

# San Diego County Traffic Advisory Committee



**Committee Secretary**  
5510 Overland Avenue #410, Room 470, M.S. 0-334  
San Diego, California 92123-1239  
(858) 694-3843

## Represented Agencies

County of San Diego Fire Authority  
California Department of  
Transportation  
California Highway Patrol  
Independent Insurance Agents  
& Brokers of San Diego  
San Diego County Bicycle Coalition  
San Diego County Department of  
Public Works  
San Diego County Office of Education  
Pacific Safety Center  
San Diego County Sheriff's  
Department

April 12, 2022

TO: Community Planning/Sponsor Group Chairpersons

FROM: Secretary, Traffic Advisory Committee

## MEETING NOTICE

Attached is the preliminary agenda for the April 22, 2022 meeting of the Traffic Advisory Committee (TAC).

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**Social distancing is currently recommended due to the COVID-19 pandemic. This TAC meeting on April 22, 2022, will be conducted with a virtual meeting platform option. Please use this link below to join the meeting:**

**Join on your computer or mobile app**

[Click here to join the meeting](#)

**Or call in (audio only)**

[+1 619-343-2539,435835775#](#) United States, San Diego

Phone Conference ID: 435 835 775#

[Find a local number](#) | [Learn More](#)

\*\*\*

Your community group may have previously provided formal input on these matters and your group's recommendations would be included as part of the Chief Administrative Officer's report to the Board of Supervisors along with TAC recommendations. The Board of Supervisors will make a final decision as to what action will be taken after reviewing TAC recommendations and community group input, when available.

If your community planning/sponsor group representative would like to attend the TAC meeting and participate in the discussion of an item on this agenda, or if you do have any questions or need additional information regarding this procedure, please contact me at (858) 694-3843. TAC staff is available to provide background information on items and to answer questions you may have.

Very truly yours,

Kenton R. Jones, Secretary  
San Diego County Traffic Advisory Committee

KRJ:sh

Attachment



# **SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE**

**April 22, 2022 ~ 9:00 AM**

**5510 Overland Ave, Room 271**

**San Diego CA, 92123**

## **AGENDA**

- I. Call to Order / Roll Call**
- II. Pledge of Allegiance**
- III. Approval of Minutes**
- IV. Items for Review**

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<b>SUBJECT</b>	<b>LOCATION</b>	<b>AREA/ PLANNING/SPONSOR GROUP</b>
<b><u>SUPERVISORIAL DISTRICT 2</u></b>		
<b>2-A. INTERSECTION CONTROLS</b>	<b>DUNBAR LANE &amp; CHOCOLATE SUMMIT DRIVE/OLDE HIGHWAY 80</b>	<b>BLOSSOM VALLEY/ ALPINE CPG</b>
<b>2-B. RADAR CERTIFICATION</b>	<b>ALPINE HEIGHTS ROAD SOUTH GRADE ROAD TO END</b>	<b>ALPINE/ ALPINE CPG</b>
<b>2-C. RADAR CERTIFICATION</b>	<b>LAKESIDE AVENUE RIVERSIDE DRIVE TO PALM ROW DRIVE</b>	<b>LAKESIDE FARMS/ LAKESIDE CPG</b>
<b><u>SUPERVISORIAL DISTRICT 3</u></b>		
<b>3-A. RADAR CERTIFICATION</b>	<b>CALZADA DEL BOSQUE VIA DE SANTA FE TO VIA DE LA VALLE</b>	<b>RANCHO SANTA FE/ SAN DIEGUITO CPG</b>
<b>3-B. RADAR CERTIFICATION</b>	<b>CALZADA DEL BOSQUE VIA DE LA VALLE TO LINEA DEL CIELO</b>	<b>RANCHO SANTA FE/ SAN DIEGUITO CPG</b>
<b>3-C. RADAR CERTIFICATION</b>	<b>VIA DE FORTUNA EL CAMINO DEL NORTE TO LA CRESENTA</b>	<b>RANCHO SANTA FE/ SAN DIEGUITO CPG</b>
<b>3-D. RADAR CERTIFICATION</b>	<b>VIA DE FORTUNA LA CRESCENTA TO SAN ELIJO</b>	<b>RANCHO SANTA FE/ SAN DIEGUITO CPG</b>
<b><u>SUPERVISORIAL DISTRICT 4</u></b>		
<b>4-A. INTERSECTION CONTROLS</b>	<b>LAMAR STREET &amp; HELIX STREET (EAST INTERSECTION)</b>	<b>SPRING VALLEY/ SPRING VALLEY CPG</b>
<b>4-B. INTERSECTION CONTROLS</b>	<b>LAMAR STREET &amp; HELIX STREET (WEST INTERSECTION)</b>	<b>SPRING VALLEY/ SPRING VALLEY CPG</b>
<b>4-C. INTERSECTION CONTROLS</b>	<b>LAMAR STREET &amp; VISTA DRIVE</b>	<b>SPRING VALLEY/ SPRING VALLEY CPG</b>

**SUPERVISORIAL DISTRICT 5**

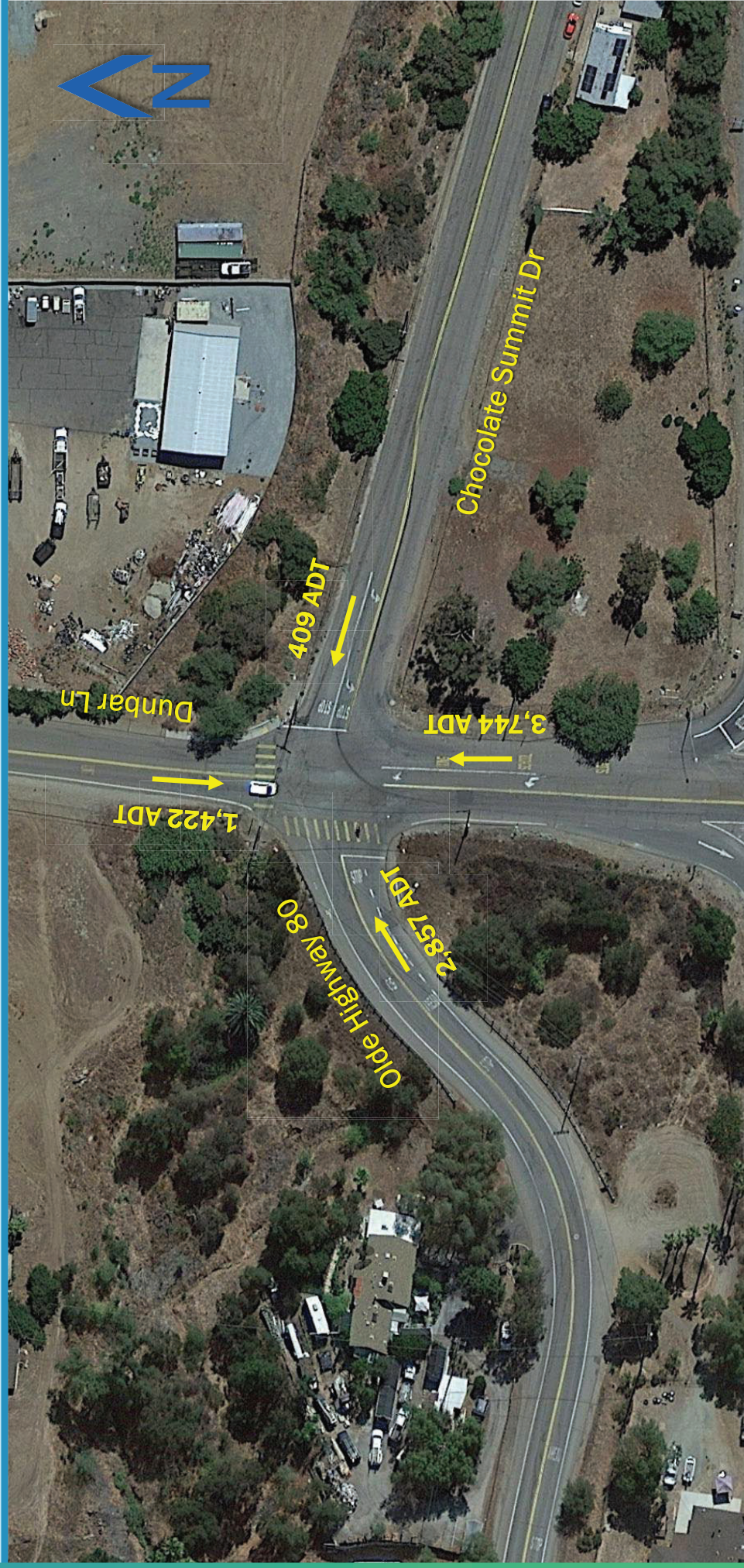
5-A.	RADAR CERTIFICATION	PAUMA RESERVATION ROAD STATE ROUTE 67 TO ADAMS DRIVE	PAUMA/ PALA-PAUMA CSG
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**ALL SUPERVISORIAL DISTRICTS**

A.	LOCAL ROADWAY SAFETY PLAN	COUNTY MAINTAINED ROADS	COUNTYWIDE/ ALL CPG/CSGs
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## Dunbar Lane & Olde Highway 80 / Chocolate Summit Drive





## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022 **Item 2-A**

**SUPERVISORIAL DISTRICT:** 2

**SUBJECT:** Intersection Control

**LOCATION:** Dunbar Lane and Chocolate Summit Drive/Olde Highway 80, ALPINE (Thos. Bros. 1271-C6)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Traffic Control Signal

### **PROBLEM AS STATED BY REQUESTER:**

The intersection of Dunbar Lane and Chocolate Summit Drive/Olde Highway 80 has been identified by Traffic Engineering as meeting Warrant 3, peak hour, of the traffic signal warrants as described in the California Manual on Uniform Traffic Control Devices (CA MUTCD), Chapter 4C, therefore a traffic control signal should be considered.

### **Existing Traffic Devices**

Dunbar Lane is a striped two-lane road with a 36 to 50-foot pavement width. The roadway is striped with a no passing centerline and white edgeline on the west side. The road north of the intersection has a school speed limit signage adjacent to the Los Coches Creek Middle School. Dunbar Lane is unclassified on the County General Plan Mobility Element Network on the north of the intersection of Olde Highway 80/Chocolate Summit Drive and is classified as a Light Collector south of the intersection. The road has no posted speed limit.

Olde Highway 80 is a striped two-lane road with a 36 to 40-foot pavement width. The roadway is striped with a no passing centerline and white edgeline. The road is stop controlled in the eastbound direction at Dunbar Lane. It is classified as a Light Collector on the County General Plan Mobility Element Network. Olde Highway 80 is a designated through highway. The road has a posted 45 speed limit.

Chocolate Summit Drive is a striped two-lane road with a 36-foot pavement width. The roadway is striped with a no passing centerline. The road is stop controlled in the westbound direction at Dunbar Lane. It is classified as a Light Collector on the County General Plan Mobility Element Network. The road has no posted speed limit.

### **Average Daily Traffic Volumes** **05/21**

Dunbar Lane:	
N/o Olde Highway 80	1,422 SB
S/o Olde Highway 80	3,744 NB

Olde Highway 80:

Dunbar Lane  
& Olde Highway 80/Chocolate Summit Drive

2

Item 2-A

W/o Dunbar Lane 2,857 EB

Chocolate Summit Drive:  
E/o Dunbar Lane

409 WB

**Collision Data**

There have been 3 reported collisions, none of which involved injury, at this intersection, within a past 5-year period (11-01-2016 to 10-31-2021).



# County of San Diego

DEPARTMENT OF PUBLIC WORKS  
5510 OVERLAND AVE, SUITE 410  
SAN DIEGO, CALIFORNIA 92123-1237  
(858) 694-2212 FAX: (858) 694-3597  
Web Site: [www.sdcountry.ca.gov/dpw/](http://www.sdcountry.ca.gov/dpw/)

## COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date: April 4, 2022

Item Title: Traffic Control Signal

Location: Dunbar Lane and Chocolate Summit Drive / Old Hwy 80

CTE Recommendation: **Install a Traffic Control Signal**

### Conditions:

- Section 21351 of the California Vehicle Code (CVC) authorizes a local agency to place and maintain or cause to be placed and maintained traffic signs, signals and other traffic control devices upon streets and highways within their jurisdiction as may be necessary to warn and guide traffic.
- Chapter 4C "Traffic Control Signal Needs Studies" of the California Manual on Uniform Traffic Control Devices (MUTCD), provides guidance for the preparation of an engineering study of traffic conditions to determine whether a traffic control signal is justified.
- The posted speed limit on Olde Hwy 80 is 50 MPH and unposted on Dunbar Lane and Chocolate Summit Drive (55 MPH Statutory Speed Limit) and the intersection total approach traffic volume (ADT) is 8,432 vehicles/day.
- An engineering study following Chapter 4C of the California MUTCD guidelines, shows that the subject intersection meets warrant 3 – Peak Hour, based on the intersection AM peak hour of 8 - 9 traffic conditions. Hence, a traffic signal control is justified and can be considered for the intersection of Dunbar Lane and Chocolate Summit Drive / Old Hwy 80.



- It is my recommendation, as the County Traffic Engineer to consider a traffic control signal at the intersection of Dunbar Lane and Chocolate Summit Drive / Old Hwy 80 pursuant to Section 21351 of the CVC and the noted engineering study (warrant analysis) dated April 1, 2022.



*Zoubir A. Ouadah*

\_\_\_\_\_  
Zoubir A. Ouadah, PE. TE.  
County Traffic Engineer

*04/06/2022*

\_\_\_\_\_  
Date

**Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 1 of 5)**

COUNT DATE 5/18/2021  
 CALC AB DATE 4/6/22  
 CHK 740 DATE 4/6/22

DIST \_\_\_\_\_ CO \_\_\_\_\_ RTE \_\_\_\_\_ PM \_\_\_\_\_

Major St: DAINBAR LN. Critical Approach Speed 55 mph  
 Minor St: CHOCOLATE SUMMIT DR / OLDE HWY 80 Critical Approach Speed 50 mph

Speed limit or critical speed on major street traffic > 40 mph..... ☒ or ☐ } **RURAL (R)**  
 In built up area of isolated community of < 10,000 population..... ☐ **URBAN (U)**

**WARRANT 1 - Eight Hour Vehicular Volume** SATISFIED YES ☐ NO ☐  
 (Condition A or Condition B or combination of A and B must be satisfied)

**Condition A - Minimum Vehicle Volume** 100% SATISFIED YES ☐ NO ☐  
 80% SATISFIED YES ☐ NO ☐

MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)					80% SATISFIED YES <input type="checkbox"/> NO <input type="checkbox"/>									
	U	R	U	R										
APPROACH LANES	1		2 or More										Hour	
Both Approaches Major Street	500 (400)	350 (280)	600 (480)	420 (336)										
Highest Approach Minor Street	150 (120)	105 (84)	200 (160)	140 (112)										

**Condition B - Interruption of Continuous Traffic** 100% SATISFIED YES ☐ NO ☐  
 80% SATISFIED YES ☐ NO ☐

MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)					80% SATISFIED YES <input type="checkbox"/> NO <input type="checkbox"/>									
	U	R	U	R										
APPROACH LANES	1		2 or More										Hour	
Both Approaches Major Street	750 (600)	525 (420)	900 (720)	630 (504)										
Highest Approach Minor Street	75 (60)	53 (42)	100 (80)	70 (56)										

**Combination of Conditions A & B** SATISFIED YES ☐ NO ☐

REQUIREMENT	CONDITION	✓	FULFILLED
TWO CONDITIONS SATISFIED 80%	A. MINIMUM VEHICULAR VOLUME		Yes <input type="checkbox"/> No <input type="checkbox"/>
	AND, B. INTERRUPTION OF CONTINUOUS TRAFFIC		
AND, AN ADEQUATE TRIAL OF OTHER ALTERNATIVES THAT COULD CAUSE LESS DELAY AND INCONVENIENCE TO TRAFFIC HAS FAILED TO SOLVE THE TRAFFIC PROBLEMS			Yes <input type="checkbox"/> No <input type="checkbox"/>

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

**Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 2 of 5)**

**WARRANT 2 - Four Hour Vehicular Volume**

**SATISFIED\*** YES ☐ NO ☐

Record hourly vehicular volumes for any four hours of an average day.

APPROACH LANES	One	2 or More				Hour
Both Approaches - Major Street						
Higher Approach - Minor Street						

*All plotted points fall above the applicable curve in Figure 4C-1. (URBAN AREAS)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>OR</u> , All plotted points fall above the applicable curve in Figure 4C-2. (RURAL AREAS)	Yes <input type="checkbox"/>	No <input type="checkbox"/>

**WARRANT 3 - Peak Hour**  
(Part A or Part B must be satisfied)

**SATISFIED** YES ☒ NO ☐

**PART A**

**SATISFIED** YES ☐ NO ☐

(All parts 1, 2, and 3 below must be satisfied for the same one hour, for any four consecutive 15-minute periods)

1. The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; <u>AND</u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2. The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; <u>AND</u>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3. The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

**PART B**

**SATISFIED** YES ☒ NO ☐

APPROACH LANES	One	2 or More	Hour
Both Approaches - Major Street			838
Higher Approach - Minor Street			281

The plotted point falls above the applicable curve in Figure 4C-3. (URBAN AREAS)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>OR</u> , The plotted point falls above the applicable curve in Figure 4C-4. (RURAL AREAS)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.



**Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 3 of 5)**

**WARRANT 4 - Pedestrian Volume  
(Parts 1 and 2 Must Be Satisfied)**

**SATISFIED YES ☐ NO ☐**

**Part 1 (Parts A or B must be satisfied)**  
Hours - - ->

A.	Vehicles per hour for any 4 hours				
	Pedestrians per hour for any 4 hours				

**Figure 4C-5 or Figure 4C-6  
SATISFIED YES ☐ NO ☐**

**B.**

Vehicles per hour for any 1 hour				
Pedestrians per hour for any 1 hour				

**Figure 4C-7 or Figure 4C-8  
SATISFIED YES ☐ NO ☐**

**Part 2**

**SATISFIED YES ☐ NO ☐**

<u>AND</u> , The distance to the nearest traffic signal along the major street is greater than 300 ft	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>OR</u> , The proposed traffic signal will not restrict progressive traffic flow along the major street.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

**WARRANT 5 - School Crossing  
(Parts A and B Must Be Satisfied)**

**SATISFIED YES ☐ NO ☐**

**Part A**

**Gap/Minutes and # of Children**

**SATISFIED YES ☐ NO ☐**

Gaps vs Minutes	Minutes Children Using Crossing	Hour
	Number of Adequate Gaps	
School Age Pedestrians Crossing Street / hr		

Gaps < Minutes YES ☐ NO ☐

AND Children > 20/hr YES ☐ NO ☐

<u>AND</u> , Consideration has been given to less restrictive remedial measures.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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**Part B**

**SATISFIED YES ☐ NO ☐**

The distance to the nearest traffic signal along the major street is greater than 300 ft	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>OR</u> , The proposed signal will not restrict the progressive movement of traffic.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

**Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 4 of 5)**

**WARRANT 6 - Coordinated Signal System**  
(All Parts Must Be Satisfied)

**SATISFIED YES ☐ NO ☐**

MINIMUM REQUIREMENTS	DISTANCE TO NEAREST SIGNAL	
≥ 1000 ft	N _____ ft, S _____ ft, E _____ ft, W _____ ft	Yes <input type="checkbox"/> No <input type="checkbox"/>
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals are so far apart that they do not provide the necessary degree of vehicular platooning.		Yes <input type="checkbox"/> No <input type="checkbox"/>
OR, On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.		

**WARRANT 7 - Crash Experience Warrant**  
(All Parts Must Be Satisfied)

**SATISFIED YES ☐ NO ☐**

Adequate trial of alternatives with satisfactory observance and enforcement has failed to reduce the crash frequency.		Yes <input type="checkbox"/> No <input type="checkbox"/>	
REQUIREMENTS	Number of crashes reported within a 12 month period susceptible to correction by a traffic signal, and involving injury or damage exceeding the requirements for a reportable crash.	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5 OR MORE			
REQUIREMENTS	CONDITIONS	Yes <input type="checkbox"/> No <input type="checkbox"/>	
ONE CONDITION SATISFIED 80%	Warrant 1, Condition A - Minimum Vehicular Volume		
	OR, Warrant 1, Condition B - Interruption of Continuous Traffic		
	OR, Warrant 4, Pedestrian Volume Condition Ped Vol ≥ 80% of Figure 4C-5 through Figure 4C-8		

**WARRANT 8 - Roadway Network**  
(All Parts Must Be Satisfied)

**SATISFIED YES ☐ NO ☐**

MINIMUM VOLUME REQUIREMENTS	ENTERING VOLUMES - ALL APPROACHES	✓	FULFILLED
1000 Veh/Hr	During Typical Weekday Peak Hour _____ Veh/Hr and has 5-year projected traffic volumes that meet one or more of Warrants 1, 2, and 3 during an average weekday.		Yes <input type="checkbox"/> No <input type="checkbox"/>
	OR During Each of Any 5 Hrs. of a Sat. or Sun _____ Veh/Hr		
CHARACTERISTICS OF MAJOR ROUTES		MAJOR ROUTE A	MAJOR ROUTE B
Hwy. System Serving as Principal Network for Through Traffic			
Rural or Suburban Highway Outside Of, Entering, or Traversing a City			
Appears as Major Route on an Official Plan			
Any Major Route Characteristics Met, Both Streets			Yes <input type="checkbox"/> No <input type="checkbox"/>

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

**Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 5 of 5)**

**WARRANT 9 - Intersection Near a Grade Crossing  
(Both Parts A and B Must Be Satisfied)**

**SATISFIED YES ☐ NO ☐**

<p><b>PART A</b></p> <p>A grade crossing exists on an approach controlled by a STOP or YIELD sign and the center of the track nearest to the intersection is within 140 feet of the stop line or yield line on the approach. Track Center Line to Limit Line _____ ft</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p><b>PART B</b></p> <p><b>There is one minor street approach lane at the track crossing -</b> During the highest traffic volume hour during which rail traffic uses the crossing, the plotted point falls above the applicable curve in Figure 4C-9.</p> <p>Major Street - Total of both approaches: _____ VPH Minor Street - Crosses the track (one direction only, approaching the intersection): _____ VPH X AF (Use Tables 4C-2, 3, &amp; 4 below to calculate AF) = _____ VPH</p> <hr/> <p><b>OR, There are two or more minor street approach lanes at the track crossing -</b> During the highest traffic volume hour during which rail traffic uses the crossing, the plotted point falls above the applicable curve in Figure 4C-10.</p> <p>Major Street - Total of both approaches : _____ VPH Minor Street - Crosses the track (one direction only, approaching the intersection): _____ VPH X AF (Use Tables 4C-2, 3, &amp; 4 below to calculate AF) = _____ VPH</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>

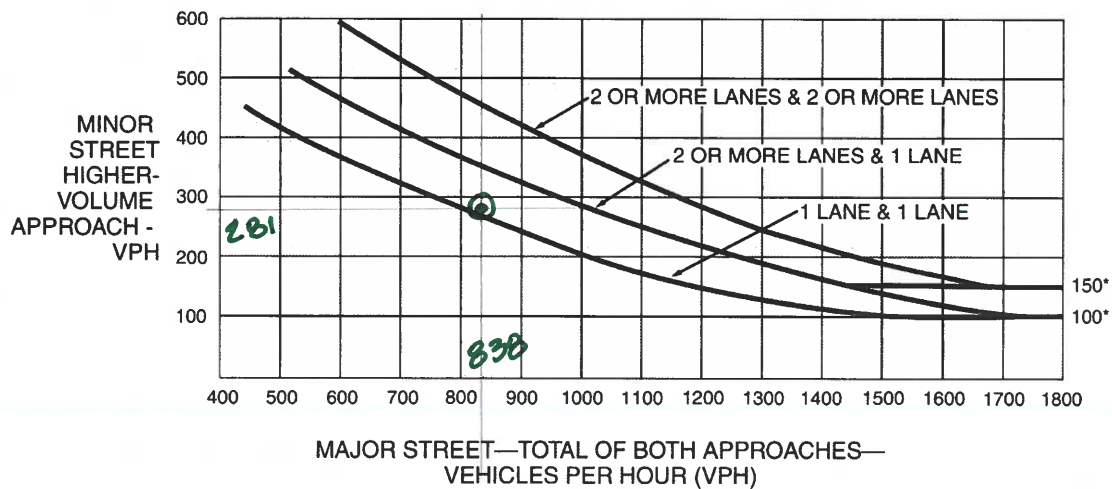
The minor street approach volume may be multiplied by up to three following adjustment factors (AF) as described in Section 4C.10.

- 1- Number of Rail Traffic per Day \_\_\_\_\_ Adjustment factor from table 4C-2 \_\_\_\_\_
- 2- Percentage of High-Occupancy Buses on Minor Street Approach \_\_\_\_\_ Adjustment factor from table 4C-3 \_\_\_\_\_
- 3- Percentage of Tractor-Trailer Trucks on Minor Street Approach \_\_\_\_\_ Adjustment factor from table 4C-4 \_\_\_\_\_

NOTE: If no data is available or known, then use AF = 1 (no adjustment)



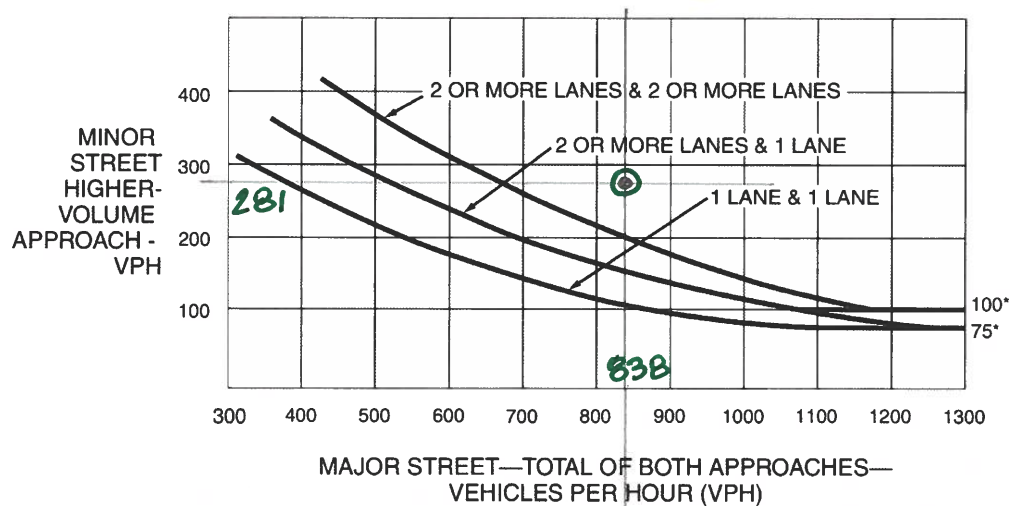
**Figure 4C-3. Warrant 3, Peak Hour**



\*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

**Figure 4C-4. Warrant 3, Peak Hour (70% Factor)**

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



\*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-102 (CA). Traffic Count Worksheet

Insert North Point

Not to Scale

DUNBAR LN (MAJOR)

OLDE HWY 80 (MINOR)

\*Entire Count Period

Number of Lanes <u>2</u>	
Pedestrians	
Total*	Peak

AM	Peak	PM	Peak	Total*

(365) (407) (772)

Number of Lanes <u>2</u>	
Pedestrians	
Total*	Peak

AM	Peak	PM	Peak	Total*

(21) (43) (64)

Number of Lanes <u>2</u>	
Pedestrians	
Total*	Peak

AM	Peak	PM	Peak	Total*

(269) (283) (543)

Number of Lanes <u>2</u>	
Pedestrians	
Total*	Peak

AM	Peak	PM	Peak	Total*

(473) (353) (826)

**DIRECTIONAL TRAFFIC COUNT**

Dist \_\_\_\_\_ Co \_\_\_\_\_ Rte \_\_\_\_\_ PM \_\_\_\_\_

OLDE 80 / DUNBAR LN.

Intersection Give Name

EI CAJON

City

Tuesday 5/18/21

Day Date

0:00 11:45

Hour to Hour

ADT 8432 vph

Total Volume

AM Peak 8-9 1119

Hour Volume

PM Peak 3-4 1085

Hour Volume

DAILY TOTALS						NB	SB							EB	WB	Total
						3,744	1,422							2,857	409	8,432
AM Peak Hour	08:00	08:15	08:00	07:00	08:15	PM Peak Hour	14:30	14:45	14:30	15:15	14:30					
AM Pk Volume	473	384	260	35	1124	PM Pk Volume	415	417	331	48	1173					
Pk Hr Factor	0.668	0.482	0.774	0.625	0.604	Pk Hr Factor	0.780	0.385	0.919	0.800	0.587					
7 - 9 Volume	655	431	402	56	1544	4 - 6 Volume	459	101	441	53	1054					
7 - 9 Peak Hour	08:00	08:00	08:00	07:00	08:00	4 - 6 Peak Hour	16:30	16:00	16:00	16:00	16:00					
7 - 9 Pk Volume	473	365	260	35	1119	4 - 6 Pk Volume	244	60	248	33	583					
Pk Hr Factor	0.668	0.459	0.774	0.625	0.602	Pk Hr Factor	0.897	0.938	0.912	0.589	0.900					

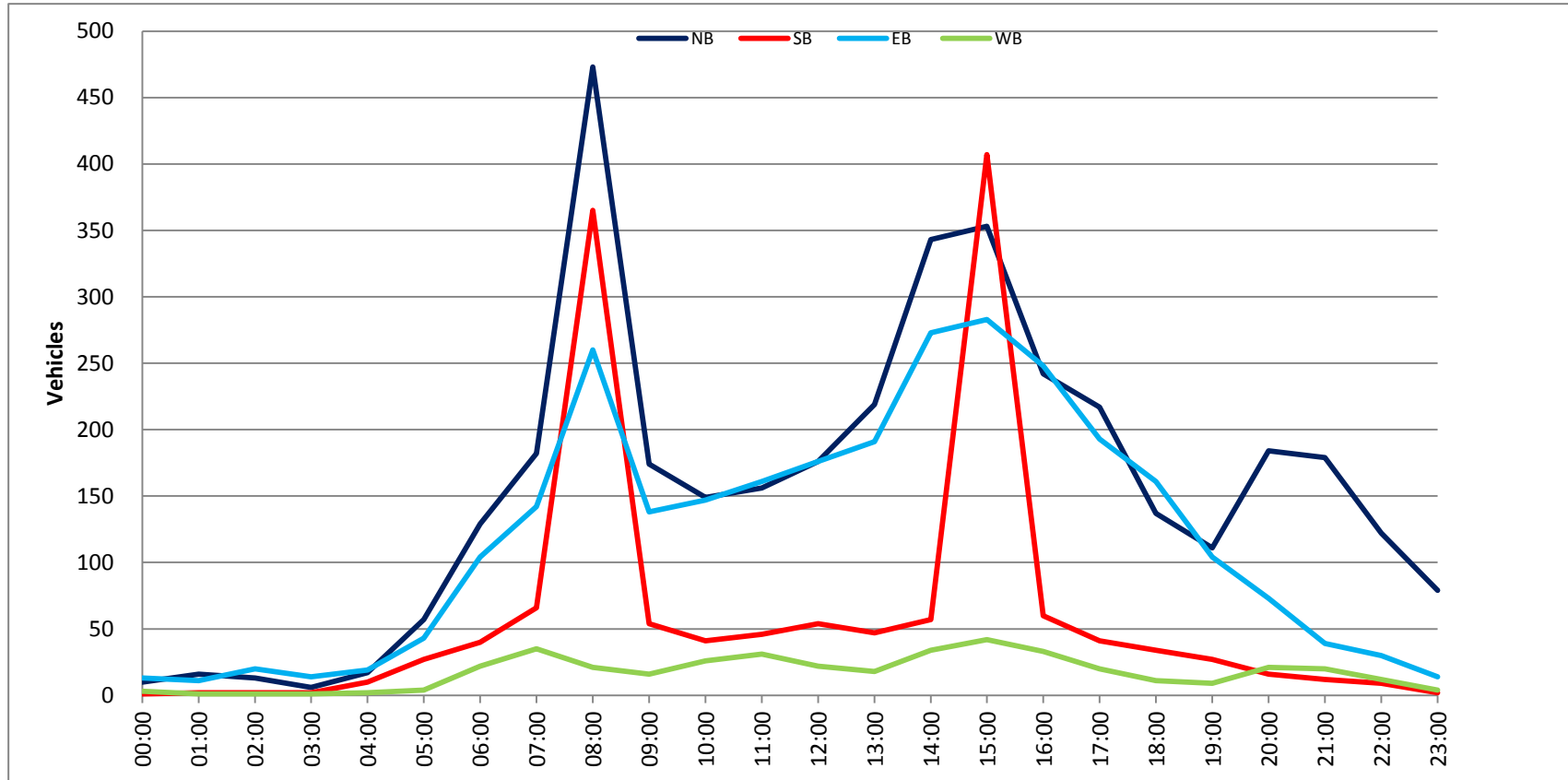


Project #: CA21\_040086\_001

City: El Cajon

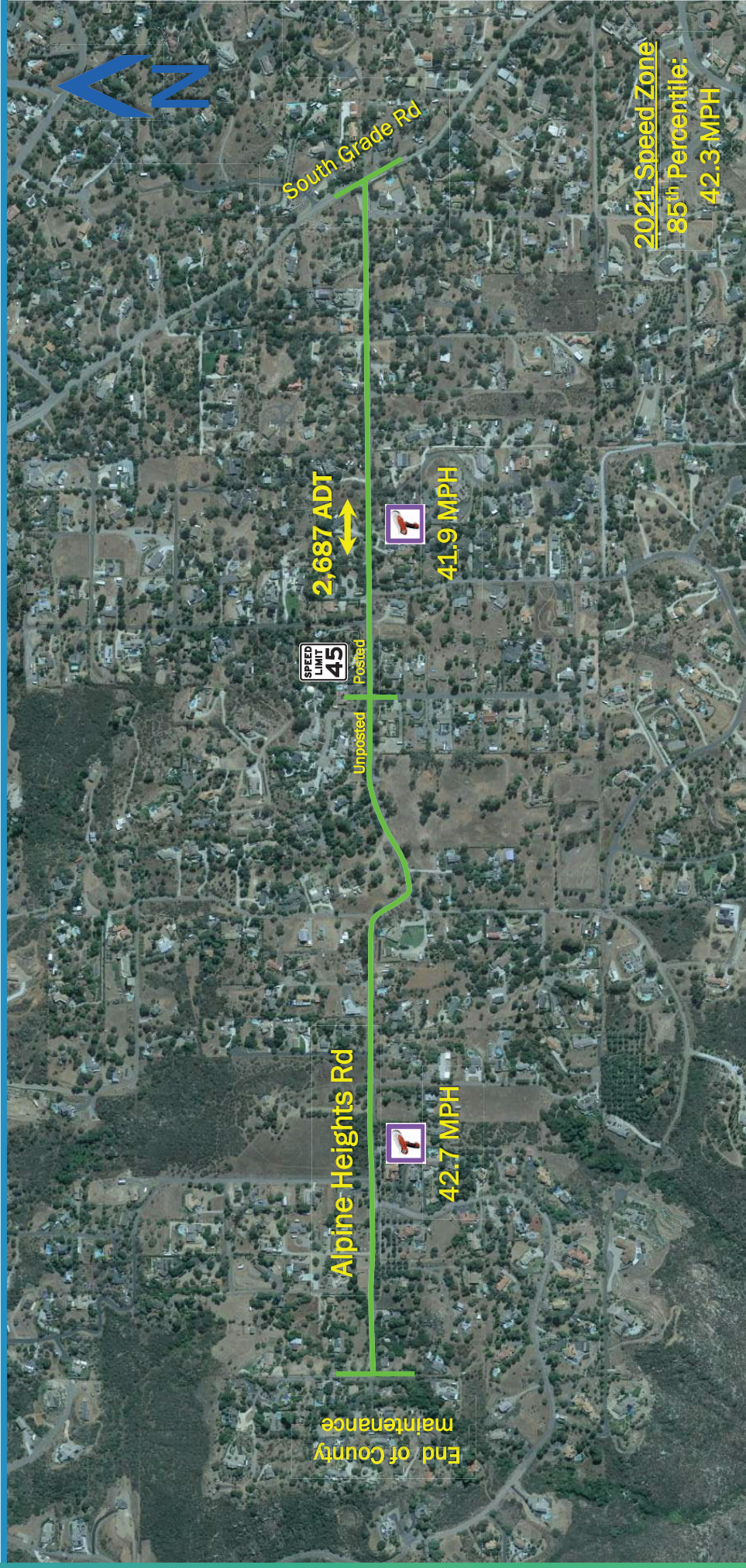
Location: Dunbar Ln & Chocolate Summit Dr

Date: 5/18/2021



# Alpine Heights Road

South Grade Road to end of County maintenance (1.34 miles)



## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022

**Item 2-B**

**SUPERVISORIAL DISTRICT:** 2

**SUBJECT:** Radar Certification

**LOCATION:** Alpine Heights Road from South Grade Road to end of County maintenance (a distance of 1.34 miles) ALPINE (Thos. Bros. 1253-J3)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

### **PROBLEM AS STATED BY REQUESTER:**

Alpine Heights Road from South Grade Road westerly 3,000 feet is posted 45 MPH. Alpine Heights Road from that point 3,000 feet west of South Grade Road to the end of County maintenance is currently unposted. A preliminary review of prevailing speeds and roadway conditions could support radar certification of a 40 MPH speed limit on Alpine Heights Road from South Grade Road to the end of County maintenance.

### **Existing Traffic Devices**

Alpine Heights Road is a striped 2-lane undivided highway with a pavement width of 30 feet. The roadway is striped with no passing and passing centerlines and white edgeline. The road is posted with equestrian advisory and a speed advised reverse turn. Alpine Heights Road is unclassified on the County General Plan Mobility Element Network. The roadway splits into two roadbeds from Lilac Lane to Michael Court with a landscaped median between. Alpine Heights Road is posted 45 MPH/Radar Enforced from South Grade Road to westerly 3,000 feet and has no formal posted speed limit from that point 3,000 feet west of South Grade Road to the end of County maintenance.

### **Average Daily Traffic Volumes**

	<b><u>12/21</u></b>	<b><u>07/14</u></b>
Alpine Heights Road:		
350' E/o Tompau Place	2,687	2,350

		<b><u>85th Percentile</u></b>	<b><u>10 MPH Pace</u></b>	<b><u>% in Pace</u></b>
<b><u>Speed Data</u></b>				
Alpine Heights Road:				
350' E/o Tompau Place	(2021)	41.9 MPH	32-41	73.0%
	(2014)	44.0 MPH	35-44	74.0%
180' E/o Via Corina	(2021)	42.7 MPH	35-44	78.0%
Speed Zone	(2021)	42.3 MPH	33-42	75.5%

**Collision Data**

There have been 4 reported collisions, none of which involved injury, along this segment of roadway in a 3 year period (11-01-18 to 10-31-21). These collisions result in a segment accident rate of 1.02 collisions per million vehicle miles. The statewide average is 1.32 collisions per million vehicle miles for similar suburban 2 lanes or less with speeds 45 to 55 MPH.



