



CITY OF LAGUNA HILLS TRAFFIC COMMISSION

REGULAR MEETING AGENDA Wednesday, March 20, 2019 – 7:00 PM

Larry Woodruff - Chair

Chris Bieber - Commissioner

Anna Lisa Lukes - Commissioner

Len Herman - Commissioner

Chris Mackey - Commissioner

Location: City Council Chamber, 24035 El Toro Road, Laguna Hills, CA 92653

Any person wishing to address the Traffic Commission on any matter, whether or not it appears on this Agenda, is asked to complete a "Request to Speak" form available on the table at the back of the Chamber. The completed form is to be submitted to the Recording Secretary prior to an individual being heard by the Traffic Commission. Completion of the form is voluntary. All persons may attend the meeting regardless of whether this form is completed.

Members of the public wishing to address the Traffic Commission can do so during the Public Comments portion of the Agenda with a time limitation of three minutes per person, an overall time limit of ten minutes for any one subject, and a total time limit of thirty minutes for Public Comments. If you are commenting on an Agenda item, your comments will be heard at the time that item is scheduled on the Agenda. If you are addressing the Commission on an item not listed on the Agenda, the Traffic Commission is prohibited by law from discussing or taking any action on that item.

CALL TO ORDER

Resolution No. 96-04-09-1 established rules of decorum for public meetings held by the City of Laguna Hills. Resolution No. 96-04-09-1 is available on the table at the back of the City Council Chamber.

PLEDGE OF ALLEGIANCE

ROLL CALL OF COMMISSION MEMBERS

1 Election of Chair

Recommendation: That the Traffic Commission Elect a New Chair.

2 Election of Vice Chair

Recommendation: That the Traffic Commission Elect a New Vice Chair.

1. PUBLIC COMMENTS

This is the time to address the Traffic Commission on any matter not listed on this Agenda that is within the subject matter jurisdiction of the Commission. Public Comments are limited to three minutes per person, an overall time limit of ten minutes for any one subject, and a total time limit of thirty minutes.

2. MINUTES**2.1 Minutes**

Recommendation: That the Traffic Commission Approve the Minutes of January 16, 2019.

3. PRESENTATIONS**4. ADMINISTRATIVE REPORTS****4.1 Repeat Speed Survey on Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive**

Recommendation: That the Traffic Commission Request Staff Install Additional Pavement Legends, Markings and Signage on Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive and Repeat the Speed Survey of Santa Vittoria Drive in Six Months' Time.

4.2 Review of Sight Distance at the Corner of Buena Vista Drive and Los Gatos Drive

Recommendation: That the Traffic Commission Receive and File the Report.

4.3 Interstate 5 at El Toro Interchange PAED/PR Public Comment Period

Recommendation: That the Traffic Commission Receive and File the Report.

5. INFORMATIONAL ITEMS**5.1 Sheriff's Department Verbal Report****5.2 Radar Speed Trailer**

Recommendation: That the Traffic Commission Receive and File the Report.

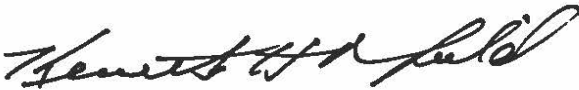
6. COMMISSIONER COMMENTS

7. ADJOURNMENT

The next Regular Meeting of the Traffic Commission will be May 22, 2019, at 7:00 PM in the City Council Chamber, located at 24035 El Toro Road, Laguna Hills California.

CERTIFICATION

I, KENNETH H. ROSENFELD, Assistant City Manager/Director of Public Services of the City of Laguna Hills, do hereby certify that a copy of the foregoing Agenda was posted at Laguna Hills City Hall, Laguna Hills Community Center, and the Courtyard at La Paz Center by March 15, 2019, at 5:00 pm.



Assistant City Manager/Director of Public Services

March 15, 2019

Date

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, you should contact the office of the City Engineer at (714) 707-2650. Notification 48 hours prior to the meeting will enable the City to make reasonable arrangements to assure access.

Materials related to an item on this Agenda submitted to the Commission after distribution of the Agenda packet are available for public inspection in the Public Services Department at 24035 El Toro Road, Laguna Hills, California, during normal business hours.



City of Laguna Hills

Traffic Commission

Staff Report

DATE: March 20, 2019
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Election of Chair

RECOMMENDATION: That the Traffic Commission Elect a New Chair.



City of Laguna Hills

Traffic Commission

Staff Report

DATE: March 20, 2019
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Election of Vice Chair

RECOMMENDATION: That the Traffic Commission Elect a New Vice Chair.



City of Laguna Hills

Traffic Commission

Staff Report

DATE: March 20, 2019
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Minutes

RECOMMENDATION: That the Traffic Commission Approve the Minutes of January 16, 2019.

ATTACHMENTS:

- TC Minutes 1-16-19

**CITY OF LAGUNA HILLS
TRAFFIC COMMISSION MEETING
REGULAR MEETING MINUTES
JANUARY 16, 2019**

CALL TO ORDER

The Regular Meeting of the Traffic Commission of the City of Laguna Hills, California, was called to order by Chair Woodruff at 7:00 PM in the Laguna Hills City Council Chamber, 24035 El Toro Road, Laguna Hills, California.

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Chair Woodruff.

ROLL CALL OF COMMISSION MEMBERS

Present: Chair Larry Woodruff, Commissioner Len Herman, Commissioner Mark Jones.

Absent: Vice Chair Greg Staar

1. PUBLIC COMMENTS

There were no Public Comments.

2. MINUTES

THE TRAFFIC COMMISSION APPROVED THE MINUTES OF THE SEPTEMBER 19, 2018, REGULAR MEETING, BY M/CHAIR WOODRUFF, S/COMMISSIONER HERMAN.

APPROVED BY A VOTE OF 3-0, (VICE CHAIR STAAR ABSENT).

3. PRESENTATIONS

There were no Presentations.

4. ADMINISTRATIVE REPORTS

4.1 REVIEW OF TRAFFIC CONDITIONS ON WILKES PLACE AND GRISSOM ROAD

Associate Civil Engineer Amber Shah, indicated Staff was contacted by a resident regarding speeding, cut-through traffic and collisions on Wilkes Place south of Alicia Parkway and Grissom Road east of Wilkes Place. Based upon the resident's concern, Staff initiated a review of vehicular speeds, traffic collision history and an origin and destination study on Wilkes Place south of Alicia Parkway and Grissom Road east of Wilkes Place. The results of the traffic study determined the 85th percentile speeds on Wilkes Place was 30 mph south of Alicia Parkway and on Grissom Road was 28.4 mph east of Wilkes Place. The 85th percentile speeds were within the normal range, therefore no action was recommended in response to the data. The traffic count data

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JANUARY 16, 2019**

revealed the 24hr volumes to be low for a typical residential street that is a through street to other neighborhoods, therefore no action was recommended in response to the data.

A six-year year traffic collision history review indicated there were four collisions in the subject areas, but none were considered speed related.

Ms. Shah also indicated that the resident expressed concerns regarding the marking of crosswalks and the potential need for crossing guards for students walking to Lomarena Elementary School from Grissom Road. Based upon the residents concern and the recommendation in the traffic evaluation study to update the school crossing signage on Wilkes Place, Staff initiated a field review of all (citywide) school zones and school crossing signage and markings to meet current standards at Lomarena Elementary School, San Joaquin Elementary School, Valencia Elementary School, Laguna Hills High School and New Vista School (private). The results of the study will be presented at a future Traffic Commission meeting.

Mr. Nathan Gibbs, a resident on Grissom Road, spoke regarding his concerns.

**THE TRAFFIC COMMISSION RECEIVED AND FILED THE REPORT.
BY M/COMMISSIONER HERMAN, S/COMMISSIONER JONES.
APPROVED BY A VOTE OF 3-0, (VICE CHAIR STAAR ABSENT).**

4.2 REPEAT SPEED SURVEY ON BRIDLEWOOD DRIVE

Associate Civil Engineer Amber Shah, indicated Staff was contacted by a resident of Moulton Ranch in April 2018, regarding concerns of vehicular speeding and traffic collisions on Bridlewood Drive between Vista Viejo Road and Laurel Crest Drive, and on Devonshire Road, between Falling Leaf Drive and Nottingham Court. Due to resident's concerns, Staff initiated a review of the travel speeds, traffic volume and traffic collision history on Bridlewood Drive and Devonshire Road. The report presented at the July 18, 2018, meeting of the Traffic Commission concluded the 85th percentile speed of Bridlewood Drive was higher than expected and considered to be unacceptable for a residential character street. Additional traffic speed enforcement and use of the radar trailer were utilized to address this issue. The Traffic Commission requested staff repeat the speed survey of Bridlewood Drive in six months' time.

In accordance with the Traffic Commission's request, the traffic study was repeated and the results of the January 9, 2019, study determined the 85th percentile speed on Bridlewood Drive reduced from 37.1 mph, as recorded in the first speed survey in May of 2018, to 36.1 mph in December 2018. The 85th percentile speed measurement of Bridlewood Drive was still higher than expected and considered to be unacceptable

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JANUARY 16, 2019**

for a residential character street. The study also determined the percent of vehicles on Bridlewood Drive exceeding 34 mph had only slightly declined from 24.6% to 24.2% which was also a higher percentage than expected, typically approximately 15%.

Ms. Shah indicated the results of this speed survey indicated vehicular speed remains an issue on Bridlewood drive. Staff field reviewed the pavement legends and posted signage and recommended additional pavement legends and markings on southbound Bridlewood Drive between Vista Viejo Road and Laurel Crest Drive. Ms. Shah indicated Staff will continue to work with the Sheriff's Department on enforcement activity in this area and will also post the radar trailer in this area to increase driver education as to the appropriate speed on Bridlewood Drive. Should the speeding issue remain, the next incremental action will be evaluated.

THE TRAFFIC COMMISSION REQUESTED STAFF IMPLEMENT ADDITIONAL PAVEMENT LEGENDS AND MARKINGS ON SOUTHBOUND BRIDLEWOOD DRIVE BETWEEN VISTA VIEJO ROAD AND LAUREL CREST DRIVE AND REPEAT THE SPEED SURVEY OF BRIDLEWOOD DRIVE IN SIX MONTHS' TIME. BY M/COMMISSIONER JONES, S/COMMISSIONER HERMAN. APPROVED BY A VOTE OF 3-0, (VICE CHAIR STAAR ABSENT).

4.3 REPEAT SPEED SURVEY ON NELLIE GAIL ROAD BETWEEN OSO PARKWAY AND HIDDEN TRAIL ROAD

Associate Civil Engineer Amber Shah, indicated Staff was contacted by a resident in February 2018, regarding concerns of vehicular speeding and cut through traffic on Nellie Gail Road between Oso Parkway and Moulton Parkway. Staff initiated a traffic study and the results were presented at the May 16, 2018, meeting of the Traffic Commission. The study concluded the 85th percentile speed on Nellie Gail Road south of Oso Parkway (generally between Oso Parkway and Hidden Trail Road) was higher than expected and considered unacceptable for a residential character street. Additional traffic speed enforcement and use of the radar trailer were utilized to address this issue. The Traffic Commission requested Staff repeat the speed survey of Nellie Gail Road between Oso Parkway and Hidden Trail Road in six months' time.

In accordance with the Traffic Commission's request, the Traffic Engineers of Hartzog & Crabill, Inc., (HCI) completed the attached January 9, 2019, speed survey of Nellie Gail Road from Oso Parkway to Hidden Trail Road. This speed survey determined the 85th percentile speed on Nellie Gail Road had reduced from 39 mph, as recorded in May 2018, to 34.8 mph in December 2018. The study also determined the percent of vehicles on Nellie Gail Road exceeding 35 mph had declined from 36% to 12.2 % which was within the expected percentage (15%).

Attachment: TC Minutes 1-16-19 (1819 : Minutes)

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JANUARY 16, 2019**

Ms. Shah indicated Staff will continue to work with the Sheriff's Department on enforcement activity in this area and will also post the radar trailer in this area to increase driver education as to the appropriate speed on Nellie Gail Road.

THE TRAFFIC COMMISSION RECEIVED AND FILED THE REPORT.

BY M/COMMISSIONER HERMAN, S/COMMISSIONER JONES.

APPROVED BY A VOTE OF 3-0, (VICE CHAIR STAAR ABSENT).

5. INFORMATIONAL ITEMS

5.1 SHERIFF'S DEPARTMENT VERBAL REPORT

Lt. Stiverson indicated the Sheriff's Department will continue to monitor the areas mentioned in the agenda items, and will research the feasibility of additional crossing guards.

5.2 RADAR SPEED TRAILER

Staff submitted the schedule for the radar trailer.

6. COMMISSIONER COMMENTS

Commissioner Mark Jones indicated it was his last meeting and said it was an honor to work with the Traffic Commission and Staff.

7. ADJOURNMENT

There being no further business before the Traffic Commission at this session, Chair Woodruff declared the meeting adjourned at 7:38 p.m.

Prepared By:

Amber Shah, P.E.
Associate Civil Engineer

Approved By:

Chair Larry Woodruff

Attachment: TC Minutes 1-16-19 (1819 : Minutes)



City of Laguna Hills

Traffic Commission

Staff Report

DATE: March 20, 2019
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Repeat Speed Survey on Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive

RECOMMENDATION: That the Traffic Commission Request Staff Install Additional Pavement Legends, Markings and Signage on Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive and Repeat the Speed Survey of Santa Vittoria Drive in Six Months' Time.

