SOUTH OF GRAND EAST OF HALCYON SOUTH OF GRAND ON 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. ,	1,422 -	0.237 6
16A PIKE CITH LIMIT TO WEST OF ELM CITY LIMIT (DEL SOL ST) WEST OF ELM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.000 -	0.000 0
16B THE PIKE EAST OF ELM TO WEST OF HALCYON EAST OF ELM WEST OF HALCYON 0 0 0 0 3 0 1 1 1 0 0 0 2 0 0 1 0 0 0 2 3		0.335 -	- 3
17A FARROLL EAST OF OAK PARK TO WEST OF HALCYON EAST OF OAK PARK WEST OF ELM 0 0 0 0 7 0 1 3 1 0 0 0 3 0 0 1 2 3 1 0 7		0.791 -	- 7
17B FARROLL EAST OF ELM TO WEST OF HALCYON EAST OF ELM WEST OF HALCYON 0 0 0 1 0 1 0 0 0 0 1 0 0 0 1 0 0 1		0.188 -	- 1
18A ASH WEST OF COURTLAND TO WEST OF ELM WEST OF COURTLAND WEST OF ELM 0 0 0 1 1 1 1 0 0 1 1 1 0 2 1 0 1 1 10	0 4,210 1 0.	0.651 -	0.130 5
18B ASH EAST OF ELM TO EAST OF ALDER EAST OF ELM WEST OF ALDER 0 0 0 0 6 0 2 1 0 0 0 0 3 0 0 1 1 1 1 2 6	4,210 0 0.	0.781 -	- 6
19A MAPLE EAST OF ELM TO WEST OF ALDER EAST OF ELM WEST OF ALDER 0 0 0 1 0 0 0 0 0 0 2 0 0 0 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0			- 1
20A VALLEY RD SOUTH OF CASTILLO DEL MAR CITY LIMIT SOUTH OF CASTILLO DEL MAR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.216 -	- 3
20B VALLEY RD CASTRILLO SOUTH OF DEL MAR TO FAIR OAKS NORTH OF CASTILLO DEL MAR SOTH OF FAIR OAKS AVE 0 0 0 0 1 1 0 0 4 0 0 1 1 0 0 2		0.144 -	- 2
21A ALDER ST NORTH OF ASH TO SOUTH OF GRAND NORTH OF ASH SOUTH OF GRAND 0 0 0 4 0 0 0 2 0 0 3 0 0 1 1 0 2 4		- -	- 4
22A RENA ST NORTH OF DODSON TO SOUTH OF GRAND NORTH OF DODSON SOUTH OF GRAND 0 0 0 1 0 0 0 1 0 0 0 2 0 0 0 2 0 0 0 2 0 0 0 0			- 2
23A TALLY HO RD EAST OF MASON TO WEST OF 227 EAST OF MASON WEST OF 227 0 0 1 0 7 1 1 1 0 4 0 0 2 0 0 3 0 1 2 2 18	5,151	1.287 -	0.161 8
24A LE POINTE RD FROM CROWN TER TO 227 CROWN TER SOUTH OF 227 0 1 0 0 1 1 0 0 0 0 0 1 1 0			- 3
25A CROWN HILL FROM NORTH OF BRANCH TO 227 NORTH OF BRANCH SOUTH OF 227 0 0 0 0 0 3 0 1 1 1 0 0 0 0 0 0 0 0 0 2 0 0 1 3 2 1 1 5 32 2 1 1 5 3 2 1 1 5 32 2 1 1 5 3 2 1 1 5 32 2 1 1 5 32 2 1 1 5 32 2 1 1 5 32 2 1 1 5 32 2 1 1 5 32 2 1 1 5 32 2 1 1 5 32 2 1 1 5 32 2 1 1 5 32 2 1 1 1 5 32 2 1 1 1 5 32 2 1 1 1 5 32 2 1 1 1 5 32 2 1 1 1 5 32 2 1 1 1 5 32 2 1 1 1 5 32 2 1 1 1 5 32 2 1 1 1 5 32 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 0 2 2,250 2 2.	 2.922 -	0.487 12
27A TRAFFIC WAY NORTH OF FAIR OAKS NORTH OF 101 RAMP SOUTH OF FAIR OAKS 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0			- 2
27B TRAFFIC WAY SOUTH OF FAIR OAKS NORTH OF FAIR OAKS NORTH OF POOLE SOUTH OF FAIR OAKS NORTH OF POOLE 2 27B TRAFFIC WAY SOUTH OF FAIR OAKS TO NORTH OF POOLE SOUTH OF FAIR OAKS NORTH OF POOLE 2 27B TRAFFIC WAY SOUTH OF FAIR OAKS NORTH OF POOLE 30 TO 1 TO	·	0.087 -	- 2
276 TRAFFIC WAY SOUTH OF PAIR CARS TO NORTH OF PAIR CARS NORTH OF PAIR		0.204 -	- 4
28A STATION NORTH OF FAIR OAKS SOTUH OF TRAFFIC NORTH OF FAIR OAKS SOUTH OF TRAFFIC 0 0 0 0 0 1 1 0 1 1 0 0 0 0 1 1 1 1 0 1 4	- 0		- 4
29A OLOHAN ALLY EAST OF TRAFFIC WAY EAST OF TRAFFIC WAY EAST OF MASON ST E		- -	- 4
30A NELSON ST EAST OF TRAFFIC WAY TO WEST OF MASON ST		0.338 -	- 2
31A ALLEN ST EAST OF TRAFFIC WAY TO WEST OF PCR PL EAST OF TRAFFIC WAY WEST OF PACIFIC COAST RAILWAY PLACE 0 0 0 0 3 0 1 0 0 1 0 0 2 0 0 0 0 1 2 3		2.161 -	- 3
32A BRANCH MILL RD SO. OF HUEBNER LN TO CITY LIMIT SOUTH OF HUEBNER LN CITY LIMIT 0 0 1 1 3 0 1 0 0 1 2 0 1 0 0 3 0 0 1 1 20	0 1,691 2 1.	1.620 -	0.648 5
33A ORCHARD SO. OF CASTILLO DEL MAR TO SO. OF CHERRY SOUTH OF CASTILLO DEL MAR SOUTH OF CHERRY AVER 0 0 0 0 2 0 1 0 0 1 0 0 1 0 0 0 0 1 0 1	4,173 0 0.	0.263 -	- 2
34A WHITELEY ST EXTENT EXTENT 0 0 0 0 0 2 0 1 0 0 1 0 0 0 0 0 1 0 1 0	- 0		- 2
Total 1 2 24 34 396 20 85 108 65 60 4 5 221 4 7 91 101 87 71 107 -			- 457