**VOLUME**

Alpine Heights Rd 350' E/O Tompau Pl

Day: Wednesday

Date: 12/8/2021

City: Alpine

Project #: CA21\_040210\_007

DAILY TOTALS					NB	SB					EB	WB	Total
					0	0					1,335	1,352	2,687
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL	
00:00			0	0	0		12:00			12	14	26	
00:15			0	4	4		12:15			22	18	40	
00:30			1	0	1		12:30			20	17	37	
00:45			0	4	4		12:45			23	77	14	63
01:00			0	0	0		13:00			19	20	39	
01:15			0	0	0		13:15			28	29	57	
01:30			0	0	0		13:30			21	19	40	
01:45			0	0	0		13:45			18	86	27	95
02:00			0	1	1		14:00			20	24	44	
02:15			0	0	0		14:15			23	21	44	
02:30			0	0	0		14:30			31	27	58	
02:45			0	1	1		14:45			24	98	20	92
03:00			0	1	1		15:00			33	33	66	
03:15			2	0	2		15:15			16	38	54	
03:30			1	0	1		15:30			32	43	75	
03:45			1	4	5		15:45			20	101	32	146
04:00			2	0	2		16:00			25	35	60	
04:15			0	0	0		16:15			20	39	59	
04:30			2	2	4		16:30			24	37	61	
04:45			9	13	22		16:45			20	89	37	148
05:00			13	0	13		17:00			17	39	56	
05:15			13	0	13		17:15			19	34	53	
05:30			14	2	16		17:30			25	30	55	
05:45			8	48	56		17:45			11	72	21	124
06:00			17	5	22		18:00			8	33	41	
06:15			28	5	33		18:15			16	22	38	
06:30			29	6	35		18:30			7	20	27	
06:45			29	103	132		18:45			6	37	22	97
07:00			32	22	54		19:00			7	12	19	
07:15			32	5	37		19:15			4	19	23	
07:30			44	9	53		19:30			2	14	16	
07:45			37	145	182		19:45			6	19	15	60
08:00			27	20	47		20:00			5	11	16	
08:15			24	19	43		20:15			1	17	18	
08:30			57	23	80		20:30			5	11	16	
08:45			29	137	166		20:45			1	12	10	49
09:00			22	18	40		21:00			8	15	23	
09:15			27	18	45		21:15			2	8	10	
09:30			23	19	42		21:30			6	16	22	
09:45			22	94	116		21:45			3	19	7	46
10:00			18	10	28		22:00			2	6	8	
10:15			22	20	42		22:15			4	3	7	
10:30			16	16	32		22:30			4	8	12	
10:45			22	78	100		22:45			0	10	5	22
11:00			21	19	40		23:00			1	3	4	
11:15			23	21	44		23:15			1	2	3	
11:30			15	20	35		23:30			0	6	6	
11:45			31	90	121		23:45			0	2	2	13
TOTALS			713	397	1110		TOTALS			622	955	1577	
SPLIT %			64.2%	35.8%	41.3%		SPLIT %			39.4%	60.6%	58.7%	

DAILY TOTALS					NB	SB					EB	WB	Total
					0	0					1,335	1,352	2,687
AM Peak Hour			07:00	08:00	08:00		PM Peak Hour			14:15	16:15	15:00	
AM Pk Volume			145	94	231		PM Pk Volume			111	152	247	
Pk Hr Factor			0.824	0.734	0.722		Pk Hr Factor			0.841	0.974	0.823	
7 - 9 Volume	0	0	282	147	429		4 - 6 Volume	0	0	161	272	433	
7 - 9 Peak Hour			07:00	08:00	08:00		4 - 6 Peak Hour			16:00	16:15	16:00	
7 - 9 Pk Volume	0	0	145	94	231		4 - 6 Pk Volume	0	0	89	152	237	
Pk Hr Factor	0.000	0.000	0.824	0.734	0.722		Pk Hr Factor	0.000	0.000	0.890	0.974	0.971	



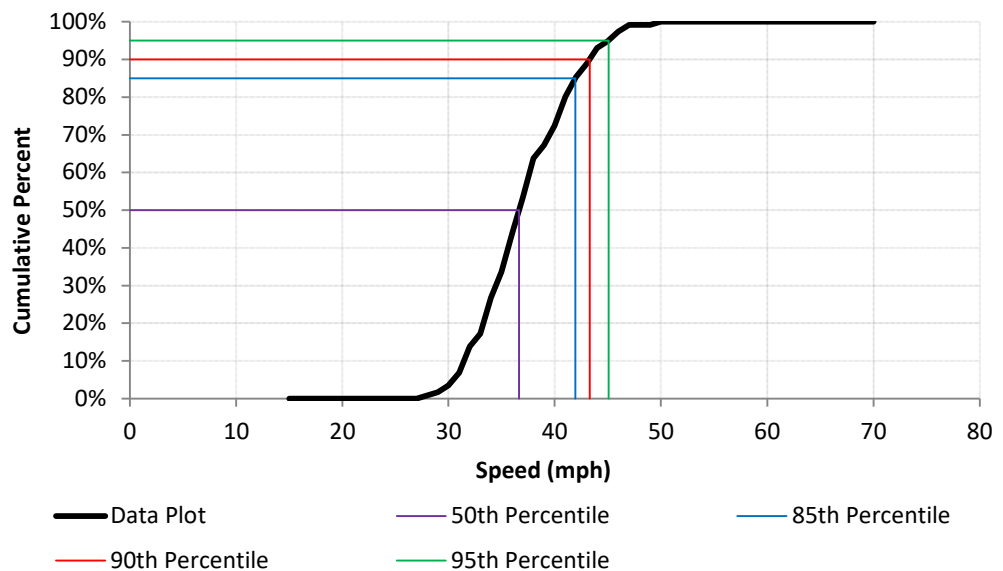
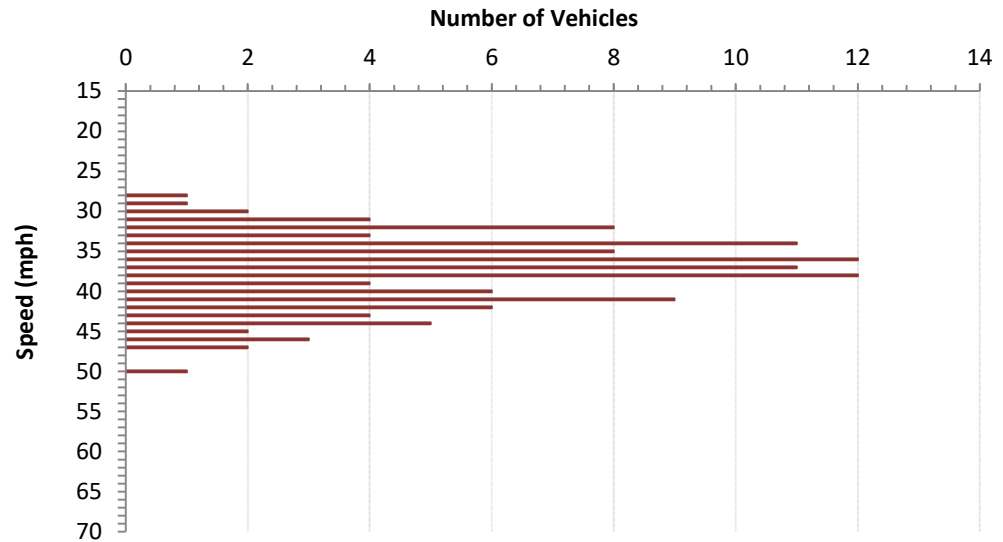
# RADAR SPEED SURVEY

## SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

<b>Road Name:</b>	Alpine HeightsRd	<b>From:</b>	Tompau PI	<b>To:</b>	S Grade Rd
<b>Position:</b>	Alpine Heights Rd 350 E/O Tompau PI			<b>Direction:</b>	EBT/WBT

<b>Date:</b>	12/21/2021	<b>Weather:</b>	Partly Cloudy	<b>Project Number:</b>	0
<b>Time Start:</b>	9:37AM	<b>Road Condition:</b>	Dry	<b>Observer:</b>	Samuel Cecere
<b>Time End:</b>	10:28AM	<b>Posted Speed:</b>	45mph	<b>Calibration Test:</b>	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28	1	0.9%
29	1	1.7%
30	2	3.4%
31	4	6.9%
32	8	13.8%
33	4	17.2%
34	11	26.7%
35	8	33.6%
36	12	44.0%
37	11	53.4%
38	12	63.8%
39	4	67.2%
40	6	72.4%
41	9	80.2%
42	6	85.3%
43	4	88.8%
44	5	93.1%
45	2	94.8%
46	3	97.4%
47	2	99.1%
48		
49		
50	1	100.0%
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	116	



### DATA ANALYSIS

Average Speed	37.6	Range	28 - 50
50th Percentile	36.6	10 mph Pace	32 - 41
85th Percentile	41.9	Number in Pace	85
90th Percentile	43.3	Percent in Pace	73%
95th Percentile	45.1		





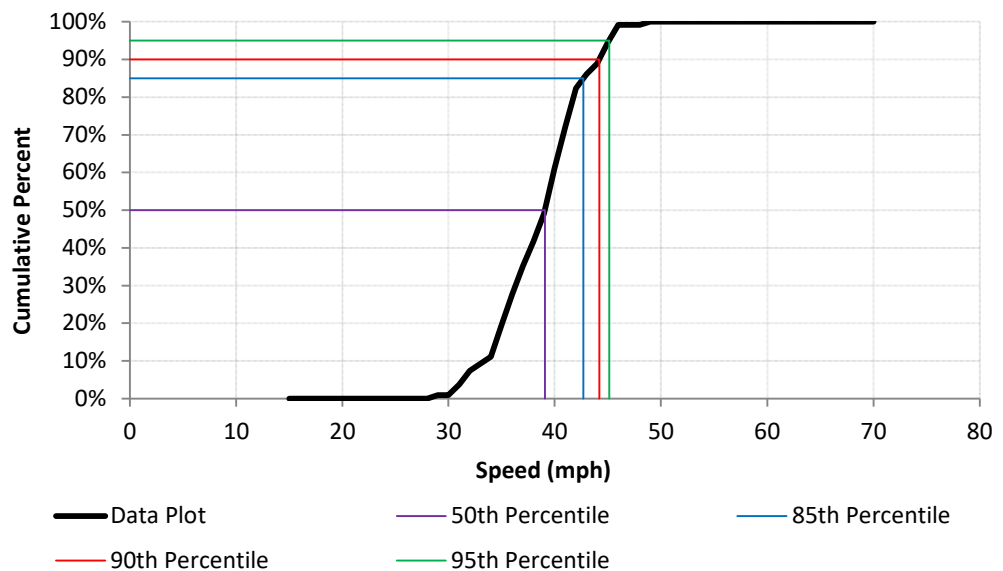
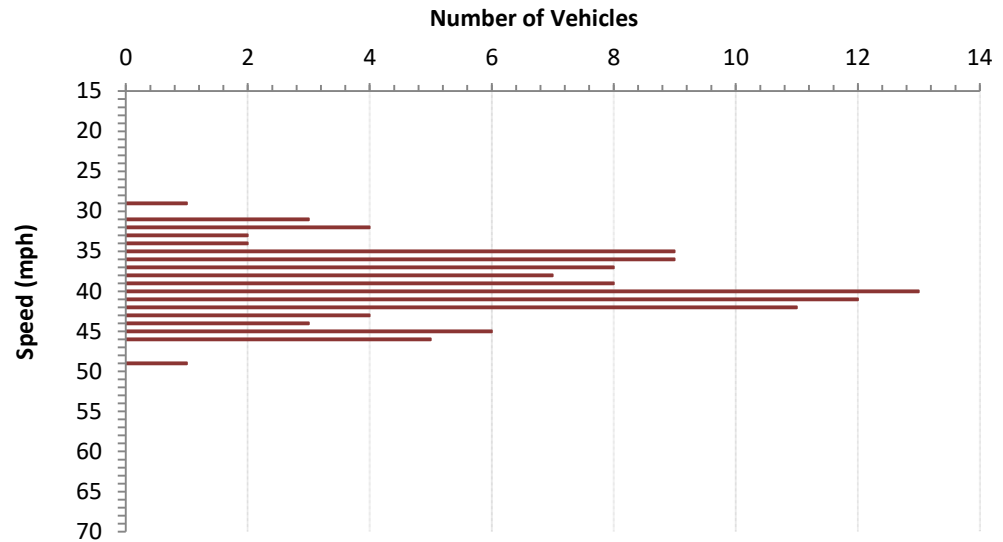
# RADAR SPEED SURVEY

## SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

<b>Road Name:</b>	Alpine HeightsRd	<b>From:</b>	Via Corina	<b>To:</b>	Lilac Ln
<b>Position:</b>	Alpine Heights Rd 180' E/O Via Corina			<b>Direction:</b>	EBT/WBT

<b>Date:</b>	12/21/2021	<b>Weather:</b>	Partly Cloudy	<b>Project Number:</b>	0
<b>Time Start:</b>	11:07AM	<b>Road Condition:</b>	Dry	<b>Observer:</b>	Samuel Cecere
<b>Time End:</b>	1:35PM	<b>Posted Speed:</b>	45mph	<b>Calibration Test:</b>	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29	1	0.9%
30		
31	3	3.7%
32	4	7.4%
33	2	9.3%
34	2	11.1%
35	9	19.4%
36	9	27.8%
37	8	35.2%
38	7	41.7%
39	8	49.1%
40	13	61.1%
41	12	72.2%
42	11	82.4%
43	4	86.1%
44	3	88.9%
45	6	94.4%
46	5	99.1%
47		
48		
49	1	100.0%
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	108	

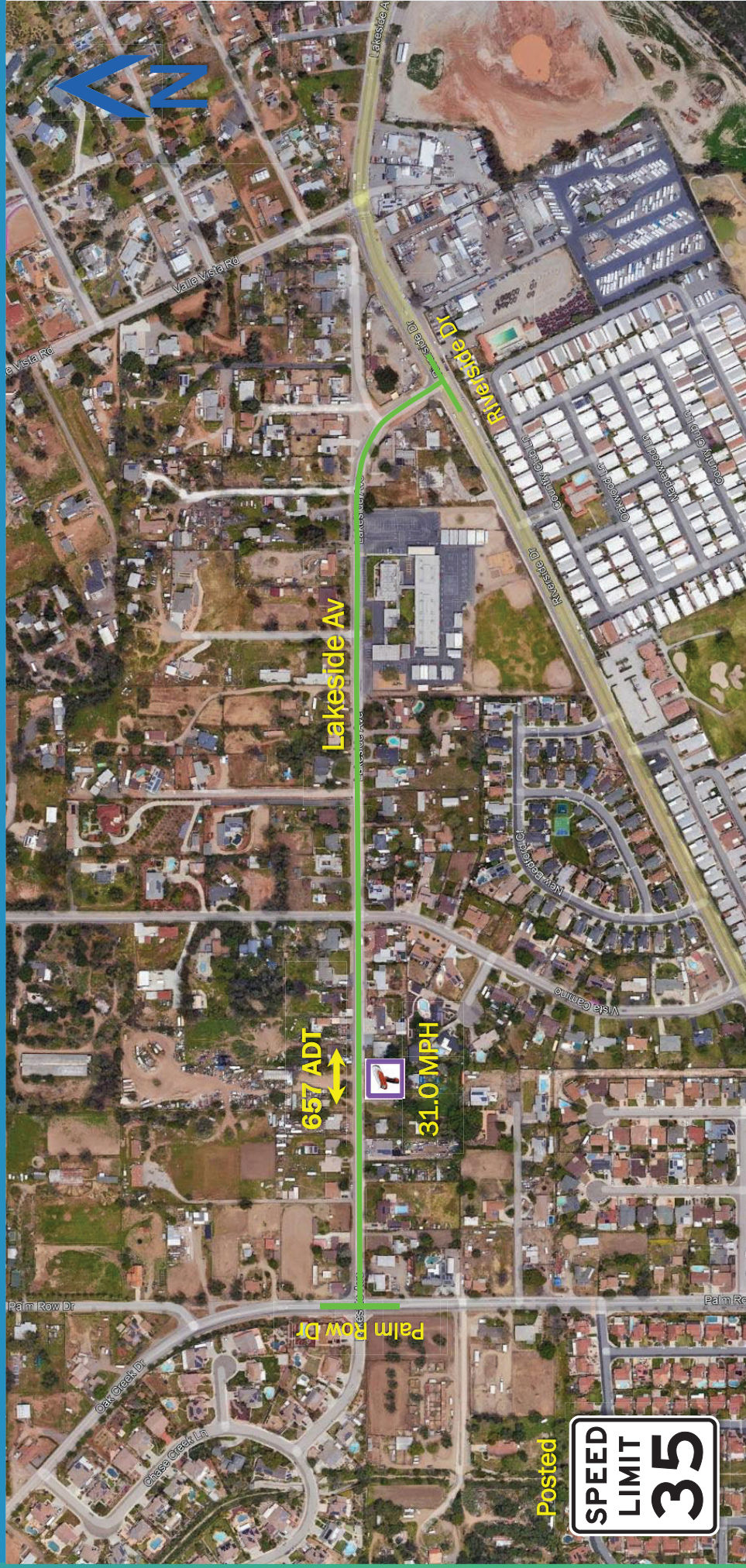


### DATA ANALYSIS

Average Speed	39.1	Range	29 - 49
50th Percentile	39.1	10 mph Pace	35 - 44
85th Percentile	42.7	Number in Pace	84
90th Percentile	44.2	Percent in Pace	78%
95th Percentile	45.1		

# Lakeside Avenue

Riverside Drive to Palm Row Drive (0.59 miles)





## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022

**Item 2-C**

**SUPERVISORIAL DISTRICT:** 2

**SUBJECT:** Radar Certification

**LOCATION:** Lakeside Avenue from Riverside Drive to Palm Row Drive (a distance of 0.59 miles) LAKESIDE FARMS (Thos. Bros. 1231-J2)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

**PROBLEM AS STATED BY REQUESTER:**

Lakeside Avenue from Riverside Drive to Palm Row Drive is posted 35 MPH. A preliminary review of prevailing speeds and roadway conditions could support radar certification of a 30 MPH speed limit.

**Existing Traffic Devices**

Lakeside Avenue is a striped 2-lane undivided highway with a pavement width of 24 to 40 feet. The roadway is striped with no passing centerline. The road is posted with stop advisory signs and school zone ahead, school crossing ahead, school crossing, and school speed limit signage adjacent to the Lakeside Farms Elementary School. Lakeside Avenue is unclassified on the County General Plan Mobility Element Network. The roadway has two school crosswalks and 90 degree angled parking adjacent to the elementary school and an all-way stop intersection at Vista Camino. Lakeside Avenue is posted 35 MPH/Radar Enforced.

**Average Daily Traffic Volumes**

	<b><u>03/22</u></b>	<b><u>01/16</u></b>
Lakeside Avenue:		
200' E/o Palm Row Drive	657	850

<b><u>Speed Data</u></b>	<b><u>85th Percentile</u></b>	<b><u>10 MPH Pace</u></b>	<b><u>% in Pace</u></b>
Lakeside Avenue:			
500' W/o Vista Camino	(2022) 31.0 MPH	22-31	82.0%
300' W/o Vista Camino	(2016) 35.0 MPH	26-35	85.0%

**Collision Data**

There have been 3 reported collisions, none of which involved injury, along this segment of roadway in a 3 year period (11-01-18 to 10-31-21). These collisions result in a segment accident rate of 0.76 collisions per million vehicle miles. The statewide average is 1.6 collisions per million vehicle miles for similar suburban 2 lanes or less with speeds less than 45 MPH.

**VOLUME**

Lakeside Ave 200' E/O Palm Row Dr

Day: Tuesday  
Date: 3/22/2022City: Lakeside  
Project #: CA22\_040044\_001

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						301	356						657
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			0	0	0		12:00			7	2	9							
00:15			1	0	1		12:15			2	6	8							
00:30			0	0	0		12:30			6	4	10							
00:45			0	1	0	1	12:45			7	22	12	39						
01:00			0	0	0		13:00			6	7	13							
01:15			0	0	0		13:15			4	5	9							
01:30			1	0	1		13:30			5	1	6							
01:45			0	1	2	3	13:45			10	25	17	45						
02:00			1	0	1		14:00			8	2	10							
02:15			0	0	0		14:15			8	3	11							
02:30			1	1	2		14:30			5	8	13							
02:45			0	2	0	3	14:45			10	31	17	51						
03:00			0	0	0		15:00			11	11	22							
03:15			0	0	0		15:15			4	29	33							
03:30			0	0	0		15:30			4	8	12							
03:45			0	0	0		15:45			7	26	20	87						
04:00			1	0	1		16:00			3	8	11							
04:15			0	0	0		16:15			4	12	16							
04:30			1	0	1		16:30			5	8	13							
04:45			1	3	1	4	16:45			7	19	17	57						
05:00			0	0	0		17:00			7	15	22							
05:15			0	3	3		17:15			5	6	11							
05:30			1	0	1		17:30			6	7	13							
05:45			1	2	1	4	17:45			8	26	16	62						
06:00			1	1	2		18:00			3	5	8							
06:15			2	2	4		18:15			3	6	9							
06:30			4	2	6		18:30			0	4	4							
06:45			0	7	4	9	18:45			2	8	5	26						
07:00			7	2	9		19:00			5	1	6							
07:15			1	7	8		19:15			4	3	7							
07:30			5	6	11		19:30			2	2	4							
07:45			8	21	4	19	19:45			2	13	5	22						
08:00			4	9	13		20:00			0	5	5							
08:15			6	12	18		20:15			3	1	4							
08:30			13	4	17		20:30			0	1	1							
08:45			7	30	9	34	20:45			5	8	9	19						
09:00			1	6	7		21:00			1	2	3							
09:15			5	6	11		21:15			1	2	3							
09:30			2	7	9		21:30			2	0	2							
09:45			2	10	6	25	21:45			0	4	0	8						
10:00			8	3	11		22:00			1	1	2							
10:15			2	2	4		22:15			1	0	1							
10:30			3	3	6		22:30			1	2	3							
10:45			5	18	2	10	22:45			1	4	0	7						
11:00			3	1	4		23:00			1	2	3							
11:15			5	5	10		23:15			2	0	2							
11:30			2	4	6		23:30			1	0	1							
11:45			6	16	2	12	23:45			0	4	0	6						
TOTALS			111	117	228		TOTALS			190	239	429							
SPLIT %			48.7%	51.3%	34.7%		SPLIT %			44.3%	55.7%	65.3%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						301	356						657
AM Peak Hour			07:45	08:00	08:00		PM Peak Hour			14:15	15:00	15:00							
AM Pk Volume			31	34	64		PM Pk Volume			34	61	87							
Pk Hr Factor			0.596	0.708	0.889		Pk Hr Factor			0.773	0.526	0.659							
7 - 9 Volume	0	0	51	53	104		4 - 6 Volume	0	0	45	74	119							
7 - 9 Peak Hour			07:45	08:00	08:00		4 - 6 Peak Hour			17:00	16:15	16:15							
7 - 9 Pk Volume	0	0	31	34	64		4 - 6 Pk Volume	0	0	26	45	68							
Pk Hr Factor	0.000	0.000	0.596	0.708	0.889		Pk Hr Factor	0.000	0.000	0.813	0.750	0.773							



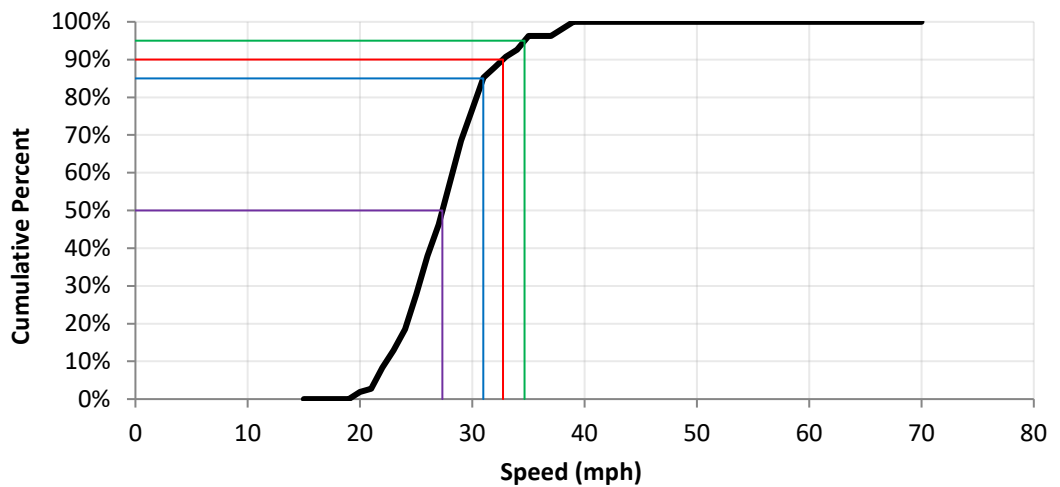
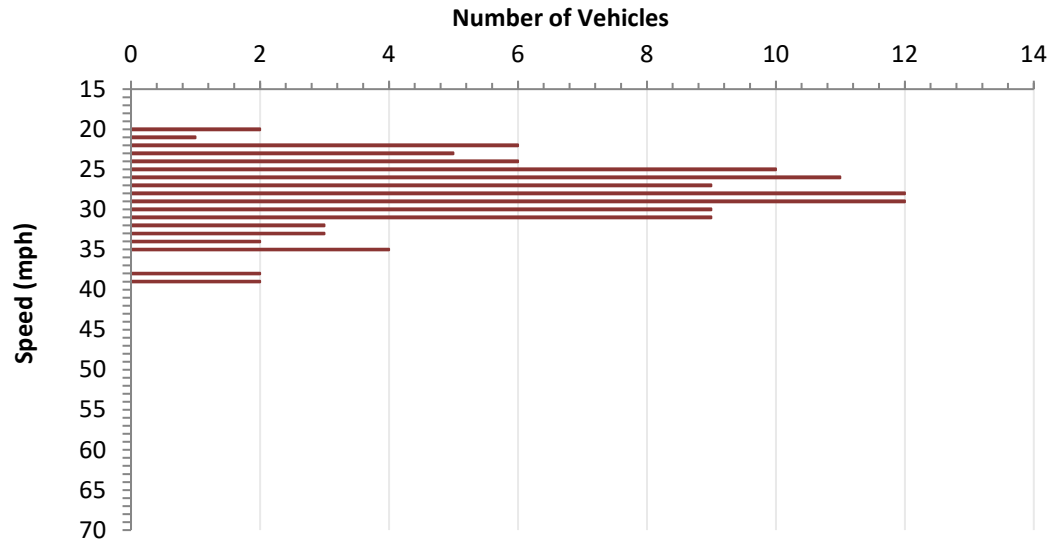
# RADAR SPEED SURVEY

## SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

<b>Road Name:</b>	Lakeside Ave	<b>From:</b>	Vista Camino	<b>To:</b>	Palm Row Dr
<b>Position:</b>	500' W/O Vista Camino	<b>Direction:</b>	EB/WB		

<b>Date:</b>	04/04//2022	<b>Weather:</b>	Clear	<b>Project Number:</b>	0
<b>Time Start:</b>	1:10PM	<b>Road Condition:</b>	Dry	<b>Observer:</b>	Samuel Cecere
<b>Time End:</b>	3:20PM	<b>Posted Speed:</b>	35 MPH	<b>Calibration Test:</b>	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20	2	1.9%
21	1	2.8%
22	6	8.3%
23	5	13.0%
24	6	18.5%
25	10	27.8%
26	11	38.0%
27	9	46.3%
28	12	57.4%
29	12	68.5%
30	9	76.9%
31	9	85.2%
32	3	88.0%
33	3	90.7%
34	2	92.6%
35	4	96.3%



— Data Plot      — 50th Percentile      — 85th Percentile  
— 90th Percentile      — 95th Percentile

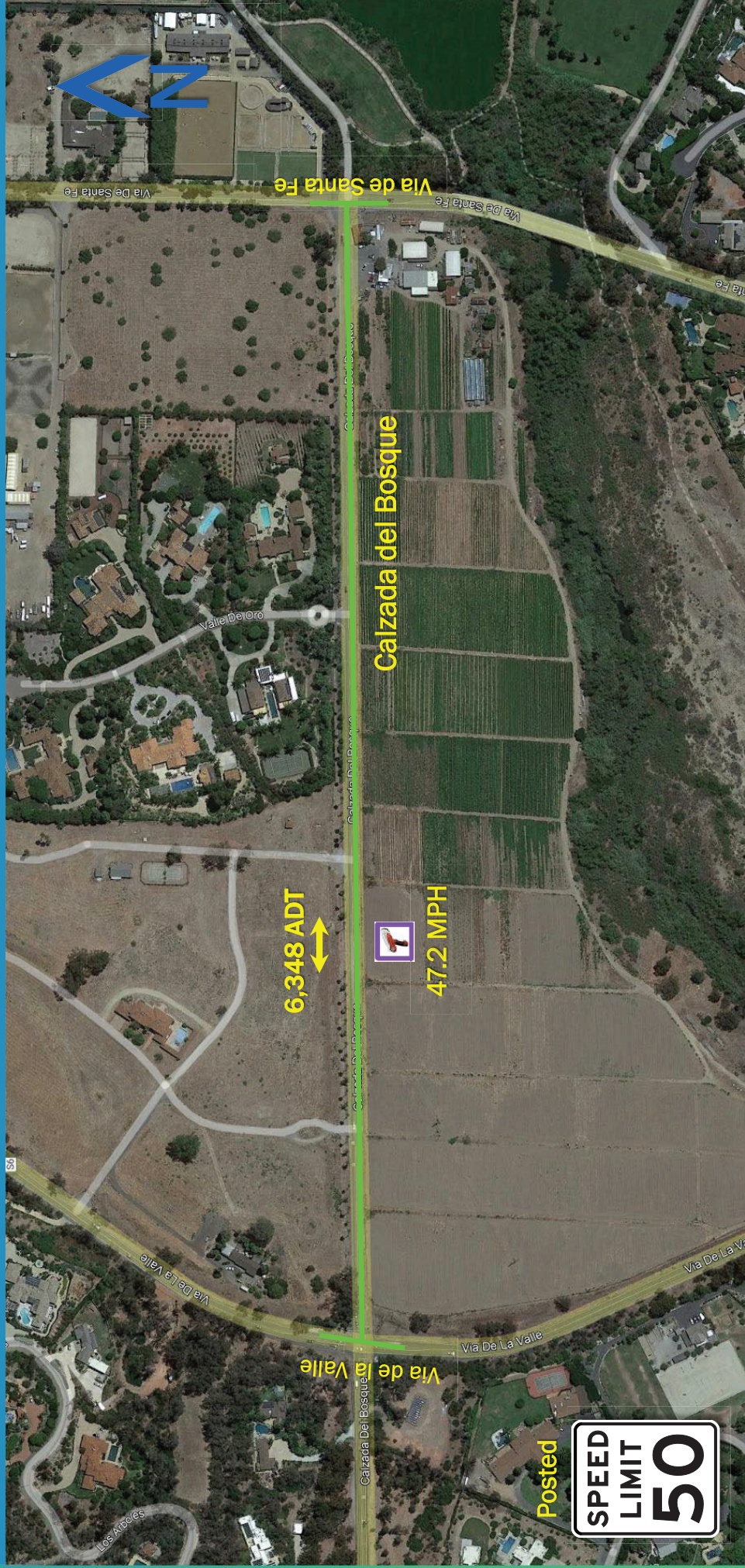
### DATA ANALYSIS

62	Average Speed	28.0	Range	20 - 39
63	50th Percentile	27.3	10 mph Pace	22 - 31
64	85th Percentile	31.0	Number in Pace	89
65	90th Percentile	32.7	Percent in Pace	82%
66	95th Percentile	34.7		
67	Total	108		



# Calzada del Bosque

Via de Santa Fe to Via de la Valle (0.55 miles)





## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022

**Item 3-A**

**SUPERVISORIAL DISTRICT:** 3

**SUBJECT:** Radar Certification

**LOCATION:** Calzada del Bosque from Via de Santa Fe to Via de la Valle (a distance of 0.55 miles) RANCHO SANTA FE (Thos. Bros. 1168-E5)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

**PROBLEM AS STATED BY REQUESTER:**

Calzada del Bosque from Via de Santa Fe to Via de la Valle is posted 50 MPH. A preliminary review of prevailing speeds and roadway conditions could support radar certification of a 45 MPH speed limit.

**Existing Traffic Devices**

Calzada del Bosque is a striped 2-lane undivided highway with a pavement width of 26 feet. The roadway is striped with no passing and passing centerline. The road is posted with stop advisory and signal advisory signs. Calzada del Bosque is unclassified on the County General Plan Mobility Element Network. The road is posted 7-ton weight restricted. Calzada del Bosque is posted 50 MPH/Radar Enforced.

**Average Daily Traffic Volumes**

	<b><u>03/22</u></b>	<b><u>06/16</u></b>
Calzada del Bosque:		
1,000' E/o Via de la Valle	6,348	6,930

	<b><u>85th Percentile</u></b>	<b><u>10 MPH Pace</u></b>	<b><u>% in Pace</u></b>
<b><u>Speed Data</u></b>			
Calzada del Bosque:			
1,000' E/o Via de la Valle	(2022) 47.2 MPH	36-45	65.0%
	(2016) 51.8 MPH	43-52	81.5%

**Collision Data**

There have been 2 reported collisions, none of which involved injury, along this segment of roadway in a 3 year period (11-01-18 to 10-31-21). These collisions result in a segment accident rate of 0.52 collisions per million vehicle miles. The statewide average is 1.32 collisions per million vehicle miles for similar suburban 2 lanes or less with speeds 45 to 55 MPH.