SUMMARY:

Staff was contacted by residents of Laguna Village Community in June 2018 regarding concerns of vehicular speeding and collisions on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive. Please see the attached Vicinity Map. Based upon the resident's concerns and in accordance with the Residential Streets Management Policy, staff subsequently initiated a traffic engineering evaluation of Santa Vittoria Drive between Ridge Route Drive and Lake Forest Drive. The report presented at the September 19, 2018 meeting of the Traffic Commission concluded the 85th percentile speed measurement of Santa Vittoria Drive was higher than expected and considered to be unacceptable. Additional traffic speed enforcement and use of the radar trailer were utilized to address this issue. The Traffic Commission requested staff repeat the speed survey of Santa Vittoria Drive in six months' time.

In accordance with the Traffic Commission's request, a new speed survey was performed on February 27, 2019. Although the prevailing speed of traffic is lower than previous measurements, it is still higher than expected for a 30 mph street. Therefore, staff recommends installing one "Watch Downhill Speed" sign, two additional 30 mph signs and painting "30" mph pavement legends adjacent to the posted 30 mph signs

Repeat Speed Survey on Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive

March 20, 2019

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along northbound and southbound Santa Vittoria Drive. Staff will continue to work with the Sheriff's Department on enforcement activity in this area and will also post the radar trailer in this area to increase driver education as to the appropriate speed on Santa Vittoria Drive. In addition, a follow-up speed survey is recommended to be performed in six months' time. Should the speeding issue remain, the next incremental action will be evaluated.

BACKGROUND:

Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive, is a two-lane collector roadway. On street parking is prohibited along limited portions of Santa Vittoria Drive, and the posted speed limit is 30 mph.

Staff was contacted by residents of Laguna Village Community in June 2018 regarding concerns of vehicular speeding and collisions on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive. Based upon the resident's concerns and in accordance with the Residential Streets Management Policy, staff subsequently initiated a traffic engineering evaluation of Santa Vittoria Drive between Ridge Route Drive and Lake Forest Drive. The report presented at the September 19, 2018 meeting of the Traffic Commission concluded the 85th percentile speed measurement of Santa Vittoria Drive (40.6 mph) was higher than expected and considered to be unacceptable. Additional traffic speed enforcement and use of the radar trailer were utilized to address this issue. The Traffic Commission requested staff repeat the speed survey of Santa Vittoria Drive in six months' time.

In accordance with the Traffic Commission's request, the Traffic Engineers of Hartzog & Crabill, Inc. (HCI), completed the attached March 5, 2019, speed survey of Santa Vittoria Drive. This speed survey determined the 85th percentile speeds on Santa Vittoria Drive reduced from 40.6 mph, as recorded in the speed survey in September 2018, to 38.4 mph in February 2019. Although the prevailing speed of traffic is lower than previous measurements, it is still higher than expected for a 30 mph street. Staff's experience has found the typical prevailing speed range on a street of this character in the City to be in the 34 to 37 mph range, without adverse traffic collision history.

A five-year traffic collision history review included in the previous study, and included in this study for reference, determined twelve (12) traffic collisions had been reported along this segment of Santa Vittoria Drive (when removing from consideration, all traffic collisions listed as being on Lake Forest Drive at Santa Vittoria Drive). Only one collision was identified as 'speed-related'. Consequently, no change to traffic controls related to traffic collision history is proposed.

Repeat Speed Survey on Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive

March 20, 2019

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Based upon the results of the current speed survey indicating vehicular speed remains an issue on Santa Vittoria Drive, staff field reviewed the existing number and locations of speed limit signage and pavement markings. Currently, there is one 30 mph pavement legend and two 30 mph signs posted along northbound Santa Vittoria Drive and two 30 mph signs and one "Stop Ahead" pavement legend and sign posted along southbound Santa Vittoria Drive between Ridge Route Drive and Lake Forest Drive. Staff recommends installing an additional "30 mph" sign near Basano East and one "Watch Downhill Speed" sign near the top of the hill at Caminito Esteban along northbound Santa Vittoria Drive, installing an additional "30 mph" sign near Caminto Esteban along southbound Santa Vittoria Drive along with painting "30" mph pavement legends adjacent to all of the speed limit signs. Continued concentrated police enforcement of driver behavior is the best and appropriate remedy for vehicular speeding and is recommended for Santa Vittoria Drive. Staff will continue to work with the Sheriff's Department on enforcement activity in this area and will also post the radar trailer in this area to increase driver education as to the appropriate speed on Santa Vittoria Drive. In addition, a follow-up speed survey is recommended to be performed in six months' time. Should the speeding issue remain, the next incremental action will be evaluated.

FISCAL IMPACT:

The installation of two "30 MPH" speed limit signs, one "Watch Downhill Speed" sign and painting of five "30" mph pavement legends have an anticipated cost of \$750. Funds are available for this work in the 2018-19 Fiscal Year Public Works Maintenance Budget.

ATTACHMENTS:

- Vicinity Map - Santa Vittoria Drive
- Santa Vittoria Drive Traffic Evaluation - 03-05-19
- Traffic Commission Agenda Item 4.1_9-19-18



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VICINITY MAP - SANTA VITTORIA DRIVE





Trammell Hartzog, President
 Gerald J. Stock, PE, TE,
 Executive Vice President

17852 E. 17th Street
 Suite 101
 Tustin, CA 92780

Phone: (714) 731-9455
 FAX: (714) 731-9498

www.hartzog-crabill.com

March 5, 2019

Mr. Kenneth H. Rosenfield, PE
 Assistant City Manager/Public Services Director
City of Laguna Hills
 24035 El Toro Road
 Laguna Hills, CA 92653

**Subject: Traffic Data Evaluation - Letter of Opinion -
 Speeding Data Follow-Up along Santa Vittoria Drive**

Dear Mr. Rosenfield,

Pursuant to your request, Hartzog & Crabill, Inc. (HCI) has prepared this traffic engineering evaluation as a follow-up regarding residential concerns of speeding along the street segment of Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive.

The following data was gathered/performed as part of this evaluation:

- 1) Perform (2) radar speed surveys on Santa Vittoria Drive,
 between Caminito Jalisco to Caminito Costa

BACKGROUND

Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive, is primarily a 40-foot wide, 2-lane, curvy, north-south collector roadway. At the project limits, the roadway widens to include raised landscaped center medians, and a traffic signal at the northerly end of Lake Forest Drive, and a 3-way stop at the southerly end of Ridge Route Drive. There is a double-yellow centerline stripe along the narrow portions of this segment.

There are posted 30 MPH speed limit signs along Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive. There are also '30' pavement markings adjacent to the sign postings. On-street parking is prohibited on certain sections of Santa Vittoria Drive by various posted No Parking Any Time signs, No Parking on Street Sweeping day signs, and No Stopping Any Time signs.

Mr. Kenneth H. Rosenfield, PE
 March 5, 2019
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TRAVEL SPEED DATA

To determine current travel speeds on Santa Vittoria Drive, two spot speed radar surveys were conducted along this residential collector roadway on Wednesday, February 27, 2019 (see attached). The tables below summarize the radar speed data.

SPEED SURVEY SUMMARY SANTA VITTORIA DRIVE, FROM CAMINITO JALISCO TO CAMINITO COSTA

<u>9:45-10:15AM</u> Radar Speed Data Summary	Between Caminito Jalisco and Caminito Costa
85 th Percentile Speed	38.4 MPH
Median Speed	32.5 MPH
15th Percentile Speed	27.7 MPH
10 MPH Pace Speed	29 - 38 MPH
Percent in Pace Speed	66.2%

<u>3:00-3:30PM</u> Radar Speed Data Summary	Between Caminito Jalisco and Caminito Costa
85 th Percentile Speed	38.0 MPH
Median Speed	34.2 MPH
15th Percentile Speed	29.9 MPH
10 MPH Pace Speed	31 - 40 MPH
Percent in Pace Speed	77.3%

As shown in the two tables above, the highest 85th-percentile speed on Santa Vittoria Drive was recorded in the morning at 38.4 MPH. This data shows that higher than typical travel speeds are occurring above the posted 30 MPH speed limit; however, the critical speed is lower when compared to the highest speed recorded back in September 2018 was 40.6 MPH.

Mr. Kenneth H. Rosenfield, PE
 March 5, 2019
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TRAFFIC VOLUME DATA

In the previous September 9, 2018 evaluation, Average Daily Traffic (ADT) count had been collected for the segment of Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive. The ADT, or 24-hour two-way traffic volume, resulted in 5,986 vehicles.

A two-lane collector street generally has a Level-of-Service (LOS) 'D' capacity of 11,300 vehicles per day. Consequently, the existing traffic volume is still well under the roadway capacity, and there are no recommendations regarding traffic volumes.

COLLISION DATA

In the previous September 9, 2018 evaluation, HCI had obtained the most recent, citywide collision data that was reported during the past five (5) years from the Statewide Integrated Traffic Records System website (*i-SWITRS*) database.

HCI had prepared a collision history report to determine the number of collisions occurring on this particular segment of Santa Vittoria Drive. The table below presents the summary collision data.

TRAFFIC COLLISION DATA SUMMARY SANTA VITTORIA DRIVE, FROM LAKE FOREST DRIVE TO RIDGE ROUTE DRIVE

Year	Number of Collisions	Fatal	Injury	Property Damage Only
2013	2	0	1	1
2014	0	0	0	0
2015	1	0	0	1
2016	4	0	1	3
2017	3	0	2	1
2018 *	2	0	1	1

* Available SWITRS data was up to May 2018 at the time of report preparation.

As shown above, there were a total of twelve (12) collisions reported along this segment within the prior (5-1/2) years. These collisions were recorded as Rear End, Hit Object, Sideswipe and Broadside types. The various collisions were also categorized as Improper Turning, Traffic Signals and Signs, Driving Under the Influence, Following Too Closely, Unsafe Speed, Automobile ROW, and Other. Only two of the (12) were categorized as Unsafe Speed; therefore, there are no other recommendations regarding collisions at this time.

Mr. Kenneth H. Rosenfield, PE
March 5, 2019
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FIELD REVIEW

Our previous evaluation task included performing a field-review of the project segment of Santa Vittoria Drive for verification of existing conditions. HCI included the following two photographs as representative of existing conditions. As shown, the asphalt roadway and signing and striping are in good condition; consequently, there are no other field recommendations at this time.



Santa Vittoria Drive (Looking Southbound)



Santa Vittoria Drive (Looking Northbound)

Mr. Kenneth H. Rosenfield, PE
March 5, 2019
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RECOMMENDATIONS

As speeding was verified on Santa Vittoria Drive above the 30 MPH speed limit, it is recommended that the incremental approach continue in order to address and lower overall travel speeds. Initial steps include:

- increased law enforcement of this segment.
- deployment of portable radar speed-feedback trailers.
- neighborhood watch committee meeting to help make all residents aware of speeding.
- additional speed limit signage and pavement markings.

It has been our pleasure to prepare this follow-up letter of opinion regarding speeding concerns along Santa Vittoria Drive. If you may have any questions or need additional information, please feel free to call us anytime at (714) 731-9455.

Sincerely,
HARTZOG & CRABILL, INC.



Gerald J. Stock, PE, TE
Executive Vice President

Attachment: Radar Speed Data

Speed Data



RADAR SPEED DISTRIBUTION SHEET

CITY OF LAGUNA HILLS

SANTA VITTORIA DRIVE

DATE: 2/27/2019

TIME: 9:15 AM - 9:45 AM

CAMINITO JALISCO (N) TO CAMINITO COSTA

SURVEY BY: C. BUENDIA

CHECKED BY: JERRY STOCK

CUMULATIVE

[illegible]

UPPER LIMIT 10 MPH PACE: 38 MPH

LOWER LIMIT 10 MPH PACE: 29 MPH

PERCENT OVER PACE: 17.6 %

PERCENT IN PACE: 66.2 %

PERCENT UNDER PACE: 16.2 %

85th PERCENTILE SPEED: 38.4 MPH

MEDIAN SPEED: 32.5 MPH

15th PERCENTILE SPEED: 27.7 MPH

Radar Speed Survey Field Sheet

AGENCY: CITY OF LAGUNA HILLS
 STREET: SANTA VITTORIA
 LOCATION: CAMINO SALISPO TO CAMINITO COSTA

WEATHER: SUNNY DATE: 02-27-19
 ROAD CONDITION: DRY START TIME: 9:45 AM
 OBSERVER: CATHY BUENDIA END TIME: 10:15 AM VIAL

DIRECTION: SOUTHBOUND

MPH	NUMBER OF VEHICLES						TOTAL
	5	10	15	20	25	30	
60							
59							
58							
57							
56							
55							
54							
53							
52							
51							
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45							
44							
43							
42							
41							
40							
39	/						4
38	/	/					4
37	/	/	/				5
36	/	/	/	/			3
35	/	/	/	/	/		3
34	/	/	/	/	/		3
33	/	/	/	/	/		3
32	/	/	/	/	/		3
31	/	/	/	/	/		3
30	/	/	/	/	/		3
29	/	/	/	/	/		3
28	/	/	/	/	/		3
27	/	/	/	/	/		3
26	/	/	/	/	/		3
25	/	/	/	/	/		3
24							0
23							0
22	/						1
21							
20							
19	/						
18							
17							
16							
15							

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____
 CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: NORTHBOUND

MPH	NUMBER OF VEHICLES						TOTAL	CUMULATIVE TOTAL	MPH
	5	10	15	20	25	30			
60									60
59									59
58									58
57									57
56									56
55									55
54									54
53									53
52									52
51									51
50									50
49									49
48									48
47									47
46									46
45	/						4	4	45
44	/	/					4	4	44
43	/	/	/				4	4	43
42	/	/	/	/			4	4	42
41	/	/	/	/	/		7	7	41
40	/	/	/	/	/		7	7	40
39	/	/	/	/	/		2	3	39
38	/	/	/	/	/		2	4	38
37	/	/	/	/	/		3	4	37
36	/	/	/	/	/		7	11	36
35	/	/	/	/	/		11	16	35
34	/	/	/	/	/		7	8	34
33	/	/	/	/	/		5	8	33
32	/	/	/	/	/		6	13	32
31	/	/	/	/	/		3	11	31
30	/	/	/	/	/		3	13	30
29	/	/	/	/	/		4	9	29
28	/	/	/	/	/		2	4	28
27	/	/	/	/	/		3	11	27
26	/	/	/	/	/		1	4	26
25	/	/	/	/	/		1	3	25
24								0	24
23								0	23
22								1	22
21									21
20									20
19									19
18									18
17									17
16									16
15									15

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

HARTZOG AND CRABILL INC.