Appendix C – SSAR Priority Projects



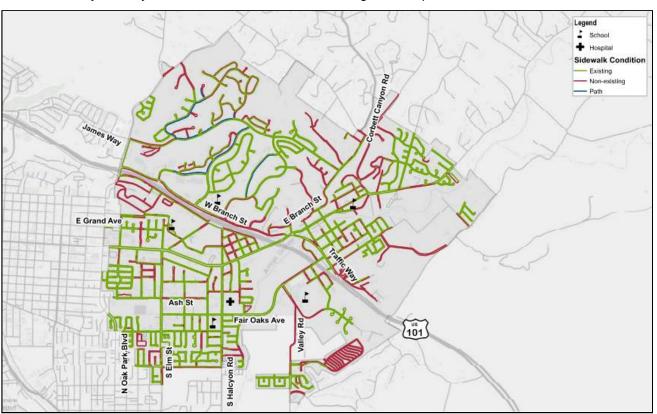
Exhibit 1 Recommended HSIP Projects

Pedestrian Improvements at Signalized intersection (S19, S20, S22)						
Locations	Type of collision		Benefit		Cost	B/C
4 following signalized intersections: E GRAND AVE & COURTLAND ST E GRAND AVE & S ELM ST E GRAND AVE & S HALCYON RD E GRAND AVE & PEDESTRIAN SIGNAL (WEST OF ALDER ST)	P&B	\$	1,946,647	\$	476,000	4.09
General Vehicular Signal Improvements (S2, S3, S6)						
Locations	Type of collision		Benefit		Cost	B/C
3 following signalized intersections: E GRAND AVE & COURTLAND ST E GRAND AVE & S ELM ST E GRAND AVE & S HALCYON RD	All	\$	5,539,826	\$	620,000	8.94
Pedestrian Hybrid Beacon (NS19)						
Locations	Type of collision		Benefit		Cost	B/C
2 pedestrian hybrid beacons at the following locations: E GRAND AVE & BELL ST FARROLL AVE & S HALCYON RD	P&B	\$	5,107,961	\$	500,000	10.22
Pedestrian Improvements at Unsignalized Locations and Crosswalks (NS16, NS17, NS18)						
Locations	Type of collision		Benefit		Cost	B/C
2 following unsignalized intersections: E BRANCH ST & SHORT ST W BRNACH ST & BRIDGE ST	P&B	\$	10,409,861	\$	237,500	43.83
Improve Striping and Pavement Markings (R31, R32, R36, Green Conflict markings)						
Locations	Type of collision		Benefit		Cost	B/C
2 following roadway segments: E GRAND AVE FROM COURTLAND ST TO ELM ST E GRAND AVE FROM EAST OF ELM ST TO WEST OF HALCYON RD	All	\$	1,648,506	\$	245,000	6.73



Sidewalk Gaps

Source: City of Arroyo Grande Circulation Element, Background Report



Bicycle Level of Traffic Stress on Arterials and Collectors

Source: City of Arroyo Grande Circulation Element, Background Report