**VOLUME**

Calzada Del Bosque 1000' E/O Via De La Valle

Day: Tuesday  
Date: 3/22/2022City: Rancho Santa Fe  
Project #: CA22\_040044\_004

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						3,352	2,996						6,348
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			3	2	5		12:00			62	49	111							
00:15			3	4	7		12:15			50	40	90							
00:30			2	0	2		12:30			56	38	94							
00:45			1	9	1	7	12:45			49	217	48	175	97	392				
01:00			1	0	1		13:00			54	41	95							
01:15			1	0	1		13:15			41	48	89							
01:30			0	0	0		13:30			49	30	79							
01:45			0	2	0	2	13:45			37	181	51	170	88	351				
02:00			0	0	0		14:00			37	52	89							
02:15			1	1	2		14:15			73	47	120							
02:30			0	0	0		14:30			64	42	106							
02:45			0	1	0	1	14:45			65	239	70	211	135	450				
03:00			1	0	1		15:00			89	105	194							
03:15			1	0	1		15:15			60	89	149							
03:30			0	0	0		15:30			76	95	171							
03:45			0	2	3	3	15:45			72	297	90	379	162	676				
04:00			0	2	2		16:00			73	82	155							
04:15			1	1	2		16:15			78	80	158							
04:30			0	0	0		16:30			74	57	131							
04:45			1	2	5	8	16:45			75	300	91	310	166	610				
05:00			0	0	0		17:00			78	76	154							
05:15			3	2	5		17:15			74	54	128							
05:30			4	7	11		17:30			75	57	132							
05:45			10	17	4	13	17:45			93	320	67	254	160	574				
06:00			17	5	22		18:00			55	44	99							
06:15			19	12	31		18:15			54	43	97							
06:30			25	11	36		18:30			49	35	84							
06:45			42	103	20	48	18:45			40	198	55	177	95	375				
07:00			43	24	67		19:00			46	39	85							
07:15			62	29	91		19:15			51	31	82							
07:30			68	56	124		19:30			37	17	54							
07:45			94	267	66	175	19:45			19	153	8	95	27	248				
08:00			109	78	187		20:00			16	15	31							
08:15			86	79	165		20:15			26	15	41							
08:30			56	91	147		20:30			20	14	34							
08:45			63	314	58	306	20:45			19	81	14	58	33	139				
09:00			34	48	82		21:00			22	11	33							
09:15			57	40	97		21:15			20	9	29							
09:30			61	48	109		21:30			20	12	32							
09:45			33	185	44	180	21:45			13	75	7	39	20	114				
10:00			29	40	69		22:00			12	4	16							
10:15			54	47	101		22:15			10	2	12							
10:30			32	40	72		22:30			8	4	12							
10:45			52	167	47	174	22:45			5	35	1	11	6	46				
11:00			40	51	91		23:00			7	1	8							
11:15			39	45	84		23:15			4	3	7							
11:30			55	54	109		23:30			3	1	4							
11:45			36	170	47	197	23:45			3	17	0	5	3	22				
TOTALS			1239	1112	2351		TOTALS			2113	1884	3997							
SPLIT %			52.7%	47.3%	37.0%		SPLIT %			52.9%	47.1%	63.0%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						3,352	2,996						6,348
AM Peak Hour			07:30	07:45	07:45		PM Peak Hour			17:00	15:00	15:00							
AM Pk Volume			357	314	659		PM Pk Volume			320	379	676							
Pk Hr Factor			0.819	0.863	0.881		Pk Hr Factor			0.860	0.902	0.871							
7 - 9 Volume	0	0	581	481	1062		4 - 6 Volume	0	0	620	564	1184							
7 - 9 Peak Hour			07:30	07:45	07:45		4 - 6 Peak Hour			17:00	16:00	16:00							
7 - 9 Pk Volume	0	0	357	314	659		4 - 6 Pk Volume	0	0	320	310	610							
Pk Hr Factor	0.000	0.000	0.819	0.863	0.881		Pk Hr Factor	0.000	0.000	0.860	0.852	0.919							



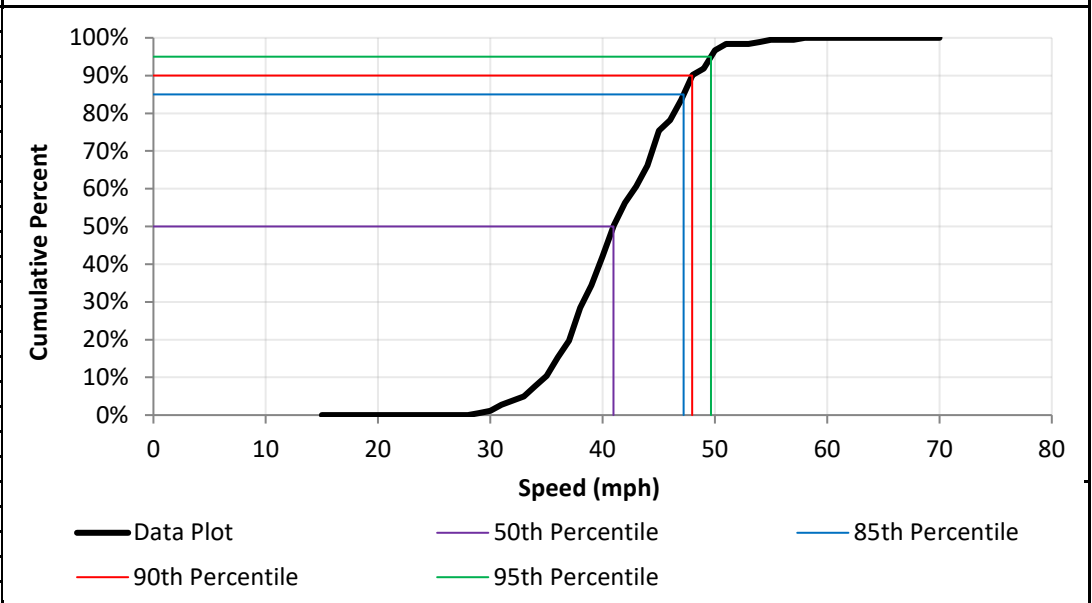
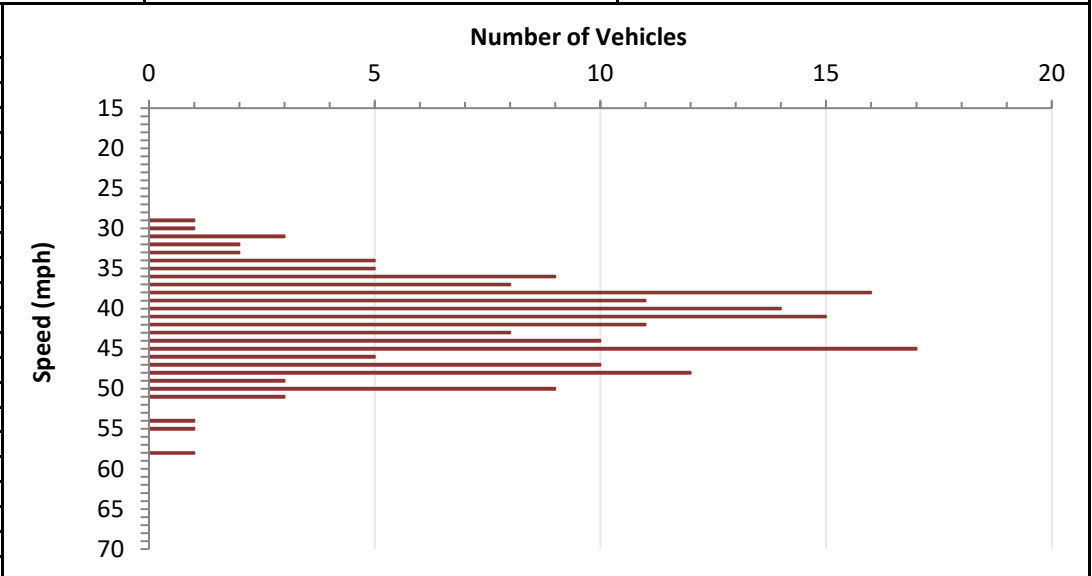
# RADAR SPEED SURVEY

## SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

<b>Road Name:</b>	Calzada Del Bosque	<b>From:</b>	Via De Sante Fe	<b>To:</b>	Via De La Valle
<b>Position:</b>	1000' E/O Via De La Valle	<b>Direction:</b>	EB/WB		

<b>Date:</b>	04/04//2022	<b>Weather:</b>	Clear	<b>Project Number:</b>	0
<b>Time Start:</b>	11:05AM	<b>Road Condition:</b>	Dry	<b>Observer:</b>	Samuel Cecere
<b>Time End:</b>	12:05PM	<b>Posted Speed:</b>	50 MPH	<b>Calibration Test:</b>	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29	1	0.5%
30	1	1.1%
31	3	2.7%
32	2	3.8%
33	2	4.9%
34	5	7.7%
35	5	10.4%
36	9	15.3%
37	8	19.7%
38	16	28.4%
39	11	34.4%
40	14	42.1%
41	15	50.3%
42	11	56.3%
43	8	60.7%
44	10	66.1%
45	17	75.4%
46	5	78.1%
47	10	83.6%
48	12	90.2%
49	3	91.8%
50	9	96.7%
51	3	98.4%
52		
53		
54	1	98.9%
55	1	99.5%
56		
57		
58	1	100.0%
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
<b>Total</b>	<b>183</b>	



DATA ANALYSIS			
Average Speed	41.9	Range	29 - 58
50th Percentile	41.0	10 mph Pace	36 - 45
85th Percentile	47.2	Number in Pace	119
90th Percentile	48.0	Percent in Pace	65%
95th Percentile	49.7		



# Calzada del Bosque

Via de la Valle to Linea del Cielo (0.64 miles)

# Calzada del Bosque

Via de la Valle to Linea del Cielo (0.64 miles)



## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022

**Item 3-B**

**SUPERVISORIAL DISTRICT:** 3

**SUBJECT:** Radar Certification

**LOCATION:** Calzada del Bosque from Via de la Valle to Linea del Cielo (a distance of 0.64 miles) RANCHO SANTA FE (Thos. Bros. 1168-D5)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

### **PROBLEM AS STATED BY REQUESTER:**

Calzada del Bosque from Via de la Valle to Linea del Cielo is posted 45 MPH. A preliminary review of prevailing speeds and roadway conditions could support radar certification of a 40 MPH speed limit.

### **Existing Traffic Devices**

Calzada del Bosque is a striped 2-lane undivided highway with a pavement width of 26 to 30 feet. The roadway is striped with no passing centerline and white edgeline. The road is posted with stop, signal, and intersection advisory signs. Calzada del Bosque is unclassified on the County General Plan Mobility Element Network. The road is posted 45 MPH/Radar Enforced.

### **Average Daily Traffic Volumes**

	<b><u>03/22</u></b>	<b><u>07/15</u></b>
Calzada del Bosque: 150' W/o Via de Alba	6,004	4,830

	<b><u>85th Percentile</u></b>	<b><u>10 MPH Pace</u></b>	<b><u>% in Pace</u></b>
<b><u>Speed Data</u></b> Calzada del Bosque: 150' W/o Via de Alba	(2022) 46.0 MPH (2015) 48.0 MPH	37-46 38-47	69.0% 72.0%

### **Collision Data**

There have been 6 reported collisions, 2 of which involved injury, along this segment of roadway in a 3 year period (11-01-18 to 10-31-21). These collisions result in a segment accident rate of 1.43 collisions per million vehicle miles. The statewide average is 1.32 collisions per million vehicle miles for similar suburban 2 lanes or less with speeds 45 to 55 MPH.

**VOLUME**

Calzada Del Bosque 150' W/O Via Del Alba

Day: Tuesday  
Date: 3/22/2022City: Rancho Santa Fe  
Project #: CA22\_040044\_005

DAILY TOTALS					NB	SB						EB	WB	Total
					0	0						3,249	2,755	6,004
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL		
00:00			3	2	5		12:00			51	49	100		
00:15			5	1	6		12:15			50	41	91		
00:30			3	0	3		12:30			51	31	82		
00:45			4	15	1	4	12:45			46	198	44	165	363
01:00			5	0	5		13:00			56	41	97		
01:15			1	0	1		13:15			42	55	97		
01:30			0	1	1		13:30			51	43	94		
01:45			0	6	0	1	13:45			35	184	43	182	366
02:00			0	0	0		14:00			42	39	81		
02:15			0	1	1		14:15			63	46	109		
02:30			0	0	0		14:30			59	43	102		
02:45			0	0	0	1	14:45			58	222	63	191	413
03:00			1	0	1		15:00			75	77	152		
03:15			1	0	1		15:15			64	83	147		
03:30			0	0	0		15:30			71	63	134		
03:45			0	2	4	4	15:45			65	275	65	288	563
04:00			1	1	2		16:00			78	92	170		
04:15			0	2	2		16:15			69	71	140		
04:30			0	0	0		16:30			65	52	117		
04:45			1	2	3	6	16:45			82	294	73	288	582
05:00			1	3	4		17:00			71	63	134		
05:15			5	3	8		17:15			73	46	119		
05:30			2	7	9		17:30			69	46	115		
05:45			7	15	8	21	17:45			69	282	59	214	496
06:00			20	8	28		18:00			54	45	99		
06:15			22	14	36		18:15			50	40	90		
06:30			19	19	38		18:30			49	37	86		
06:45			37	98	26	67	18:45			41	194	45	167	361
07:00			49	30	79		19:00			42	33	75		
07:15			53	35	88		19:15			39	35	74		
07:30			63	47	110		19:30			24	23	47		
07:45			87	252	65	177	19:45			22	127	12	103	230
08:00			92	64	156		20:00			16	14	30		
08:15			77	59	136		20:15			26	19	45		
08:30			57	68	125		20:30			10	10	20		
08:45			65	291	52	243	20:45			17	69	8	51	120
09:00			38	45	83		21:00			31	9	40		
09:15			67	53	120		21:15			27	4	31		
09:30			57	40	97		21:30			33	16	49		
09:45			30	192	36	174	21:45			24	115	3	32	147
10:00			36	46	82		22:00			15	9	24		
10:15			46	32	78		22:15			16	2	18		
10:30			38	44	82		22:30			12	2	14		
10:45			46	166	46	168	22:45			11	54	1	14	68
11:00			42	51	93		23:00			9	0	9		
11:15			41	43	84		23:15			7	6	13		
11:30			50	47	97		23:30			5	1	6		
11:45			35	168	46	187	23:45			7	28	0	7	35
TOTALS			1207	1053	2260		TOTALS			2042	1702	3744		
SPLIT %			53.4%	46.6%	37.6%		SPLIT %			54.5%	45.5%	62.4%		

DAILY TOTALS					NB	SB						EB	WB	Total
					0	0						3,249	2,755	6,004
AM Peak Hour			07:30	07:45	07:45		PM Peak Hour			16:45	15:15	16:00		
AM Pk Volume			319	256	569		PM Pk Volume			295	303	582		
Pk Hr Factor			0.867	0.941	0.912		Pk Hr Factor			0.899	0.823	0.856		
7 - 9 Volume	0	0	543	420	963		4 - 6 Volume	0	0	576	502	1078		
7 - 9 Peak Hour			07:30	07:45	07:45		4 - 6 Peak Hour			16:45	16:00	16:00		
7 - 9 Pk Volume	0	0	319	256	569		4 - 6 Pk Volume	0	0	295	288	582		
Pk Hr Factor	0.000	0.000	0.867	0.941	0.912		Pk Hr Factor	0.000	0.000	0.899	0.783	0.856		





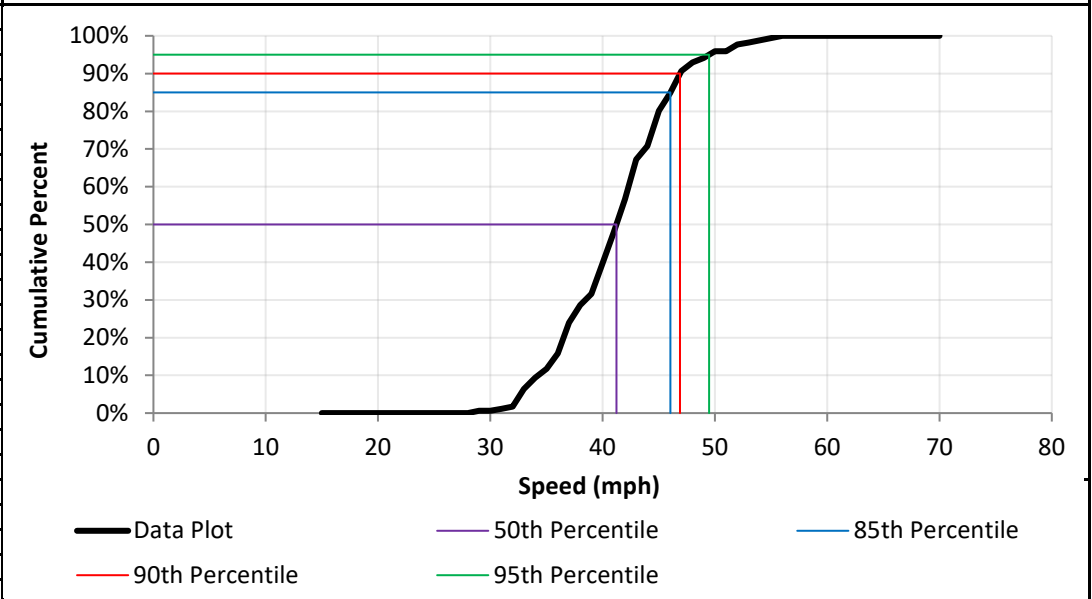
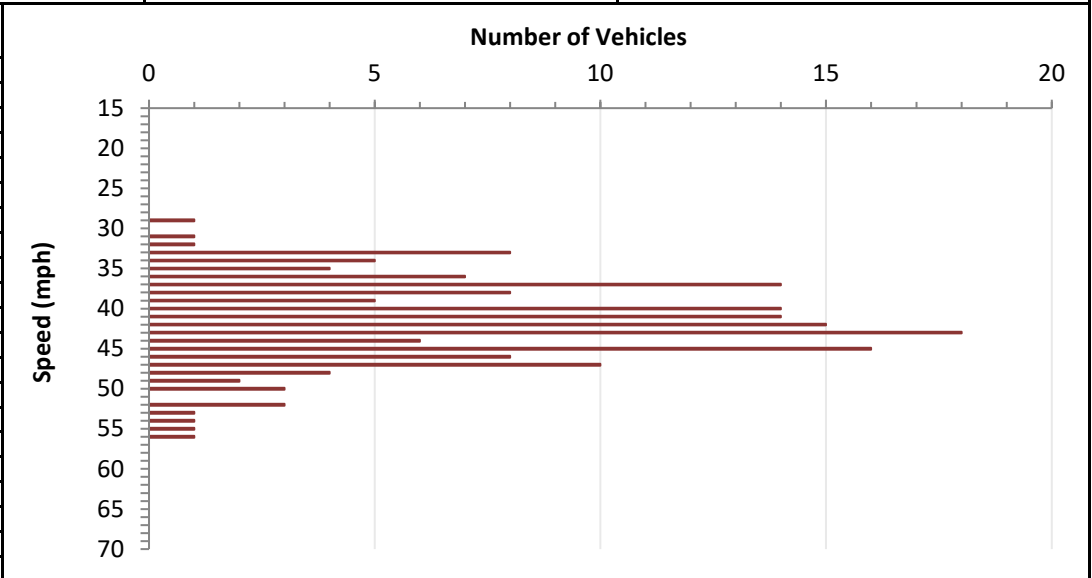
# RADAR SPEED SURVEY

## SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

<b>Road Name:</b>	Calzada Del Bosque	<b>From:</b>	Via Del Alba	<b>To:</b>	Linea Del Cielo
<b>Position:</b>	150' W/O Via Del Alba	<b>Direction:</b>	EB/WB		

<b>Date:</b>	04/04//2022	<b>Weather:</b>	Clear	<b>Project Number:</b>	0
<b>Time Start:</b>	9:50AM	<b>Road Condition:</b>	Dry	<b>Observer:</b>	Samuel Cecere
<b>Time End:</b>	10:50AM	<b>Posted Speed:</b>	45 MPH	<b>Calibration Test:</b>	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29	1	0.6%
30		
31	1	1.2%
32	1	1.8%
33	8	6.4%
34	5	9.4%
35	4	11.7%
36	7	15.8%
37	14	24.0%
38	8	28.7%
39	5	31.6%
40	14	39.8%
41	14	48.0%
42	15	56.7%
43	18	67.3%
44	6	70.8%
45	16	80.1%
46	8	84.8%
47	10	90.6%
48	4	93.0%
49	2	94.2%
50	3	95.9%
51		
52	3	97.7%
53	1	98.2%
54	1	98.8%
55	1	99.4%
56	1	100.0%
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
<b>Total</b>	<b>171</b>	

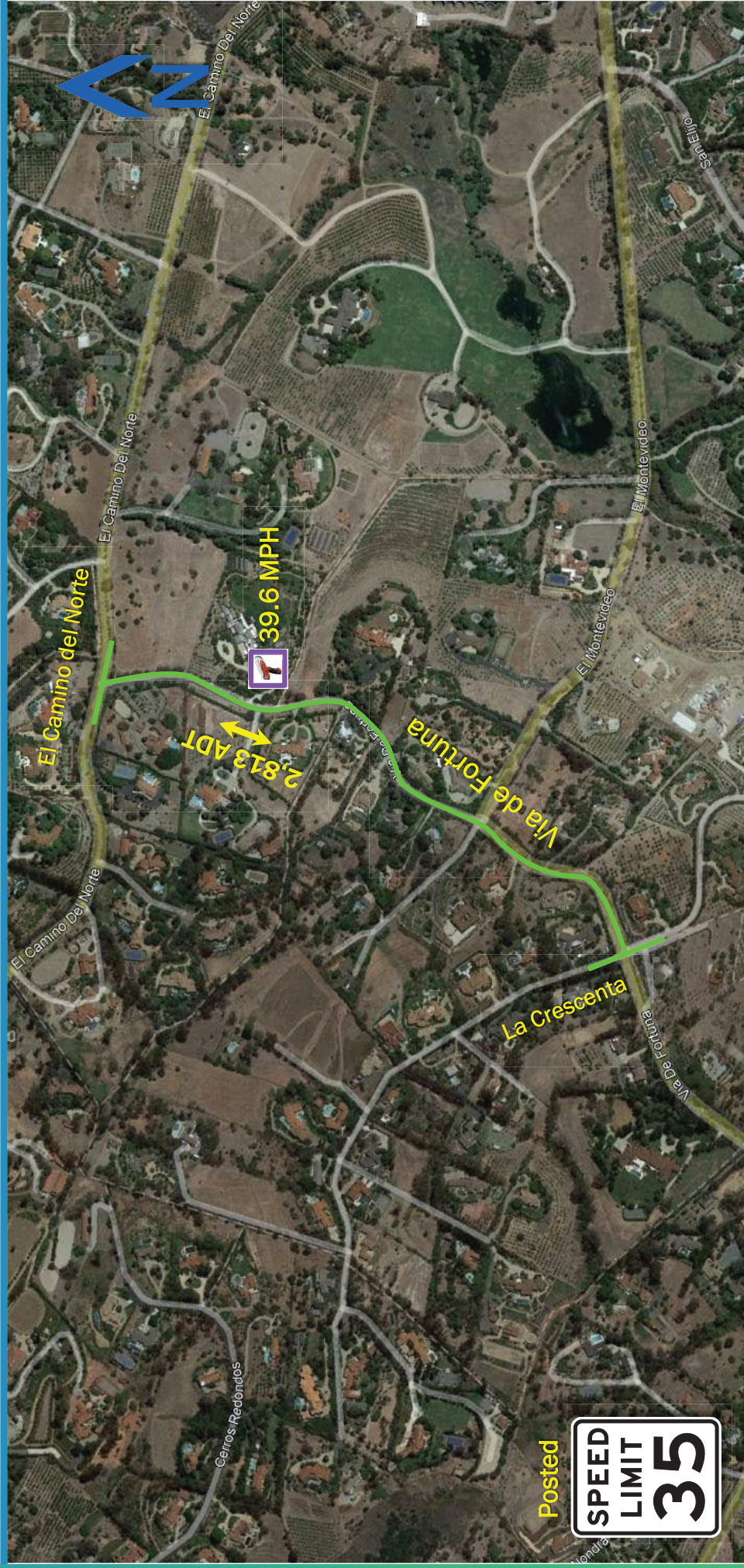


### DATA ANALYSIS

Average Speed	41.6	Range	29 - 56
50th Percentile	41.2	10 mph Pace	37 - 46
85th Percentile	46.0	Number in Pace	118
90th Percentile	46.9	Percent in Pace	69%
95th Percentile	49.5		

# Via de Fortuna

El Camino del Norte to La Crescenta (0.64 miles)



## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022

**Item 3-C**

**SUPERVISORIAL DISTRICT:** 3

**SUBJECT:** Radar Certification

**LOCATION:** Via de Fortuna from El Camino del Norte to La Crescenta (a distance of 0.64 miles) RANCHO SANTA FE (Thos. Bros. 1148-C7)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

### **PROBLEM AS STATED BY REQUESTER:**

Via de Fortuna from El Camino del Norte to La Crescenta is posted 35 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar certification of the existing 35 MPH speed limit.

### **Existing Traffic Devices**

Via de Fortuna is a striped 2-lane undivided highway with a pavement width of 24 feet. The roadway is striped with no passing centerline and white edgeline. The highway is posted with equestrian advisories and 25 MPH speed advisory turns. Via de Fortuna is unclassified as on the County General Plan Mobility Element Network. The highway is a designated through highway. Via de Fortuna is posted 35 MPH/Radar Enforced.

### **Average Daily Traffic Volumes**

Via de Fortuna:

900' S/o El Camino del Norte

**12/21**

2,813

**02/08**

2,580

### **Speed Data**

Via de Fortuna:

900' S/o El Camino del Norte

**85th  
Percentile**

(2022) 39.6 MPH  
(2010) 37.0 MPH

**10 MPH  
Pace**

31-40  
30-39

**% in  
Pace**

86.0%  
71.0%

### **Collision Data**

There have been 3 reported collisions along this segment of roadway in a 3 year period (11-01-18 to 10-31-21). These collisions result in a segment accident rate of 1.52 collisions per million vehicle miles. The statewide average is 1.60 collisions per million vehicle miles for similar suburban 2 lanes or less with speeds less than 45 MPH.



**VOLUME**

Via De Fortuna 900' S/O El Camino Del Norte

Day: Wednesday

Date: 12/8/2021

City: Rancho Santa Fe

Project #: CA21\_040210\_003

DAILY TOTALS					NB	SB					Total
					1,274	1,539					2,813
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	1	0			1	12:00	21	19			40
00:15	0	2			2	12:15	15	28			43
00:30	1	0			1	12:30	26	20			46
00:45	0	2	0	2	0	12:45	16	78	16	83	32
01:00	0	0			0	13:00	17	13			30
01:15	0	0			0	13:15	13	15			28
01:30	0	0			0	13:30	19	24			43
01:45	0	0			0	13:45	19	68	21	73	40
02:00	1	0			1	14:00	18	22			40
02:15	1	0			1	14:15	24	32			56
02:30	0	0			0	14:30	26	14			40
02:45	0	2	0		0	14:45	31	99	26	94	57
03:00	0	0			0	15:00	52	31			83
03:15	0	0			0	15:15	66	31			97
03:30	0	0			0	15:30	62	38			100
03:45	1	1	1	1	2	15:45	61	241	25	125	86
04:00	0	0			0	16:00	44	30			74
04:15	0	0			0	16:15	59	24			83
04:30	1	2			3	16:30	40	26			66
04:45	0	1	1	3	1	16:45	39	182	18	98	57
05:00	0	1			1	17:00	54	26			80
05:15	1	0			1	17:15	38	15			53
05:30	0	0			0	17:30	27	14			41
05:45	3	4	8	9	11	17:45	20	139	21	76	41
06:00	2	8			10	18:00	9	8			17
06:15	5	18			23	18:15	19	8			27
06:30	10	24			34	18:30	10	5			15
06:45	7	24	36	86	43	18:45	6	44	5	26	11
07:00	15	44			59	19:00	11	6			17
07:15	8	84			92	19:15	10	4			14
07:30	9	72			81	19:30	12	6			18
07:45	19	51	75	275	94	19:45	8	41	1	17	9
08:00	17	77			94	20:00	6	6			12
08:15	12	57			69	20:15	4	6			10
08:30	16	54			70	20:30	3	2			5
08:45	20	65	50	238	70	20:45	3	16	1	15	4
09:00	13	38			51	21:00	4	6			10
09:15	27	32			59	21:15	4	1			5
09:30	19	20			39	21:30	3	0			3
09:45	16	75	34	124	50	21:45	1	12	1	8	2
10:00	10	14			24	22:00	1	2			3
10:15	13	21			34	22:15	1	1			2
10:30	11	28			39	22:30	3	1			4
10:45	10	44	27	90	37	22:45	0	5	1	5	1
11:00	16	19			35	23:00	1	1			2
11:15	10	21			31	23:15	4	1			5
11:30	17	22			39	23:30	0	1			1
11:45	31	74	25	87	56	23:45	1	6	1	4	2
TOTALS	343	915			1258	TOTALS	931	624			1555
SPLIT %	27.3%	72.7%			44.7%	SPLIT %	59.9%	40.1%			55.3%

DAILY TOTALS					NB	SB					Total
					1,274	1,539					2,813
AM Peak Hour	11:45	07:15		07:15	PM Peak Hour	15:00	14:45			15:00	
AM Pk Volume	93	308		361	PM Pk Volume	241	126			366	
Pk Hr Factor	0.750	0.917		0.960	Pk Hr Factor	0.913	0.829			0.915	
7 - 9 Volume	116	513	0	0	4 - 6 Volume	321	174	0	0	495	
7 - 9 Peak Hour	08:00	07:15		07:15	4 - 6 Peak Hour	16:15	16:00			16:15	
7 - 9 Pk Volume	65	308	0	0	4 - 6 Pk Volume	192	98	0	0	286	
Pk Hr Factor	0.813	0.917	0.000	0.000	Pk Hr Factor	0.814	0.817	0.000	0.000	0.861	



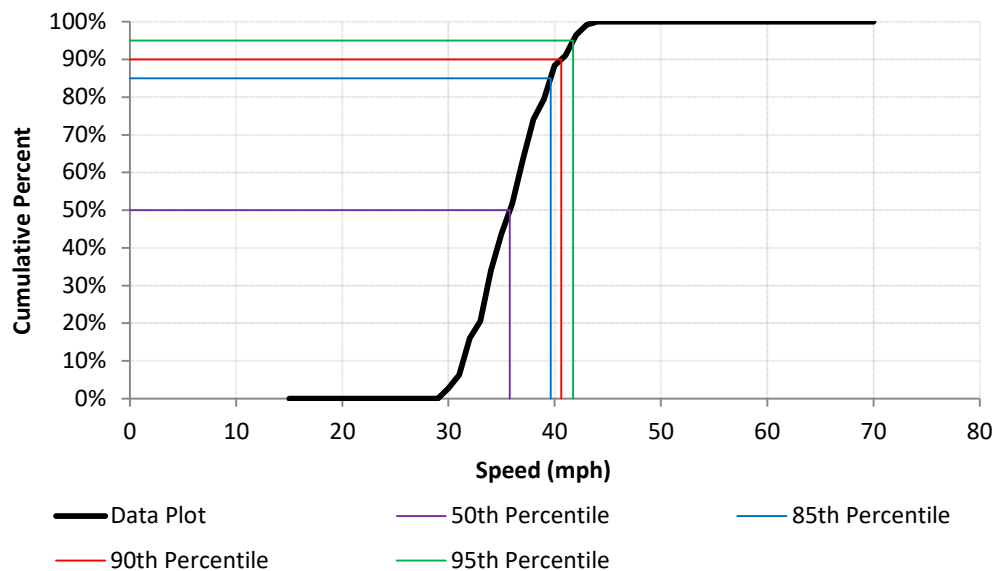
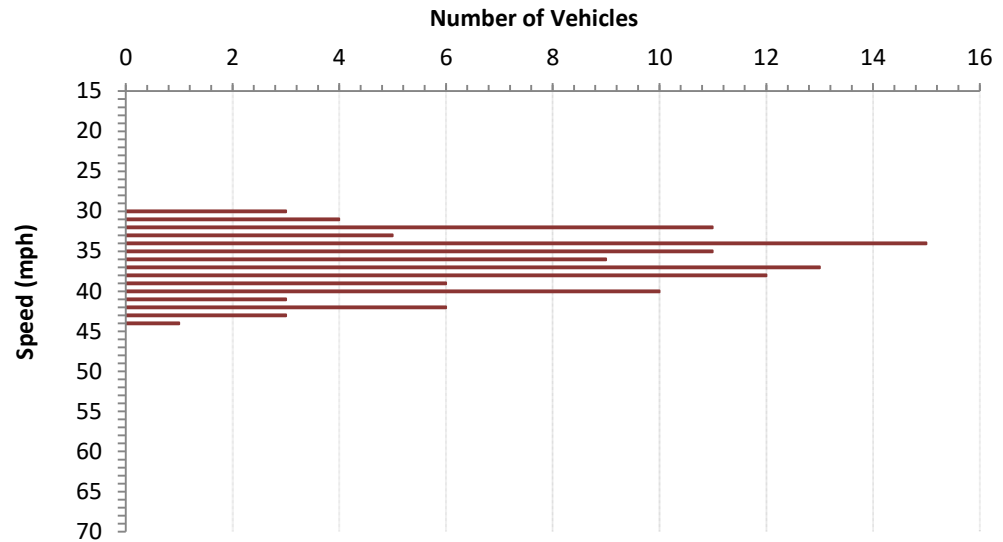
# RADAR SPEED SURVEY

## SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

<b>Road Name:</b>	Via De Fortuna	<b>From:</b>	El Camino Del Norte	<b>To:</b>	El Montevideo
<b>Position:</b>	Via De Fortuna @ 900' S/O El Camino Del Norte			<b>Direction:</b>	NBT/SBT

<b>Date:</b>	12/17/2021	<b>Weather:</b>	sunny	<b>Project Number:</b>	0
<b>Time Start:</b>	11:36am	<b>Road Condition:</b>	dry	<b>Observer:</b>	Samuel Cecere
<b>Time End:</b>	12:31pm	<b>Posted Speed:</b>	35mph	<b>Calibration Test:</b>	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	3	2.7%
31	4	6.3%
32	11	16.1%
33	5	20.5%
34	15	33.9%
35	11	43.8%
36	9	51.8%
37	13	63.4%
38	12	74.1%
39	6	79.5%
40	10	88.4%
41	3	91.1%
42	6	96.4%
43	3	99.1%
44	1	100.0%
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	112	



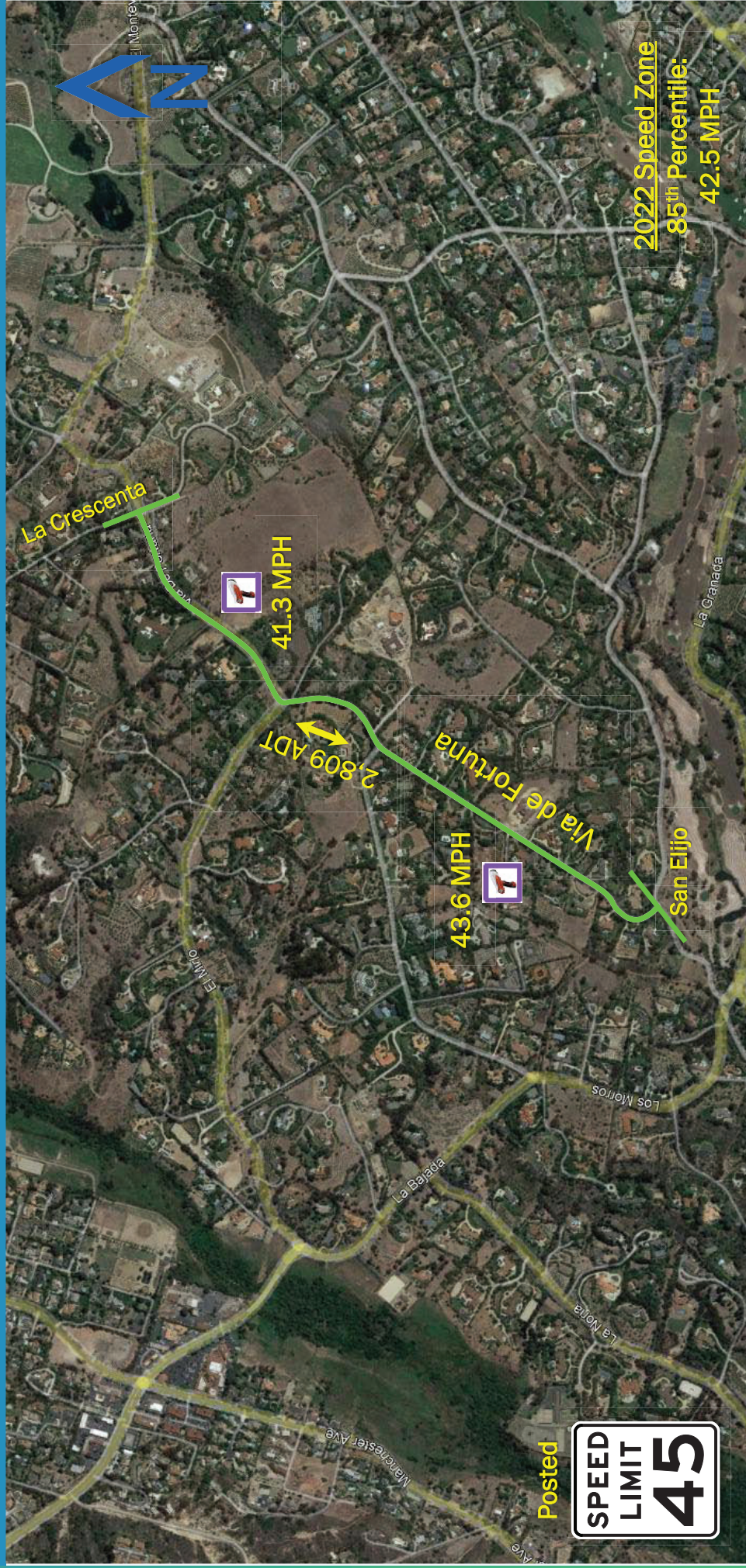
### DATA ANALYSIS

Average Speed	36.3	Range	30 - 44
50th Percentile	35.8	10 mph Pace	31 - 40
85th Percentile	39.6	Number in Pace	96
90th Percentile	40.6	Percent in Pace	86%
95th Percentile	41.7		



# Via de Fortuna

La Crescenta to San Elijo (1.17 miles)





## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022

**Item 3-D**

**SUPERVISORIAL DISTRICT:** 3

**SUBJECT:** Radar Certification

**LOCATION:** Via de Fortuna from La Crescenta to San Elijo (a distance of 1.17 miles) RANCHO SANTA FE (Thos. Bros. 1168-C1)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

**PROBLEM AS STATED BY REQUESTER:**

Via de Fortuna from La Crescenta to San Elijo is posted 45 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar certification of the existing 40 MPH speed limit.

**Existing Traffic Devices**

Via de Fortuna is a striped 2-lane undivided highway with a pavement width of 24 feet. The roadway is striped with no passing centerline and white edgeline. The highway is posted with equestrian advisories, intersection advisories, and speed advisory turns and curves. Via de Fortuna is unclassified as on the County General Plan Mobility Element Network. The highway is a designated through highway. Via de Fortuna is posted 45 MPH/Radar Enforced.

<b><u>Average Daily Traffic Volumes</u></b>	<b><u>12/21</u></b>	<b><u>07/14</u></b>	<b><u>03/01</u></b>
Via de Fortuna:			
1,000' N/o El Mirlo	4,515	3,540	
1,500' N/o San Elijo Avenue	1,103		1,210

<b><u>Speed Data</u></b>		<b><u>85th Percentile</u></b>	<b><u>10 MPH Pace</u></b>	<b><u>% in Pace</u></b>
Via de Fortuna:				
1,000' N/o El Mirlo	(2022)	41.3 MPH	32-41	75.0%
	(2014)	42.0 MPH	33-42	74.0%
1,500' N/o San Elijo Avenue	(2022)	43.6 MPH	33-42	65.0%
	(2014)	46.0 MPH	35-44	62.0%
Speed Zone	(2022)	42.5 MPH	33-42	70.0%
	(2014)	44.0 MPH	34-43	68.0%

**Collision Data**

There have been 2 reported collisions, 1 of which involved injury, along this segment of roadway in a 3 year period (11-01-18 to 10-31-21). These collisions result in a segment accident rate of 0.56 collisions per million vehicle miles. The statewide average is 1.60 collisions per million vehicle miles for similar suburban 2 lanes or less with speeds less than 45 MPH.