Consulting Traffic Engineers
17582 Irvine Blvd., Suite 122, Tustin, CA 92680
(714) 731-9452

Radar Speed Survey Field Sheet

AGENCY: CITY OF LAGUNA HILLS
 STREET: SANTA VITTORIA
 LOCATION: CAMINITO JALISCO TO CAMINITO COSTA

WEATHER: SUNNY DATE: 02-27-19
 ROAD CONDITION: DRY START TIME: 9:15 AM
 OBSERVER: CATHY BUENDIA END TIME: 9:45 AM

DIRECTION: SOUTHBOUND

MPH	NUMBER OF VEHICLES						TOTAL
	5	10	15	20	25	30	
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AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: NORTHBOUND

MPH	NUMBER OF VEHICLES						TOTAL	CUMULATIVE TOTAL	MPH
	5	10	15	20	25	30			
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AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____



RADAR SPEED DISTRIBUTION SHEET

CITY OF LAGUNA HILLS

SANTA VITTORIA DRIVE

DATE: 2/27/2019

TIME: 3:00 PM - 3:30 PM

CAMINITO JALISCO (N) TO CAMINITO COSTA

SURVEY BY: C. BUENDIA

CHECKED BY: JERRY STOCK

CUMULATIVE

SPEED	NUMBER OF VEHICLES																				VEH.	PCT.	CUM. PCT.
60																							100.0%
																							100.0%
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55																							100.0%
																							100.0%
																							100.0%
																							100.0%
50																							100.0%
																							100.0%
																							100.0%
																							100.0%
45	X																				1	0.7%	100.0%
																					0	0.0%	99.3%
	X	X	X	X																	4	2.8%	99.3%
	X	X																			2	1.4%	96.5%
	X	X	X																		3	2.1%	95.0%
40	X	X	X	X	X	X															6	4.3%	92.9%
	X	X	X	X	X																5	3.5%	88.7%
	X	X	X	X	X	X	X	X	X	X											10	7.1%	85.1%
	X	X	X	X	X	X	X	X	X	X											10	7.1%	78.0%
	X	X	X	X	X	X	X	X	X	X	X	X	X	X							16	11.3%	70.9%
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					17	12.1%	59.6%
	X	X	X	X	X	X	X	X	X	X	X	X	X								13	9.2%	47.5%
	X	X	X	X	X	X	X														8	5.7%	38.3%
	X	X	X	X	X	X	X	X	X												13	9.2%	32.6%
	X	X	X	X	X	X	X	X	X	X											11	7.8%	23.4%
30	X	X	X	X	X	X															6	4.3%	15.6%
	X	X	X	X																	4	2.8%	11.3%
	X	X	X																		3	2.1%	8.5%
	X	X	X	X	X																5	3.5%	6.4%
	X																				1	0.7%	2.8%
25	X																				1	0.7%	2.1%
																					0	0.0%	1.4%
	X																				1	0.7%	1.4%
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	X																				1	0.7%	0.7%
20																							0.0%
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																							0.0%
																							0.0%
15																							0.0%
TOTAL VEHICLES																					141		

UPPER LIMIT 10 MPH PACE: 40 MPH

LOWER LIMIT 10 MPH PACE: 31 MPH

PERCENT OVER PACE: 11.3 %

PERCENT IN PACE: 77.3 %

PERCENT UNDER PACE: 15.6 %

85th PERCENTILE SPEED: 38.0 MPH

MEDIAN SPEED: 34.2 MPH

15th PERCENTILE SPEED: 29.9 MPH

Radar Speed Survey Field Sheet

HARTZOG AND CRABILL INC.
Consulting Traffic Engineers
17592 Irvine Blvd., Suite 122 Tustin CA 92680
(714) 731-9455

AGENCY: CITY OF LAGUNA HILLS
STREET: SANTA VITTORIA
LOCATION: CAN JALISCO TO CAN COSTA

WEATHER: SUNNY DATE: 02-27-19
ROAD CONDITION: DRY START TIME: 3:00 PM
OBSERVER: CATHY BUENDIA END TIME: 3:30 PM

DIRECTION: <u>SOUTHBOUND</u>						
MPH	5	NUMBER OF VEHICLES				TOTAL
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AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____
CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: <u>NORTHBOUND</u>						
MPH	5	NUMBER OF VEHICLES				TOTAL
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AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE TOTAL	MPH
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16	36
17	35
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16	30
4	29
2	28
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HARTZOG AND CRABILL INC.

Consulting Traffic Engineers
17501 Indra Blvd., Suite 122, Tustin, CA 92680
(714) 251-9455

Radar Speed Survey Field Sheet

AGENCY: CITY OF LAGUNA HILLS
 STREET: SANTA VITTORIA
 LOCATION: CAMINO VALISCO TO CAMINITO COSTA

WEATHER: SUNNY DATE: 02-27-19
 ROAD CONDITION: DRY START TIME: 3:30 PM
 OBSERVER: CATHY BUENDIA END TIME: 4:00 PM var

DIRECTION: <u>SOUTHBOUND</u>									
MPH	NUMBER OF VEHICLES					TOTAL			
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AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____
 CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: <u>NORTHBOUND</u>									
MPH	NUMBER OF VEHICLES					TOTAL			
	5	10	15	20	25	30			
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AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE TOTAL	MPH
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City of Laguna Hills

Traffic Commission

Staff Report

DATE: September 19, 2018

TO: Traffic Commissioners

FROM: Amber Shah
Associate Engineer

ISSUE: Review of Traffic Speed Conditions on Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive

RECOMMENDATION: That the Traffic Commission Recommend to the City Council a Modification of the Parking Allowed on the Easterly Side of Santa Vittoria Drive to Restrict Parking for 60 Feet Northerly of Caminito Costa to Improve Sight Distance and to Increase Speed Enforcement as Resources Permit.

SUMMARY:

Staff was contacted by residents of Laguna Village Community regarding concerns of speeding, collisions and oversized vehicle parking on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive. Please see the attached Vicinity Map. The residents met with Public Services Director, Kenneth Rosenfield, and submitted the attached package of resident statements and photographs. Based upon the resident's concerns and submitted statements from other residents, staff initiated a traffic engineering evaluation of Santa Vittoria Drive between Ridge Route Drive and Lake Forest Drive.

Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive, is a two-lane collector roadway. On street parking is prohibited along limited portions of Santa Vittoria Drive, and the posted speed limit is 30 mph. The speed surveys, performed by Hartzog & Crabill, Inc., attached, determined the 85th percentile speeds on Santa Vittoria Drive as 40.6 mph near the northerly end towards Lake Forest Drive and 35.6 mph near

Review of Traffic Speed Conditions on Santa Vittoria Drive

September 19, 2018

Page 2

the southerly end towards Ridge Route Drive. While the posted speed limit is 30 mph, Staff's experience has found the typical prevailing speed range on a street of this character in the City to be in the 34 to 37 mph range, without adverse traffic collision history. The 85th percentile speed measurement at the northerly end towards Lake Forest Drive is higher than expected. The traffic count data revealed the 24-hr volumes to be low for a two-lane collector roadway.

A five-year traffic collision history review was also included in the study which determined twelve (12) traffic collisions had been reported along this segment of Santa Vittoria Drive (when removing from consideration, all traffic collisions listed as being on Lake Forest Drive at Santa Vittoria Drive). Only one collision was identified as 'speed-related'. Consequently, no change to traffic controls is proposed but speed enforcement is recommended to address the higher than expected 85th percentile speed at the northerly end of this street segment. As available, police enforcement of driver behavior will be pursued as the best remedy for this location and issue of concern. Staff will work with the Sheriff's Department on enforcement activity in this area and we will also post the radar trailer in this area to increase driver education as to the appropriate speed on Santa Vittoria Drive.

Recently, staff was contacted by another resident of the Laguna Village Community regarding sight distance limitations on the easterly side of Santa Vittoria Drive immediately adjacent to Caminito Costa, a private street. Staff reviewed the resident's concern, and upon performing a site evaluation, determined that restricting parking in this location will improve sight distance for exiting vehicles. It is recommended that a no parking regulation be established for 60 feet north of Caminito Costa as identified on the attached vicinity map. This no parking area will provide appropriate sight distance for vehicles given the geometric layout and design of Santa Vittoria Drive.

It is noted that a traffic evaluation was previously performed on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive, in December 2016, and was presented at the March 15, 2017 meeting of the Traffic Commission. The traffic data at that time showed the prevailing traffic speeds to be consistent with the posted speed limit. Traffic volumes were also consistent with historic counts, and well below the traffic carrying capacity of the roadway. The report is also attached for reference. However, given the current speed survey results, staff will return to this location in approximately six months and perform follow-up speed surveys to confirm the effectiveness of speed mitigations being implemented.

Review of Traffic Speed Conditions on Santa Vittoria Drive
September 19, 2018
Page 3

The resident concern regarding oversized vehicle parking along Santa Vittoria Drive was referred to the Sheriff's Department for enforcement of provisions of the Laguna Hills Municipal Code.

FISCAL IMPACT:

The installation of one "No Parking Here to Corner" sign has an anticipated cost of \$100. Funds are available for this work in the 2018-2019 Fiscal Year Public Works Maintenance Budget.

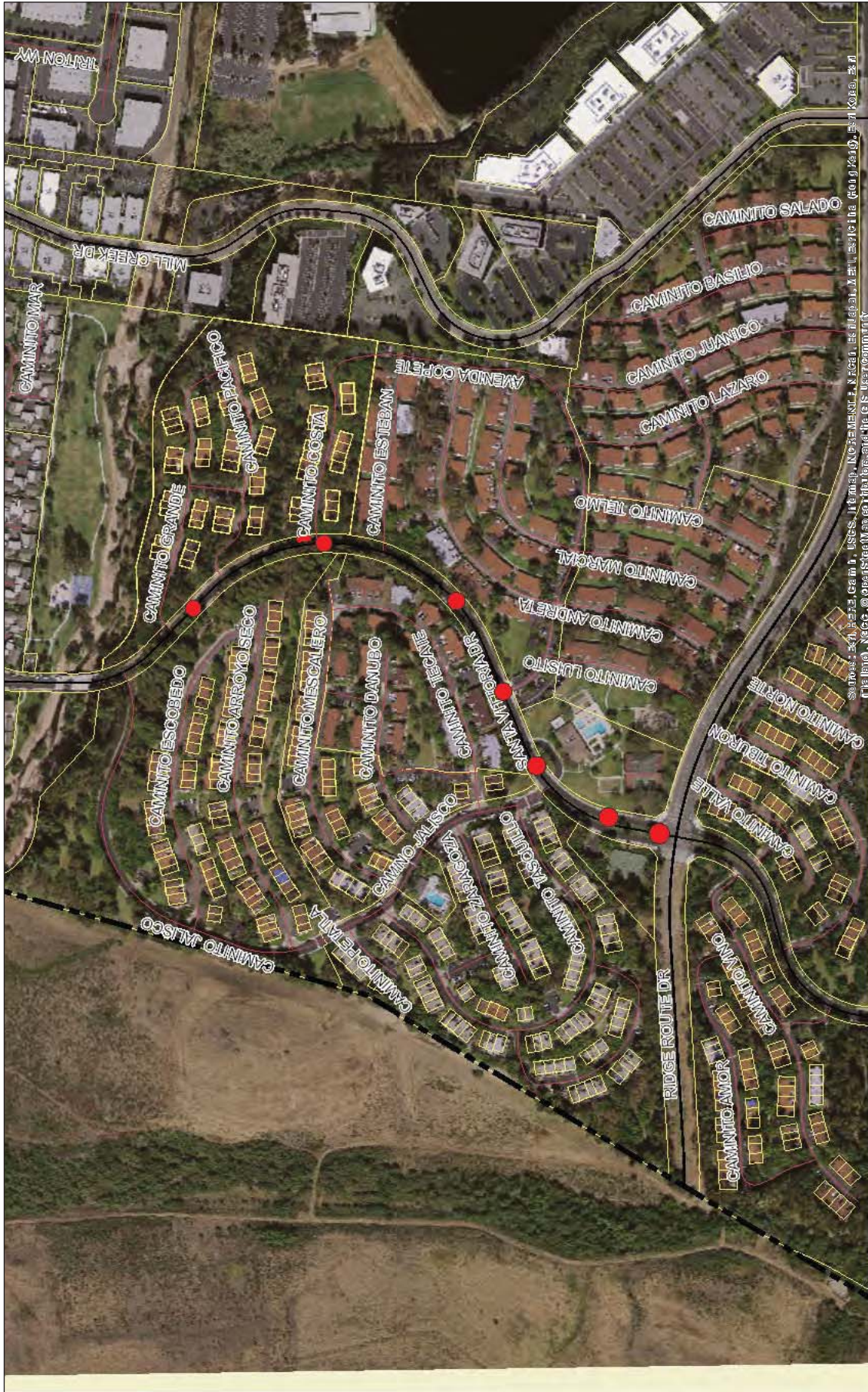
ATTACHMENTS:

- Vicinity Map 1 - Santa Vittoria Drive
- Vicinity Map 2 - Santa Vittoria Drive
- Laguna Village Resident Statements and Photographs
- Santa Vittoria Drive Traffic Evaluation
- Traffic Commission Agenda Item 4.1 March 15 2017



VICINITY MAP 1 - SANTA VITTORIA DRIVE





VICINITY MAP 2 - SANTA VITTORIA DRIVE

11/16/16

To: The City of Laguna Hills Traffic Commission

From: Laguna Village Concerned Residents

Attached please find the following:

- Resident Statements
- Pictures of Traffic
- Pictures of Most Recent Destruction Due to Reckless Driver
- Map of Speed Limits

Additionally, please view this link:

<https://www.youtube.com/watch?v=4uTrllgh...>

Prepared by Shawn Kirch – Laguna Village Homeowner

5 minutes of footage condensed to 90 seconds, after peak traffic showing 30+ cars that did not stop at the stop sign including to yield for a school bus trying to make a turn.

Researched, Prepared and Presented by Laguna Village Homeowners:

Patti Casas

Susan Christenson

V. Dunkelberg
Caminito Basilio
Laguna Hills, CA
92653

April 30, 2018

Dear Traffic Commission Officials,

Thank you for the work you do to keep our city safe, as well as for allowing me this opportunity to present my concerns to you.

Since my wife and I purchased our current home here in Laguna Village in 2015, it has become increasingly dangerous to drive and walk along Santa Vittoria, a two-lane street that intersects the center of our community. Specifically, drivers (many of whom do not live in our community and are cutting through) speed down the street, regardless of the blind turn on the street, the myriad vehicles that are always parked along the roadsides, and the fact that the (clearly posted) speed limit is thirty miles per hour. Multiple times, speeders have tailgated us, honked at us, and flashed their lights at us for driving the speed limit; we have even witnessed various speeders fully swerving into the opposite lane (despite the blind turn) to pass drivers going the speed limit. At all times of the day, driver after driver fails to heed the stop sign at the corner of Santa Vittoria and Ridge Route. Neighbors attempting to cross Santa Vittoria with their small children and dogs have been reporting incidences of drivers veering around them, rather than waiting for them to safely reach the other side of the street; (a great concern is the safety of the older children who use Santa Vittoria to cross between both sections of the community to play with friends). Neighbors have witnessed drivers disregarding the school bus stop sign when the bus stops at Santa Vittoria and Ridge Route (recently, one driver sped around another driver who had stopped for the bus and the children who were already exiting the bus). Just last week, there was yet another serious collision at the corner of Santa Vittoria and Ridge Route; both cars were totaled and I am unaware of what became of those involved.

After members of our community presented these same types of concerns to the traffic commission about a year or so ago, there was a temporary increase in ongoing police presence along Santa Vittoria and at the corner of Santa Vittoria and Ridge Route. This made a huge difference and we very much appreciated it. Unfortunately, however, once the police left, the same problems returned. We and many of our neighbors fear that these problems will worsen as more people flood the area upon completion of the new surrounding developments.

We therefore urge you to take action on this issue as soon as possible, effecting a permanent solution that will keep our residents and passers through safe. Thank you again for your time.

Sincerely,

V. Dunkelberg

5/30/2018

Dear Laguna Hills Traffic Commission,

This letter intends to bring to your kind attention the unimaginable harassment commuters, walkers, joggers, bicycle riders and the entire Laguna Village community face on Santa Victoria and surrounding areas due to the growing instances of traffic. We know that the number of vehicles on the roads is on the rise and that there is no proportional increase in the number of roads or law enforcement to abide by the speeds posted. So, traffic accidents and traffic jams are bound to happen and are consistently happening. But I do not intend to disturb you with things that do not have an immediate solution.

It stretches one's tolerance to the ultimate limit when a difficult situation is aggravated due to the irresponsible behavior of many rogue drivers. The cars on this now very busy street show an appalling disregard to any kind of traffic law. Cars stopping here and there, coming and going illegal passing (crossing the line), not stopping at every corner, drivers getting into an ugly argument in the middle of the road, and many accidents some reported, some not reported etc., cause havoc for the daily commuter and neighborhood walker.

Drivers appear to be presumably above the law for no police officer seems to have the courage of taking them to task as there is no police presence in the area. We have had multiple accidents on Santa Victoria / Ridge Route and Santa Victoria / Lake Forest and everywhere in-between. We walk dogs several times a day on Santa Victoria and notice everything from extreme speeders, many people running stop signs, to people crashing into parked cars, to crashing into each other which usually results with a car in a crosswalk and or a sidewalk where people walk daily. Don't get me started on how many people turn right in front of us as we are walking in the crosswalks and or turn right behind us. If we stalled for a second we would most likely be hit by a car.

I sat on the corner of Santa Victoria and Ridge Route for an hour on 5/20/2018 and witnessed 13 cars run the stop sign and it is only a 3 way stop. As well as numerous speeders who barely stopped due to excessive speed.

It seems that the concerned committee responds to the call of duty in our area only when concerned residents raise a red flag sadly the attention we get it is short lived. I have not seen an officer outside of assisting an accident in over 6 months on our roads. I hope you do not construe my helplessness as rudeness.

Laguna Village – Santa Victoria – Lake Forest – Ridge Route

5/30/2018

We have faith in the Police Department and fully understand that they are dedicated who are working day and night to ensure our safety in every sphere. With all due respect to them, I believe that the Police Department needs to pull up its socks to combat the menace of nuisance drivers who aggravate the problem of traffic in our city. I hope it does not take a family with kids and dogs to be killed in order to get your attention to this dangerous situation.

Thanking you in anticipation of change before it is too late for some of us.

Yours sincerely,

Michelle Cammaressi and Family.

11/16/16

Traffic Commission,

It is quite obvious to those of us who reside in Laguna Village that people have discovered a cut through from Lake Forest Drive to Ridge Route and Santa Maria via Santa Vittoria since Lake Forest drive opened to/from the 133.

The traffic has probably tripled or quadrupled!

As vehicles speed through this two lane cut through, it is becoming more and more dangerous for those of us who must use Santa Vittoria to get to and from our homes.

What to do?

Most Sincerely,
Barbara Forman
Laguna Village Homeowner

Dear City of Laguna Hills Traffic Commissioner,

I and my family are the new residents in Laguna Village. Our home is located on Caminito Vino very near and facing Santa Vittoria. We are concerned about the number of drivers speeding along Santa Vittoria, disregarding stop signs and speed limits. I ask that we have regular police patrol of our neighborhood to help curtail this illegal behavior and also reduce the maximum speed limit. Also there are many others effective solutions for traffic calming as the speed bumps etc.

Thank you,

Alex Chernavsky

Alina Chernavsky

22172 Caminito Vino
Laguna Hills, 92653

[Handwritten signature] 11/15/2016
[Handwritten signature] 11/15/2016

Judy Denton

Caminito Tasquillo

11/14/16

I am a long-time resident and am concerned about traffic and accidents in our community.

The night the light post was knocked down, I heard a car spinning out of control and then crash after completing multiple donuts at the three way stop at Santa Vittoria and Ridge Route.

In the last year, I do not have dates but have heard at least 3 other times cars skidding in circles at the same area. One time it happened right in front of me when a friend and I were walking our dogs and had stopped at the corner of Ridge Route and Santa Vittoria. We were fearful that he would lose control and hit us.

November 14, 2016

Erik Dunkelberg
Caminito Basilio

To Whom it May Concern:

I am a Laguna Village resident living on Caminito Basilio, near Santa Vittoria (a street that cuts through the center of our quiet village community). I have concerns about the way people have been driving down Santa Vittoria. Many don't stop at the stop sign (at Ridge Route and Santa Vittoria) and many speed down Santa Vittoria---even around the blind turns and sometimes almost hitting parked cars and pedestrians.

Given the number of cars that routinely park along Santa Vittoria, and the number of people who frequently walk along Santa Vittoria's sidewalks (sometimes with children and pets), the fact that non-residents use the street as a by-pass, speed, and disregard stop signs represents a dangerous situation. As a concerned resident, I ask you to please look into making Santa Vittoria a safer street to drive on and walk alongside.

Thank you for your time,

Erik Dunkelberg

11/14/16

To Whom It May Concern:

I am writing in regards to the increased traffic on Santa Vittoria. Since Lake Forest has opened, I have seen and experienced, more and more cars traveling through at high rates of speed. I could once cross the street, barely having to wait for cars, to now I have waited five or so minutes to cross. They also can travel at high rates of speed, I know faster than our 30 mile an hour speed limit. Also, should you be in the process of crossing and a car comes, very rarely do they slow down. I can only imagine what it will be like when the 1,900 or so units go up at the old Verizon area. Is there anything that can be done to at least slow the cars down? Perhaps one of those pedestrian light up signs? An extra stop sign? All I know is the congestion has gotten much worse in the 19 years I have lived in Laguna Village.

Thank You,

Ina F.L. Aparicio

949-697-3714 (should you need to contact)

22245 Cam. Mescalero
Laguna Hills, 92653

Elizabeth Coombs
22312 Caminito Tecate
Laguna Hills, CA 92653
(949) 916-2837
BethCoombs@Gmail.com

City of Laguna Hills
Traffic Commissioner

November 13, 2016

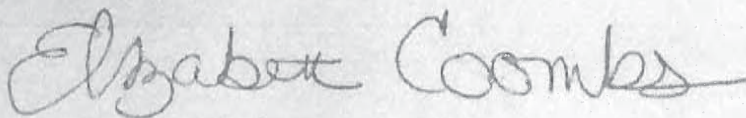
To whom it may concern,

While driving home yesterday on Santa Vittoria I was considering the points I wanted to make in this letter and suddenly I passed by a motorcycle because apparently following the speed limit is unacceptable. The motorcycle swerved into the opposing traffic lane to pass me. This is a common event on this street.

I purchased my condo in 2002, since then I have seen the traffic on Santa Vittoria triple especially since the extension of Lake Forest to the 133. Santa Vittoria has become a shortcut used by many to bypass traffic lights. I can no longer sleep with my windows open and have heard/witnessed numerous accidents as a result of the speed that cars drive in this area. Speeding is a common recreational exercise here. Accidents are also common. Examples would be the overturned car on Ridge Route due to a U-turn at a high rate of speed and the woman who crashed into a tree on Santa Vittoria, both of these in the last year alone. Years ago we had police officers occasionally stationed to ticket speeders. They have not been here in a long time.

With the impending building of more homes or apartments in Irvine Meadows I'm extremely concerned that there will be more traffic, more accidents, and more danger to drivers and pedestrians. I realize we cannot stop progress however I urge you to consider crosswalks, traffic lights and speed bumps in this area. Numerous cars drive up and down this winding residential neighborhood at excessive speeds. My mother and my blind father who also live here on Caminito Tasquillo are no longer able to walk in the community. There are many children in this area that are in danger of crossing Santa Vittoria because of the traffic also. Please consider implementing safeguards before we have a tragedy.

Thank you.



Elizabeth Coombs
22312 Caminito Tecate

Dear City of Laguna Hills Traffic Commissioner,

I prefer offering solutions rather than exclaiming complaints.

Re: Santa Vittoria traffic safety

Can we please put speed bumps?

Can we please have police issue more speeding tickets?

Can we please add crosswalks?

Sincerely,

Efthemia Papadopoulos
23452 Caminito Juanico
Laguna Hills, CA 92653
(949) 466-4193

November 16, 2016

Nicole Budicin-Tiano
22224 Caminito Mescalero
Laguna Hills, CA 92653
nbudicintiano@gmail.com

ATT: Laguna Hills Traffic Commission

Re: Increased traffic, collisions, crime and drop in safety for Laguna Village Owners Association

To whom that it concerns:

Since moving into the community of Laguna Village in 2013 we have noticed an increased amount of traffic in the past 2 years (2014-present). The speed at which vehicles travel at as they go up and down Santa Vittoria (both East and West bound) are horrifying. I have almost been hit head on by a distracted driver on her phone/texting, driving WAY over the speed limit and crossed into my lane. Had there not been an open spot for me to swerve into we would've hit head on. The scariest thing about that incident is that there are most often cars parked along Santa Vittoria. Had that been the case that day we would have had the collision. In addition to gross speeds, distracted drivers, and near collisions I have experienced on Santa Vittoria, I have also been witness to drivers who do NOT stop at the stop sign(s) at Ridge Route and Santa Vittoria. When we take our toddler for walks in the stroller we never cross the street at Santa Vittoria unless there are zero cars in sight. I have witnessed not only mothers/grandmothers crossing this intersection with strollers and children, but regular pedestrians crossing here and watching cars just drive right on through their cross walk as if they're not crossing the street.

It is my personal opinion that we have seen a gross amount of traffic through our neighborhoods due to the booming construction in Irvine right around the corner at the 133 and Lake Forest, as well as Los Olivos area located at the 405 and Irvine Center Drive. When we moved here Hidden Canyon was not developed, Los Olivos was still in its finishing phases and the shopping center with Whole Foods was still empty land. Since the development of said areas the traffic has skyrocketed and safety has plummeted.

I would hate to see several speed bumps go in down Santa Vittoria. However, if there were increased patrol sitting at the stop sign at RR & SV as well as Caminito Jalisco & SV I am willing to wager that the through traffic would drop dramatically and safety among drivers and pedestrians would rise once again.