**VOLUME**

Via De Fortuna 1000' N/O El Mirlo

Day: Wednesday

Date: 12/8/2021

City: Rancho Santa Fe

Project #: CA21\_040210\_002

DAILY TOTALS					NB	SB						EB	WB	Total	
					2,251	2,264						0	0	4,515	
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00	2	0			2		12:00	26	24			50			
00:15	2	2			4		12:15	22	26			48			
00:30	2	0			2		12:30	29	38			67			
00:45	0	6	1	3	1	9	12:45	33	110	32	120	65	230		
01:00	0	1			1		13:00	37	32			69			
01:15	2	1			3		13:15	40	36			76			
01:30	0	1			1		13:30	26	29			55			
01:45	0	2	0	3	0	5	13:45	48	151	34	131	82	282		
02:00	1	1			2		14:00	31	24			55			
02:15	0	1			1		14:15	43	44			87			
02:30	0	0			0		14:30	49	37			86			
02:45	1	2	0	2	1	4	14:45	51	174	36	141	87	315		
03:00	0	1			1		15:00	73	29			102			
03:15	0	0			0		15:15	82	49			131			
03:30	1	0			1		15:30	74	54			128			
03:45	1	2	1	2	2	4	15:45	74	303	53	185	127	488		
04:00	1	0			1		16:00	74	42			116			
04:15	0	1			1		16:15	70	43			113			
04:30	3	1			4		16:30	63	37			100			
04:45	1	5	2	4	3	9	16:45	60	267	37	159	97	426		
05:00	2	2			4		17:00	57	38			95			
05:15	5	6			11		17:15	61	44			105			
05:30	2	15			17		17:30	60	27			87			
05:45	7	16	17	40	24	56	17:45	47	225	27	136	74	361		
06:00	8	22			30		18:00	21	32			53			
06:15	16	35			51		18:15	25	26			51			
06:30	27	39			66		18:30	31	14			45			
06:45	42	93	59	155	101	248	18:45	15	92	18	90	33	182		
07:00	38	40			78		19:00	18	12			30			
07:15	34	57			91		19:15	20	12			32			
07:30	40	65			105		19:30	11	12			23			
07:45	37	149	67	229	104	378	19:45	20	69	5	41	25	110		
08:00	37	71			108		20:00	15	6			21			
08:15	38	68			106		20:15	9	6			15			
08:30	36	57			93		20:30	10	4			14			
08:45	22	133	65	261	87	394	20:45	12	46	7	23	19	69		
09:00	31	45			76		21:00	10	7			17			
09:15	35	40			75		21:15	7	6			13			
09:30	32	41			73		21:30	10	3			13			
09:45	27	125	49	175	76	300	21:45	4	31	6	22	10	53		
10:00	34	37			71		22:00	5	2			7			
10:15	26	51			77		22:15	4	4			8			
10:30	25	41			66		22:30	3	3			6			
10:45	30	115	46	175	76	290	22:45	2	14	2	11	4	25		
11:00	29	47			76		23:00	7	1			8			
11:15	25	34			59		23:15	11	1			12			
11:30	19	38			57		23:30	3	1			4			
11:45	25	98	31	150	56	248	23:45	2	23	3	6	5	29		
TOTALS	746	1199			1945		TOTALS	1505	1065			2570			
SPLIT %	38.4%	61.6%			43.1%		SPLIT %	58.6%	41.4%			56.9%			

DAILY TOTALS					NB	SB						EB	WB	Total	
					2,251	2,264						0	0	4,515	
AM Peak Hour	06:45	07:30			07:30		PM Peak Hour	15:15	15:15			15:15			
AM Pk Volume	154	271			423		PM Pk Volume	304	198			502			
Pk Hr Factor	0.917	0.954			0.979		Pk Hr Factor	0.927	0.917			0.958			
7 - 9 Volume	282	490	0	0	772		4 - 6 Volume	492	295	0	0	787			
7 - 9 Peak Hour	07:30	07:30			07:30		4 - 6 Peak Hour	16:00	16:00			16:00			
7 - 9 Pk Volume	152	271	0	0	423		4 - 6 Pk Volume	267	159	0	0	426			
Pk Hr Factor	0.950	0.954	0.000	0.000	0.979		Pk Hr Factor	0.902	0.924	0.000	0.000	0.918			

**VOLUME**

Via De Fortuna 1500' N/O San Elijo Ave

Day: Wednesday

Date: 12/8/2021

City: Rancho Santa Fe

Project #: CA21\_040210\_001

DAILY TOTALS					NB	SB					Total
					573	530					1,103
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	0	0			0	12:00	11	8			19
00:15	0	0			0	12:15	8	7			15
00:30	0	0			0	12:30	4	7			11
00:45	0	0			0	12:45	7	30	8	30	15 60
01:00	0	0			0	13:00	9	9			18
01:15	0	0			0	13:15	15	12			27
01:30	0	0			0	13:30	7	10			17
01:45	0	0			0	13:45	8	39	9	40	17 79
02:00	0	0			0	14:00	10	8			18
02:15	0	1			1	14:15	16	11			27
02:30	0	0			0	14:30	21	16			37
02:45	0	0	1		0 1	14:45	16	63	16	51	32 114
03:00	0	0			0	15:00	21	13			34
03:15	0	0			0	15:15	15	14			29
03:30	0	0			0	15:30	24	18			42
03:45	0	0			0	15:45	24	84	10	55	34 139
04:00	0	0			0	16:00	13	11			24
04:15	0	0			0	16:15	15	11			26
04:30	0	0			0	16:30	12	7			19
04:45	0	0			0	16:45	20	60	5	34	25 94
05:00	0	0			0	17:00	21	2			23
05:15	1	0			1	17:15	14	7			21
05:30	0	1			1	17:30	10	6			16
05:45	3	4	2	3	5 7	17:45	8	53	10	25	18 78
06:00	1	0			1	18:00	3	4			7
06:15	6	3			9	18:15	3	5			8
06:30	6	3			9	18:30	1	3			4
06:45	7	20	6	12	13 32	18:45	7	14	2	14	9 28
07:00	10	9			19	19:00	4	2			6
07:15	9	9			18	19:15	1	0			1
07:30	10	21			31	19:30	0	0			0
07:45	19	48	31	70	50 118	19:45	2	7	2	4	4 11
08:00	11	15			26	20:00	5	1			6
08:15	8	16			24	20:15	4	1			5
08:30	4	11			15	20:30	1	0			1
08:45	4	27	13	55	17 82	20:45	2	12	1	3	3 15
09:00	10	8			18	21:00	2	2			4
09:15	13	5			18	21:15	0	0			0
09:30	6	10			16	21:30	2	1			3
09:45	13	42	13	36	26 78	21:45	1	5	0	3	1 8
10:00	5	19			24	22:00	0	1			1
10:15	6	6			12	22:15	1	0			1
10:30	8	7			15	22:30	1	0			1
10:45	6	25	15	47	21 72	22:45	0	2	1	2	1 4
11:00	7	15			22	23:00	3	1			4
11:15	3	9			12	23:15	1	0			1
11:30	13	6			19	23:30	0	0			0
11:45	10	33	14	44	24 77	23:45	1	5	0	1	1 6
TOTALS	199	268			467	TOTALS	374	262			636
SPLIT %	42.6%	57.4%			42.3%	SPLIT %	58.8%	41.2%			57.7%

DAILY TOTALS					NB	SB					Total
					573	530					1,103
AM Peak Hour	07:15	07:30		07:30	PM Peak Hour	15:00	14:45			15:00	
AM Pk Volume	49	83		131	PM Pk Volume	84	61			139	
Pk Hr Factor	0.645	0.669		0.655	Pk Hr Factor	0.875	0.847			0.827	
7 - 9 Volume	75	125	0	0	200	4 - 6 Volume	113	59	0	0	172
7 - 9 Peak Hour	07:15	07:30		07:30	4 - 6 Peak Hour	16:15	16:00			16:00	
7 - 9 Pk Volume	49	83	0	0	131	4 - 6 Pk Volume	68	34	0	0	94
Pk Hr Factor	0.645	0.669	0.000	0.000	0.655	Pk Hr Factor	0.810	0.773	0.000	0.000	0.904



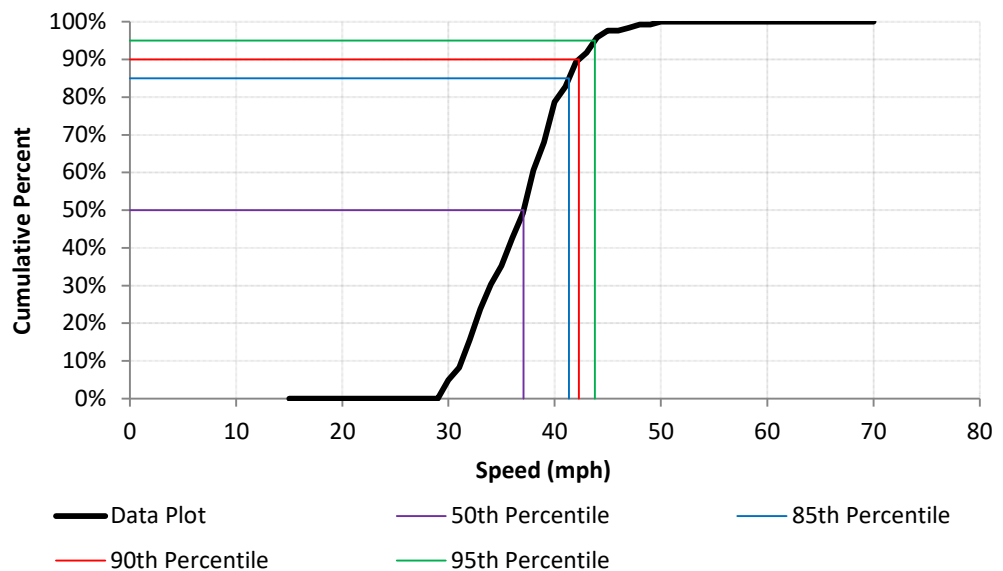
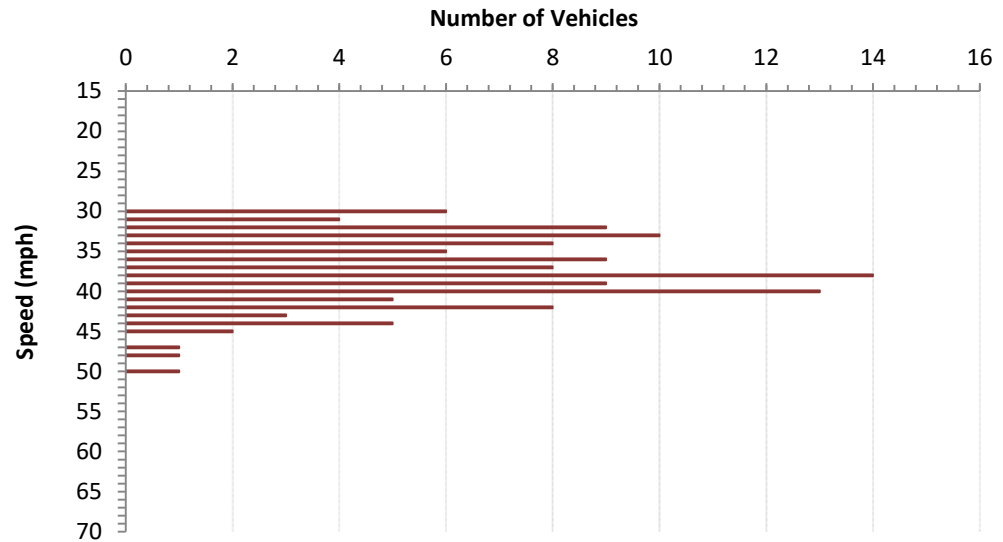
# RADAR SPEED SURVEY

## SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

<b>Road Name:</b>	Via De Fortuna	<b>From:</b>	El Mirlo	<b>To:</b>	La Crescenta Rd
<b>Position:</b>	1,000' N/o El Mirlo	<b>Direction:</b>	EBT/WBT		

<b>Date:</b>	12/17/2021	<b>Weather:</b>	Clear	<b>Project Number:</b>	0
<b>Time Start:</b>	10:30AM	<b>Road Condition:</b>	Dry	<b>Observer:</b>	Samuel Cecere
<b>Time End:</b>	11:20AM	<b>Posted Speed:</b>	45 MPH	<b>Calibration Test:</b>	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	6	4.9%
31	4	8.2%
32	9	15.6%
33	10	23.8%
34	8	30.3%
35	6	35.2%
36	9	42.6%
37	8	49.2%
38	14	60.7%
39	9	68.0%
40	13	78.7%
41	5	82.8%
42	8	89.3%
43	3	91.8%
44	5	95.9%
45	2	97.5%
46		
47	1	98.4%
48	1	99.2%
49		
50	1	100.0%
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	122	



### DATA ANALYSIS

Average Speed	37.3	Range	30 - 50
50th Percentile	37.1	10 mph Pace	32 - 41
85th Percentile	41.3	Number in Pace	91
90th Percentile	42.3	Percent in Pace	75%
95th Percentile	43.8		



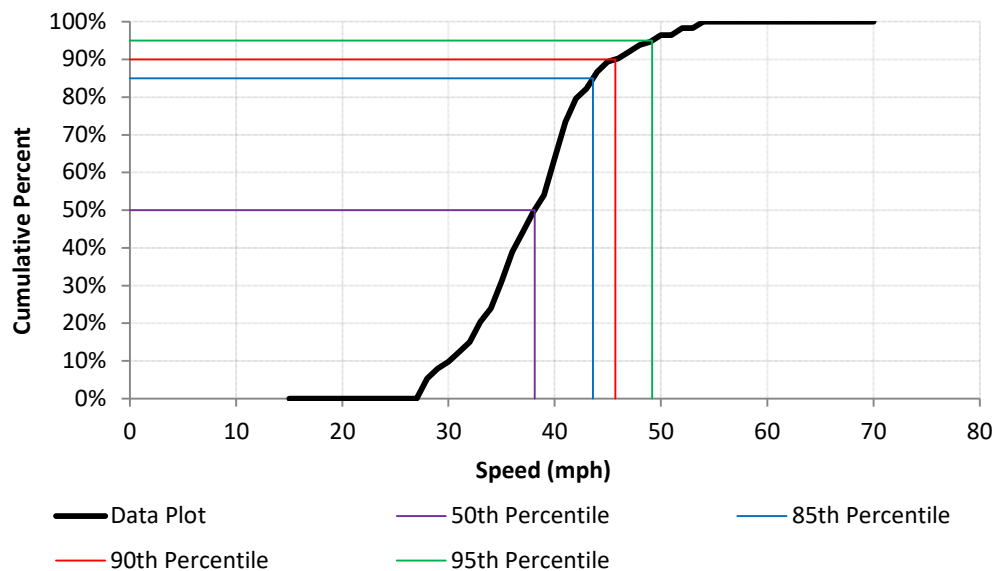
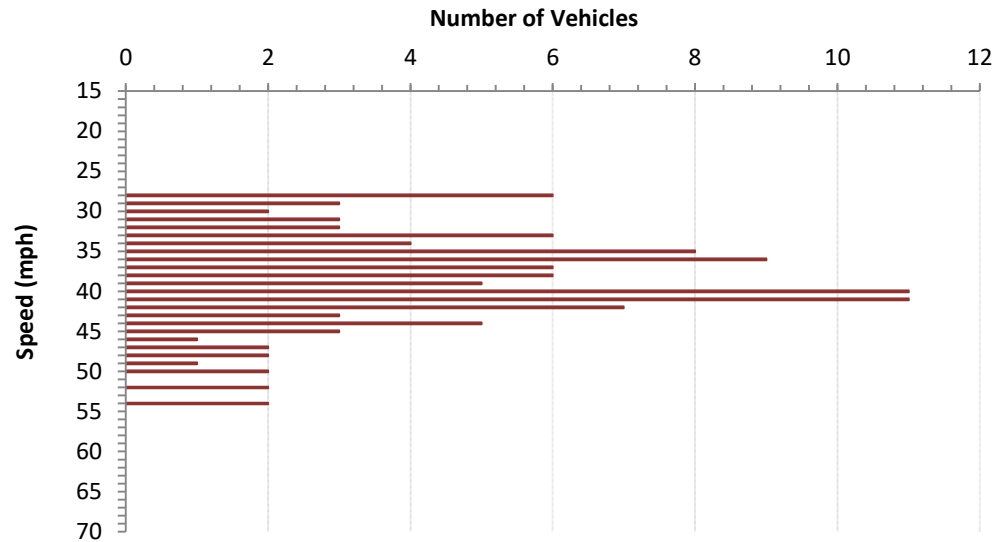
# RADAR SPEED SURVEY

## SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

<b>Road Name:</b>	Via de Fortuna	<b>From:</b>	San Elijo Ave	<b>To:</b>	Los Morros
<b>Position:</b>	Via de Fortuna @ 1500' N/O San Elijo Ave			<b>Direction:</b>	NBT/SBT

<b>Date:</b>	1/10/2022	<b>Weather:</b>	Partly Cloudy	<b>Project Number:</b>	0
<b>Time Start:</b>	12:44PM	<b>Road Condition:</b>	Dry	<b>Observer:</b>	Samuel Cecere
<b>Time End:</b>	2:45PM	<b>Posted Speed:</b>	45mph	<b>Calibration Test:</b>	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28	6	5.3%
29	3	8.0%
30	2	9.7%
31	3	12.4%
32	3	15.0%
33	6	20.4%
34	4	23.9%
35	8	31.0%
36	9	38.9%
37	6	44.2%
38	6	49.6%
39	5	54.0%
40	11	63.7%
41	11	73.5%
42	7	79.6%
43	3	82.3%
44	5	86.7%
45	3	89.4%
46	1	90.3%
47	2	92.0%
48	2	93.8%
49	1	94.7%
50	2	96.5%
51		
52	2	98.2%
53		
54	2	100.0%
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	113	



### DATA ANALYSIS

Average Speed	38.5	Range	28 - 54
50th Percentile	38.1	10 mph Pace	33 - 42
85th Percentile	43.6	Number in Pace	73
90th Percentile	45.7	Percent in Pace	65%
95th Percentile	49.2		



## Lamar Street & Helix Street (east intersection)



## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022 **Item 4-A**

**SUPERVISORIAL DISTRICT:** 4

**SUBJECT:** Intersection Control

**LOCATION:** Lamar Street & Helix Street (east intersection), SPRING VALLEY (Thos. Bros. 1271-B6)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** All-Way Stop Control

### **PROBLEM AS STATED BY REQUESTER:**

The east intersection of Lamar Street & Helix Street has been identified by Traffic Engineering as meeting Option C, an intersection where motorists are unable to see conflicting traffic to determine when it is safe to enter the intersection, and Option D, an intersection of two residential collectors of similar design and an all-way stop would enhance the traffic operations of said intersection, of the Multi-Way Stop Application optional criteria as described in the California Manual on Uniform Traffic Control Devices (CA MUTCD), Section 2B.07, therefore an all-way stop control should be considered.

### **Existing Traffic Devices**

Lamar Street is a striped two-lane road with a 24 to 30-foot pavement width. The roadway is striped with a no passing centerline and has white edgeline on the north side of the roadway adjacent to the intersection with Helix Street. Lamar Street is a designated through highway. It is unclassified on the County General Plan Mobility Element Network. The roadway is a posted 25 MPH residence district.

Helix Street is a striped two-lane road with a 28-foot pavement width. The roadway is striped with a no passing centerline and white edgeline. The road is stop controlled in the southbound direction at Lamar Street. Helix Street is a designated through highway. It is unclassified on the County General Plan Mobility Element Network. The roadway is a posted 25 MPH residence district.

<b><u>Average Daily Traffic Volumes</u></b>	<b><u>09/21</u></b>
Lamar Street:	
W/o Helix Street	1,153 EB
E/o Helix Street	694 WB
Helix Street:	
N/o Lamar Street	1,032 SB

### **Collision Data**

There have been 2 reported collisions, none of which involved an injury, at this

Lamar Street  
& Helix Street

2

Item 4-A

intersection, within a past 5-year period (11-01-2016 to 10-31-2021).



# County of San Diego

JEFF MONEDA  
DIRECTOR

DEPARTMENT OF PUBLIC WORKS  
5510 OVERLAND AVENUE, SUITE 410  
SAN DIEGO, CA 92123-1237  
(858) 694-2212  
[www.sdcountry.ca.gov/dpw/](http://www.sdcountry.ca.gov/dpw/)

## COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date: April 4, 2022

Item Title: All-Way Stop Controls

Location: Helix Street (east) and Lamar Street Intersection

Recommendation: **Install All-Way Stop Controls**

Conditions:

- Section 21354 "Stop Signs on Local Highways" of the California Vehicle Code (CVC) authorizes local agencies to designate any intersection under its exclusive jurisdiction as a stop intersection.
- Section 2B.07 "Multi-Way Stop Applications" of the California MUTCD, provides four optional criteria that may be considered in an engineering study when evaluating an intersection for an all-way stop control.
- Section 2B.07 - Option C, lack of sight distance, indicates all-way stop controls can be considered when motorists are unable to see conflicting traffic to determine when it is safe to enter the intersection.
- Existing corner sight distance for Helix Street southbound approach is 325 feet looking west as measured in the field, whereas the required corner sight distance per County Public Road Standards is 350 feet or greater.
- Section 2B.07 - Option D, Intersection of two Residential Collectors, indicates all-way stop controls may be considered at an intersection of two residential collectors of similar design and the all-way stop control would enhance the traffic



operations of said intersection. Both Helix Street and Lamar Street are considered Residential Collectors with similar traffic operation.

- Pursuant to CVC section 21354 coupled with traffic conditions noted above, it is my recommendation that an All-Way Stop Control is appropriate and safe for the intersection of Helix Street and Lamar Street.



*Zoubir A. Ouadah*

\_\_\_\_\_  
Zoubir A. Ouadah, PE. TE.  
County Traffic Engineer

*04/06/2022*

\_\_\_\_\_  
Date



**VOLUME**

Helix St &amp; Lamar St

Day: Thursday  
Date: 9/16/2021City: Spring Valley  
Project #: CA21\_040159\_004

DAILY TOTALS					NB	SB	EB					WB	Total				
					0	1,032	1,153					694	2,879				
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL					
00:00		6	1	0	7		12:00		10	12	5	27					
00:15		4	1	0	5		12:15		15	17	9	41					
00:30		0	1	0	1		12:30		17	11	8	36					
00:45		0	10	1	4	2	2	12:45		10	52	18	58	10	32	38	142
01:00		0	1	1	2		13:00		17	18	8	43					
01:15		1	2	0	3		13:15		15	18	9	42					
01:30		1	1	0	2		13:30		15	13	6	34					
01:45		0	2	0	4	0	1	13:45		19	66	26	75	12	35	57	176
02:00		4	0	0	4		14:00		20	24	5	49					
02:15		0	0	1	1		14:15		20	13	12	45					
02:30		1	3	0	4		14:30		23	18	29	70					
02:45		1	6	0	3	2	3	14:45		24	87	25	80	9	55	58	222
03:00		0	1	0	1		15:00		15	22	22	59					
03:15		1	1	0	2		15:15		26	24	6	56					
03:30		0	1	0	1		15:30		19	36	13	68					
03:45		0	1	3	6	2	2	15:45		29	89	32	114	11	52	72	255
04:00		1	1	0	2		16:00		17	25	12	54					
04:15		0	0	0	0		16:15		24	21	8	53					
04:30		0	2	1	3		16:30		24	19	15	58					
04:45		0	1	2	5	3	4	16:45		15	80	19	84	10	45	44	209
05:00		2	0	4	6		17:00		29	23	13	65					
05:15		2	3	2	7		17:15		28	28	8	64					
05:30		0	7	7	14		17:30		29	25	21	75					
05:45		4	8	4	14	3	16	17:45		29	115	12	88	15	57	56	260
06:00		3	7	6	16		18:00		17	23	13	53					
06:15		2	13	6	21		18:15		22	21	12	55					
06:30		3	14	11	28		18:30		14	10	10	34					
06:45		8	16	21	55	13	36	18:45		19	72	17	71	7	42	43	185
07:00		6	25	17	48		19:00		15	15	8	38					
07:15		14	19	11	44		19:15		19	9	9	37					
07:30		11	51	25	87		19:30		23	9	5	37					
07:45		8	39	36	77	256	19:45		10	67	9	25	137				
08:00		17	30	21	68		20:00		11	8	6	25					
08:15		15	23	21	59		20:15		7	12	4	23					
08:30		9	18	13	40		20:30		18	11	7	36					
08:45		15	56	23	94	9	64	20:45		12	48	5	20	104			
09:00		17	13	8	38		21:00		12	3	3	18					
09:15		13	12	10	35		21:15		13	6	4	23					
09:30		4	12	10	26		21:30		8	6	2	16					
09:45		13	47	7	44	5	33	21:45		6	39	3	9	66			
10:00		7	12	8	27		22:00		8	3	1	12					
10:15		12	8	4	24		22:15		7	2	4	13					
10:30		13	13	3	29		22:30		1	5	3	9					
10:45		10	42	16	37	117	22:45		5	21	4	9	43				
11:00		13	15	5	33		23:00		8	0	3	11					
11:15		9	14	8	31		23:15		7	4	0	11					
11:30		14	13	11	38		23:30		5	2	2	9					
11:45		9	45	13	30	132	23:45		3	23	3	7	38				
TOTALS		273	464	305	1042		TOTALS		759	689	389	1837					
SPLIT %		26.2%	44.5%	29.3%	36.2%		SPLIT %		41.3%	37.5%	21.2%	63.8%					

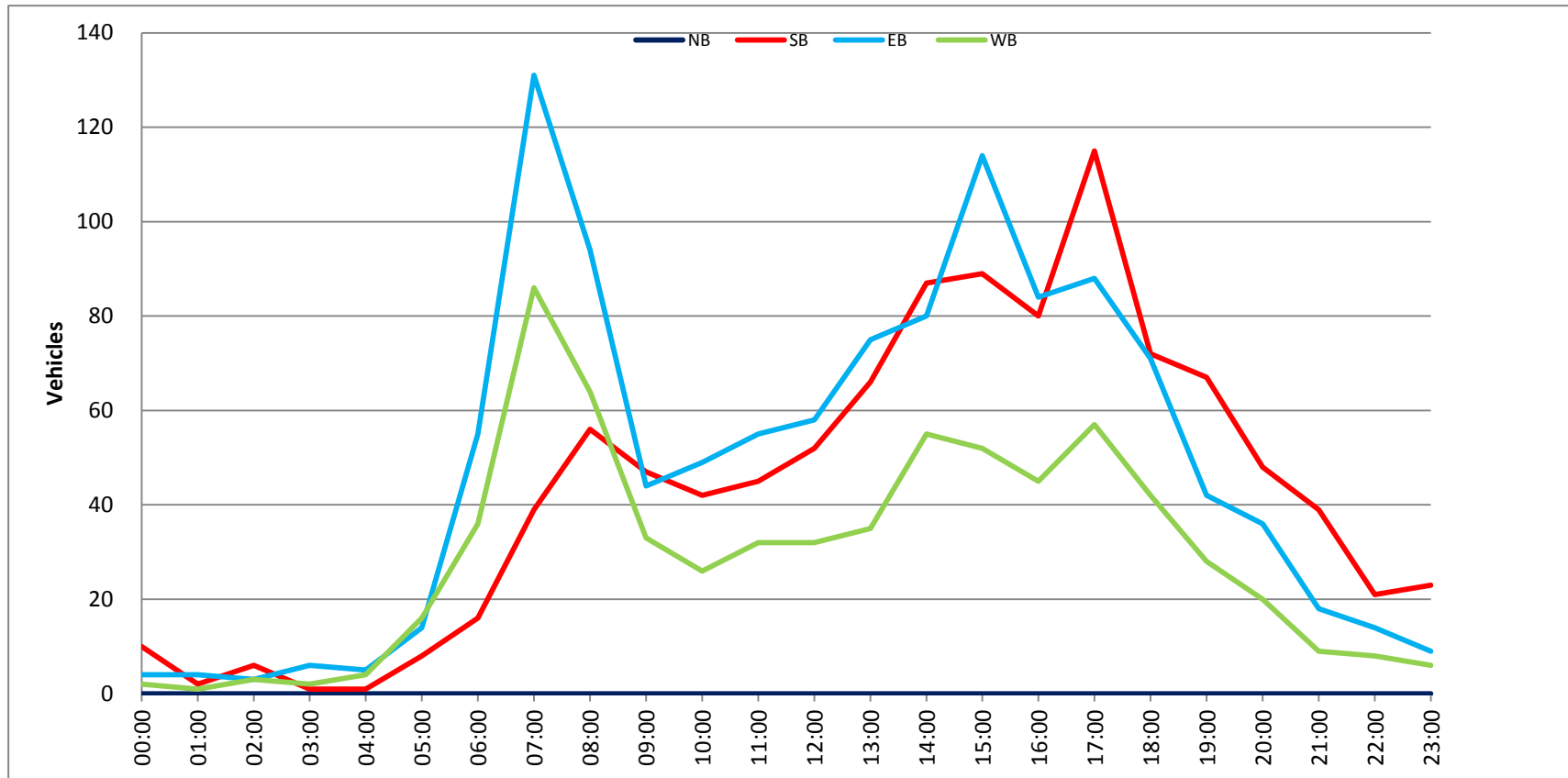
DAILY TOTALS					NB	SB						EB	WB						Total
					0	1,032						1,153	694						2,879
AM Peak Hour		08:00	07:30	07:30	07:30		PM Peak Hour		17:00	15:15	14:15	17:00							
AM Pk Volume		56	140	100	291		PM Pk Volume		115	117	72	260							
Pk Hr Factor		0.824	0.686	0.758	0.836		Pk Hr Factor		0.991	0.813	0.621	0.867							
7 - 9 Volume	0	95	225	150	470		4 - 6 Volume	0	195	172	102	469							
7 - 9 Peak Hour		08:00	07:30	07:30	07:30		4 - 6 Peak Hour		17:00	16:45	17:00	17:00							
7 - 9 Pk Volume	0	56	140	100	291		4 - 6 Pk Volume	0	115	95	57	260							
Pk Hr Factor	0.000	0.824	0.686	0.758	0.836		Pk Hr Factor	0.000	0.991	0.848	0.679	0.867							

Project #: CA21\_040159\_004

City: Spring Valley

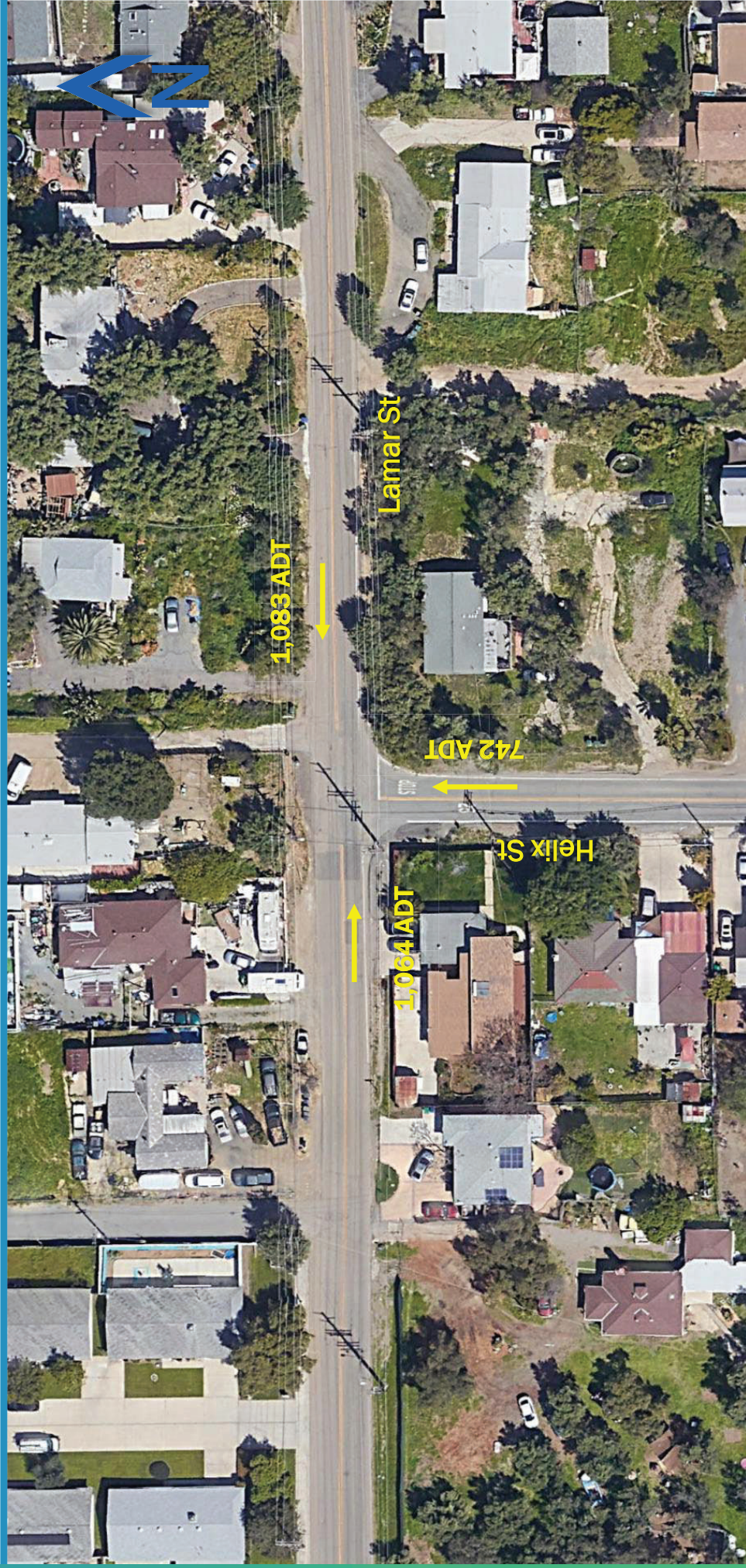
Location: Helix St & Lamar St

Date: 9/16/2021





## Lamar Street & Helix Street (west intersection)



## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022 **Item 4-B**

**SUPERVISORIAL DISTRICT:** 4

**SUBJECT:** Intersection Control

**LOCATION:** Lamar Street & Helix Street (west intersection), SPRING VALLEY (Thos. Bros. 1271-B6)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** All-Way Stop Control

### **PROBLEM AS STATED BY REQUESTER:**

The west intersection of Lamar Street & Helix Street has been identified by Traffic Engineering as meeting Option C, an intersection where motorists are unable to see conflicting traffic to determine when it is safe to enter the intersection, and Option D, an intersection of two residential collectors of similar design and an all-way stop would enhance the traffic operations of said intersection, of the Multi-Way Stop Application optional criteria as described in the California Manual on Uniform Traffic Control Devices (CA MUTCD), Section 2B.07, therefore an all-way stop control should be considered.

### **Existing Traffic Devices**

Lamar Street is a striped two-lane road with a 24-foot pavement width. The roadway is striped with a no passing centerline and has white edgeline on the south side of the roadway adjacent to the intersection with Helix Street. Lamar Street is a designated through highway. It is unclassified on the County General Plan Mobility Element Network. The roadway is a posted 25 MPH residence district.

Helix Street is a striped two-lane road with a 28-foot pavement width. The roadway is striped with a no passing centerline and white edgeline. The road is stop controlled in the northbound direction at Lamar Street. Helix Street is a designated through highway. It is unclassified on the County General Plan Mobility Element Network. The roadway is a posted 25 MPH residence district.

### **Average Daily Traffic Volumes**

**09/21**

Lamar Street:

W/o Helix Street	1,064 EB
E/o Helix Street	1,083 WB

Helix Street:

N/o Lamar Street	742 NB
------------------	--------

### **Collision Data**

There have been 3 reported collisions, 2 of which involved an injury, at this intersection,

Lamar Street  
& Helix Street

2

Item 4-B

within a past 5-year period (11-01-2016 to 10-31-2021).





# County of San Diego

JEFF MONEDA  
DIRECTOR

DEPARTMENT OF PUBLIC WORKS  
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SAN DIEGO, CA 92123-1237  
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## COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date: April 4, 2022

Item Title: All-Way Stop Controls

Location: Helix Street (west) and Lamar Street Intersection

Recommendation: **Install All-Way Stop Controls**

Conditions:

- Section 21354 "Stop Signs on Local Highways" of the California Vehicle Code (CVC) authorizes local agencies to designate any intersection under its exclusive jurisdiction as a stop intersection.
- Section 2B.07 "Multi-Way Stop Applications" of the California MUTCD, provides four optional criteria that may be considered in an engineering study when evaluating an intersection for an all-way stop control.
- Section 2B.07 - Option C, lack of sight distance, indicates all-way stop controls can be considered when motorists are unable to see conflicting traffic to determine when it is safe to enter the intersection.
- Existing corner sight distance for Helix Street northbound approach is 330 feet looking east as measured in the field, whereas the required corner sight distance per County Public Road Standards is 350 feet or greater.
- Section 2B.07 - Option D, Intersection of two Residential Collectors, indicates all-way stop controls may be considered at an intersection of two residential collectors of similar design and the all-way stop control would enhance the traffic

operations of said intersection. Both Helix Street and Lamar Street are considered Residential Collectors with similar traffic operation.

- Pursuant to CVC section 21354 coupled with traffic conditions noted above, it is my recommendation that an All-Way Stop Control is appropriate and safe for the intersection of Helix Street and Lamar Street.