Thank you,
Nicole Budicin-Tiano

From Thomas Chancellor
Laguna Village Homeowner
Caminito Mescalero

11/12/16

The one thing I personally notice is the City's unwillingness to address vehicles parked on No Parking Fridays 8-12. Ken was the one I worked with to implement the policy and it has been somewhat effective. It doesn't help that there are no Parking Enforcement staff on Fridays AM, and not enough Officers at that time as well, so it gets overlooked on a regular basis.

That would be one complaint, along with the unwillingness to cite over-sized vehicles that constantly park on Vittoria. 90" wide x 90" tall is what is posted, yet I frequently see vehicles/trucks/trailers that are well past these dimensions. The size restrictions are there for a reason, it is much harder to see and navigate around larger vehicles. It is a safety hazard.

11/14/16

Jazmyn Channel

Caminito Escobedo

I cannot make it to the meeting. I hope this helps you. A few months ago, I was making a left onto Ridge Route. An elderly lady, who was talking on her phone, blew through the stop sign. If it were not for my anti-collision system, breaking for me, I would have T-Boned her. I did notice she had Laguna Wood's parking tags. I have been flipped off and cussed out by "short cutters" who were tail gating me, because I do the speed limit, and point to the 30 MPH. I was waiting for some people in the cross walk, when the car behind me started honking at me. I pointed at the people in the cross walk, the man almost hit my car, went around me, and turned left onto RR, almost hitting the people crossing the streets dog.

I cannot tell you how many times I have seen people ignore the school bus at RR & SV, when the stop sign is out, and the lights are flashing. I would also like to bring up the driving schools who teach their students how to drive, in our neighborhood. I have had some issues with them also.

November 13, 2016

Dear Traffic Commissioner,

I am writing to express my concerns about the increased amount of traffic and lack of police presence and enforcement in Laguna Village, a community of 914 condo units in Laguna Hills. To follow are just a few of my observations:

Driving up Santa Vittoria from Lake Forest Drive, you will come upon blind curves. Oftentimes there are oversized vehicles parked along Santa Vittoria near these blind curves, making this particularly dangerous at night with oncoming traffic. Some oversized vehicles even place plyons next to their vehicles.

Vehicles are parked along Santa Vittoria on Friday mornings, completely disregarding our street sweeping. There is no patrol citing these vehicles.

I live very near the corner of Ridge Route and Santa Vittoria. This is an intersection crossed by many children attending San Joaquin Elementary School, yet many cars do not come to a full stop at this intersection. Some do not stop at all. We have experienced more racing, speeding and accidents along Santa Vittoria.

What is it going to take for the City of Laguna Hills to do something about this? A child getting injured or killed perhaps? Police presence and citations would deter these illegal actions as well as create revenue for the City of Laguna Hills.

Please protect our community.

Thank you,



Jonnie Demmer
22205 Caminito Vino
Laguna Hills, CA 92653

To Whom it may Concern:

I have been a home owner in Laguna Village for almost Ten Years now. When the Lake Forrest/133 access road opened up there has been a dramatic increase in the following problems:

- 1) Racers—almost every weekend they can be heard racing up and down on Santa Vittoria all night long. It is dangerous and disturbing to all of the residents. The racers love to race through the four way stop and then do a series of high speed donuts. If anyone would care to patrol the area, you can see the circles still etched in the street. On Halloween night this year, several of us were awoken in the area by a racer who was tearing around our complex at 2:30 am. He did end up wrecking into a bus sign and knocking it over.
- 2) Now that our complex is the “short cut” to Lake Forrest and freeways, we have far too much traffic during the traditional rush hours. A large amount of people are running the Ridge Route/Santa Vittoria four way stop, some slowdown. some race right through. We have dog walkers, small children, school buses picking up children on Santa Vittoria, it is a matter of time before someone is seriously injured. I myself had to literally dodge being hit in that intersection IN THE CROSSWALK by a car who did not even slow down for the stop.
- 3) The curve down by Veeh Ranch Park has become increasingly dangerous since the opening of Lake Forrest Road. Drivers are not following the speed limit down that hill. Close to the bottom, as you turn there is a blind corner. Drivers are hitting that curve at a high speed (posted is 25 mph). The reason this is an accident waiting to happen is, cars are parking on the side of the street and exiting their cars to access the park. The utility trucks there all the time to service the El Toro Water Treatment center there are also parking and exiting their vehicles. There needs to be a Police patrol there immediately handing out speeding tickets. People are rushing to work, using Santa Vittoria as their shortcut to the freeways with little regard to the 25 MPH speed limit.

I would like to know why we have no Police presence in this area even though many of us in this area have complained to both Irvine and Laguna Hills police departments. We used to see motorcycle patrols frequently handing out tickets at the Ridge Route/Santa Vittoria intersection. This really helped as the word gets out about Police presence in the area. We have been left to fend for ourselves and dodge the racers for at least two years now. As I pay my property tax in the amount of \$ 485.00 per month, I am beyond angry!!! What is it going to take to get some support for this area???

Thank you for your time, Susan Pinski

Susan Pinski

Accounting Manager



P O Box 15128

Santa Ana, Ca 92735

714-835-4612 714-835-2186 (fax)

spinski@radoscompanies.com

November 16, 2016

Dear City of Laguna Hills Traffic Commission:

For over 25 years I have been a homeowner on Caminito Tecate in Laguna Hills, in the community of Laguna Village. My home overlooks Santa Vittoria, a street which divides two sections of this formerly safe and quiet residential community. Ever since Lake Forest Drive connected to Route 133, many commuters outside this residence have been using Santa Vittoria to/from Ridge Route to bypass signals. Not only has it significantly increased traffic, it has come with a callous disregard for speed and traffic laws, other drivers and pedestrians. Drivers come flying around blind corners making it very dangerous to even walk my dog across the street.

This year I've observed two accidents below my property as well as the destruction left by three more. Prior to the Lake Forest & 133 merge, I can remember only seeing two other accidents below my property in my 25 years here, one was a young man driving very early in the morning, hitting a car parked along Santa Vittoria, just beyond a blind curve.

Recently, I know a light post was "taken out" by a car near our clubhouse. Someone else ran into the fence at Ridge Route near Santa Vittoria, supposedly to avoid hitting a coyote, but going so fast she overturned her car and almost took out one of our beautiful jacaranda trees. A man sped along Santa Vittoria and hit two cars throwing them onto the sidewalk then backed up damaging five additional cars. My husband and I hear racing by very loud vehicles very late at night and can no longer leave our bedroom window open while sleeping, which is the least of our concerns, yet was never an issue.

I took a video at a random time: Thursday at 11:45 am. I counted 8 cars in one minute, which would have been unheard of just a couple of years ago. If we had some police presence I am sure we could deter the illegal activity while collecting revenue that I surmise would more than pay for the patrol we need in our community. This area could keep a patrolman citing non-stop.

Thank you for your sincere consideration.

Susan Christenson

22316 Caminito Tecate

Laguna Hills, CA 92653

Patti Casas

22252 Caminito Tasquillo

(949) 380-1076

11/13/16

When I purchased my condo nearly 21 years ago, it was a beautiful and quiet little piece of Laguna Hills quite unlike any other condo community in Orange County. It is still a great community but a lot has changed in the last few years with the opening of Tesla to Santa Vittoria as well as Lake Forest to the 133 we have seen the following:

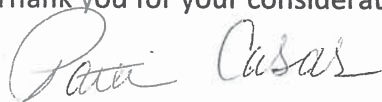
- Exponentially increased traffic with Santa Vittoria serving as a pass through
- Higher Crime and vandalism
- Loss of the ability to safely cross the street in the cross walk
- Speeders, racers and drivers who simply will not stop at the stop sign
- Loud cars who like to turn donuts late at night at Ridge Route and Vittoria
- Several accidents resulting to damage to our landscaping, fencing and cars parked on the street
- Oversized vehicles parking and obstructing driver's views on Santa Vittoria
- Trash and empty alcohol bottles (or their broken glass) flung from cars as they pass through our community, usually late at night
- Drivers honking, flashing lights, and gesturing at you as you drive the speed limit and turn onto your street to get home
- Up until a month ago (when the bus route through here stopped) we had people using our private parking lots for "Park and Ride"

Why are people doing these things? Because they can, NO ONE is stopping them. We used to have regular motorcycle officers in our community ticketing speeders and non-stoppers and I believe this really helped. They have not been here on a regular basis for a couple of years. I ask you, why not? We feel like we are the community that the City of Laguna Hills forgot ~

We want you to know that we need your help. Things are going to get worse with the development of approximately 2,000 new apartments at the Irvine Meadows site in the near future.

How about some better signage, flashing lights, speed bumps and more frequent law enforcement visits. And, possibly asking the City of Irvine to put speed limit signs on Tesla (there are none at present) with a lower speed so that drivers speeding on Tesla just might not continue at their high speed when crossing onto Santa Vittoria.

Thank you for your consideration,



13Nov2016

To whom it may concern,

Greetings, I'm Mike Chambers. I have owned a home in Laguna Village since 2009. One of the primary reasons I moved to this particular location was because of the quiet, beautiful, peaceful, almost pollution-free surroundings—I live next to the newly labeled “Preservation Area”. When I moved here the map identified this area as a “Wilderness Area”. Since the recent developments it has now been changed its new name. And to my dismay, over the last few years, it can barely be called a “Preservation Area”, according to my definition. However, it is still an actual wildlife/ecological habitat and reserve runoff area for the San Diego Creek—although deteriorating rapidly due to the new developments.

I understand that things must change for progress to transpire. However, what type of progress are we searching for and allowing? Since I've lived here I have observed the development of Laguna Altura (597 homes). Which is a very nice community on the other side of the hill. The following year, we in this area were exposed to the destruction of a popular family entertainment area—the “Wild Rivers” water park. This was to allow the development of 1,750 Apartment Homes called “Los Olivos Phase I”.

In 2013 I received a notice from the city of Irvine that my property was within 500 feet of the proposed development area. This new development was to be called “Hidden Canyon”, and was supposed to be 160 homes. I attended all the city meetings and wrote letters of response when they wanted to increase the density from 160 homes to 258. They passed their density increase and gave little concession, even though I advised them, with their own past research, that it would be contradicting some of their own rules and requirements on noise and pollution.

Prior to the start of the Hidden Canyon project they extended Lake Forest Drive to connect with Laguna Canyon Road to accommodate the new development. Since then this entire area has been slowly disintegrating: More traffic; more noise; more pollution; more dust; more crime; less wildlife; less ecological growth; less safety; less peace; less beauty, etc.

Now we are facing another huge development (the largest in Orange County) as the Irvine Company plans to add another 1,950 Apartment Homes. This will be after demolishing the voted: “2015's Best Venue in Orange County”—the Verizon/Irvine Amphitheater. The proximity of this new large development will exponentially add even more traffic; more noise; more pollution; more dust; more crime; less wildlife; less ecological growth; less safety; less peace; less beauty, etc.

Please help us figure out a solution to this ongoing problem within the Laguna Village Community and its surroundings!

Sincerely,
Michael Chambers
Caminito Escobedo,
Laguna Hills, CA
PowerChek@aol.com

11/16/16

To Whom It May Concern,

After moving here a little over 2 years ago, I have experienced many close calls and traffic violations along Santa Vittoria. Among these have been consistent "California Stops" through the intersection at Santa Vittoria and Ridge Route. This is not only consistent with the video that Susan has presented to the Council, but happens when there are also pedestrians crossing or about to cross and also when there is another car at the intersection which would otherwise impede the path of the violating vehicle.

Also of concern is the traffic coming from and to Lake Forest. Due to the nature of the street there are many cars that consistently exceed the speed limit while going down a hill with a steep curve as well. This is a dangerous path with the amount of traffic coming from and going through the area since there is a park with many parents and kids getting in and out of cars along with families crossing the street to walk back home while also avoiding the traffic coming down a blind curve. I consistently walk with my young sons along these paths and would like to see if there is a solution that can be obtained in order to increase safety while also reducing unnecessary accidents along these two areas of Santa Vittoria.

Thank you for your time. Best Regards,

Shawn Kirch
Caminito Marcial Resident

11/14/16

4:30 pm

Santa Vittoria @ Jalisco So.