*Zoubir A. Ouadah*

\_\_\_\_\_  
Zoubir A. Ouadah, PE. TE.  
County Traffic Engineer

*04/06/2022*

\_\_\_\_\_  
Date



**VOLUME**

Helix St &amp; Lamar St

Day: Thursday  
Date: 9/16/2021City: Spring Valley  
Project #: CA21\_040159\_001

DAILY TOTALS					NB	SB	EB					WB	Total				
					742	0	1,064					1,083	2,889				
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL					
00:00	1		0	6	7		12:00	11		11	10	32					
00:15	0		1	2	3		12:15	7		11	18	36					
00:30	0		2	0	2		12:30	11		18	15	44					
00:45	1	2	0	3	1	9	12:45	9	38	21	61	14	57	44	156		
01:00	2		0	1	3		13:00	10		19	17	46					
01:15	0		2	1	3		13:15	11		16	12	39					
01:30	0		1	1	2		13:30	10		19	11	40					
01:45	1	3	0	3	0	3	13:45	14	45	20	74	25	65	59	184		
02:00	0		2	2	4		14:00	14		24	17	55					
02:15	0		0	1	1		14:15	9		10	22	41					
02:30	1		2	0	3		14:30	8		22	36	66					
02:45	0	1	0	4	2	5	14:45	13	44	21	77	24	99	58	220		
03:00	1		0	0	1		15:00	14		24	21	59					
03:15	2		1	1	4		15:15	11		34	28	73					
03:30	3		0	0	3		15:30	23		30	16	69					
03:45	1	7	1	2	2	3	15:45	14	62	35	123	29	94	78	279		
04:00	1		0	1	2		16:00	14		20	15	49					
04:15	0		0	0	0		16:15	8		25	19	52					
04:30	7		0	0	7		16:30	11		17	29	57					
04:45	4	12	3	3	0	1	16:45	15	48	20	82	17	80	52	210		
05:00	2		0	0	2		17:00	13		24	30	67					
05:15	10		0	1	11		17:15	6		28	22	56					
05:30	8		3	2	13		17:30	16		22	32	70					
05:45	8	28	2	5	5	8	17:45	10	45	18	92	27	111	55	248		
06:00	9		6	3	18		18:00	10		22	20	52					
06:15	13		7	4	24		18:15	10		21	20	51					
06:30	13		10	5	28		18:30	8		14	11	33					
06:45	17	52	11	34	13	25	18:45	7	35	16	73	16	67	39	175		
07:00	17		18	12	47		19:00	7		12	11	30					
07:15	18		9	13	40		19:15	3		18	16	37					
07:30	25		36	16	77		19:30	12		11	18	41					
07:45	13	73	24	87	25	66	19:45	2	24	14	55	14	59	30	138		
08:00	20		22	22	64		20:00	9		9	13	31					
08:15	11		11	31	53		20:15	5		18	10	33					
08:30	10		10	15	35		20:30	7		13	14	34					
08:45	14	55	18	61	17	85	20:45	7	28	8	48	9	46	24	122		
09:00	10		9	15	34		21:00	4		5	10	19					
09:15	11		10	13	34		21:15	3		6	10	19					
09:30	7		9	12	28		21:30	1		6	10	17					
09:45	6	34	11	39	11	51	21:45	3	11	6	23	5	35	14	69		
10:00	12		5	12	29		22:00	4		2	9	15					
10:15	12		4	9	25		22:15	4		5	6	15					
10:30	9		10	8	27		22:30	0		7	3	10					
10:45	6	39	16	35	11	40	22:45	1	9	7	21	4	22	12	52		
11:00	10		17	10	37		23:00	1		2	9	12					
11:15	12		7	9	28		23:15	6		2	1	9					
11:30	4		14	10	28		23:30	1		3	4	8					
11:45	12	38	11	49	8	37	23:45	1	9	3	10	1	15	5	34		
TOTALS	344		325		333	1002	TOTALS	398		739		750	1887				
SPLIT %	34.3%		32.4%		33.2%	34.7%	SPLIT %	21.1%		39.2%		39.7%	65.3%				

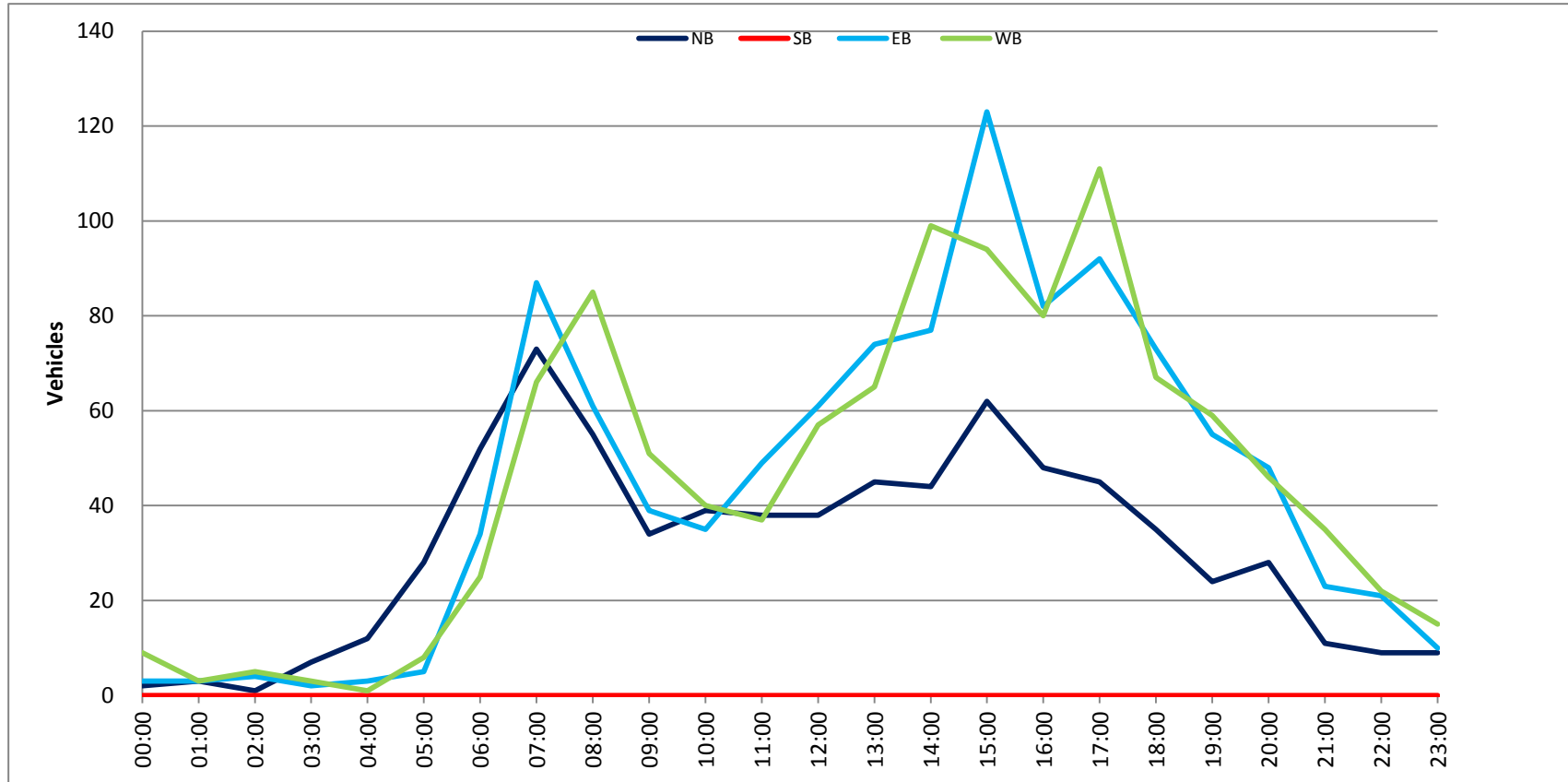
DAILY TOTALS					NB	SB						EB	WB						Total
					742	0						1,064	1,083						2,889
AM Peak Hour	06:45		07:30	07:30	07:30	PM Peak Hour	15:00		15:00	17:00	15:00								
AM Pk Volume	77		93	94	256	PM Pk Volume	62		123	111	279								
Pk Hr Factor	0.770		0.646	0.758	0.831	Pk Hr Factor	0.674		0.879	0.867	0.894								
7 - 9 Volume	128	0	148	151	427	4 - 6 Volume	93	0	174	191	458								
7 - 9 Peak Hour	07:15		07:30	07:30	07:30	4 - 6 Peak Hour	16:45		16:45	17:00	17:00								
7 - 9 Pk Volume	76	0	93	94	256	4 - 6 Pk Volume	50	0	94	111	248								
Pk Hr Factor	0.760	0.000	0.646	0.758	0.831	Pk Hr Factor	0.781	0.000	0.839	0.867	0.886								

Project #: CA21\_040159\_001

City: Spring Valley

Location: Helix St & Lamar St

Date: 9/16/2021





## Lamar Street & Vista Drive





## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022 **Item 4-C**

**SUPERVISORIAL DISTRICT:** 4

**SUBJECT:** Intersection Control

**LOCATION:** Lamar Street & Vista Drive, SPRING VALLEY (Thos. Bros. 1271-C6)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** All-Way Stop Control

### **PROBLEM AS STATED BY REQUESTER:**

The east intersection of Lamar Street & Vista Drive has been identified by Traffic Engineering as meeting Option D, an intersection of two residential collectors of similar design and an all-way stop would enhance the traffic operations of said intersection, of the Multi-Way Stop Application optional criteria as described in the California Manual on Uniform Traffic Control Devices (CA MUTCD), Section 2B.07, therefore an all-way stop control should be considered.

### **Existing Traffic Devices**

Lamar Street is a striped two-lane road with a 24 to 26-foot pavement width. The roadway is striped with a no passing centerline. Lamar Street is a designated through highway. It is unclassified on the County General Plan Mobility Element Network. The road is a posted 25 MPH residence district west of the intersection with Vista Drive. Lamar Street is unposted north of the intersection.

Vista Drive is an unstriped two-lane road with a 22-foot pavement width. The road is stop controlled in the northbound direction at Lamar Street. It is unclassified on the County General Plan Mobility Element Network. The road has no posted speed limit.

### **Average Daily Traffic Volumes** **09/21**

Lamar Street:	
W/o Helix Street	419 EB
N/o Helix Street	303 SB
Vista Drive:	
S/o Lamar Street	94 NB

### **Collision Data**

There have been 0 reported collisions, at this intersection, within a past 5-year period (11-01-2016 to 10-31-2021).



# County of San Diego

**JEFF MONEDA**  
DIRECTOR

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## COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date: April 4, 2022

Item Title: All-Way Stop Controls

Location: Vista Drive and Lamar Street Intersection

Recommendation: **Install All-Way Stop Controls**

Conditions:

- Section 21354 "Stop Signs on Local Highways" of the California Vehicle Code (CVC) authorizes local agencies to designate any intersection under its exclusive jurisdiction as a stop intersection.
- Section 2B.07 "Multi-Way Stop Applications" of the California MUTCD, provides four optional criteria that may be considered in an engineering study when evaluating an intersection for an all-way stop control.
- Section 2B.07 - Option D, Intersection of two Residential Collectors, indicates all-way stop controls may be considered at an intersection of two residential collectors of similar design and the all-way stop control would enhance the traffic operations of said intersection. Both Vista Drive and Lamar Street are considered Residential Collectors with similar traffic operation.
- Pursuant to CVC section 21354 coupled with traffic conditions noted above, it is my recommendation that an All-Way Stop Control is appropriate and safe for the intersection of Helix Street and Lamar Street.



*Zoubir A. Ouadah*

\_\_\_\_\_  
Zoubir A. Ouadah, PE. TE.  
County Traffic Engineer

*04/06/2022*

\_\_\_\_\_  
Date

**VOLUME**

Vista Dr &amp; Lamar St

Day: Thursday  
Date: 9/23/2021City: Spring Valley  
Project #: CA21\_040163\_001

DAILY TOTALS					NB	SB						EB	WB	Total	
					94	303						419	0	816	
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00	0	2	3	0	5		12:00	2	0	5	0	7			
00:15	0	0	0	0	0		12:15	3	5	4	0	12			
00:30	1	0	0	0	1		12:30	2	3	2	0	7			
00:45	1	2	1	3	3	6	0	12:45	3	10	1	9	1	12	0
01:00	0	0	2	0	2		13:00	0	2	5	0	7			
01:15	0	1	0	0	1		13:15	2	4	4	0	10			
01:30	0	0	0	0	0		13:30	1	1	7	0	9			
01:45	0	0	1	2	4	0	13:45	0	3	3	10	8	24	0	11
02:00	0	0	0	0	0		14:00	1	5	10	0	16			
02:15	0	1	0	0	1		14:15	2	12	10	0	24			
02:30	0	0	0	0	0		14:30	1	16	8	0	25			
02:45	0	0	1	0	0	1	14:45	1	5	4	37	9	37	0	14
03:00	0	0	2	0	2		15:00	0	9	6	0	15			
03:15	0	0	0	0	0		15:15	2	5	10	0	17			
03:30	0	1	0	0	1		15:30	2	7	6	0	15			
03:45	0	0	1	0	2	0	15:45	0	4	2	23	6	28	0	8
04:00	0	1	1	0	2		16:00	2	12	10	0	24			
04:15	0	0	0	0	0		16:15	2	7	10	0	19			
04:30	0	0	0	0	0		16:30	0	1	5	0	6			
04:45	0	0	1	1	2	0	16:45	2	6	6	26	11	36	0	19
05:00	1	1	1	0	3		17:00	2	2	10	0	14			
05:15	3	1	0	0	4		17:15	2	6	11	0	19			
05:30	1	0	0	0	1		17:30	2	5	9	0	16			
05:45	0	5	3	5	2	3	0	17:45	1	7	5	18	9	39	0
06:00	0	0	2	0	2		18:00	2	13	5	0	20			
06:15	2	0	1	0	3		18:15	1	5	6	0	12			
06:30	2	5	5	0	12		18:30	0	3	6	0	9			
06:45	2	6	1	6	8	16	0	18:45	2	5	7	28	4	21	0
07:00	2	8	4	0	14		19:00	2	1	6	0	9			
07:15	1	7	5	0	13		19:15	2	3	8	0	13			
07:30	7	3	18	0	28		19:30	2	2	7	0	11			
07:45	4	14	21	39	14	41	0	19:45	0	6	1	7	5	26	0
08:00	1	13	7	0	21		20:00	0	2	4	0	6			
08:15	1	8	14	0	23		20:15	1	3	3	0	7			
08:30	0	4	2	0	6		20:30	0	0	5	0	5			
08:45	1	3	9	34	7	30	0	20:45	0	1	1	6	4	16	0
09:00	3	4	7	0	14		21:00	1	0	1	0	2			
09:15	0	4	9	0	13		21:15	0	1	1	0	2			
09:30	2	3	1	0	6		21:30	0	1	2	0	3			
09:45	3	8	0	11	2	19	0	21:45	0	1	0	2	4	8	0
10:00	1	1	3	0	5		22:00	0	2	0	0	2			
10:15	1	7	3	0	11		22:15	0	0	0	0	0			
10:30	2	3	4	0	9		22:30	0	0	1	0	1			
10:45	1	5	3	14	5	15	0	22:45	0	1	3	2	3	0	3
11:00	0	3	3	0	6		23:00	1	0	1	0	2			
11:15	0	4	11	0	15		23:15	0	1	2	0	3			
11:30	2	6	9	0	17		23:30	0	2	0	0	2			
11:45	0	2	2	15	5	28	0	23:45	0	1	0	3	0	3	0
TOTALS	45	131	166		342		TOTALS	49	172	253		474			
SPLIT %	13.2%	38.3%	48.5%		41.9%		SPLIT %	10.3%	36.3%	53.4%		58.1%			

DAILY TOTALS					NB	SB						EB	WB	Total	
					94	303						419	0	816	
AM Peak Hour	07:00	07:45	07:30	07:30			PM Peak Hour	12:00	14:15	16:45	14:00				
AM Pk Volume	14	46	53	111			PM Pk Volume	10	41	41	79				
Pk Hr Factor	0.500	0.548	0.736	0.712			Pk Hr Factor	0.833	0.641	0.932	0.790				
7 - 9 Volume	17	73	71	161	0		4 - 6 Volume	13	44	75	132	0			
7 - 9 Peak Hour	07:00	07:45	07:30	07:30			4 - 6 Peak Hour	16:45	16:00	16:45	16:00				
7 - 9 Pk Volume	14	46	53	111	0		4 - 6 Pk Volume	8	26	41	68	0			
Pk Hr Factor	0.500	0.548	0.736	0.712	0.000		Pk Hr Factor	1.000	0.542	0.932	0.708	0.000			

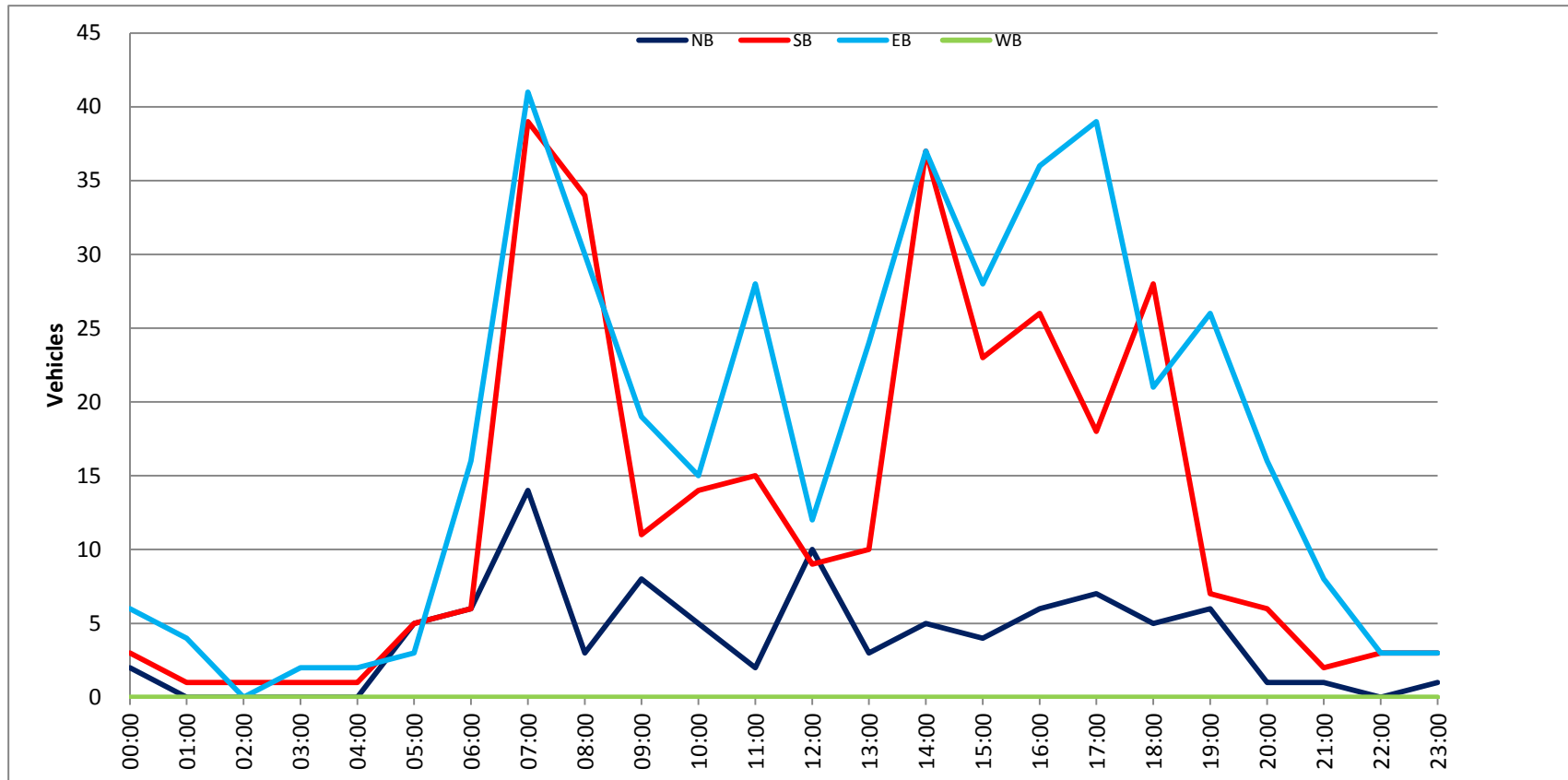


Project #: CA21\_040163\_001

City: Spring Valley

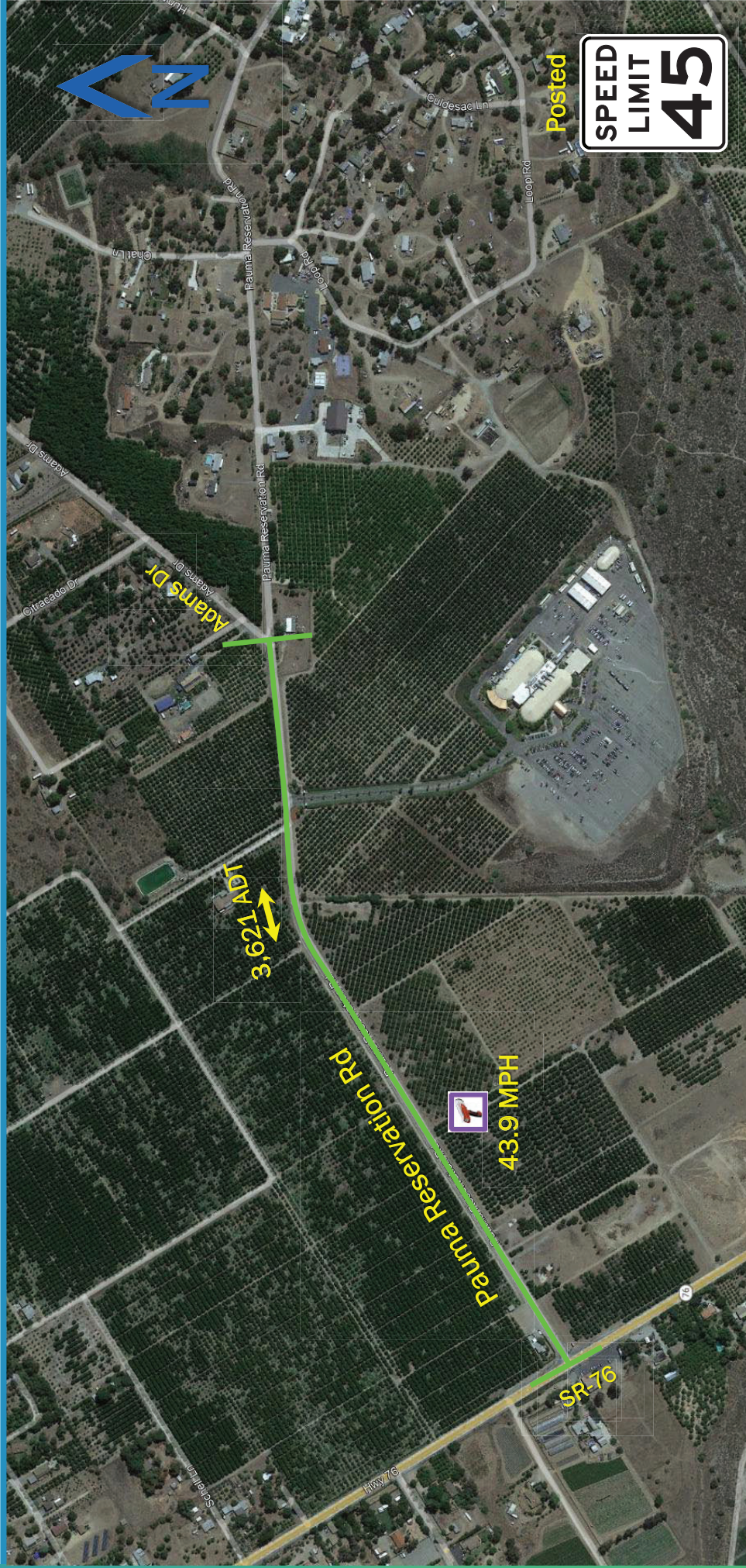
Location: Vista Dr & Lamar St

Date: 9/23/2021



# Pauma Reservation Road

State Route 67 to Adams Drive (0.65 miles)





## SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**COMMITTEE REPORT OF:** April 22, 2022

**Item 5-A**

**SUPERVISORIAL DISTRICT:** 5

**SUBJECT:** Radar Certification

**LOCATION:** Pauma Reservation Road from State Route 76 to Adams Drive (PRD 6) (a distance of 0.65 miles)  
PAUMA (Thos. Bros. 1050-H2)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

**PROBLEM AS STATED BY REQUESTER:**

Pauma Reservation Road from State Route 76 to Adams Drive (PRD 6) is posted 45 MPH. A preliminary review of prevailing speeds and roadway conditions could support radar certification of a 40 MPH speed limit.

**Existing Traffic Devices**

Pauma Reservation Road is a striped 2-lane undivided highway with a pavement width of 21 feet. The roadway is striped with no passing centerline and white edgeline. The road is posted with signal, curve, and intersection advisory signs. Pauma Reservation Road is unclassified on the County General Plan Mobility Element Network. The road is posted 45 MPH/Radar Enforced.

**Average Daily Traffic Volumes**

Pauma Reservation Road:

150' W/o Casino Pauma Entrance

**03/22**

**12/14**

3,621

3,615

**Speed Data**

Pauma Reservation Road:

1,450' E/o State Route 76

**85th  
Percentile**

**10 MPH  
Pace**

**% in  
Pace**

(2022) 43.9 MPH

30-39

64.0%

(2014) 47.0 MPH

37-46

61.0%

**Collision Data**

There have been 0 reported collisions, along this segment of roadway in a 3 year period (11-01-18 to 10-31-21).

**VOLUME**

Pauma Reservation Rd 150' W/O Casino Pauma Entrance

Day: Tuesday  
Date: 3/22/2022City: Pauma Valley  
Project #: CA22\_040044\_006

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						1,808	1,813						3,621
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			9	24	33		12:00			31	25	56							
00:15			2	10	12		12:15			24	28	52							
00:30			3	11	14		12:30			21	25	46							
00:45			7	21	12	57	12:45			23	99	26	104	49	203				
01:00			7	12	19		13:00			26	11	37							
01:15			5	10	15		13:15			28	24	52							
01:30			3	4	7		13:30			32	20	52							
01:45			8	23	9	35	13:45			28	114	24	79	52	193				
02:00			2	5	7		14:00			23	28	51							
02:15			1	3	4		14:15			40	30	70							
02:30			5	9	14		14:30			32	28	60							
02:45			6	14	6	23	14:45			38	133	31	117	69	250				
03:00			2	15	17		15:00			41	45	86							
03:15			2	6	8		15:15			31	26	57							
03:30			1	10	11		15:30			30	31	61							
03:45			10	15	11	42	15:45			28	130	31	133	59	263				
04:00			2	6	8		16:00			32	34	66							
04:15			1	5	6		16:15			36	34	70							
04:30			4	8	12		16:30			34	28	62							
04:45			2	9	6	25	16:45			22	124	24	120	46	244				
05:00			2	4	6		17:00			31	40	71							
05:15			5	6	11		17:15			37	24	61							
05:30			15	7	22		17:30			37	28	65							
05:45			18	40	11	28	17:45			35	140	23	115	58	255				
06:00			8	13	21		18:00			39	43	82							
06:15			18	7	25		18:15			33	22	55							
06:30			12	11	23		18:30			34	20	54							
06:45			18	56	10	41	18:45			34	140	17	102	51	242				
07:00			11	15	26		19:00			31	26	57							
07:15			11	16	27		19:15			26	27	53							
07:30			14	19	33		19:30			27	23	50							
07:45			32	68	25	75	19:45			32	116	23	99	55	215				
08:00			19	16	35		20:00			21	37	58							
08:15			14	6	20		20:15			14	28	42							
08:30			25	9	34		20:30			20	29	49							
08:45			27	85	22	53	20:45			17	72	21	115	38	187				
09:00			17	10	27		21:00			9	33	42							
09:15			16	13	29		21:15			10	22	32							
09:30			28	7	35		21:30			10	25	35							
09:45			32	93	16	46	21:45			13	42	21	101	34	143				
10:00			16	19	35		22:00			16	21	37							
10:15			26	17	43		22:15			14	22	36							
10:30			28	18	46		22:30			18	17	35							
10:45			24	94	14	68	22:45			13	61	31	91	44	152				
11:00			14	22	36		23:00			8	23	31							
11:15			27	13	40		23:15			10	21	31							
11:30			23	14	37		23:30			9	15	24							
11:45			22	86	16	65	23:45			6	33	20	79	26	112				
TOTALS			604	558	1162		TOTALS			1204	1255	2459							
SPLIT %			52.0%	48.0%	32.1%		SPLIT %			49.0%	51.0%	67.9%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						1,808	1,813						3,621
AM Peak Hour			11:15	11:45	11:45		PM Peak Hour			14:15	14:15	14:15							
AM Pk Volume			103	94	192		PM Pk Volume			151	134	285							
Pk Hr Factor			0.831	0.839	0.857		Pk Hr Factor			0.921	0.744	0.828							
7 - 9 Volume	0	0	153	128	281		4 - 6 Volume	0	0	264	235	499							
7 - 9 Peak Hour			07:45	07:15	07:15		4 - 6 Peak Hour			17:00	16:15	17:00							
7 - 9 Pk Volume	0	0	90	76	152		4 - 6 Pk Volume	0	0	140	126	255							
Pk Hr Factor	0.000	0.000	0.703	0.760	0.667		Pk Hr Factor	0.000	0.000	0.946	0.788	0.898							





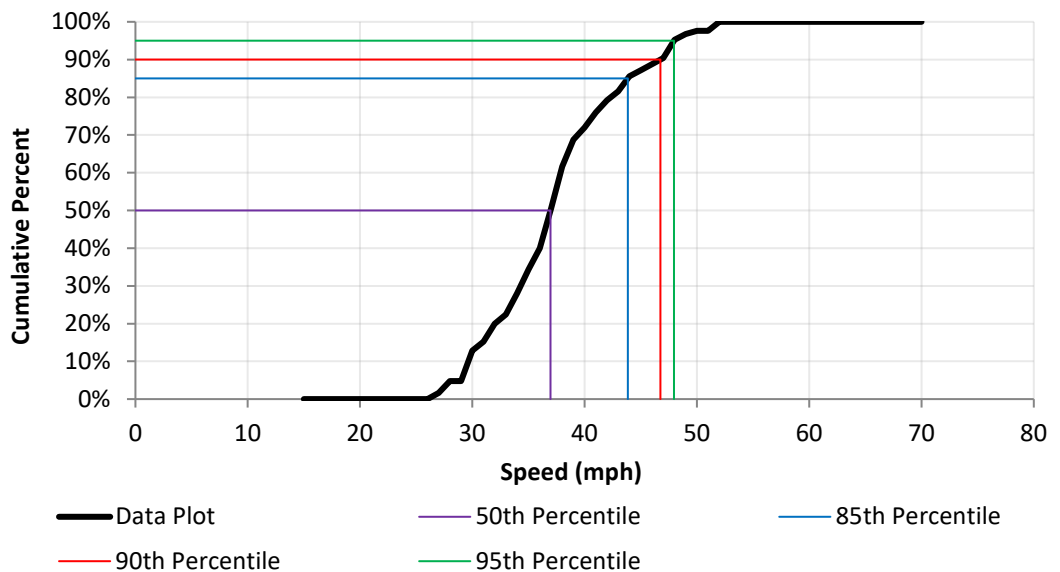
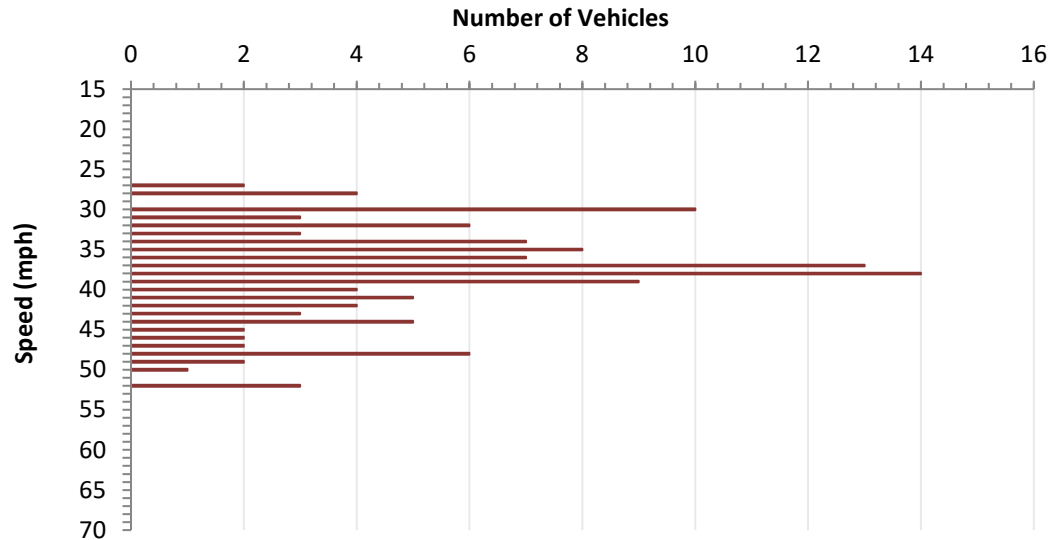
# RADAR SPEED SURVEY

## SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

<b>Road Name:</b>	Pauma Reservation R	<b>From:</b>	HWY 76	<b>To:</b>	Adams Dr
<b>Position:</b>	1,450' E/O Hwy 76	<b>Direction:</b>	EB/WB		

<b>Date:</b>	3/25/2022	<b>Weather:</b>	Clear	<b>Project Number:</b>	0
<b>Time Start:</b>	12:00PM	<b>Road Condition:</b>	Dry	<b>Observer:</b>	Samuel Cecere
<b>Time End:</b>	1:03PM	<b>Posted Speed:</b>	N/A	<b>Calibration Test:</b>	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27	2	1.6%
28	4	4.8%
29		
30	10	12.8%
31	3	15.2%
32	6	20.0%
33	3	22.4%
34	7	28.0%
35	8	34.4%
36	7	40.0%
37	13	50.4%
38	14	61.6%
39	9	68.8%
40	4	72.0%
41	5	76.0%
42	4	79.2%
43	3	81.6%
44	5	85.6%
45	2	87.2%
46	2	88.8%
47	2	90.4%
48	6	95.2%
49	2	96.8%
50	1	97.6%
51		
52	3	100.0%
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
<b>Total</b>	<b>125</b>	



### DATA ANALYSIS

Average Speed	37.9	Range	27 - 52
50th Percentile	37.0	10 mph Pace	30 - 39
85th Percentile	43.9	Number in Pace	80
90th Percentile	46.8	Percent in Pace	64%
95th Percentile	48.0		

**SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE**  
**Informational Item A**

**COMMITTEE REPORT OF:** April 22, 2022

**SUPERVISORIAL DISTRICT:** All

**SUBJECT:** Local Roadway Safety Plan (LRSP)

**LOCATION:** COUNTYWIDE

Project update on the Local Roadway Safety Plan (LRSP).

The County's first Local Roadway Safety Plan (LRSP) has been completed and has created a framework to identify, analyze, and prioritize roadway safety improvements on local County maintained roadway segments and intersections. The LRSP's mission is to prevent death and severe injuries on County roadways, and considered the following when prioritizing locations: 1) Community Representation; 2) Collision Rate/Frequency; 3) Health and Equity; and 4) Severity. The first LRSP has prioritized 65 intersections and 60 roadway segments for targeted assessments and improvements throughout the County unincorporated area to enhance safety on the County roadway network. The LRSP will be advantageous in securing future grant funds, and it is also a future requirement of Highway Safety Improvement Program (HSIP). The LRSP is a living document that will be updated periodically to reflect new collision data, trends, and updated recommendations.

Included in this report is the executive summary of the LRSP, list of 65 priority intersections identified in the LRSP, list of 60 priority road segments identified in the LRSP, and a draft copy of the LRSP Report.

A video summarizing the LRSP can be found at the link below:

[San Diego County Local Roadway Safety Plan - YouTube](#)



# County of San Diego

JEFF MONEDA  
DIRECTOR

DEPARTMENT OF PUBLIC WORKS  
5510 OVERLAND AVENUE, SUITE 410  
SAN DIEGO, CA 92123-1237  
(858) 694-2212  
[www.sdcounty.ca.gov/dpw/](http://www.sdcounty.ca.gov/dpw/)

## COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date: April 7, 2022

Item Title: Local Roadway Safety Plan, April 7, 2022

Location: Countywide

Recommendation: **Approved the Report**

Conditions:

- In the past, the County of San Diego was awarded numerous Highway Safety Improvement grants (HSIP) to enhance the safety of the County roadways.
- Starting in 2023, the County will not be able to apply or receive an HISP grant unless the County has an approved Local Roadways Safety Plan (LRSP).
- The State and the Federal Highway Administration (FHWA) has provided guidelines in preparing an LRSP, and the County's report has been prepared following those guidelines.
- An in-depth analysis of the County roadway and intersection collision data for a period of five years was performed and roadway and intersection rankings are documented in the LRSP report.
- The LRSP report ranked the top 60 roadway segments and 65 intersections based on collision records using three factors: number of fatal and severe injury collisions, total number of collisions, and location of collisions with respect to underserved communities.

- The LRSP sets a framework to ensure future roadway projects are focused on locations in most need of safety improvements and encourages community and stakeholder input.
- It is my recommendation that the TAC approve the LRSP report, dated April 7, 2022.



*Zoubir A. Ouadah*

Zoubir A. Ouadah, PE. TE.  
County Traffic Engineer

*04/06/2022*

Date



## COUNTY OF SAN DIEGO LOCAL ROADWAY SAFETY PLAN

### EXECUTIVE SUMMARY

The County of San Diego (County) and Linscott, Law & Greenspan, Engineers is pleased to present the Local Roadway Safety Plan (LRSP). This LRSP provides the framework and process for analyzing, identifying, and prioritizing roadway safety improvements to reduce severe injury and fatal collisions on County roadways. The LRSP helps communities and stakeholders understand the types of collisions occurring and helps the County make informed, proactive, and prioritized roadway infrastructure safety decisions. Additional benefits of the LRSP include:

- Coordination and partnership between various agencies within the County
- Use of the findings and recommendations to leverage and apply for outside funding

To help guide the development of the LRSP the following guiding principles were established:

- **GOAL:** Implement a multidisciplinary holist approach to improve transportation safety in each challenge area.
- **MISSION:** Strive for zero deaths and severe injuries on County Roadways by promoting safe, healthy, and equitable mobility for all.
- **VISION:** Every life counts.

Between 2015 and 2019, a total of 16,452 transportation-related collisions have occurred – 683 of which were severe injury collisions and 160 of which were fatal collisions. The collision data was analyzed to understand collision trends, types, locations, and potential contributing factors.

Based on the collision analysis, sixteen (16) challenge areas were identified. A challenge area is an area of opportunity to improve transportation safety. It helps focus the recommendations/countermeasures to provide the greatest opportunity for reducing fatal and severe injury collisions. Additionally, using a ranking system that factors the collision rate, collision severity, and health/equity metrics, a list, which prioritized 65 intersections and 60 ~~ranked~~ segments was created for targeted assessments and improvements to enhance the County roadway infrastructure safety.

The LRSP is living documents that will be updated periodically to reflect new collision data, trends, and updated recommendations. The real work in achieving the LRSP's goal, mission, and vision is in the successful implementation of this plan, which depends on everyone.



*County of San Diego*

# Local Roadway Safety Plan

*April 7, 2022*





# REPORT INFORMATION

**Project:** County of San Diego Local Roadway Safety Plan

**Date:** April 7, 2022

**LLG Ref.:** 3-19-3236

## Prepared For:



County of San Diego, Department of Public Works  
5510 Overland Avenue  
San Diego, CA 92123

\_\_\_\_\_  
Derek Gade, PE  
Assistant Director

\_\_\_\_\_  
Date



\_\_\_\_\_  
Murali Pasumarthi  
Traffic Engineering Manager

\_\_\_\_\_  
Date

*Zoubir Ouadah*

\_\_\_\_\_  
Zoubir Ouadah, PE, TE  
County Traffic Engineer

04/07/2022  
Date



*Richard Chin*

\_\_\_\_\_  
Richard Chin  
Public Works Project Manager

04/07/2022  
Date

## Prepared By:



Linscott, Law & Greenspan, Engineer  
4542 Ruffner Street, Suite 100  
San Diego, CA 92111

*K.C. Yellapu*

\_\_\_\_\_  
K.C. Yellapu, PE, TE  
Principal

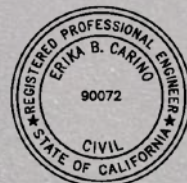
4/7/22  
Date



*Erika Carino*

\_\_\_\_\_  
Erika Carino, PE, RSP  
Transportation Engineer III

4/7/22  
Date





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# LIST OF ACRONYMS

(ALPHABETICAL ORDER)

CA SHSP	California Strategic Highway Safety Plan
CVC	California Vehicle Code
F	Fatal
FHWA	Federal Highway Safety Administration
F+SI	Fatal plus Severe Injuries
GIS	Geographic Information System
HHSA	Health and Human Services Agency
HPI	Healthy Places Index
HSIP	Highway Safety Improvement Program
ITS	Intelligent Transportation System
LLG	Linscott, Law and Greenspan
LRSP	Local Roadway Safety Plan
PE	Professional Engineer
RSA	Road Safety Audit
SI	Severe Injuries
TAC	Traffic Advisory Committee
TE	Transportation Engineer
TSM&O	Transportation System Management and Operations



# INTRODUCTION





# 1.0 INTRODUCTION

The County of San Diego (herein referred to as the County) is committed to improving the transportation system to enhance the safety of all roadway users. As part of an ongoing effort to enhance the transportation system safety, this Local Roadway Safety Plan (LRSP) was developed as a step towards this commitment. In addition, an LRSP is now required to apply for future Highway Safety Improvement Program (HSIP) funding.

## What is an LRSP?

**An LRSP provides a framework for analyzing, identifying, and prioritizing roadway safety improvements to reduce severe injury and fatal collisions on local roadways.** It is a living document that should be continually reviewed and updated to reflect changing local needs and priorities.