Cars heading to Ridge Route or
Santa Maria

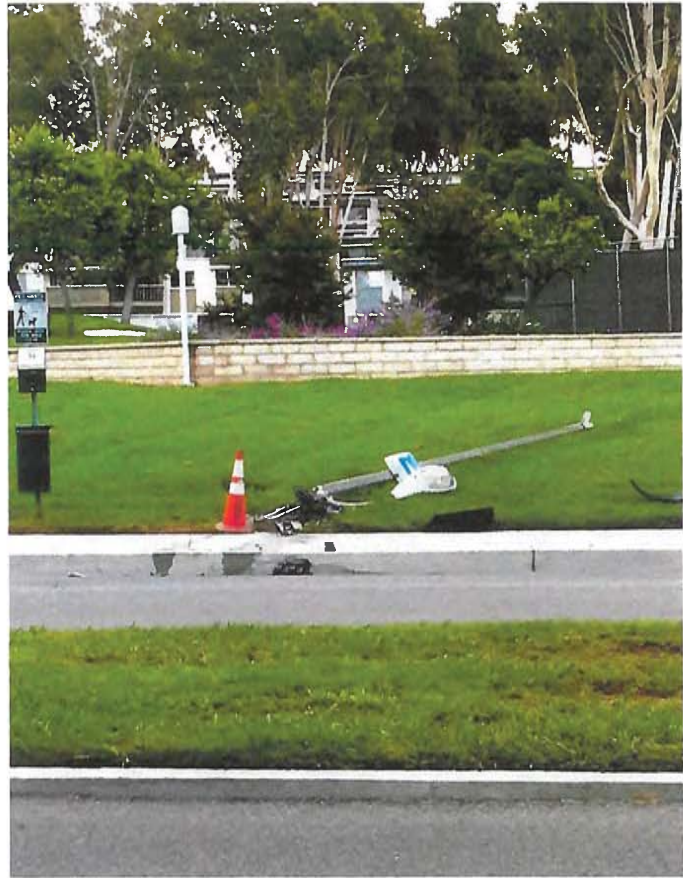
(Prior to start of 5:00pm+ busier
Traffic)



Attachment: Traffic Commission Agenda Item 4.1_9-19-18 (1820 : Repeat Speed Survey on Santa Vittoria Drive Between Ridge Route Drive and

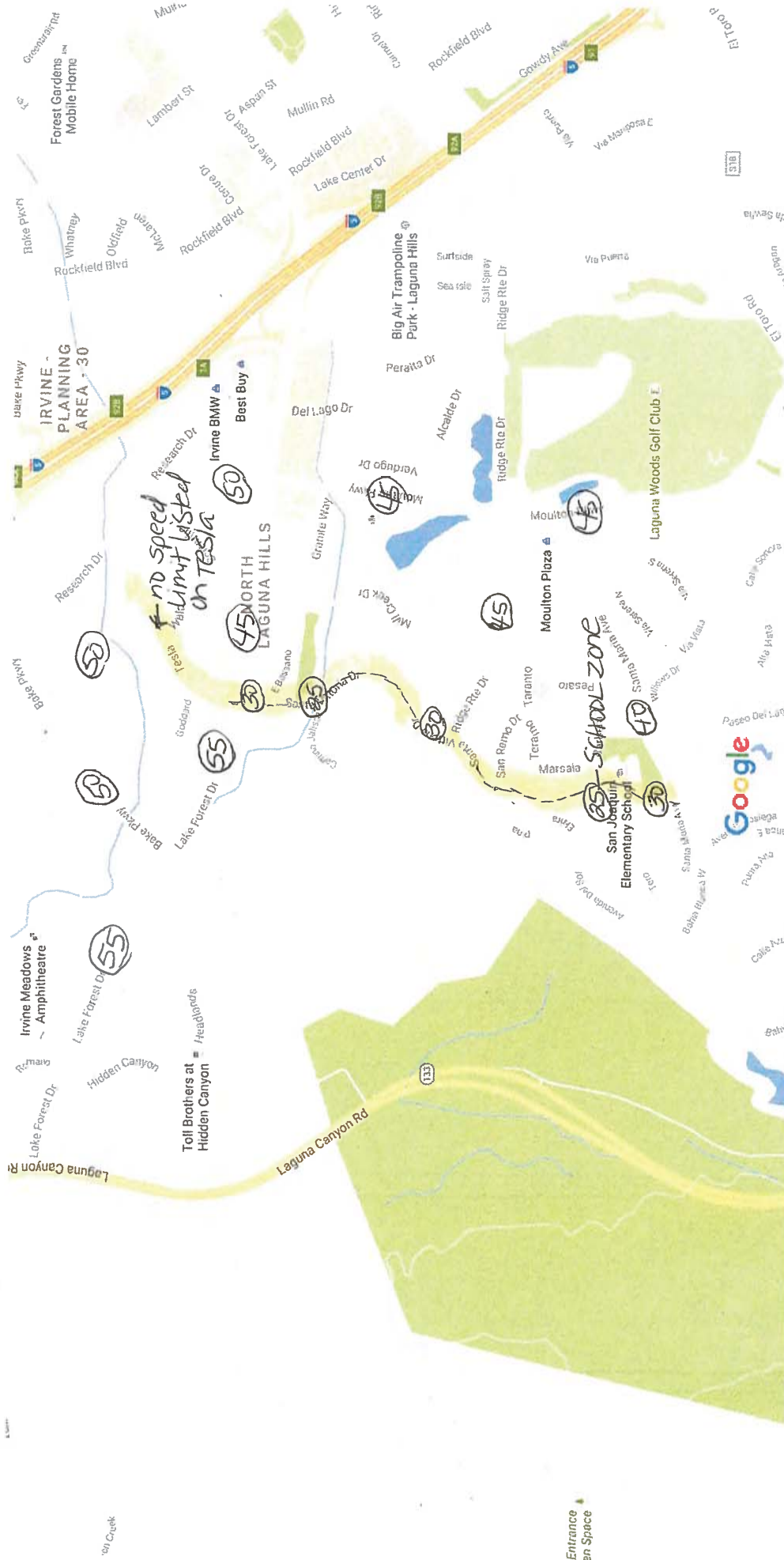
11/1/16

Most current damage to our community caused by a reckless driver on Santa Vittoria Drive, very late Halloween night. His car spun out of control after doing several high speed donuts at the intersection of Ridge Route and Santa Vittoria hitting the concrete lamp post and knocking it down.



How it looks today – a tub with “High Voltage” written on it covering several exposed wires, very near water that runs from irrigation lines – not safe!