This report documents the process used to collect and analyze collision data on County maintained roadways and identifies recommendations that the County should implement. The LRSP development process is shown in **Figure 1-1**.







## The Benefits of an LRSP?

According to Federal Highway Safety Administration's (FHWA) *Developing Safety Plans: A Manual for Local Rural Road Owners*, there are several benefits of a local road safety plan. These benefits are detailed in **Table 1-1**.

TABLE 1-1  
BENEFITS OF AN LRSP

Benefits	Detail
<b>Proactive Approach</b>	An LRSP offers a proactive approach for local road agencies to address safety issues. An LRSP can show the public and policymakers that something is being done to systematically reduce severe crashes, thereby building trust with local government officials, key stakeholders, and the general public.
<b>Develop Partnerships</b>	An LRSP provides local agencies with an opportunity to improve relationships with the public, stakeholders, and governmental agencies by working through a collaborative process. Improving road safety is a benefit for everyone involved.
<b>Multi-Disciplinary Cooperation</b>	An LRSP is a multi-disciplinary approach to addressing safety. Agencies can develop more effective solutions and leverage resources by considering and coordinating engineering, enforcement, education, and emergency service strategies.
<b>Safer Roadways</b>	An LRSP facilitates a comprehensive approach to addressing road safety that—if successfully implemented—can lead to projects that reduce severe crashes.
<b>Safety Funding</b>	An LRSP with a prioritized list of improvements can help agencies better justify funding requests by documenting specific needs, particularly if they are consistent with emphasis/challenge areas and strategies identified in the State's SHSP. An LRSP also shows that an agency has done its due diligence and can help an agency compete more effectively for limited funds.
<b>Managing Liability</b>	An LRSP is one of several proactive risk management techniques that demonstrate an agency's responsiveness to the safety needs of the public.

Source: FHWA's *Developing Safety Plans - A Manual for Local Rural Road Owners*

## WORKING GROUP AND STAKEHOLDERS



## 2.0 WORKING GROUP AND STAKEHOLDERS

A key component to the success of an LRSP is the establishment of a collaborative partnership with stakeholders. Traffic Advisory Committee (TAC) meetings were determined to be the means by which open communication between the working group and stakeholders was established to support, develop, and implement the LRSP. **Table 2-1** tabulates the working group and stakeholders that collaborated on this LRSP.

TABLE 1-1  
WORKING GROUP AND STAKEHOLDERS

WORKING GROUP	<ul style="list-style-type: none"> <li>• County of San Diego, Public Works</li> <li>• Linscott, Law &amp; Greenspan, Engineer</li> </ul>
STAKEHOLDERS	<ul style="list-style-type: none"> <li>• County of San Diego Departments:             <ul style="list-style-type: none"> <li>– Health &amp; Human Services Agency</li> <li>– Sheriff</li> <li>– Ethics &amp; Compliance</li> <li>– District Attorney</li> <li>– Planning and Development Services</li> <li>– Fire Authority</li> </ul> </li> <li>• California Highway Patrol</li> <li>• Planning Communities:             <ul style="list-style-type: none"> <li>– Alpine, Bonsall, Central Mountain, County Islands, Crest-Dehesa, Desert, Fallbrook, Jamul/Dulzura, Julian, Lakeside, Mountain Empire, North County Metro, North Mountain, Otay, Pala/Pauma, Pendleton-De Luz, Rainbow, Ramona, San Dieguito, Spring Valley, Sweetwater, Valle De Oro and Valley Center</li> </ul> </li> </ul>



# GUIDING PRINCIPLES



## 3.0 GUIDING PRINCIPLES

### Vision, Mission, and Goal

To guide the development of the LRSP, a clear vision was established to describe the long-term outcome that is desired. Mission and goal statements were also developed to provide support and direction to achieve the LRSP vision.



### Transportation, Health, and Equity

There is a direct relationship between health, equity, and the built environment. Although many factors affect equity, research shows that there is a direct link between transportation and equity. Unfortunately, in the past, some federal, state, and local policies implemented have not succeeded in providing everyone with access to affordable, safe, convenient, and reliable transportation options, leading to socioeconomic and racial disparities. **The County of San Diego is committed to being a part of the solution to tackle the challenges of dismantling the injustices in the transportation system and is working towards providing equal access to healthy, reliable, and practical transportation to all.**

The first step towards social justice and equity in transportation is acknowledging the existing disparities, inequalities, and roots to establish a clear understanding of both the underlying and explicit issues. In January 2021, the Board of Supervisors voted to declare racism a public health crisis. In doing so, the County acknowledges that racism underpins health inequities and has a substantial correlation to poor outcomes in multi-facets of life. The measures proposed will ensure that the County is making substantive changes to County operations to transform values, policies, and practices to promote equity based on data and community engagement. **Appendix A** contains the resolution.

The County of San Diego is making strides to ensure equity by incorporating public health metrics as an additional facet in the data-driven approach of the LRSP. This differs from the traditional method by accounting for collisions in underserved areas. The Healthy Places Index (HPI) tool was utilized in the priority location assessment in **Chapter 7**. HPI is an online data-mapping tool developed by the Public Health Alliance of Southern California that weighs eight (8) policy action areas to determine a score for each census tract.

<b>Healthy Places Index</b>	<b>1) Economic 2) Social 3) Education 4) Transportation 5) Neighborhood 6) Housing 7) Clean Environment 8) Healthcare Access</b>
-----------------------------	--

HPI is being used at the state, regional, and local levels in equitable grantmaking, assessment, decision-making, planning guidance, prioritizing investments, and many more. The HPI and collision data were utilized to provide a holistic and equitable approach to roadway safety in this Local Roadway Safety Plan. Additional information on each policy action area is provided in **Appendix B**.

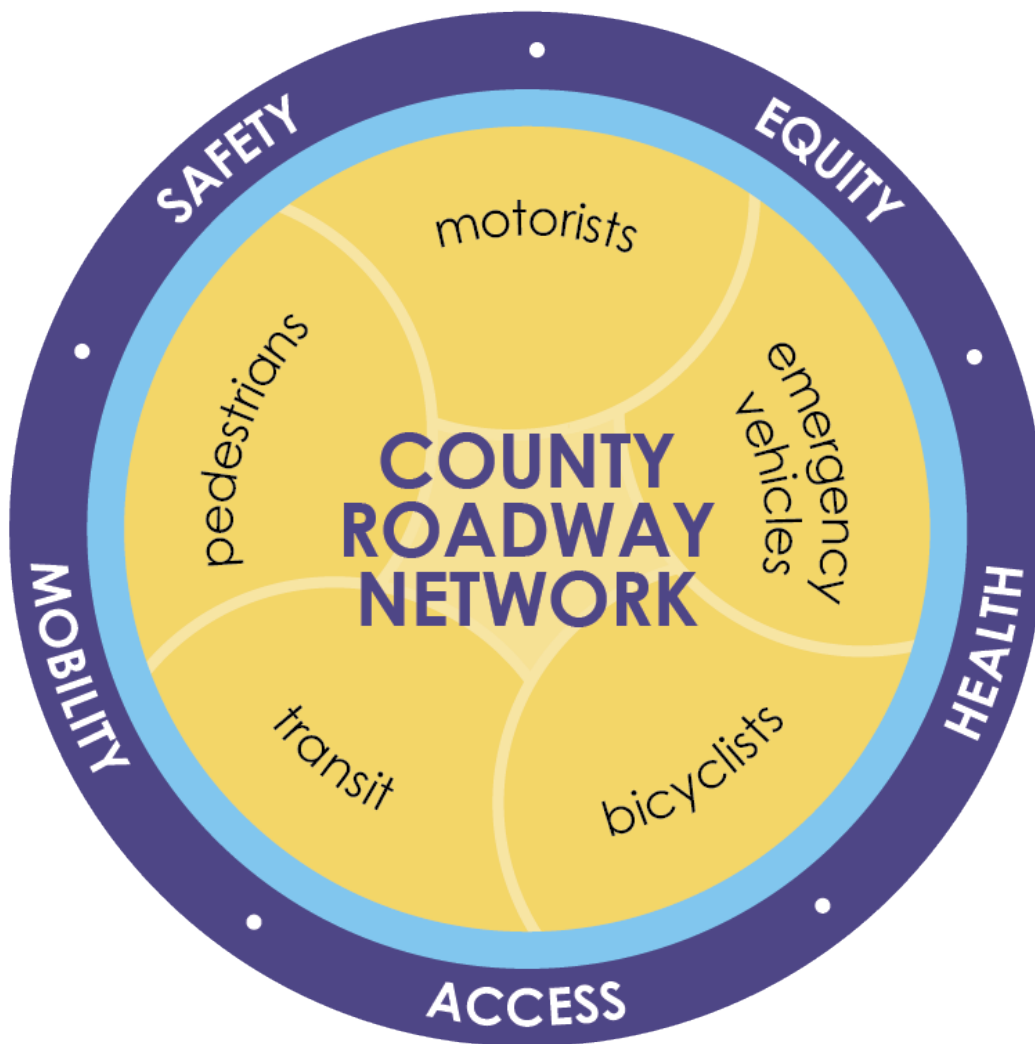
**Road safety is a complex public health issue that requires a multi-disciplinary holistic approach.** The California Highway Safety Plan integrates this multi-disciplinary approach through the four (4) Es of roadway safety. This approach involves roadway design (**Engineering**), changing user behavior and culture through institutionalized practices (**Enforcement** of traffic laws and **Education**), and improving emergency services (**Emergency Response**). Also incorporated in the LRSP

#### SAFE SYSTEM PRINCIPLES

- 1) Fatal/Serious Injury is Unacceptable
- 2) Responsibility is Shared
- 3) Humans make Mistakes
- 4) Safety is Proactive
- 5) Humans are Vulnerable
- 6) Redundance is Crucial

development process are the six (6) safe systems principles to help us work towards the County of San Diego's vision, mission, and goal.

The County of San Diego recognizes that there is more work left to do and looks forwards to being a part of the solution in applying these guiding principles and taking a holistic approach on the County roadway network and its users through the lens of safety, equity, health, mobility, and access.







## 4.0 DATA RESOURCES

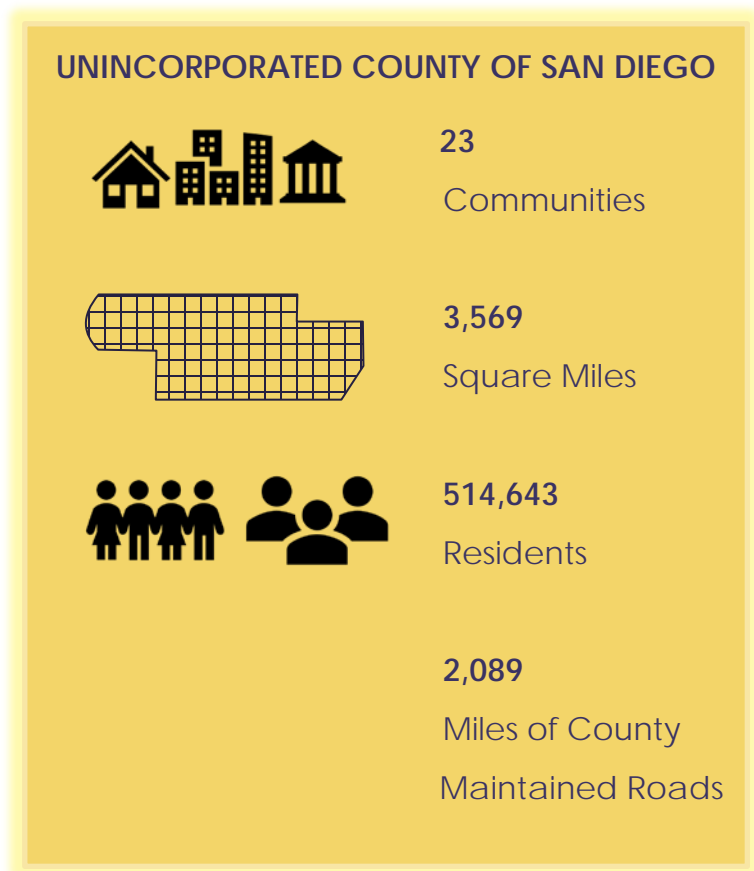
A Geographic Information System (GIS) database was developed, containing the roadway network, community planning areas, HPI and collision information.

### Roadway Network and Planning Communities

Using County GIS files of the roadway network and community planning areas, the collision data was spatially plotted. The post-processing of the collision data is further detailed in the next sub-chapter.

The analyses included in this report are of county-maintained roadways and intersections within the planning community areas listed below. This list is consistent with the County of San Diego General Plan Mobility Element. **Figure 4-1** shows the County of San Diego Planning communities. This LRSP does not include analyses of private roadways and freeways/state routes within Caltrans's right-of-way.

1. Alpine
2. Bonsall
3. Central Mountain
4. County Islands
5. Crest-Dehesa
6. Desert
7. Fallbrook
8. Jamul/Dulzura
9. Julian
10. Lakeside
11. Mountain Empire
12. North County Metro
13. North Mountain
14. Otay
15. Pala/Pauma
16. Pendleton-De Luz
17. Rainbow
18. Ramona
19. San Dieguito
20. Spring Valley
21. Sweetwater
22. Valle De Oro
23. Valley Center



## Collision Data

The data contained in this report was obtained from the County of San Diego's collisions database. The database is a compilation of anonymized collision report information from law enforcement agencies that includes but are not limited to the following collision details:

- Date/Time/Location
- Severity
- CVC Violation
- Roadway Condition
- Weather
- Safety Equipment
- Collision Type
- Party Information
- Victim Information

CASE ID	YEAR	DATE	TIME	DAY OF WEEK
6735593	2015	20150101	840	4
6781275	2015	20150101	1053	4
6782303	2015	20150101	300	4
6782306	2015	20150101	500	4
6785310	2015	20150101	1045	4
6789197	2015	20150101	753	4
6798405	2015	20150101	1735	4
6775159	2015	20150102	1600	5
6782194	2015	20150102	1412	5
6782305	2015	20150102	1540	5
6782550	2015	20150102	2310	5
6799409	2015	20150102	1040	5
6782195	2015	20150103	1358	6

COLLISION_DATE	COLLISION_TIME	DAY_OF_WEEK	CHP_SHIFT	SPECIAL_COND	BEAT_TYPE	CHP_BEAT_TYPE	CHP_BEAT_CLASS	BEAT_NUMBER	
20150101	840	4	1	0	3	5	2	213	RICE CANYON RD
20150101	1053	4	1	0	3	5	1	212	W OAK GLEN RD
20150101	300	4	3	0	2	4	1	96	HIGHLAND VALLE
20150101	500	4	3	0	2	4	1	26	JAMACHA BL
20150101	1045	4	1	0	3	5	2	211	MOUNTAIN LILAC
20150101	753	4	1	0	3	5	2	213	PALA TEMECULA
20150101	1735	4	2	0	2	4	1	12	LAKE JENNINGS
20150102	1600	5	2	0	3	5	2	1	PEPPER DR
20150102	1412	5	2	0	3	5	2	2	ESTRELLA DR
20150102	1540	5	2	0	2	4	1	21	WILLOW GLEN DR
20150102	2310	5	3	0	3	5	2	6	N MAIN ST
20150102	1040	5	1	0	3	5	2	1	PINEHURST RD
20150103	1358	6	1	0	2	4	1	20	CALLE VERDE
20150103	1140	6	1	0	3	5	2	9	BOUNDARY AV
20150103	1639	6	2	0	3	5	2	230	DEL DIOS HWY
20150103	146	6	3	0	3	5	2	211	PARADISE MOUN
20150103	2325	6	3	0	3	5	2	2	HIDDEN MESA RD
20150104	1331	7	1	0	3	5	2	231	BEAR VALLEY PH
20150104	1754	7	3	0	3	5	2	2	PORTOLA AV
20150104	49	7	3	0	3	5	2	211	PARADISE MOUN
20150104	1545	7	2	0	3	5	2	24	BERNARDO CENT
20150104	1409	7	2	0	3	5	2	70	RAMBLA DE LAS
20150105	640	1	1	0	2	4	2	61	EAST MISSION R
20150105	740	1	1	0	2	4	1	21	WILLOW GLEN DR
20150105	1841	1	2	0	3	5	2	70	EL CAMINO DEL
20150105	1750	1	2	0	1	1	2	84	OLDE HIGHWAY I
20150105	1455	1	2	0	3	5	2	6	AMMUNITION RD
20150106	815	2	1	0	3	5	2	170	SOUTH SANTA FE
20150106	1422	2	2	1	3	5	2	230	VIA RANCHO PKV
20150106	1615	2	2	0	3	5	2	3	ARNOLD WY
20150106	215	2	3	0	3	5	2	211	WOODS VALLEY
20150106	1625	2	2	0	2	4	1	20	AVOCADO AV
20150106	1815	2	2	0	2	4	1	95	SAN VICENTE RD
20150106	2210	2	3	0	3	5	2	24	ALVA RD
20150107	1915	3	2	0	2	4	2	63	RECHE RD

This database is continuously updated and maintained by the County of San Diego Public Works Department. The timeline selected for the analyses is the five years from **January 1, 2015 to December 31, 2019**. The obtained data set was processed further to create a final data set of collisions for the analyses. This post-processing included the following:

- Removing collisions that occurred in incorporated areas.
- Removing collisions that occurred in Caltrans's right-of-way, such as freeway, on-ramps and off-ramps, and state routes (freeway or conventional types).
- Removing collisions that occurred at Caltrans-controlled intersections.
- Removing collisions that occurred on private roadways.

Utilizing the latitude and longitude information provided in the data set, the collisions were spatially mapped using GIS software. It should be noted that the latitude and longitude coordinates were utilized as-is and were not further validated due to the magnitude of the data set.





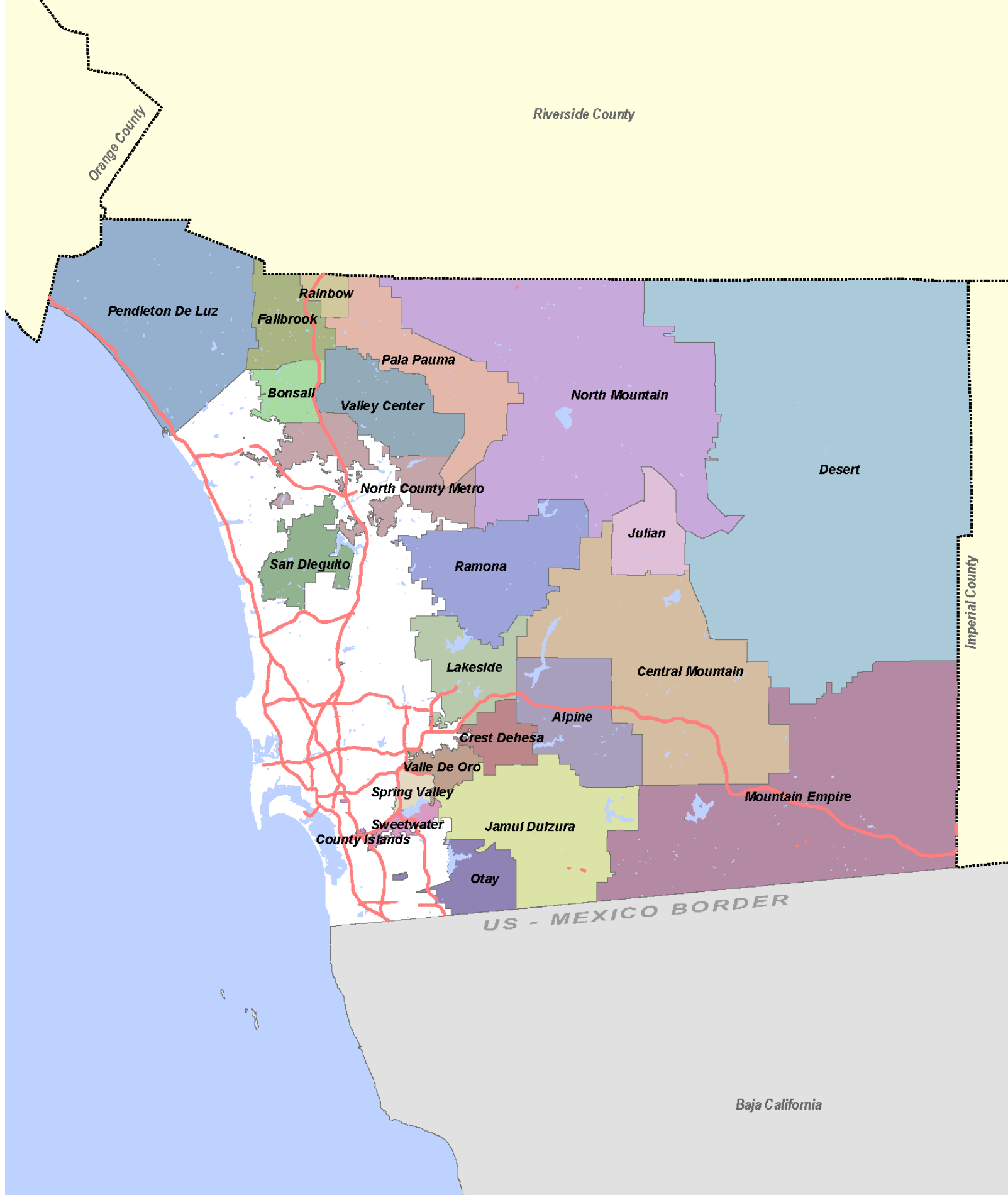


Figure 4-1

County of San Diego Planning Communities

# COLLISION ANALYSIS



## 5.0 COLLISION ANALYSIS

The analysis presented in this chapter is a summary of the collision trends between January 1, 2015, to December 31, 2019.

### Total Collisions

Over the five years between 2015-2019, a total of **16,245 collisions** have occurred. The number of collisions had steadily increased over the first four years but declined in 2019. The highest occurrence of collisions was recorded in 2018 and the lowest in 2015. Over the five years, collisions increased by approximately 18%. See **Figure 5-1**.

### Severe Injury Collision

Over the five years between 2015-2019, a total of **683 severe injury collisions** have occurred. Severe injury collisions are collisions that result in broken bones, dislocated or distorted limbs, and other severe characteristics. It has steadily increased over the five years. The highest occurrence of collisions was recorded in 2019 and the lowest in 2015. Over the five years, severe injury collisions increased by approximately 22%. See **Figure 5-2**.

### Fatal Collisions

Over the five years between 2015-2019, a total of **160 fatal collisions** have occurred. Fatal collisions are collisions that result in a victim's death. It has held steady over the five years. The highest occurrence of fatal collisions was recorded in 2017 and the lowest in 2016. Over the five years, fatal collisions increased by approximately 20%. See **Figure 5-2**.

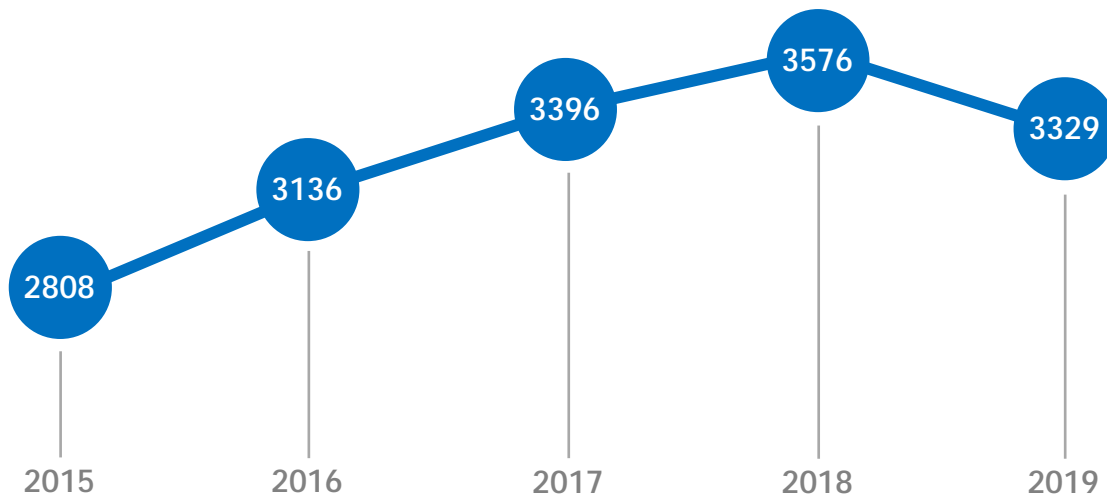


Figure 5-1 Five-Year Total Collision Trend

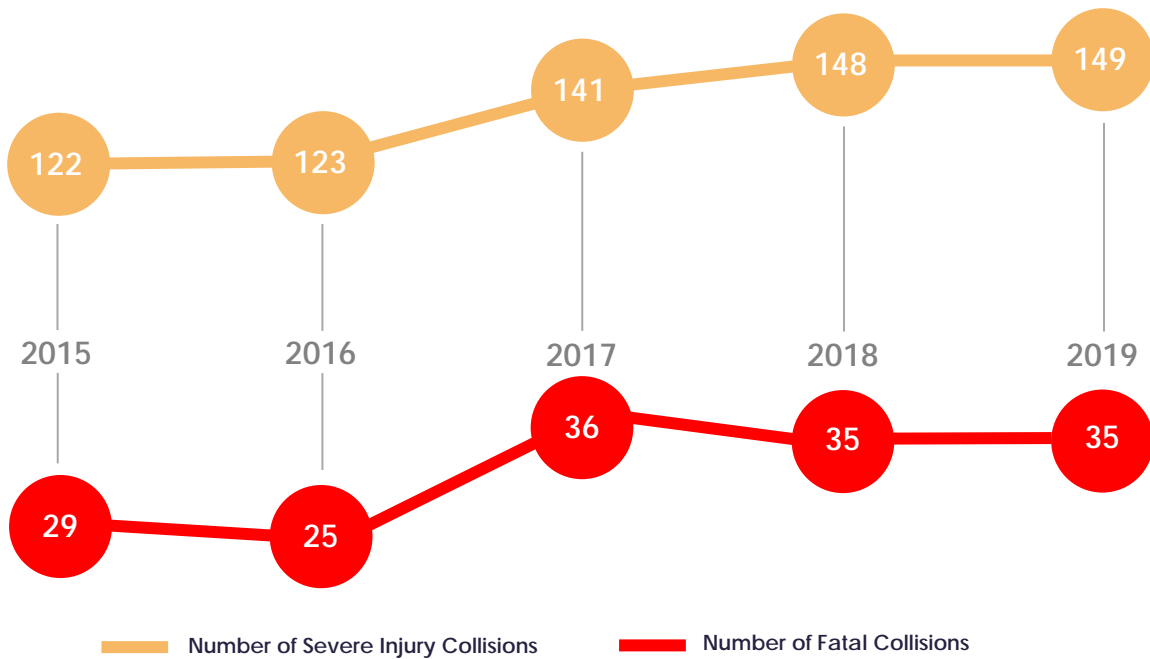


Figure 5-2 Five-Year Fatal and Severe Injury Trends

## Specific Collision Trends

An in-depth review of the collision data revealed the following insights on the collisions that occurred over the five years.

- Collision occurrences tend to be higher on Friday and Saturday.
- Nearly 22% of the collisions occurred between 3:00-6:00 PM.
- Nearly 60% of the collisions were property damage only.
- Nearly 53% of the collision involved another motor vehicle and nearly 29% of the collisions involved a fixed object.
- Nearly 97% of the collisions were a result of a California Vehicle Code violation.
- The top primary collision factor of the collisions are the following:
  - Improper turning (29.7%)
  - Unsafe speeds (22.2%)
  - Automobile right-of-way (15.8%)
  - Operating under the influence (11.8%)
- Nearly 85% of the collision comprise the following types of collisions:
  - Hit object (30.0%)
  - Broadside (20.9%)
  - Rear-end (19.9%)



- Sideswipe (19.9%)
  - Nearly 21% of collisions involved an older driver (65 years or older).
  - Approximately 13% of collisions involved a younger driver (15 to 20 years old).
  - Approximately 2% of collisions involved a pedestrian.
  - Nearly 2% of collisions involved a bicyclist.
  - Nearly 18% of collisions occurred at an intersection. These are collisions that occurred within the intersection footprint or occurred within the intersection influence area of 100 feet.



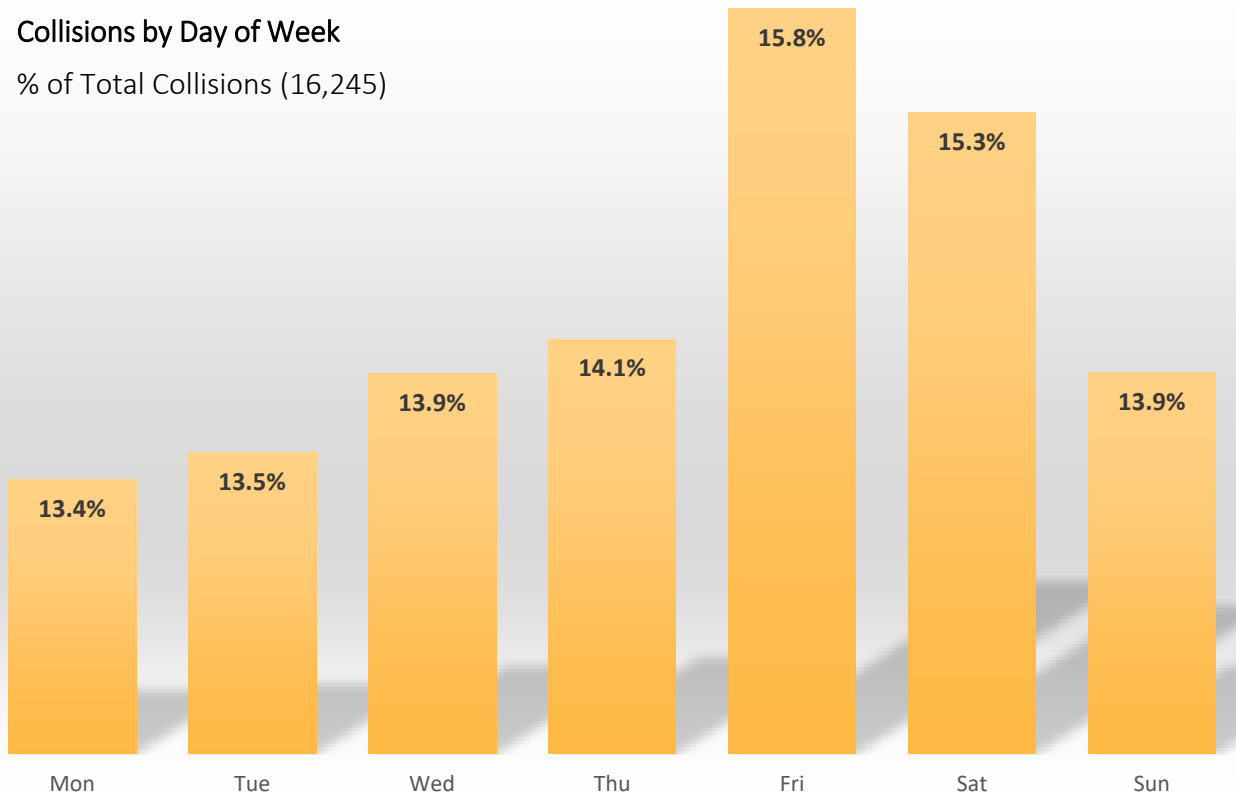
Figure 5-4 graphically details the trends above. Additional queries were also conducted and summarized in **Appendix C**.

## Collision Overview for Communities

Figure 5-5 summarizes the collision overview for each of the 23 community planning areas. **Appendix D** contains a more detailed collision analysis for each community.

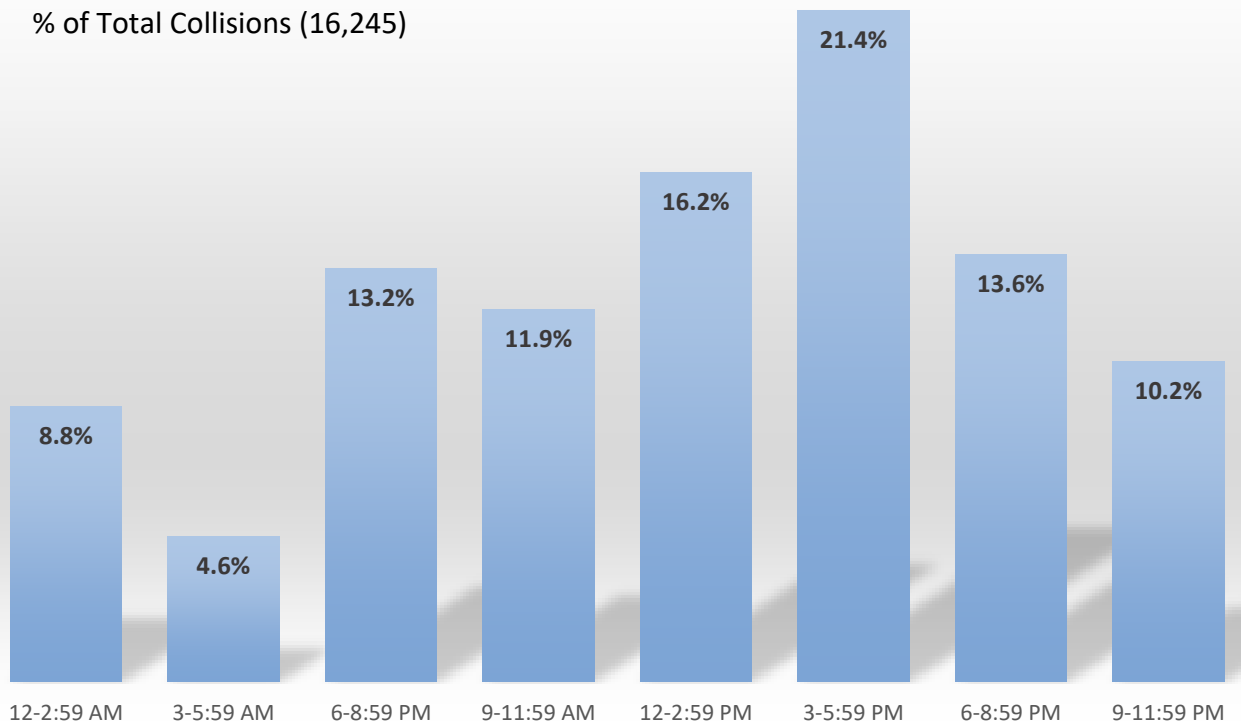
### Collisions by Day of Week

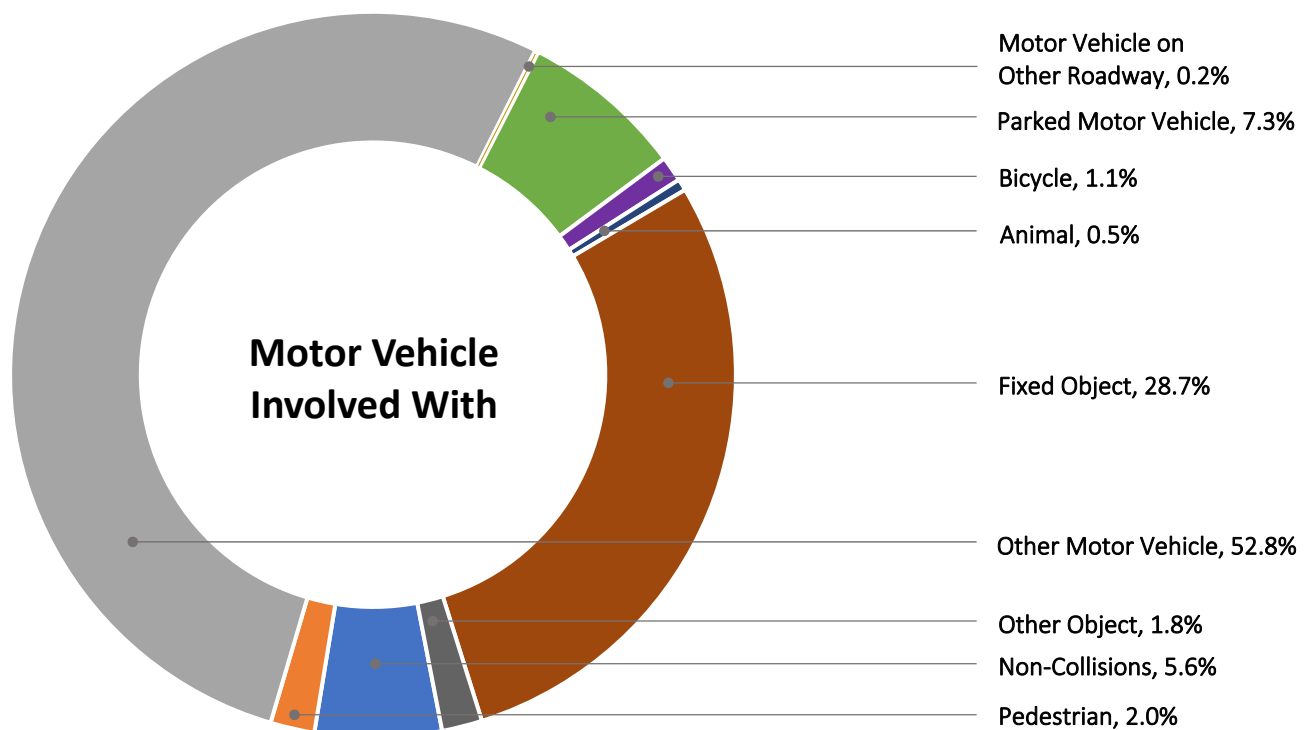
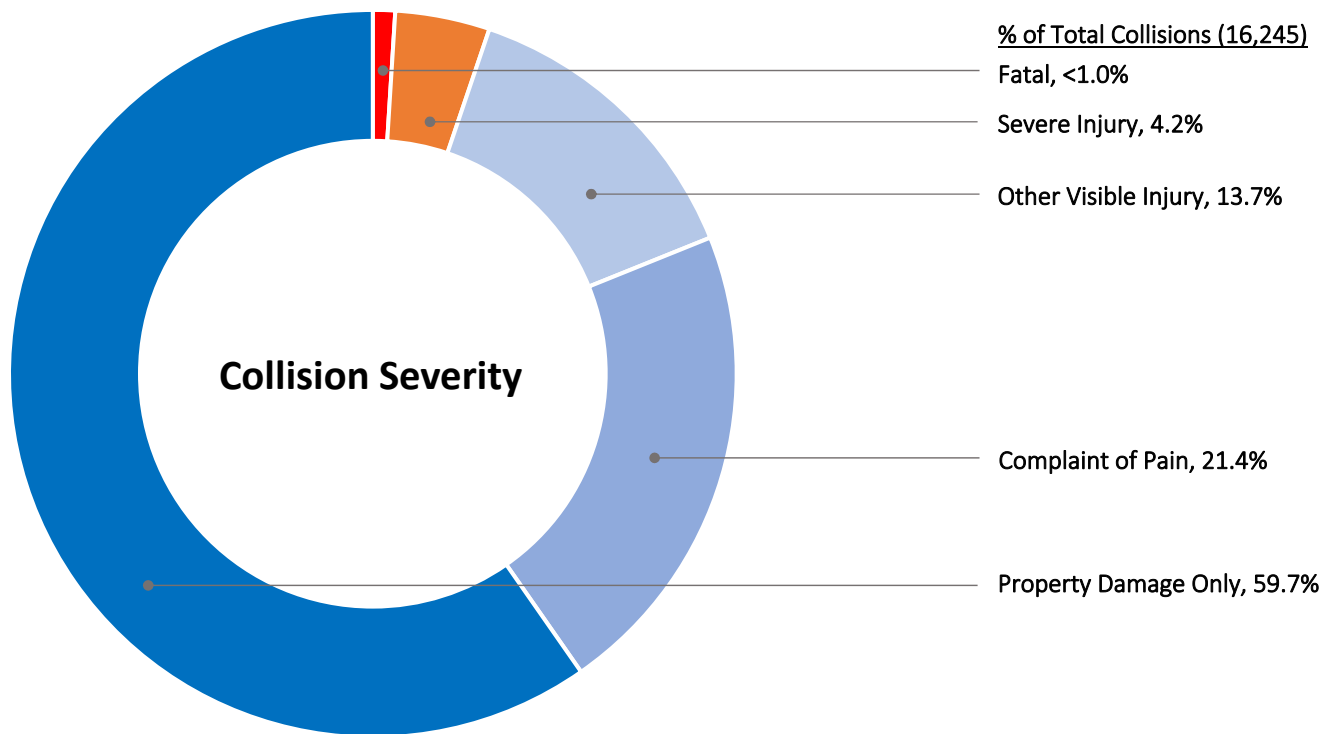
% of Total Collisions (16,245)