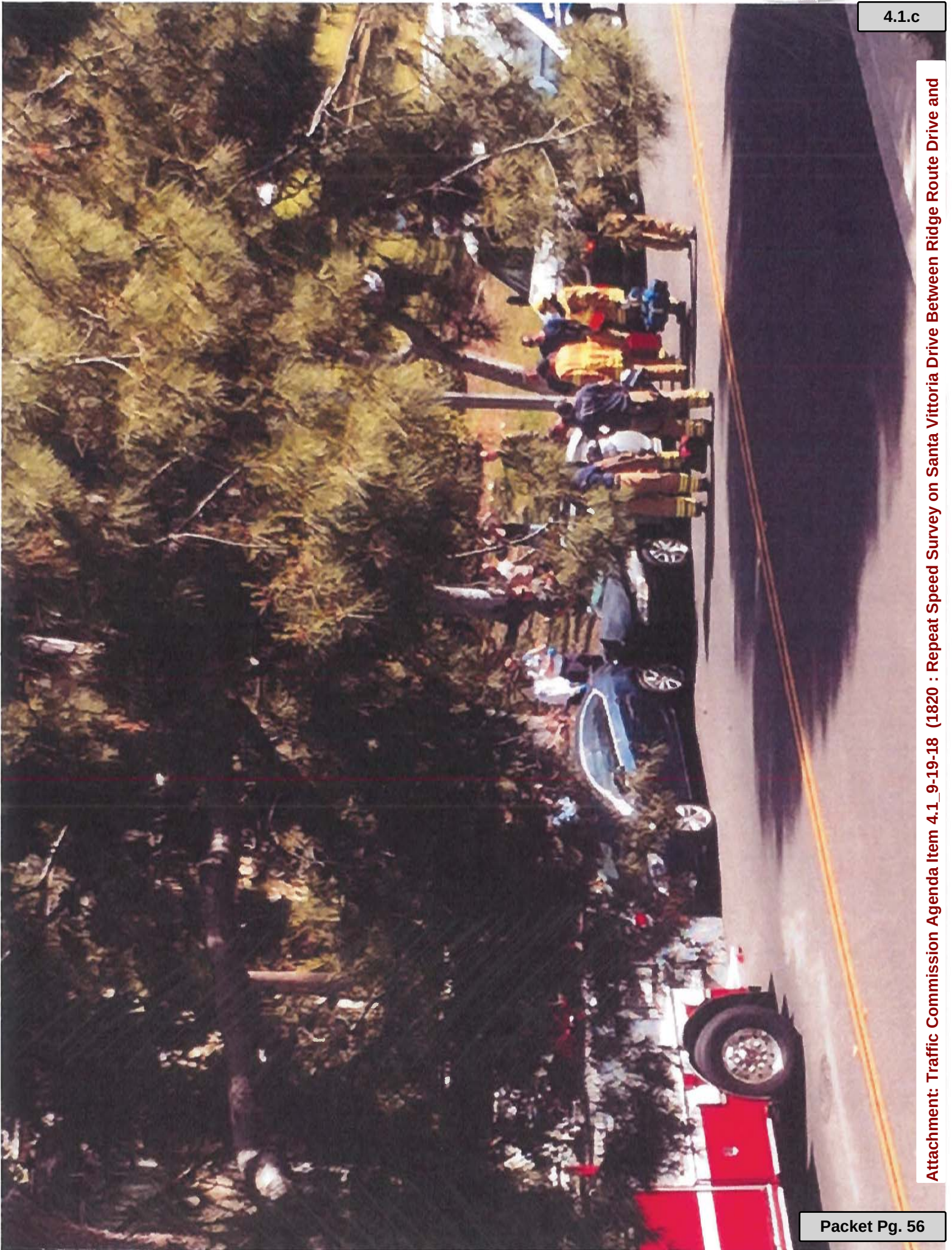


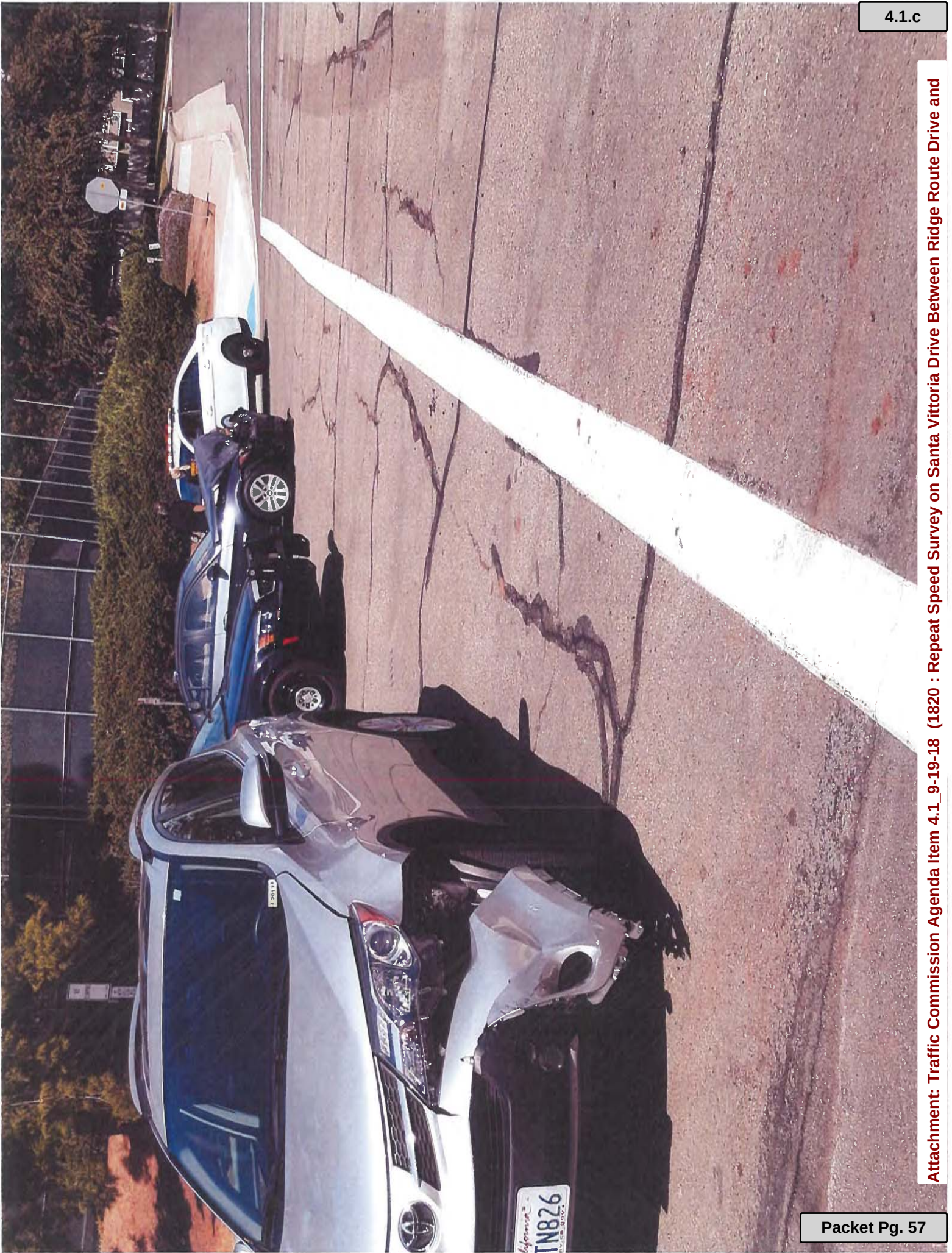


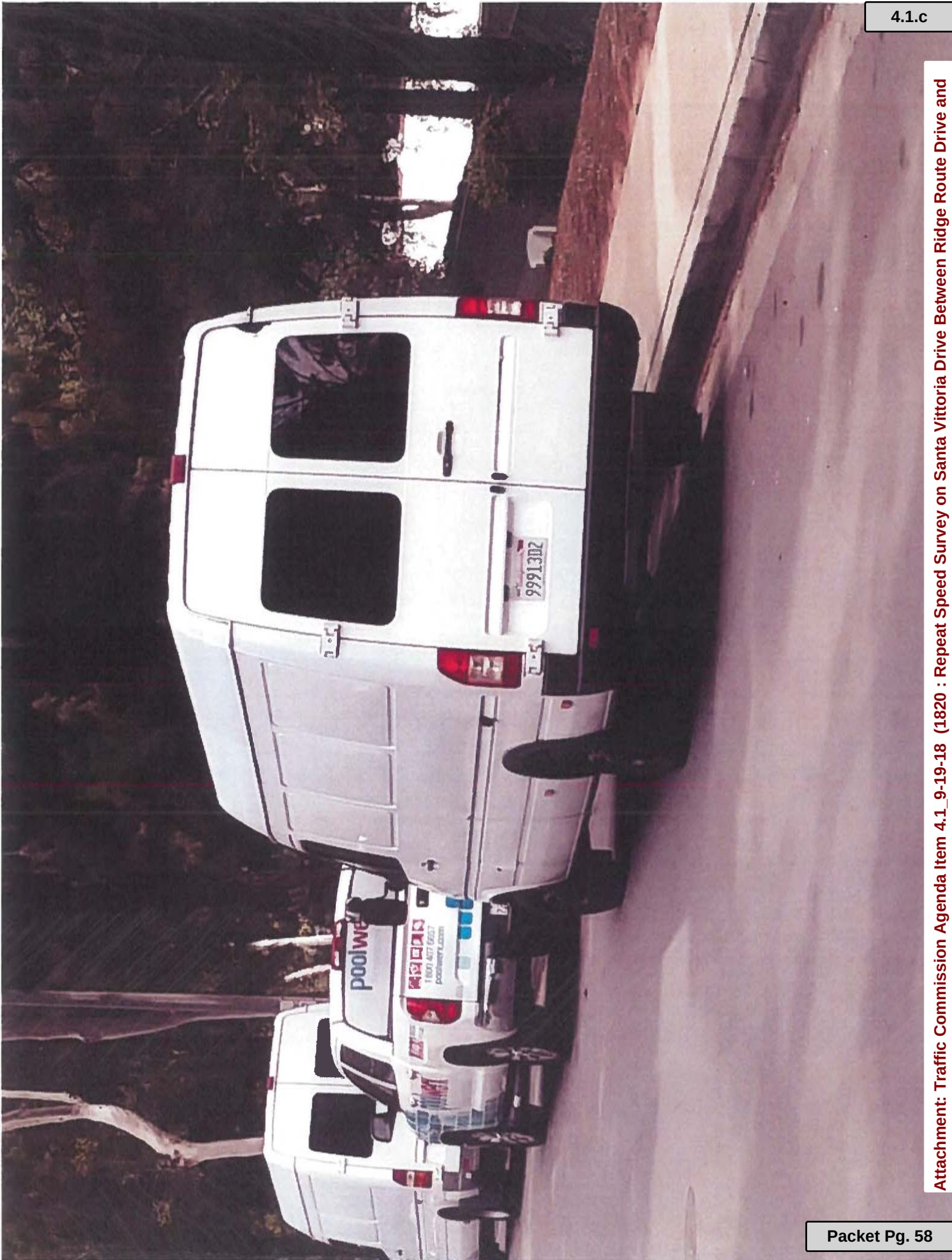
Santa Vittoria:
 Moulton / Irvine Center Dr:
 Lake Forest:
 Santa Maria:
 Bake Parkway:
 Tesla:

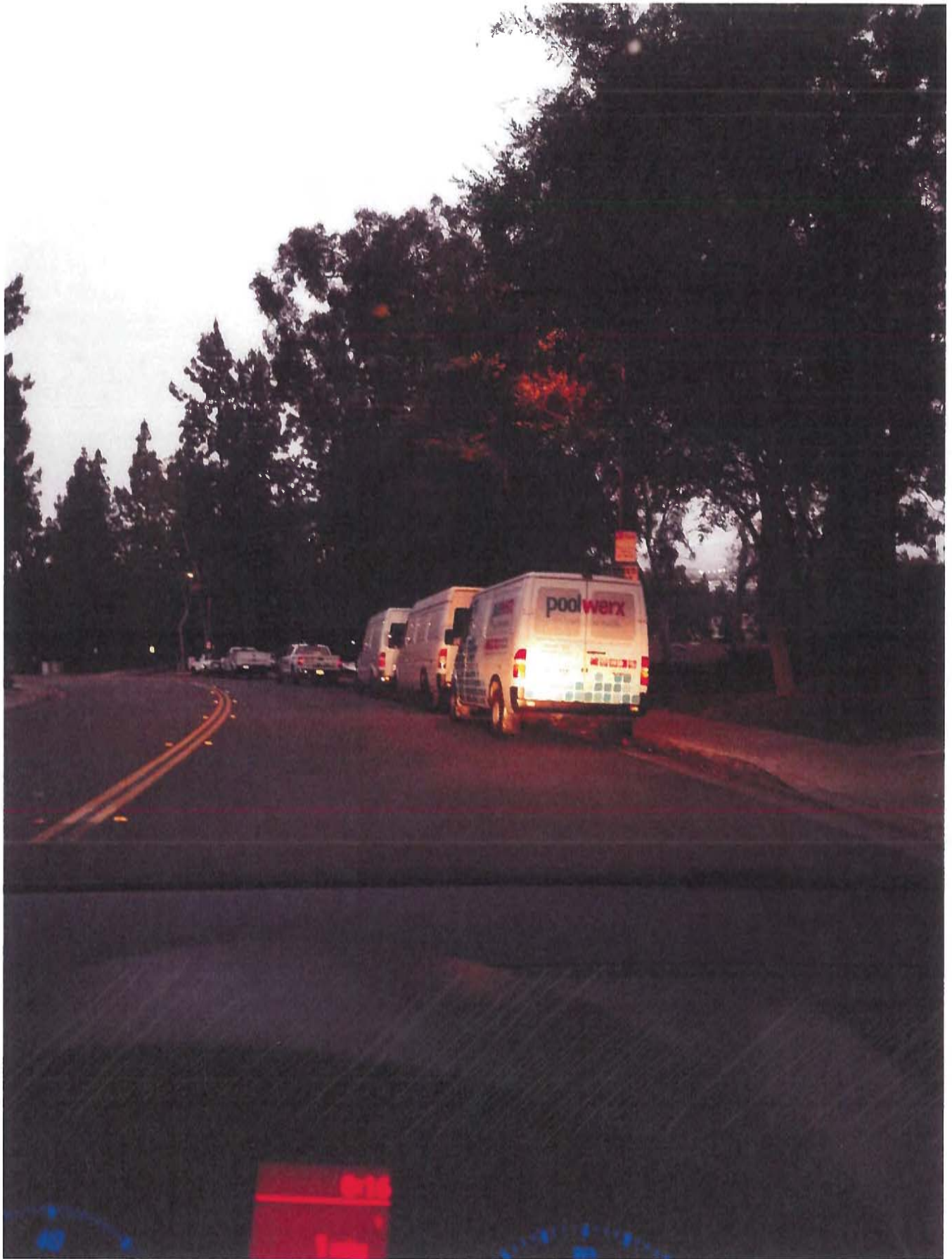
30 except for 25 at the school zone, San Juan Elementary and at the curve just before Veeh Ranch Park
 45 on Moulton, 50 on Irvine Center Drive just past Scientific
 55 from the 133 to Santa Vittoria/Tesla intersection, 45 after that
 40 MPH
 50 MPH
 No Speed limit posted











Attachment: Traffic Commission Agenda Item 4.1_9-19-18 (1820 : Repeat Speed Survey on Santa Vittoria Drive Between Ridge Route Drive and



Attachment: Traffic Commission Agenda Item 4.1_9-19-18 (1820 : Repeat Speed Survey on Santa Vittoria Drive Between Ridge Route Drive and



Trammell Hartzog, President
Gerald J. Stock, PE, TE,
Executive Vice President

17852 E. 17th Street
Suite 101
Tustin, CA 92780

Phone: (714) 731-9455
FAX: (714) 731-9498

www.hartzog-crabill.com

September 6, 2018

Mr. Kenneth H. Rosenfield, PE
Assistant City Manager/Public Services Director
City of Laguna Hills
24035 El Toro Road
Laguna Hills, CA 92653

**Subject: Traffic Data Evaluation - Letter of Opinion -
Speeding and Collision Concerns along Santa Vittoria Drive**

Dear Mr. Rosenfield,

Pursuant to your request, Hartzog & Crabill, Inc. (HCI) has prepared this traffic engineering evaluation regarding residential concerns of speeding and collisions along the street segment of Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive.

The following data was gathered/performed as part of this evaluation:

- 1) Collect Average Daily Traffic (ADT) count on Santa Vittoria Drive
- 2) Perform (2) radar speed surveys on Santa Vittoria Drive
- 3) Review traffic collision history
- 4) Site visit to verify existing traffic controls, including signing/stripping

BACKGROUND

Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive, is primarily a 40-foot wide, 2-lane, curvy, north-south collector roadway. At the project limits, the roadway widens to include raised landscaped center medians, and a traffic signal at the northerly end of Lake Forest Drive, and a 3-way stop at the southerly end of Ridge Route Drive. There is a double-yellow centerline stripe along the narrow portions of this segment.

There are posted 30 MPH speed limit signs along Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive. There are also '30' pavement markings adjacent to the sign postings. On-street parking is prohibited on certain sections of Santa Vittoria Drive by various posted No Parking Any Time signs, No Parking on Street Sweeping day signs, and No Stopping Any Time signs.

Mr. Kenneth H. Rosenfield, PE
 September 6, 2018
 Page 2 of 5

TRAVEL SPEED DATA

To determine travel speeds on Santa Vittoria Drive, two spot speed radar surveys were conducted along this residential collector roadway on Wednesday, August 15, 2018 (see attached). The tables below summarize the radar speed data.

SPEED SURVEY SUMMARY SANTA VITTORIA DRIVE, FROM LAKE FOREST DRIVE TO RIDGE ROUTE DRIVE

<u>9:00-10:00AM</u> Radar Speed Data Summary	Northerly End Towards Lake Forest Drive
85 th Percentile Speed	40.6 MPH
Median Speed	35.1 MPH
15th Percentile Speed	30.0 MPH
10 MPH Pace Speed	31 - 40 MPH
Percent in Pace Speed	67.5%

<u>3:00-4:00PM</u> Radar Speed Data Summary	Southerly End Towards Ridge Route Drive
85 th Percentile Speed	35.6 MPH
Median Speed	31.2 MPH
15th Percentile Speed	27.4 MPH
10 MPH Pace Speed	27 - 36 MPH
Percent in Pace Speed	80.3%

As shown in the two tables above, the highest 85th-percentile speed on Santa Vittoria Drive was recorded in the morning at 40.6 MPH. This data shows that higher than typical travel speeds are occurring above the posted 30 MPH speed limit.

Mr. Kenneth H. Rosenfield, PE
 September 6, 2018
 Page 3 of 5

TRAFFIC VOLUME DATA

Average Daily Traffic (ADT) counts were collected for the segment of Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive, on Tuesday, August 14, 2018.

The ADT, or 24-hour two-way traffic volume, along this segment resulted in 5,986 vehicles (see attached).

A two-lane collector street generally has a Level-of-Service (LOS) 'D' capacity of 11,300 vehicles per day. Consequently, the existing traffic volume is still well under the roadway capacity, and there are no recommendations regarding traffic volumes.

COLLISION DATA

HCI obtained the most recent, raw, citywide collision data that has been reported during the past five (5) years (between January 1, 2013 - May 31, 2018) from the Statewide Integrated Traffic Records System website (*i-SWITRS*) database. HCI then reviewed and prepared a collision history report to determine the number of collisions occurring on this particular segment of Santa Vittoria Drive. The table below presents the summary collision data, not including collisions identified on Lake Forest Drive at Santa Vittoria Drive.

TRAFFIC COLLISION DATA SUMMARY SANTA VITTORIA DRIVE, FROM LAKE FOREST DRIVE TO RIDGE ROUTE DRIVE

YEAR	NUMBER OF COLLISIONS	FATAL	INJURY	PROPERTY DAMAGE ONLY
2013	2	0	1	1
2014	0	0	0	0
2015	1	0	0	1
2016	4	0	1	3
2017	3	0	2	1
2018 *	2	0	1	1

* Available SWITRS data was up to May 2018 at the time of report preparation.

As shown above, there were a total of twelve (12) collisions reported along this segment within the last (5-1/2) years. These collisions were recorded as Rear End, Hit Object, Sideswipe and Broadside types. The various collisions were also categorized as Improper Turning, Traffic Signals and Signs, Driving Under the Influence, Following Too Closely, Unsafe Speed, Automobile ROW, and Other. Only one of the 12 were categorized as Unsafe Speed; therefore, there are no other recommendations regarding collisions at this time.

Mr. Kenneth H. Rosenfield, PE
September 6, 2018
Page 4 of 5

FIELD REVIEW

Our evaluation tasks included performing a field-review of the project segment of Santa Vittoria Drive for verification of existing conditions. HCI included the following two photographs as representative of existing conditions. As shown, the asphalt roadway and signing and striping are in good condition; consequently, there are no other field recommendations at this time.



Santa Vittoria Drive (*Looking Southbound*)



Santa Vittoria Drive (*Looking Northbound*)

Mr. Kenneth H. Rosenfield, PE
September 6, 2018
Page 5 of 5

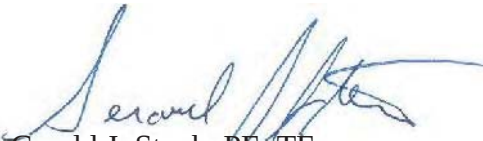
RECOMMENDATIONS

As speeding was verified on Santa Vittoria Drive above the 30 MPH speed limit, it is recommended that an incremental approach be taken to address the higher travel speeds. Initial steps include:

- increased law enforcement.
- deployment of portable radar speed-feedback trailers.
- neighborhood watch committee meeting to help make all residents aware of speeding.
- review speed conditions in six months

It has been our pleasure to prepare this letter of opinion regarding Santa Vittoria Drive. If you may have any questions or need additional information, please feel free to call us anytime at (714) 731-9455.

Sincerely,
HARTZOG & CRABILL, INC.