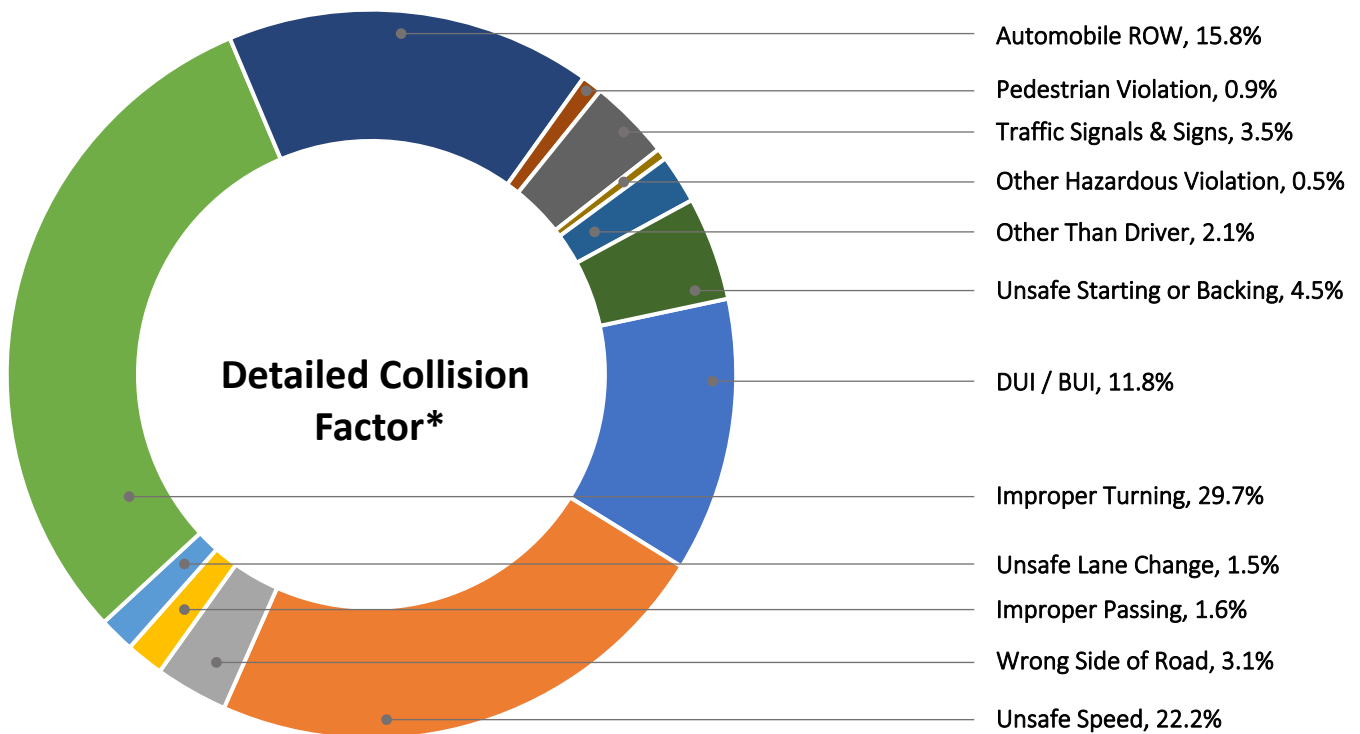
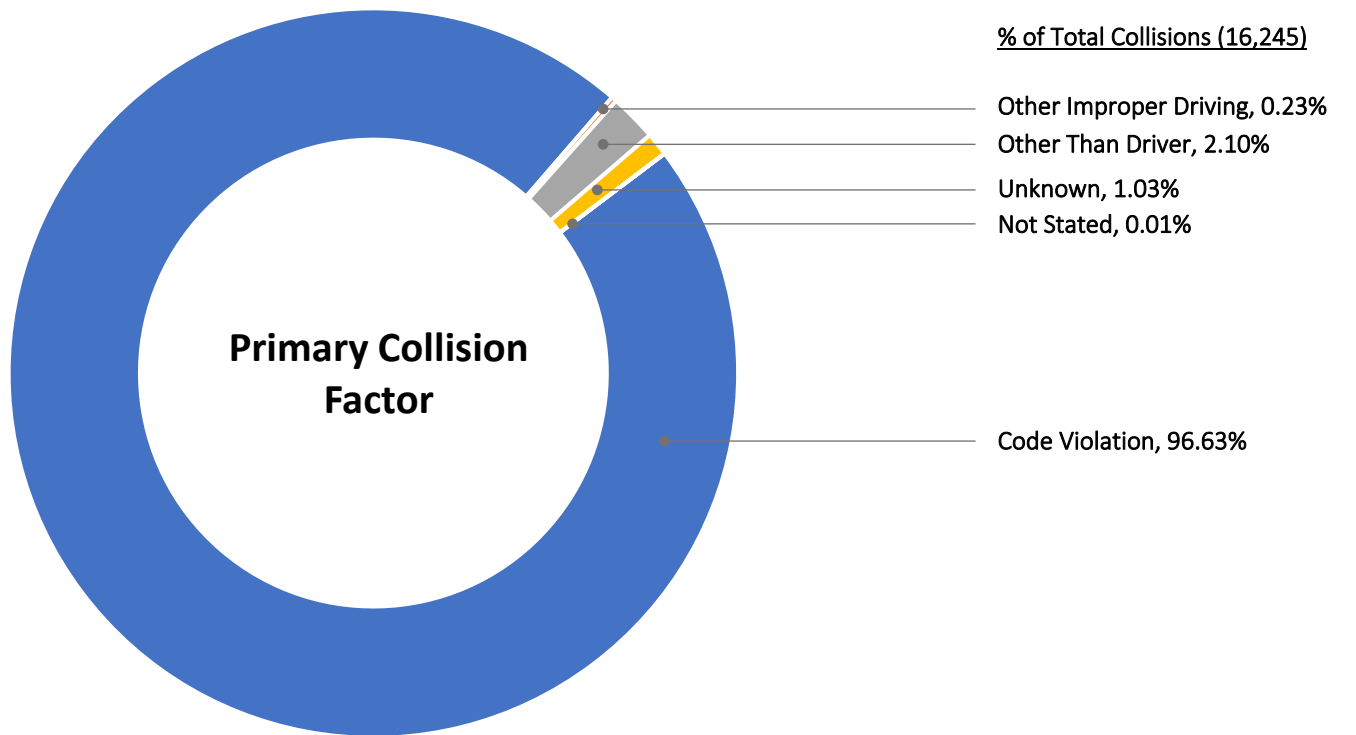
### Collisions by Time of Day

% of Total Collisions (16,245)





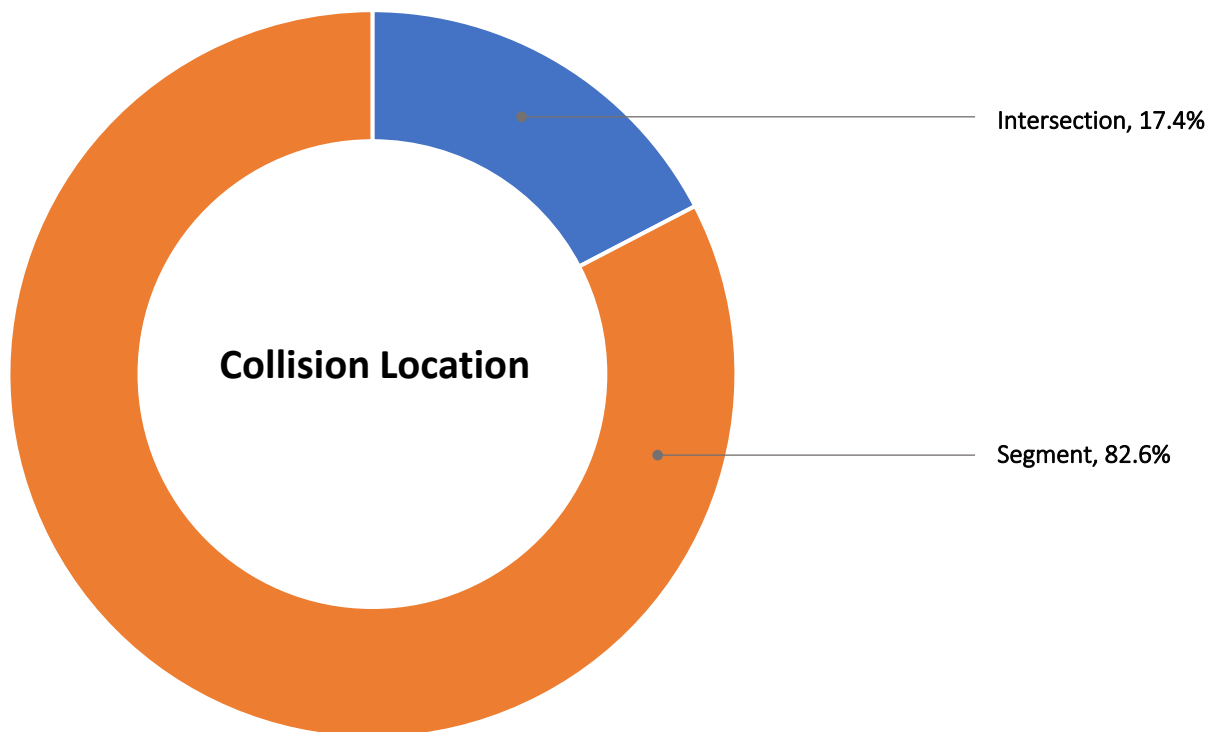
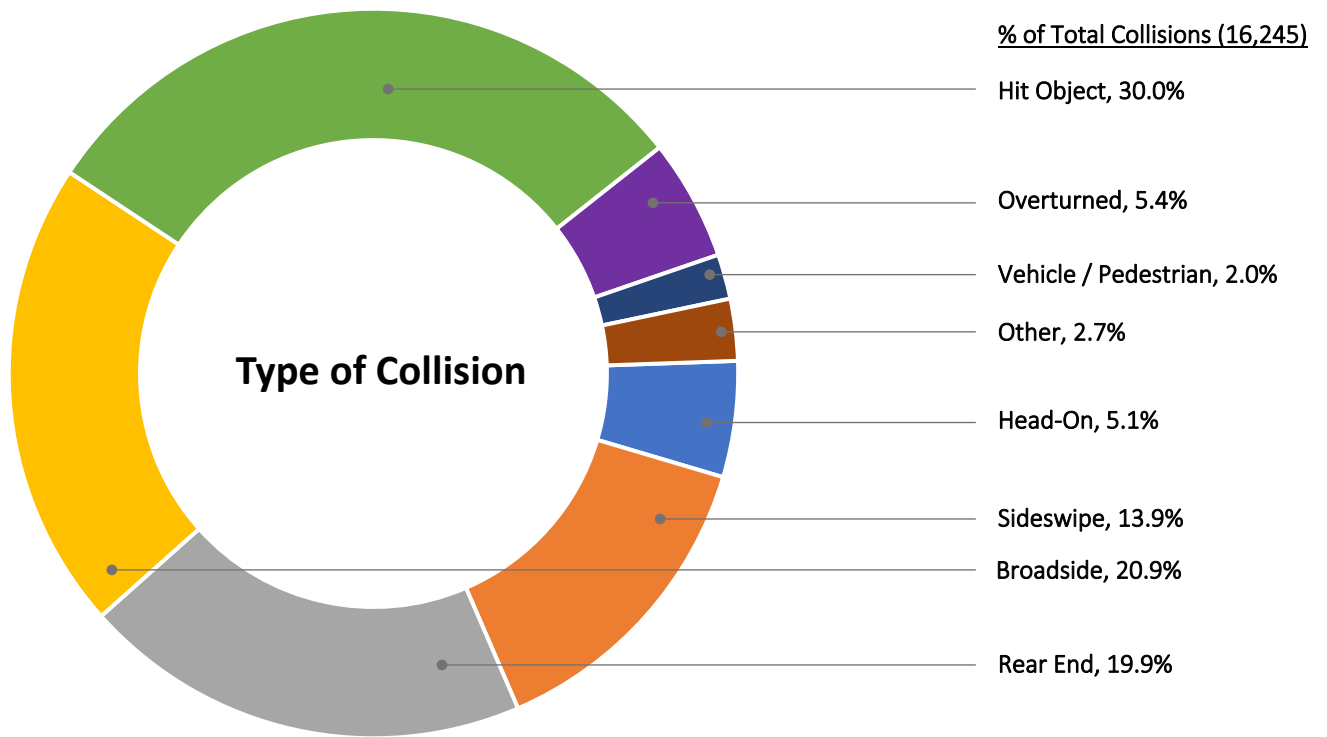
**Figure 5-4**  
**Specific Collision Trends (2 of 4)**



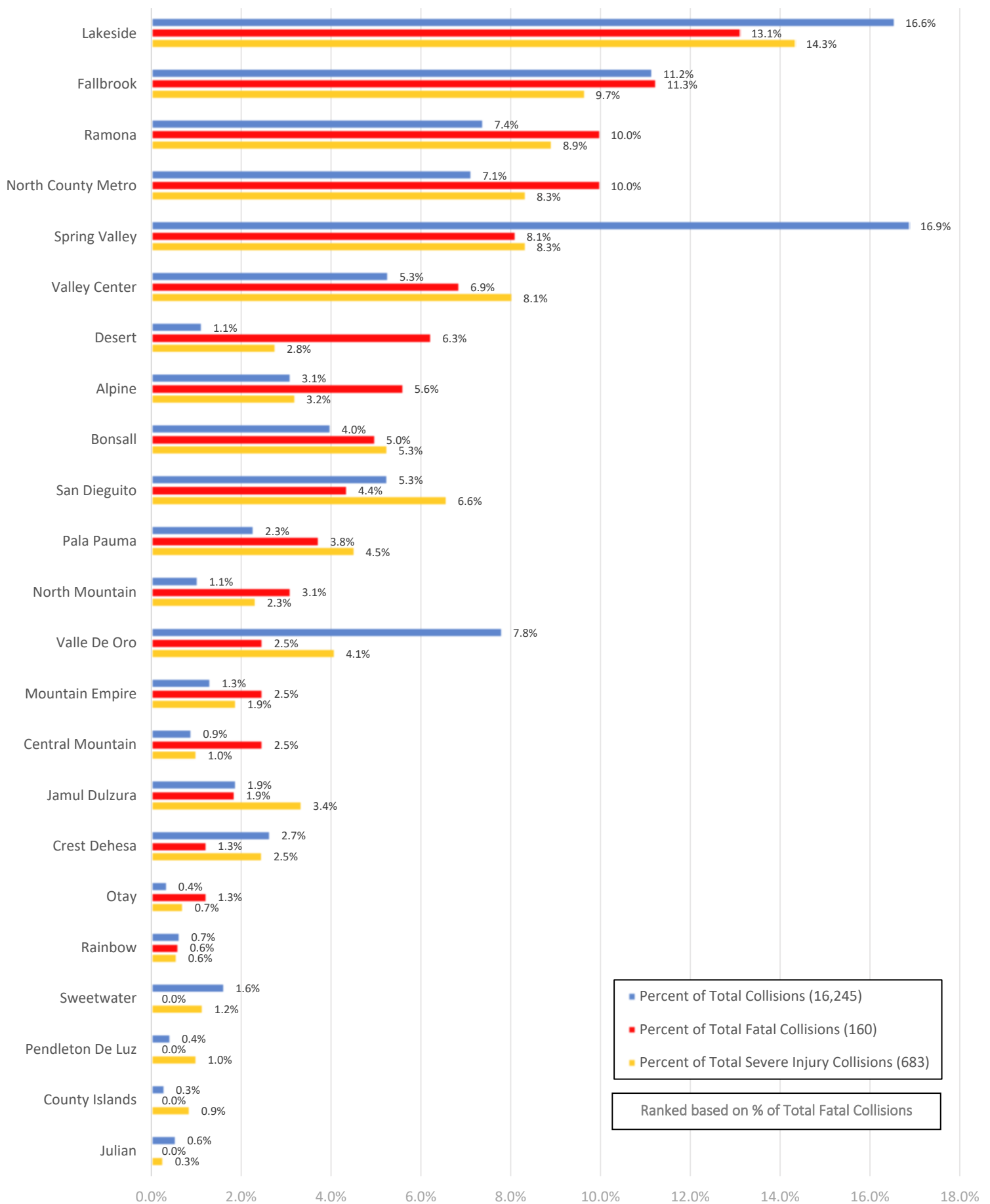
\*Collision factors with <0.5% are not shown

**Figure 5-4**  
**Specific Collision Trends (3 of 4)**





**Figure 5-4**  
**Specific Collision Trends (4 of 4)**



**Figure 5-5**  
**Collision Overview by Community Planning Areas**



# CHALLENGE AREAS & RECOMMENDATIONS





## 6.0 CHALLENGE AREAS & RECOMMENDATIONS

### Challenge Areas

A challenge area (also known as an emphasis area) is an area of opportunity to improve transportation safety. Identification of a challenge area helps focus the recommendations/countermeasures to provide the greatest opportunity for reducing fatal and severe injury collisions. Based on the collision analysis and other metrics, below is a list of the sixteen (16) challenge areas that have been identified specific to the County of San Diego. Each challenge area is described further at the end of the chapter.

#### County Local Roadway Challenge Areas

- Emerging Technologies
- Impaired Drivers
- Aggressive Driving
- Motorcyclists
- Lane Departure
- Emergency Response
- Intersections
- Public Health/Equity
- Occupant Protection
- Pedestrians
- Aging Drivers
- Young Drivers
- Bicyclists
- Commercial Vehicles
- Keeping Drivers Alert
- Work Zones

**Table 6-1** tabulates the collision data by challenge areas. **Figure 6-1** graphically illustrates the collision data by challenge areas and is ranked from highest to lowest based on the total number of fatal and severe injury collisions.

### Relationship to the California Strategic Highway Safety Plan (CA SHSP)

The most current CA SHSP is in effect until 2024. The CA SHSP identifies 16 challenge areas. See **Appendix E** for more information on the CA SHSP's challenge areas. The County's challenge areas align with CA SHSP in all but two categories - Driver Licensing, which is a challenge area identified in the CA SHSP, and Public Health/Equity, which is a challenge area identified in the County LRSP.



## The 4 Es of Safety



Education  
Enforcement  
Engineering  
Emergency Services

In line with the CA SHSP, there are four Es to traffic safety. [Education](#) provides roadway users information about making good choices and about the rules of the road. [Enforcement](#) involves officers engaging with the general public to help prevent and deter roadway users from unsafe behaviors and uphold roadway

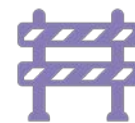
safety laws. [Engineering](#) addresses roadway infrastructure and elements to prevent crashes or reduce the severity of collisions when they occur. [Emergency Response](#) can make all the difference in saving the lives of crash victims through rapid response, securing the collision site, and quality of care.

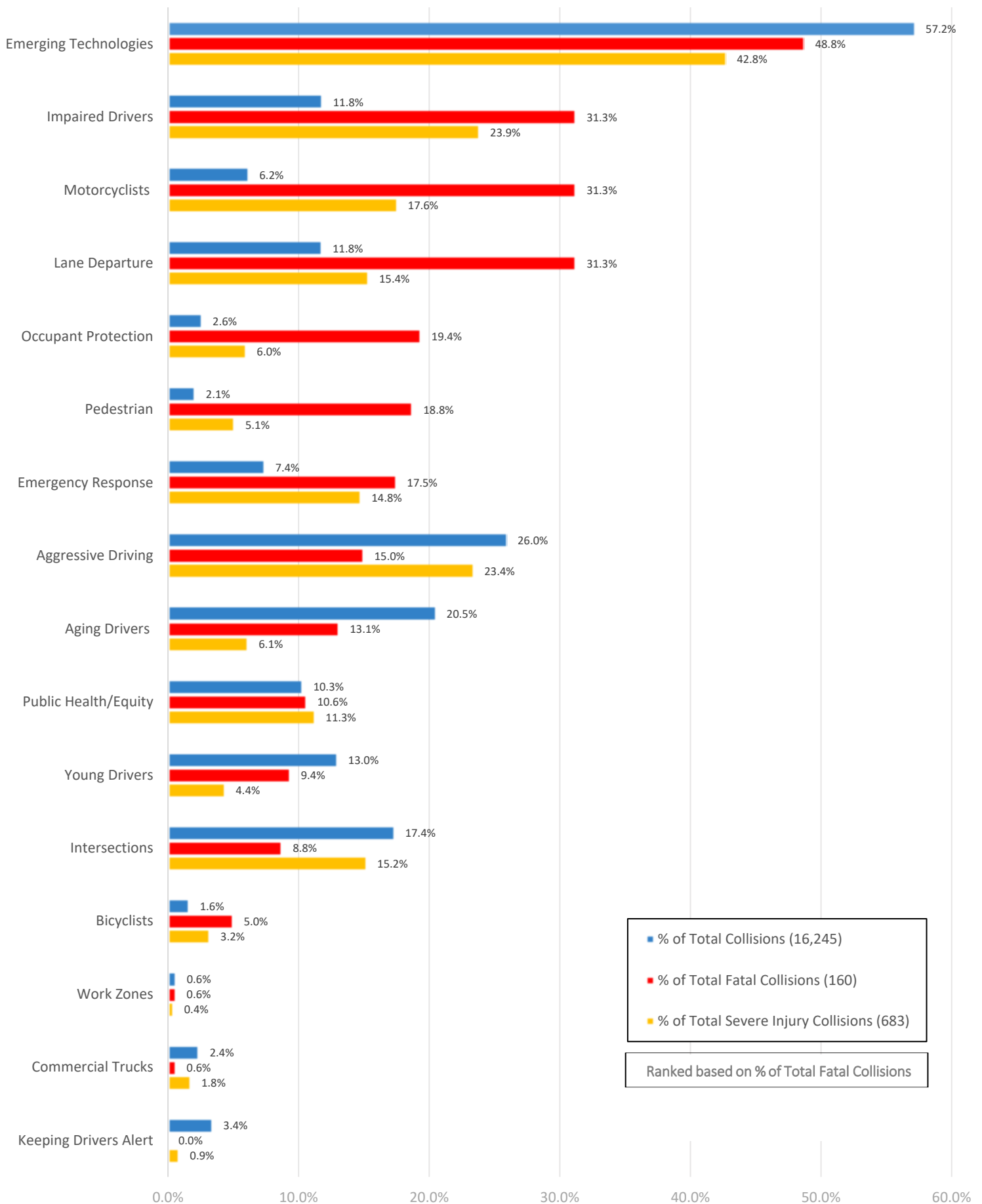
### What is a Countermeasure?

Drawing from the 4Es of safety, a countermeasure is a specific action to improve transportation safety and therefore help decrease the number of fatal and severe injury collisions. A comprehensive approach utilizing the 4 E's of Safety was applied in determining the appropriate countermeasures for each challenge area. This approach recognizes that not all collisions can be addressed solely by infrastructure improvements. Countermeasures can also be behavioral and programmatic/policy changes, such as a public campaign such as "Click it or Ticket."

TABLE 6-1  
COLLISION DATA BY CHALLENGE AREAS

Challenge Area	Number of Collisions							
	Total		Fatal (F)		Severe Injury (SI)		F+SI	
<b>Total Collisions</b>	<b>16245</b>		<b>160</b>		<b>683</b>		<b>843</b>	
<b>Emerging Technologies</b>								
Unsafe Speed	3603	22.2%	22	13.8%	141	20.6%	163	19.3%
Ran off the Road	1395	8.6%	24	15.0%	46	6.7%	70	8.3%
Rear End	3232	19.9%	6	3.8%	38	5.6%	44	5.2%
Unsafe Lane Change	249	1.5%	0	0.0%	1	0.1%	1	0.1%
Collision with Other Object	292	1.8%	0	0.0%	7	1.0%	7	0.8%
Crossed Into Opposing Lane	523	3.2%	26	16.3%	59	8.6%	85	10.1%
TOTAL	9294	57.2%	78	48.8%	292	42.8%	370	43.9%
<b>Impaired Drivers</b>	1923	11.8%	50	31.3%	163	23.9%	213	25.3%
<b>Aggressive Driving</b>								
Unsafe Speed	3603	22.2%	22	13.8%	141	20.6%	163	19.3%
Following Too Closely	45	0.3%	0	0.0%	1	0.1%	1	0.1%
Traffic Signals and Signs	571	3.5%	2	1.3%	18	2.6%	20	2.4%
TOTAL	4219	26.0%	24	15.0%	160	23.4%	184	21.8%
<b>Motorcyclists</b>	1007	6.2%	50	31.3%	120	17.6%	170	20.2%
<b>Intersections</b>	2820	17.4%	14	8.8%	104	15.2%	118	14.0%
<b>Occupant Protection</b>								
Unrestrained Occupants	298	1.8%	25	15.6%	29	4.2%	54	6.4%
Helmet Not Used	128	0.8%	6	3.8%	12	1.8%	18	2.1%
TOTAL	426	2.6%	31	19.4%	41	6.0%	72	8.5%
<b>Lane Departure</b>								
Crossed Into Opposing Lane	523	3.2%	26	16.3%	59	8.6%	85	10.1%
Ran off the Road	1395	8.6%	24	15.0%	46	6.7%	70	8.3%
TOTAL	1918	11.8%	50	31.3%	105	15.4%	155	18.4%
<b>Pedestrians</b>	341	2.1%	30	18.8%	35	5.1%	65	7.7%
<b>Aging Drivers</b>	3336	20.5%	21	13.1%	42	6.1%	63	7.5%
<b>Young Drivers</b>	2112	13.0%	15	9.4%	30	4.4%	45	5.3%
<b>Bicyclists</b>	267	1.6%	8	5.0%	22	3.2%	30	3.6%
<b>Commercial Trucks</b>	389	2.4%	1	0.6%	12	1.8%	13	1.5%
<b>Keeping Drivers Alert</b>								
Fell Asleep	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Distracted	559	3.4%	0	0.0%	6	0.9%	6	0.7%
TOTAL	559	3.4%	0	0.0%	6	0.9%	6	0.7%
<b>Work Zones</b>	103	0.6%	1	0.6%	3	0.4%	4	0.5%
<b>Emergency Response</b>	1204	7.4%	28	17.5%	101	14.8%	129	15.3%
<b>Public Health/Equity</b>	1678	10.3%	17	10.6%	77	11.3%	94	11.2%





**Figure 6-1**  
**Ranked Challenge Areas**

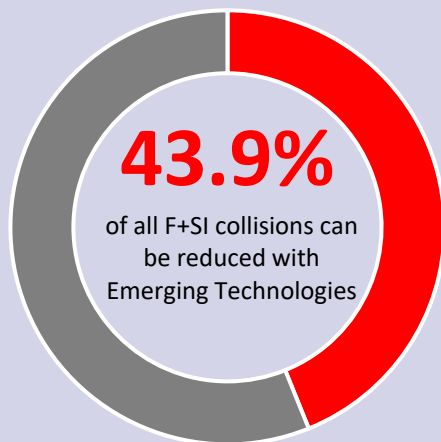


# Emerging Technologies



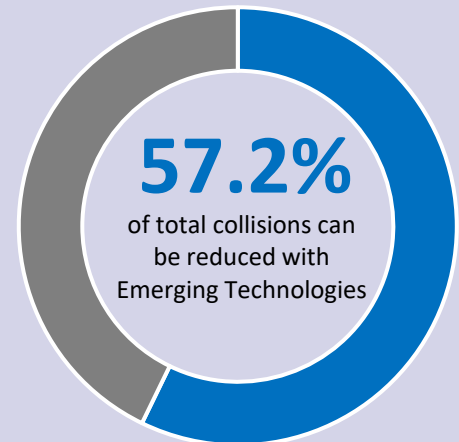
**Emerging Technologies** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on in-roadway technologies and the infrastructure to support advancing technologies to prevent collisions. Collisions caused by drivers traveling at unsafe speeds, running off the roadway, rear-ending other vehicles, making unsafe lane changes, colliding with roadside objects, and crossing into opposing lanes are collision types that can be reduced with emerging technologies. See **Appendix J** for more information on Emerging Technologies.

Percent & Number of Fatalities + Severe Injuries



370 of all F+SI collisions could be reduced with Emerging Technologies

Percent & Number of Total



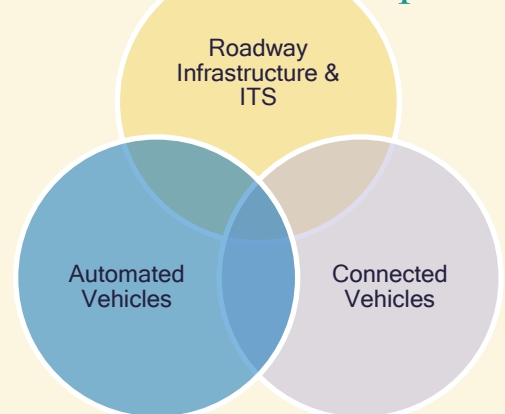
9,294 of total collisions could be reduced with Emerging Technologies

## Recommendations:

- Develop an Intelligent Transportation System/Transportation System Management and Operations (ITS/TSM&O) master plan that details how emerging technologies can be integrated into the roadway network to communicate to drivers or automated/connected vehicles to help motorists travel safely on County roads.
- Identify implementable best practices to support emerging technologies and ensure that they are reflected in roadway design processes, standards, and guidelines.
- Pursue grant funding to develop the ITS/TSM&O Master Plan as well as grant funding to identify specific corridors as ITS opportunity area

See **Appendix F** of the LRSP report for more information.

## System Interrelationship







# Impaired Drivers



Impaired Drivers is a County of San Diego Local Roadway Safety Plan challenge area that focuses on collisions where the operator of a motor vehicle or bicycle was under the influence of alcohol or drugs.



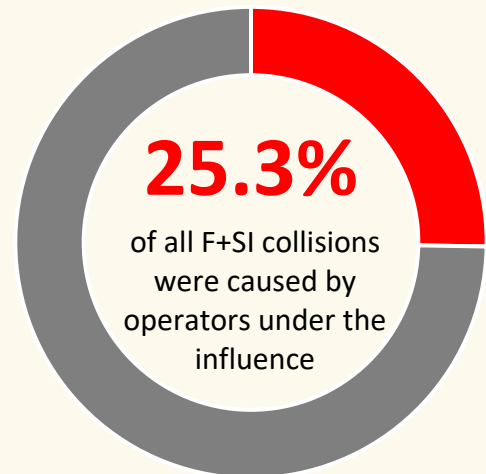
## Recommendations:

Continue to monitor, invest, and assess effective ways to prevent driving under the influence and repeat offenders, such as the following:

- High visibility patrol, targeted saturation patrols, and checkpoints
- Training/classes for patrol offices
- Educational, public awareness, outreach efforts
- Assessment, intervention, and treatment programs
- Collaboration efforts
- Alcohol/cannabis sales compliance and service training
- Laws and consequences

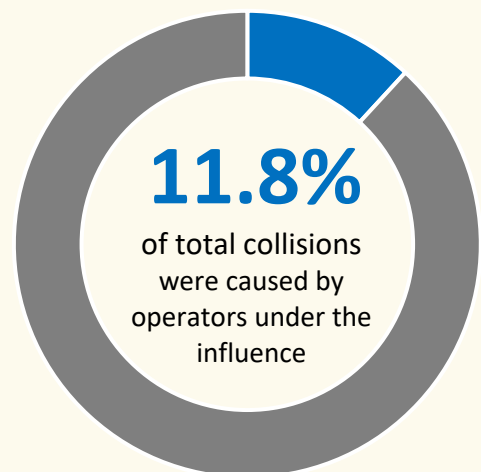
See **Appendix F** of the LRSP report for more information.

## Percent & Number of Fatalities + Severe Injuries



213 of all F+SI collisions were caused by operators under the influence

## Percent & Number of Total



1,923 of total collisions were caused by operators under the influence

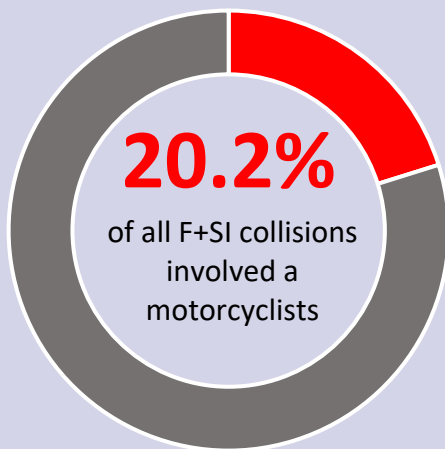


# Motorcyclists



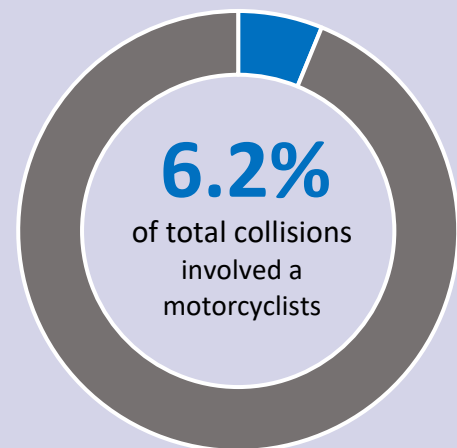
**Motorcyclists** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on collisions involving a motorcyclist.

Percent & Number of Fatalities + Severe Injuries



170 of all F+SI collisions were caused  
by operators under the influence

Percent & Number of Total



1,007 of total collisions were caused  
by operators under the influence

## Recommendations:

- Continue to monitor, invest, and assess effective law enforcement efforts to prevent motorcycle collisions.
- Assess and evaluate effective ways to enhance awareness and deter behaviors on the road, such as the following:
  - Educational, public awareness, and outreach efforts
  - Partnerships and programs
- Conduct an engineering study to further assess and identify issues related to this challenge area. The study should establish a framework to apply appropriate countermeasures for the study segment and proactively along segments with similar characteristics throughout the County.



See **Appendix F** of the LRSP report for more information



# Lane Departure



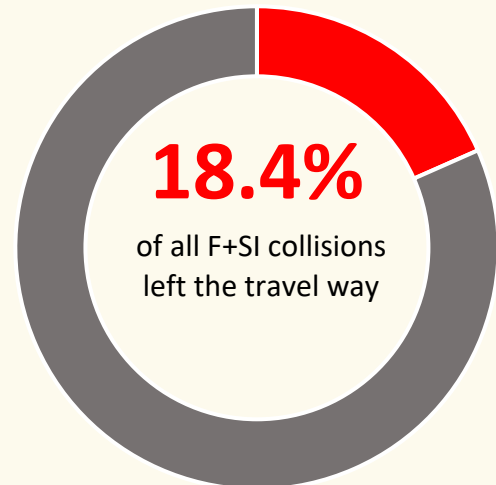
**Lane Departure** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on collisions involving vehicles leaving the travel way. Collisions preceded by drivers crossing into the opposing lane or running off the roadway are types of lane departures.

## *Recommendations:*

- Develop an Intelligent Transportation System/Transportation System Management and Operations (ITS/TSM&O) master plan that details how emerging technologies can be integrated into the roadway network to communicate to drivers or automated/connected vehicles of potential lane departure hazards.
- Conduct an engineering study for several segments to further assess and identify issues related to this challenge area. Establish a framework to apply appropriate countermeasures for the segments and proactively throughout the County.

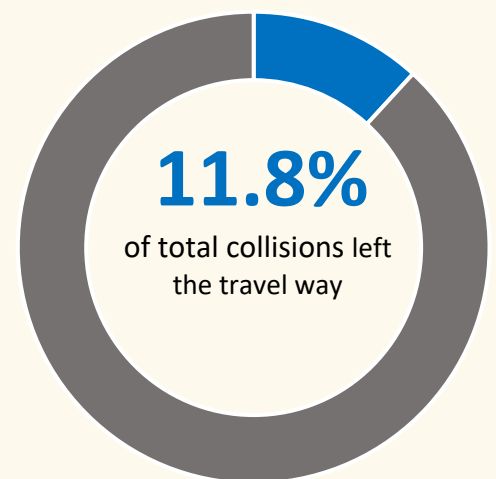
See **Appendix F** of the LRSP report for more information

## Percent & Number of Fatalities + Severe Injuries



155 of all F+SI collisions were lane departures

## Percent & Number of Total



1,918 of total collisions were lane departures

# Occupant Protection

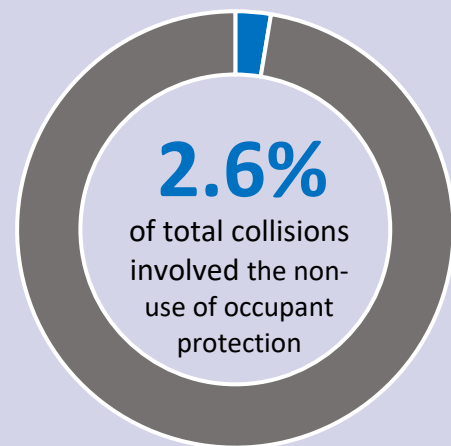
**Occupant Protection** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on collisions involving the non-use or lack of safety equipment - particularly restraints in vehicles and helmets for bicyclists and motorcyclists.

Percent & Number of Fatalities + Severe Injuries



72 of all F+SI collisions involved the use of non-use of occupant protection

Percent & Number of Total



426 of total collisions involved the use of non-use of occupant protection

## Recommendations:

- Assess and evaluate effective ways to enhance awareness and deter behaviors, such as the following:
  - Educational, public awareness, outreach efforts
  - Partnerships and programs
- Continue to monitor, invest, and assess effective ways to increase California Vehicle Code compliance, prevent collisions, and deter behaviors associated with this challenge area.

See **Appendix F** of the LRSP report for more information







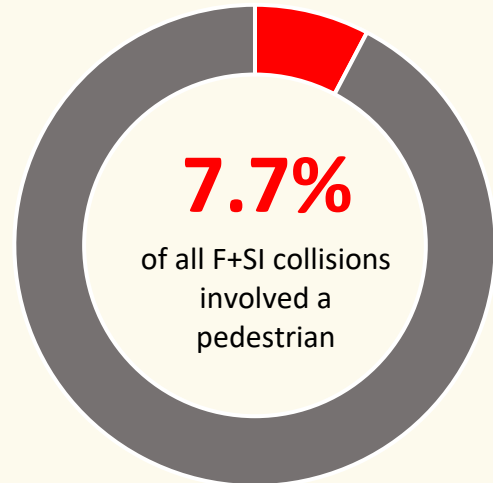
# Pedestrians



**Pedestrians** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on motor vehicles involved in a collision with a pedestrian.



## Percent & Number of Fatalities + Severe Injuries



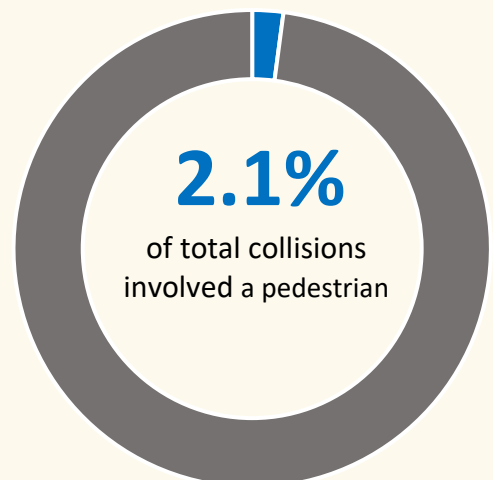
65 of all F+SI collisions involved a pedestrian

## Recommendations:

- Develop and implement a complete streets checklist to ensure that pedestrian standards, goals, objectives, guidelines, and actions are implemented.
- Conduct an engineering study to further assess and identify issues related to this challenge area. Establish a framework to apply appropriate countermeasures proactively throughout the County.
- Assess and evaluate effective ways to enhance awareness and deter behaviors on the road, such as the following:
  - Educational, public awareness, outreach efforts
  - Partnerships and programs

See **Appendix F** of the LRSP report for more information

## Percent & Number of Total



341 of total collisions involved a pedestrian

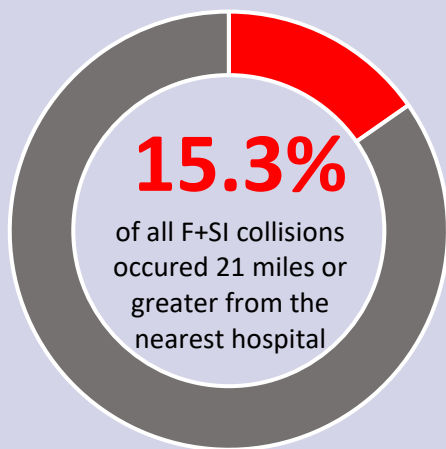


# Emergency Response



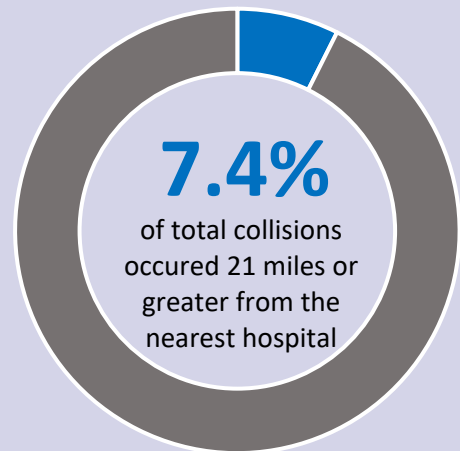
**Emergency Response** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on rapid transportation of victims to a hospital/trauma center. This challenge area pertains to collisions occurring 21 miles or further from the nearest hospital.

Percent & Number of Fatalities + Severe Injuries



129 of all F+SI collisions occurred 21 miles or greater from the nearest hospital

Percent & Number of Total



1,204 of total collisions 21 miles or greater from the nearest hospital

## Recommendations:

- Develop an Intelligent Transportation System/Transportation System Management and Operations (ITS/TSM&O) master plan that details how emerging technologies can be integrated into the roadway network to communicate with motorists in the event of emergency response conditions on the road.
- Identify best practices to help reduce emergency response times and ensure that they are reflected in emergency response operations or roadway design processes, standards, and guidelines.
- Incorporate roadway design processes and ITS/TSM&O elements in a future County of San Diego/Community level evacuation plan.
- Implement existing County policies related to emergency response and hospital facility locations such as policies in the General Plan Safety Element



See Appendix F of the LRSP report for more information.



# Aggressive Driving



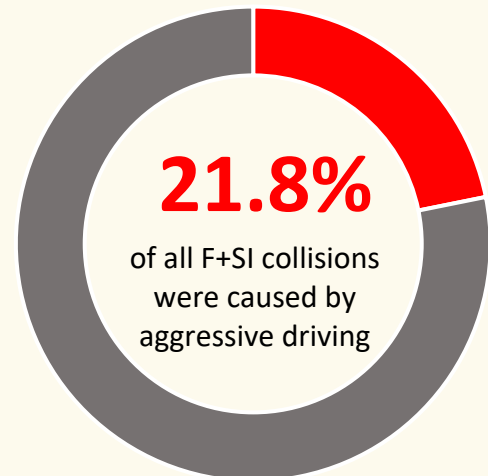
**Aggressive Driving** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on aggressive driving behaviors such as unsafe speeds, following too closely, and failure to heed traffic control devices.

## *Recommendations:*

- Develop an Intelligent Transportation System/Transportation System Management and Operations (ITS/TSM&O) master plan that details how emerging technologies can be integrated into the roadway network to communicate to drivers or automated/connected vehicles to help reduce aggressive driving.
- Assess and evaluate effective ways to enhance awareness and deter behaviors on the road, such as the following:
  - Engage with law enforcement officers on implementing best practices.
  - Educational, public awareness, outreach efforts
  - Partnerships and programs
  - Law and consequences
- Conduct an engineering study for several segments to further assess and identify issues related to this challenge area. Establish a framework to apply appropriate countermeasures for the segments and proactively throughout the County.

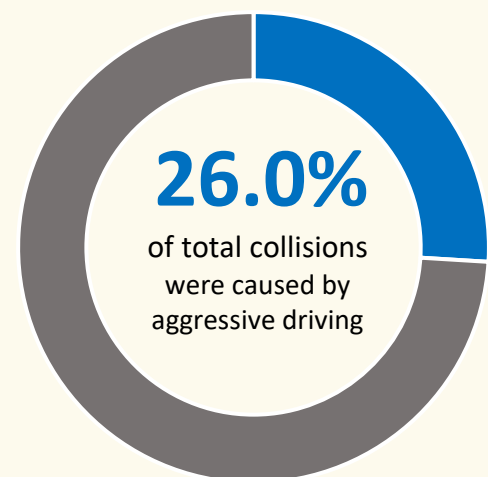
See **Appendix F** of the LRSP report for more information.

## Percent & Number of Fatalities + Severe Injuries



184 of all F+SI collisions were caused  
by aggressive driving 370 of all F+SI

## Percent & Number of Total



4,219 of total collisions were caused by  
aggressive driving

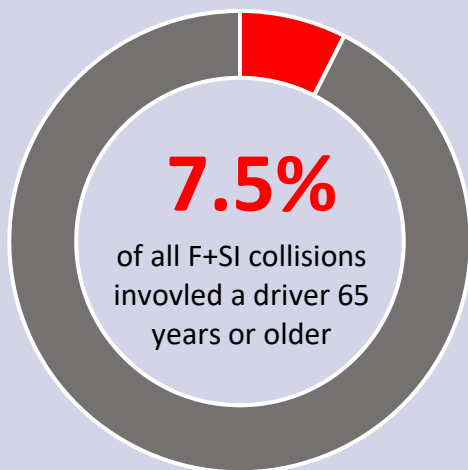


# Aging Drivers



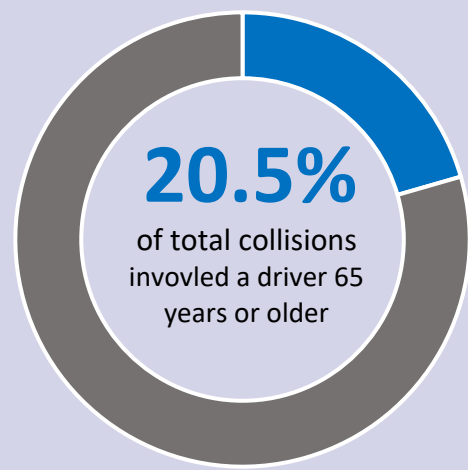
**Aging Drivers** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on collisions that involve a driver 65 years or older.

Percent & Number of Fatalities + Severe Injuries



63 of all F+SI collisions involved a  
driver 65 years or older

Percent & Number of Total



3,336 of total collisions involved a  
driver 65 years or older

## Recommendations:

- Identify best practices to help reduce aging driving-related collisions and ensure that they are reflected in the roadway design processes, standards, and guidelines.
- Assess the need for partnership between County departments and/or private organizations to expand communications, outreach, educational programs, and mobility options for aging drivers.
- Consider safety in ongoing and existing planning efforts and implement existing County policies.



See **Appendix F** of the LRSP report for more information.





## Public Health/Equity



**Public Health/Equity** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on improving transportation safety for areas in underserved areas. This challenge area pertains to collisions that occurred in areas with a Healthy Places Index in the lower quarter percentile.

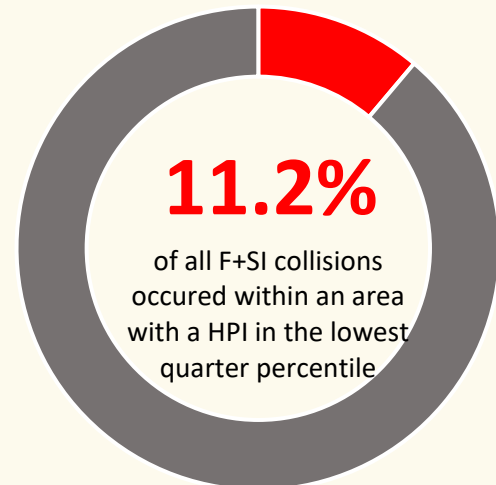


### **Recommendation:**

- Continue to utilize the Healthy Places Index in making transportation engineering and planning-related decisions for underserved areas of the County of San Diego.

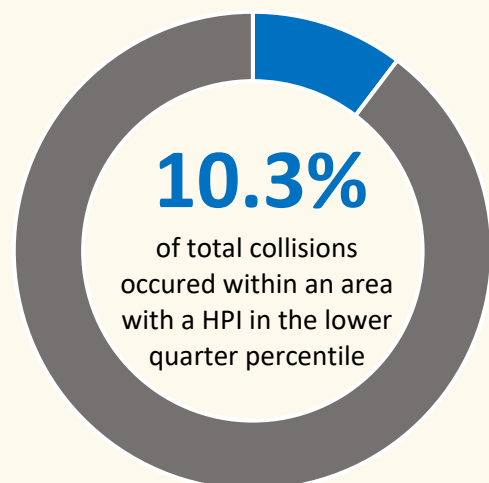
Appendix F of the LRSP report for more information.

### Percent & Number of Fatalities + Severe Injuries



94 of all F+SI collisions occurred within an area with a HPI in the lower quarter percentile

### Percent & Number of Total



1,678 of total collisions occurred within an area with a HPI in the lower quarter percentile

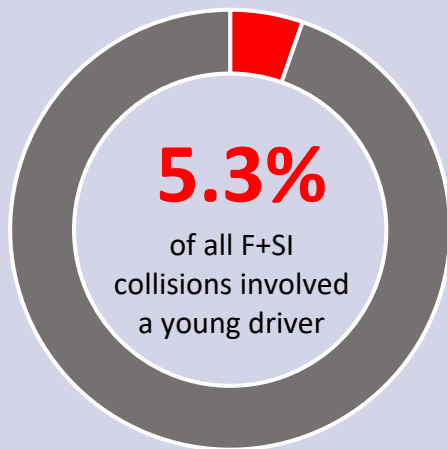


# Younger Drivers



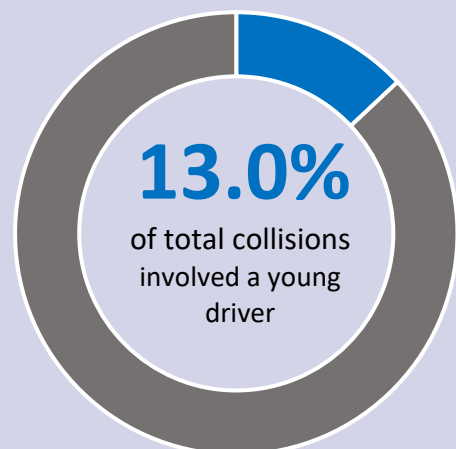
**Younger Drivers** is a County of San Diego LRSP challenge area that focuses on collisions that involve a driver 15 to 20 years of age.

## Percent & Number of Fatalities + Severe Injuries



45 of all F+SI collisions involved a young driver

## Percent & Number of Total



2,112 of total collisions involved a young driver

### *Recommendations:*

- Research, assess, and evaluate effective ways to enhance awareness, increase California Vehicle Code compliance, and deter behaviors on the road, such as the following:
  - Educational, public awareness, outreach efforts
  - Partnerships and programs
  - Laws and consequences

See **Appendix F** of the LRSP report for more information.





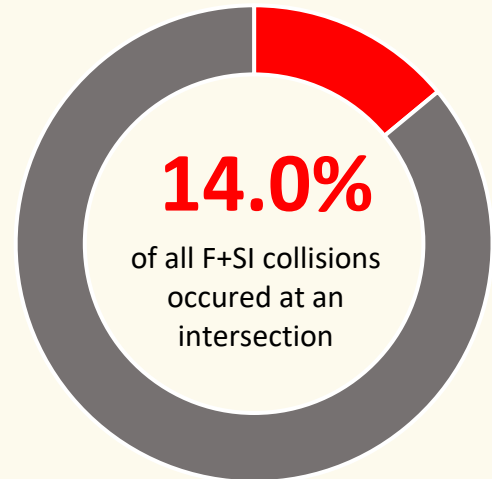
# Intersections



Intersections is a County of San Diego Local Roadway Safety Plan challenge area that focuses on collisions within or the sphere of influence of an intersection.



## Percent & Number of Fatalities + Severe Injuries



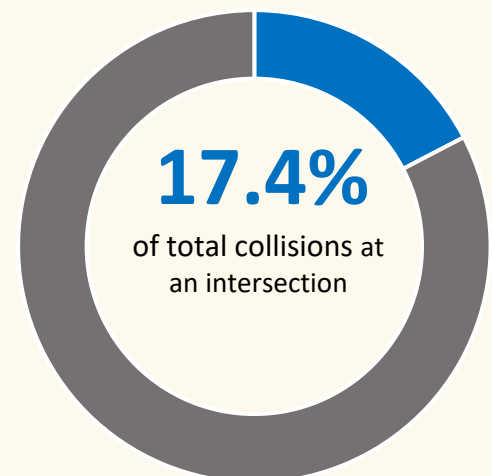
118 of all F+SI collisions occurred at an intersection

### *Recommendations:*

- Develop an ITS/TSM&O master plan that details how emerging technologies can be integrated into the roadway network to communicate to drivers or automated/connected vehicles of conflict areas at intersections.
- Apply for grants to complete roadway safety assessments, such as road safety audits, in a systematic way using the ranked list provided in **Appendix G**.

**Appendix F** of the LRSP report for more information.

## Percent & Number of Total



2,820 of total collisions occurred at an intersection

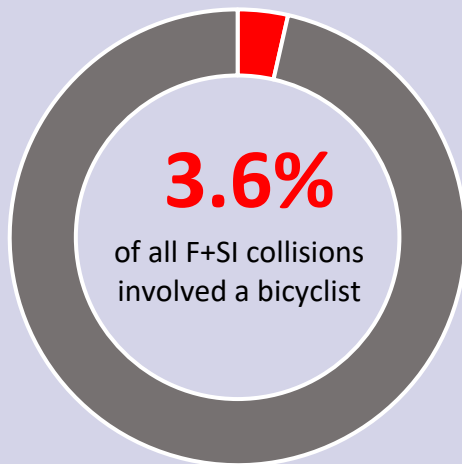


# Bicyclists



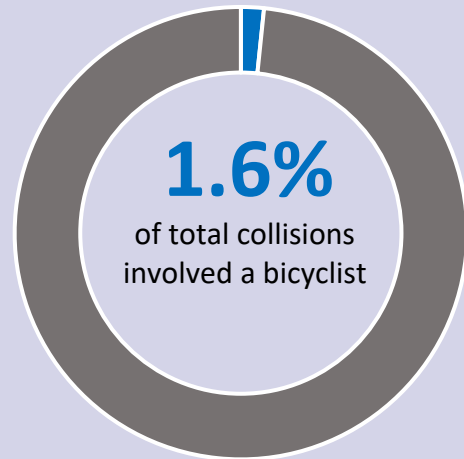
**Bicyclists** is a County of San Diego LRSP challenge area that focuses on motor vehicles involved in a collision with a bicyclist.

Percent & Number of Fatalities + Severe Injuries



30 of all F+SI collisions involved a bicyclist

Percent & Number of Total



267 of total collisions involved a bicyclist

## Recommendations:

- Develop and implement a complete streets checklist to ensure that bicyclist standards, goals, objectives, guidelines, and actions are implemented.
- Conduct an engineering study to further assess and identify issues related to this challenge area. Establish a framework to apply appropriate countermeasures proactively throughout the County.
- Assess and evaluate effective ways to enhance awareness, increase California Vehicle Code compliance, and deter behaviors on the road, such as the following:
  - Educational, public awareness, outreach efforts
  - Engaging with law enforcement officers
  - Partnerships and programs



See **Appendix F** of the LRSP report for more information.





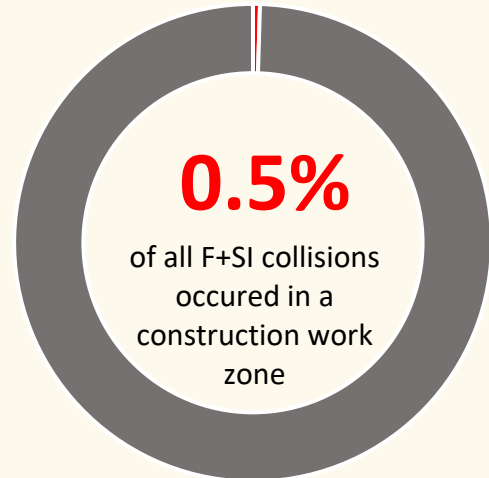
# Work Zones



**Work Zones** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on collisions that occur in a construction zone.



## Percent & Number of Fatalities + Severe Injuries



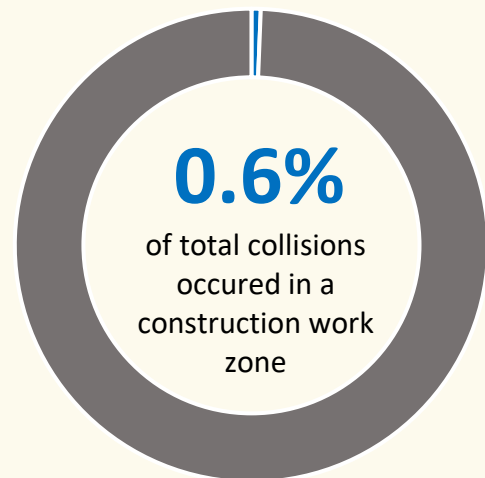
4 of all F+SI collisions occurred within a construction work zone

### Recommendations:

- Identify implementable best practices to reduce collisions within work zones and ensure that they are reflected in traffic control design processes, standards, and guidelines.
- Continue to monitor and invest in effective ways to increase California Vehicle Code compliance, prevent collisions, and deter undesirable behaviors within the work zone.

Appendix F of the LRSP report for more information.

## Percent & Number of Total



103 of total collisions occurred within a construction work zone

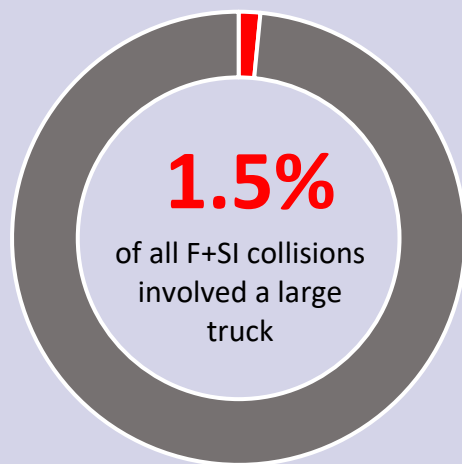


# Commercial Trucks



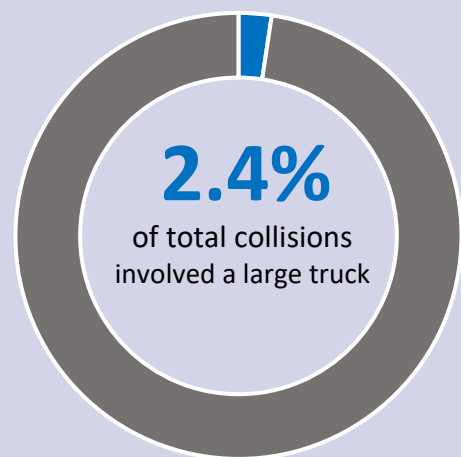
**Commercial Trucks** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on motor vehicles involved in a collision with a large truck.

## Percent & Number of Fatalities + Severe Injuries



13 of all F+SI collisions involved a large truck

## Percent & Number of Total



389 of total collisions involved a large truck

### *Recommendations:*

- Identify implementable best practices for the County to help reduce commercial truck collisions and ensure that they are reflected in roadway design processes, standards, and guidelines.
- Assess and evaluate effective ways to enhance awareness and deter behaviors on the road, such as the following:
  - Educational, public awareness, outreach efforts
  - Partnerships and programs



See **Appendix F** of the LRSP report for more information.



## Keeping Drivers Alert



**Keeping Drivers Alert** is a County of San Diego Local Roadway Safety Plan challenge area that focuses on collisions involving driver inattention. This challenge area pertains to collisions of distracted drivers and drivers who fell asleep.



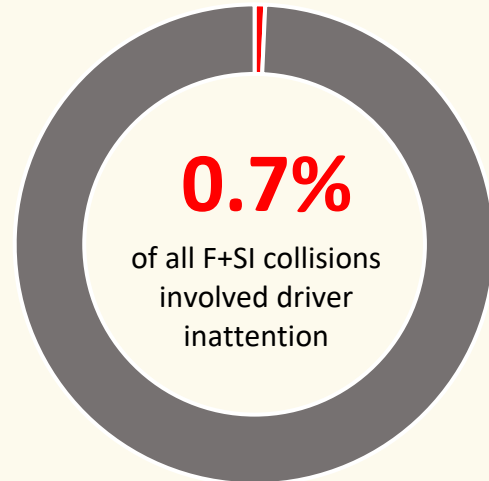
### ***Recommendations:***

Continue to monitor, evaluate and invest in effected ways to increase California Vehicle Code compliance, enhance awareness, prevent collisions, and deter behavior, such as the following:

- Educational, public awareness, outreach efforts
- Engage with law enforcement officers
- Partnerships and programs
- Laws and consequences

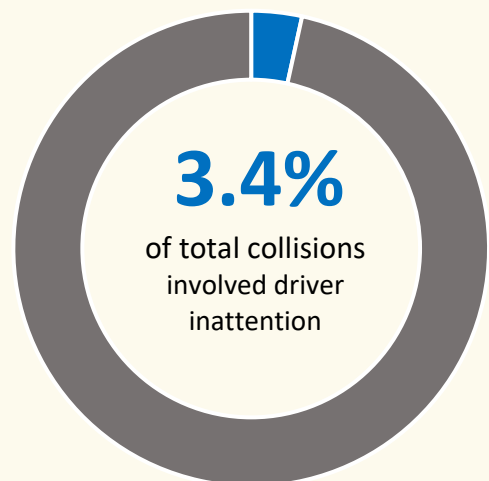
Appendix F of the LRSP report for more information.

### Percent & Number of Fatalities + Severe Injuries



6 of all F+SI collisions involved driver inattention

### Percent & Number of Total



559 of total collisions involved driver inattention



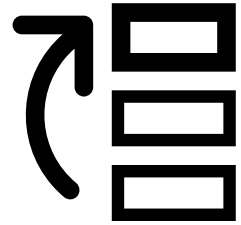
# PRIORITY INTERSECTION/SEGMENT SELECTION





## 7.0 PRIORITY INTERSECTION/SEGMENT SELECTION

A typical approach to determining the priority intersection and segment locations for targeted assessment and improvements to enhance transportation safety is to determine high-risk locations based on a criterion, such as intersections or segments with the highest collision frequency. A more encompassing approach was taken by developing a method that accounts for the collision rate, collision severity, and Healthy Places Index. Each is briefly described below.



### Collision Rate

The collision rate is defined as the number of collisions that occur at a determined intersection or segment over a specified time (i.e., collision frequency) and dividing it by a measure of exposure. For collision rates, the measure of exposure is in terms of traffic volumes for intersections and traffic volumes and length for segments.

### Collision Severity

The collision severity is the classification of the collision based on the highest injury severity for any person involved in the crash. Each collision is classified as Fatal, Severe Injury, Other Injury, or Property Damage Only.

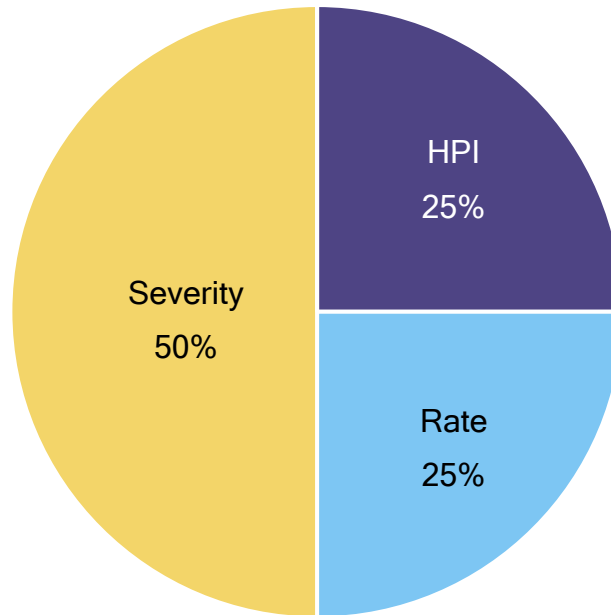
### Healthy Places Index

The Healthy Places Index (HPI) is an additional facet in the data-driven approach for the LRSP. This criterion helps ensure equitability and other public health elements are accounted for in the selection process. **Attachment B** contains more information on HPI.

**Appendix G** contains a technical memorandum that further details this priority project selection process.

## Weightage

A weighted average was utilized to calculate the final ranking score for both intersections and segments. This weighted average considers the varying degrees of importance to each score. Based on collaboration with County staff, the weightage for each score is shown below.



## Ranked Intersections and Segments

Based on the priority project selection process, a list of 65 ranked intersections and the 60 ranked segments were compiled for targeted assessments and improvements to enhance transportation safety. **Table 7-1** and **Table 7-2** lists the ranked intersections and segments, respectively. See **Appendix G** for more information. See **Appendix H** for location maps.

## Priority Intersection/Segment Recommendations

As a result of developing this recommended process for ranking intersections and segments, it was observed that collisions are more frequent and severe along roadway segments when compared to intersections. This is partly due to the rural settings of County roadways, the geometrics, and the exposure. Therefore, it is recommended that the County apply for grants to complete roadway safety assessments such as road safety audits, in a systematic way, using the ranked list provided in **Appendix G**. A road safety audit (RSA) is a formal safety performance examination of an existing or future road. A RSA should consider all potential roadway users and intersections along the segment and should consider crash prediction model evaluations.

**TABLE 7-1  
RANKED INTERSECTION LOCATIONS**

<b>Priority Rank</b>	<b>Intersection (Major/Minor)</b>
1	Main Avenue / Aviation Road
2	Jamacha Boulevard / Grand Avenue
3	Green Canyon Road / Sycamore Drive
4	Sweetwater Road / Troy Street
5	Sweetwater Road / Jamacha Road
6	Jamacha Road / Darby Street
7	Old Highway 395 / Dulin Road (North)
8	Bear Valley Parkway / Bear Valley Road
9	Valley Center Road / Lilac Road
10	Old Highway 395 / W. Lilac Road
11	Green Canyon Road / S. Mission Road
12	Valley Center Road / Cole Grade Road
13	Campo Road / Conrad Drive
14	Jamacha Boulevard / Felicita Avenue
15	Bancroft Drive / Valencia Street
16	Magnolia Avenue / Cypress Lane
17	Woodside Avenue / Riverview Avenue
18	Main Avenue / Lakeshore Drive
19	Winter Gardens Boulevard / Winter Gardens Drive
20	Winter Gardens Boulevard / Winter Crest Drive
21	Fallbrook Street / Heald Lane
22	2nd Street / Pepper Drive
23	Estrelita Drive / Palmyra Drive
24	San Vicente Road / Green Haven Lane
25	Dye Road / Ramona Street
26	Wildcat Canyon Road / Dump Road
<i>Continued on Next Page</i>	

**TABLE 7-1  
RANKED INTERSECTION LOCATIONS**

<b>Priority Rank</b>	<b>Intersection (Major/Minor)</b>
27	Hi Ridge Road / Valle Vista Road
28	Campo Road / Kenwood Drive
29	Victoria Park Terrace / Tavern Road
30	South Santa Fe Avenue / Montgomery Drive
31	Dehesa Road / Harbison Canyon Rd Road
32	Fallbrook Street / S. Mission Road
33	Jamacha Boulevard / Whitestone Road
34	San Vicente Road / Vista Vicente Drive
35	Paradise Valley Road / Elkelton Boulevard
36	Highland Valley Road / Sky Valley Road
37	Woodside Avenue / Winter Gardens Boulevard
38	Camino Del Rey / Camino Del Cielo
39	Mapleview Street / Ashwood Street
40	Winter Gardens Boulevard / Lemon Crest Drive
41	Warnock Drive / Ramona Street
42	Pepper Drive / Peerless Drive
43	Mission Road / Willow Glen Road
44	Olive Vista Drive / Jefferson Road
45	Deer Springs Road / Champagne Boulevard
46	Deer Springs Road / Sarver Lane
47	Old Highway 395 / Dulin Road (South)
48	Osborne Street / Hutchinson Street
49	Lilac Road / Old Castle Road
50	Willow Glen Drive / Medinah Drive
51	Rock Springs Road / Nordahl Road
52	Paradise Valley Road / Worthington Street
<i>Continued on Next Page</i>	



TABLE 7-1  
RANKED INTERSECTION LOCATIONS

Priority Rank	Intersection (Major/Minor)
53	Linea Del Cielo / Calzada Del Bosque
54	South Santa Fe Avenue / Azalea Drive
55	Del Dios Highway / El Camino Del Norte
56	Bancroft Drive / Campo Road
57	Valley Center Road / Woods Valley Road
58	Linea Del Cielo / Rambla De Las Flores
59	Bear Valley Parkway / Idaho Avenue
60	Via De La Valle / Calzada Del Bosque
61	S. Mission Road / Olive Hill Road
62	Buena Creek Road / Monte Vista Drive
63	East Vista Way / Gopher Canyon Road
64	Avocado Boulevard / Fuerte Drive
65	El Camino Real / Linea Del Cielo
<i>End of Table</i>	
<p><i>General Note:</i> -See <b>Appendix H</b> for location maps</p>	

**TABLE 7-2  
RANKED SEGMENT LOCATIONS**

<b>Priority Rank</b>	<b>Segment</b>	<b>From</b>	<b>To</b>
1	Woodside Avenue	Winter Gardens Boulevard	Prospect Avenue
2	Mesa Grande Road	Cattle Guard	Mile Post 8.0
3	Jamacha Road	Sweetwater Road	Helix Street
4	Sweetwater Road	Jamacha Road	Saint George Street
5	Jamacha Boulevard	Sweetwater Road	Park Access
6	Campo Road	Conrad Drive	Bonita Street
7	Pala Temecula Road	Mile Post 4.0	Temepa Road
8	Buckman Springs Road	Lake Morena Drive	Mile Post 1.0
9	Champagne Boulevard	Deer Springs Road	Champagne Village Drive
10	Otay Lakes Road	Mile Post 6.0	Mile Post 5.0
11	South Santa Fe Avenue	Woodland Drive	Robelini Drive
12	South Santa Fe Avenue	Poinsettia Avenue	Smilax Road
13	South Santa Fe Avenue	Montgomery Drive	Woodland Drive
14	Winter Gardens Boulevard	Winter Crest Drive	Woodside Avenue
15	Willows Road	Mile Post 2.0	Viejas Grade Road
16	Pala Temecula Road	Mile Post 3.0	Mile Post 4.0
17	Olde Highway 80	Soldin Lane	Flinn Crest Street
18	Highland Valley Road	Adrienne Way	Traylor Road
19	Old Highway 395	2nd Street	Rainbow Valley Boulevard
20	Wildcat Canyon Road	Barona Driveway	Mile Post 7.0
21	Rice Canyon Road	Mile Post 4.0	Rainbow Heights Road
22	Bear Valley Parkway	Bear Valley Road	SR-78
23	Old Highway 395	Rainbow Glen Road	5th Street
24	Ammunition Road	S. Mission Road	Altura Street
25	Valley Center Road	Miller Road	Cole Grade Road
26	Pala Temecula Road	Mile Post 2.0	Mile Post 3.0
<i>Continued on Next Page</i>			

**TABLE 7-2  
RANKED SEGMENT LOCATIONS**

<b>Priority Rank</b>	<b>Segment</b>	<b>From</b>	<b>To</b>
27	Old Highway 395	West Lilac Road	Dulin Road
28	Ashwood Street	Mapleview Street	Willow Road
29	S. Mission Road	Green Canyon Road	Quail Knoll Road
30	Olive Vista Drive	Lyons Valley Road	Jefferson Road
31	Old Highway 80	Mile Post 22.0	Royal Drive
32	Alpine Boulevard	Vista Alpine Road	Bay Meadows Drive
33	San Vicente Road	Arena Drive	Wildcat Canyon Road
34	Jamacha Boulevard	Trace Road	SR-94
35	S. Mission Road	SR-76	La Canada Road
36	Ammunition Road	Alturas Street	End of County Maintained Road
37	Buckman Springs Road	Corral Canyon Trail	Mile Post 6.0
38	Dehesa Road	Harbison Canyon Road	Mile Post 6.0
39	East Vista Way	Gopher Canyon Road	Mason Road
40	Buckman Springs Road	Mile Post 6.0	Oak Drive
41	Ridgeway Drive	Euclid Avenue	Gwynne Avenue
42	Alpine Boulevard	Tavern Road	Victoria Drive
43	Mission Road	Davis Drive	Hamilton Lane
44	De Luz Road	Mile Post 5.0	Green Valley Road
45	Camino Del Norte	County/City of San Diego Limit	Camino San Bernardo Ramps
46	Lilac Road	Anthony Road	Mile Post 11.0
47	Wildcat Canyon Road	Mile Post 5.0	Mile Post 6.0
48	Old Castle Road	Mile Post 8.0	Pamoosa Lane
49	Deer Springs Road	Mesa Rock Road	Sarver Lane
50	Avocado Boulevard	Fuerte Drive	Puebla Drive
51	Dehesa Road	Singing Vista Drive	Willow Glen Drive
52	Dehesa Road	Mile Post 3.0	Mile Post 4.0
<i>Continued on Next Page</i>			

TABLE 7-2  
RANKED SEGMENT LOCATIONS

Priority Rank	Segment	From	To
53	Bonita Road	Acacia Avenue	Central Avenue
54	El Camino Del Norte	Del Dios Highway	Aliso Canyon Road
55	Gopher Canyon Road	El Paseo	Disney Lane
56	Bonita Road	Randy Lane	County Limit
57	Lyons Valley Road	SR-94	Olive Vista Drive
58	Del Dios Highway	El Camino Del Norte	Via Cuatro Camino
59	Del Dios Highway	Mile Post 10.0	Mile Post 11.0
60	Skyline Truck Trail	Hidden Trail Drive	Lawson Valley Road
<i>End of Table</i>			
General Note: -See <b>Appendix H</b> for location maps			



## IMPLEMENTATION APPROACH

REFED

## 8.0 IMPLEMENTATION APPROACH

The County's Local Roadway Safety Plan is a critical tool to proactively implement safety countermeasures by systematically requesting funding to complete transportation safety assessment and improvement projects. The recommendations provided in **Chapter 7** provide the framework to achieve the County of San Diego's Local Roadway Safety Plan Vision, Mission, and Goal. The real work in achieving the LRSP mission is in the **successful implementation of this plan, which depends on everyone.**



In addition to the recommendations provided in **Chapter 7**, a toolbox of engineering safety countermeasures is provided in **Appendix I**. This toolbox can be utilized when funding is secured to implement systemic countermeasures or to help determine potential solutions as part of future transportation safety engineering studies.

Since the LRSP utilizes a multi-disciplinary holistic approach, it is critical to continue to foster collaboration and cooperation between various County departments and stakeholders. The LRSP is living documents that should be updated periodically to reflect new collision data, trends, and updated recommendations.

## WORKS CITED



## 9.0 WORKS CITED

Lavrenz, Steven (2018, August 14). *RSP Module 4: Solving Safety Problems*. Institute of Transportation Engineers. <https://www.pathlms.com/ite/courses/8130>.

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U.S. Department of Transportation, Federal Highway Administration. (2012). *Developing Safety Plans: A Manual for Local Rural Road Owners*.