Gerald J. Stock, PE, TE
Executive Vice President

Attachments: Radar Speed Data
 ADT Volume Data
 Collision History

Speed Data

SUMMARY OF RECOMMENDATIONS

STREET LOCATION	EXISTING SPEED LIMIT	RECOMMENDED SPEED LIMIT	85 TH PERCENTILE SPEED	AVERAGE SPEED	10 MPH PACE RANGE	PERCENT OF VEHICLES IN PACE	DAY / TIME / DATE
SANTA VITTORIA DRIVE							
LAKE FOREST TO CAMINITO COSTA							
S/O of CAMINITO JALISCO			40.6	35.1	31-40	67.5	WED / AM / 9:00 – 10:00
N/O of CAMINITO JALISCO			35.4	30.4	27-36	83.2	WED / AM / 10:00 – 11:00
CAMINITO COSTA TO RIDGE ROUTE							
S/O of CAMINITO COSTA			35.6	31.2	27-36	80.3	WED / PM / 3:00 – 4:00
AT CAMINITO JALISCO (S) (Near Ridge Route)			33.9	29.8	27-36	87.0	WED / PM / 4:00 – 5:00

HARTOG AND CRAIG, INC.

Consulting Traffic Engineers
13832 Santa Rita Blvd., Suite 100, San Jose, CA 95139
(415) 351-1542

Radar Speed Survey Field Sheet

AGENCY: CITY OF LAGUNA HILLS DATE: 8-15-18
 STREET: SANTA VICTORIA ROAD CONDITION: DRY START TIME: 9:00 AM
 LOCATION: LAKE FOREST DR TO CAMINITO COSTA OBSERVER: CATHY BUENDIA END TIME: 10:00 AM var

510 SAN JUAN

DIRECTION: <u>SOUTHBOUND</u>		NUMBER OF VEHICLES				TOTAL	DIRECTION: <u>NORTHBOUND</u>		NUMBER OF VEHICLES				TOTAL	CUMULATIVE TOTAL	MPH
MPH	5	10	15	20	25	30	MPH	5	10	15	20	25	30		
60							60								60
59							59								59
58							58								58
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15							15								15

AVERAGE SPEED: _____ PACE _____
 CRITICAL SPEED: _____ PACE _____

RADAR SPEED DISTRIBUTION SHEET

HCI

CITY OF LAGUNA HILLS

SANTA VITTORIA DRIVE
LAKE FOREST TO RIDGE ROUTE (s/o CAM. JALISCO)
DATE: 8/15/2018
SURVEY BY:
C. BUENDIA
TIME: 9:00 AM - 10:00 AM
CHECKED BY:
JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60					X	100.0%
59					X	100.0%
58					X	100.0%
57					X	100.0%
56					X	100.0%
55					X	100.0%
54					X	100.0%
53					X	100.0%
52					X	100.0%
51					X	100.0%
50					X	100.0%
49					X	100.0%
48					X	100.0%
47					X	99.5%
46					X	99.0%
45					X	97.9%
44					X	96.4%
43					X	95.4%
42					X	90.7%
41					X	86.6%
40				X		82.5% } PACE ---85PCT
39				X		77.3% } PACE
38				X		73.2% } PACE
37			X			65.5% } PACE
36			X			58.8% } PACE
35			X			49.5% } PACE ---MEAN
34		X				39.7% } PACE
33		X				33.5% } PACE
32	X					25.8% } PACE
31	X					22.7% } PACE
30	X					14.9% ---15PCT
29	X					10.3%
28	X					8.2%
27	X					6.7%
26	X					2.6%
25	X					2.6%
24	X					0.0%
23	X					0.0%
22	X					0.0%
21	X					0.0%
20	X					0.0%
19	X					0.0%
18	X					0.0%
17	X					0.0%
16	X					0.0%
15	X					0.0%

UPPER LIMIT 10 MPH PACE: 40 MPH
 LOWER LIMIT 10 MPH PACE: 31 MPH
 PERCENT OVER PACE: 17.5 %
 PERCENT IN PACE: 67.5 %
 PERCENT UNDER PACE: 14.9 %

85th PERCENTILE SPEED: 40.6 MPH
 MEDIAN SPEED: 35.1 MPH
 15th PERCENTILE SPEED: 30.0 MPH

i Vittoria SPD 2018-AM1

Radar Speed Survey Field Sheet

HARTZOG AND CRABILL INC.

AGENCY:

STREET: SANTA VITTORIA

LOCATION: LAKE FOREST TO CAMINO COSTA (N 6 CAM. SALISCO)

WEATHER:

DATE: 8-15-18

ROAD CONDITION:

START TIME: 10:00 AM

OBSERVER: CATHY BUENDIA

END TIME: 11:00 AM

VIAL

DIRECTION: SOUTHBOUND					DIRECTION: NORTHBOUND				
NUMBER OF VEHICLES					NUMBER OF VEHICLES				
5 10 15 20 25 30					5 10 15 20 25 30				
60									
59									
58									
57									
56									
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54									
53									
52									
51									
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15									

DIRECTION: SOUTHBOUND					DIRECTION: NORTHBOUND				
NUMBER OF VEHICLES					NUMBER OF VEHICLES				
5 10 15 20 25 30					5 10 15 20 25 30				
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17									
16									
15									

AVERAGE
SPEED:CRITICAL
SPEED:PACE
SPEED:AVERAGE
SPEED:CRITICAL
SPEED:PACE
SPEED:

CUMULATIVE TOTAL	MPH
	60
	59
	58
	57
	56
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RADAR SPEED DISTRIBUTION SHEET

HCI
CITY OF LAGUNA HILLS
SANTA VITTORIA DRIVE
LAKE FOREST TO RIDGE ROUTE (s/o CAM. JALISCO)
DATE: 8/15/2018
SURVEY BY:
C. BUENDIA
TIME: 10:00 AM - 11:00 AM
CHECKED BY:
JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60					X	100.0%
59					X	100.0%
58					X	100.0%
57					X	100.0%
56					X	100.0%
55					X	100.0%
54					X	100.0%
53					X	100.0%
52					X	100.0%
51					X	100.0%
50					X	100.0%
49					X	100.0%
48					X	100.0%
47					X	100.0%
46					X	100.0%
45					X	100.0%
44					X	100.0%
43					X	100.0%
42					X	100.0%
41					X	98.9%
40					X	98.4%
39					X	98.4%
38					X	96.2%
37					X	95.1%
36					X	88.1% }PACE
35					X	83.2% }PACE ---85PCT
34					X	75.7% }PACE
33					X	67.0% }PACE
32					X	60.0% }PACE
31					X	54.1% }PACE
30					X	47.0% }PACE ---MEAN
29					X	32.4% }PACE
28					X	23.8% }PACE
27					X	13.5% }PACE ---15PCT
26					X	4.9%
25					X	1.1%
24					X	0.0%
23					X	0.0%
22					X	0.0%
21					X	0.0%
20					X	0.0%
19					X	0.0%
18					X	0.0%
17					X	0.0%
16					X	0.0%
15					X	0.0%

UPPER LIMIT 10 MPH PACE: 36 MPH
 LOWER LIMIT 10 MPH PACE: 27 MPH
 PERCENT OVER PACE: 11.9 %
 PERCENT IN PACE: 83.2 %
 PERCENT UNDER PACE: 4.9 %

85th PERCENTILE SPEED: 35.4 MPH
 MEDIAN SPEED: 30.4 MPH
 15th PERCENTILE SPEED: 27.1 MPH

Santa Vittoria SPD 2018

Radar Speed Survey Field Sheet

HARTZOG AND CRABILL INC.
Consulting Traffic Engineers
11552 Lake Blvd, Suite 122, Tustin, CA 92680
(714) 731-5482

AGENCY: CITY OF LAGUNA HILLS

STREET: SANTA VITTORIA

LOCATION: CAMINITO COSTA TO RIDGE ROUTE

510 CAM. COSTA

WEATHER: SUNNY

DATE: 8-15-18

ROAD CONDITION: DRY

START TIME: 3:00 PM

OBSERVER: CATHY BUENDIA

END TIME: 4:00 PM

104

DIRECTION:	NORTHBOUND				TOTAL
	MPH	5	10	NUMBER OF VEHICLES	
	60				
	59				
	58				
	57				
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	15				

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION:	SOUTHBOUND				TOTAL
	MPH	5	10	NUMBER OF VEHICLES	
	60				
	59				
	58				
	57				
	56				
	55				
	54				
	53				
	52				
	51				
	50				
	49				
	48				
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	18				
	17				
	16				
	15				

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE TOTAL	MPH
	60
	59
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	53
	52
	51
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	49
	48
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	46
	45
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RADAR SPEED DISTRIBUTION SHEET

HCI

CITY OF LAGUNA HILLS

SANTA VITTORIA DRIVE
LAKE FOREST TO RIDGE ROUTE (s/o CAM. COSTA)

DATE: 8/15/2018

SURVEY BY:

C. BUENDIA

TIME: 3:00 PM - 4:00 PM

CHECKED BY:

JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60					X	100.0%
59					X	100.0%
58					X	100.0%
57					X	100.0%
56					X	100.0%
55					X	100.0%
54					X	100.0%
53					X	100.0%
52					X	100.0%
51					X	100.0%
50					X	100.0%
49					X	100.0%
48					X	100.0%
47					X	100.0%
46					X	100.0%
45					X	100.0%
44					X	100.0%
43					X	100.0%
42					X	99.4%
41					X	99.4%
40					X	98.3%
39					X	94.4%
38					X	93.3%
37					X	89.9%
36					X	87.6%
35					X	81.5%
34					X	74.2%
33					X	68.0%
32					X	57.9%
31					X	48.3%
30					X	37.6%
29					X	25.8%
28					X	18.0%
27					X	12.9%
26					X	7.3%
25					X	3.9%
24					X	1.7%
23					X	1.1%
22					X	0.6%
21					X	0.0%
20					X	0.0%
19					X	0.0%
18					X	0.0%
17					X	0.0%
16					X	0.0%
15					X	0.0%

UPPER LIMIT 10 MPH PACE: 36 MPH
 LOWER LIMIT 10 MPH PACE: 27 MPH
 PERCENT OVER PACE: 12.4 %
 PERCENT IN PACE: 80.3 %
 PERCENT UNDER PACE: 7.3 %

85th PERCENTILE SPEED: 35.6 MPH
 MEDIAN SPEED: 31.2 MPH
 15th PERCENTILE SPEED: 27.4 MPH

Santa Vittoria SPD 2018

HARTZOG AND CRABILL INC.
Consulting Traffic Engineers
17551 Brea Blvd., Suite 122, Tustin, CA 92680
(714) 731-9605

Radar Speed Survey Field Sheet

AGENCY: CITY OF LAGUNA Hills DATE: 8-15-18
STREET: SANTA VITTORIA ROAD CONDITION: DRY START TIME: 4:00 PM
LOCATION: CAMINO MARIA TO RIDGE ROUTE @ CAMINO JALISCO (S) OBSERVER: CATHY BUENDIA END TIME: 5:00 PM V.M.

DIRECTION:	NORTHBOUND				TOTAL			
	MPH	5	10	15		20	25	30
60								
59								
58								
57								
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16								
15								

AVERAGE SPEED: _____ PACE SPEED: _____
CRITICAL SPEED: _____
CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION:	SOUTHBOUND				TOTAL			
	MPH	5	10	15		20	25	30
60								
59								
58								
57								
56								
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48								
47								
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19								
18								
17								
16								
15								

AVERAGE SPEED: _____ PACE SPEED: _____
CRITICAL SPEED: _____

CUMULATIVE TOTAL	MPH
1	60
2	59
3	58
4	57
5	56
6	55
7	54
8	53
9	52
10	51
11	50
12	49
13	48
14	47
15	46
16	45
17	44
18	43
19	42
20	41
21	40
22	39
23	38
24	37
25	36
26	35
27	34
28	33
29	32
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31	30
32	29
33	28
34	27
35	26
36	25
37	24
38	23
39	22
40	21
41	20
42	19
43	18
44	17
45	16
46	15

RADAR SPEED DISTRIBUTION SHEET

HCI

CITY OF LAGUNA HILLS

SANTA VITTORIA DRIVE
LAKE FOREST TO RIDGE ROUTE (near Ridge Route)

DATE: 8/15/2018

SURVEY BY:

C. BUENDIA

TIME: 4:00 PM - 5:00 PM

CHECKED BY:

JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60					X	100.0%
59					X	100.0%
58					X	100.0%
57					X	100.0%
56					X	100.0%
55					X	100.0%
54					X	100.0%
53					X	100.0%
52					X	100.0%
51					X	100.0%
50					X	100.0%
49					X	100.0%
48					X	100.0%
47					X	100.0%
46					X	100.0%
45					X	100.0%
44					X	100.0%
43					X	100.0%
42					X	100.0%
41					X	100.0%
40					X	100.0%
39					X	100.0%
38					X	99.5%
37					X	98.4%
36					X	96.8%
35					X	94.6%
34					X	85.4%
33					X	81.6%
32					X	75.7%
31					X	62.2%
30					X	54.1%
29					X	35.7%
28					X	25.9%
27					X	14.1%
26					X	9.7%
25					X	7.6%
24					X	2.7%
23					X	0.5%
22					X	0.0%
21					X	0.0%
20					X	0.0%
19					X	0.0%
18					X	0.0%
17					X	0.0%
16					X	0.0%
15					X	0.0%

UPPER LIMIT 10 MPH PACE: 36 MPH
 LOWER LIMIT 10 MPH PACE: 27 MPH
 PERCENT OVER PACE: 5.4 %
 PERCENT IN PACE: 87.0 %
 PERCENT UNDER PACE: 9.7 %

85th PERCENTILE SPEED: 33.9 MPH
 MEDIAN SPEED: 29.8 MPH
 15th PERCENTILE SPEED: 27.1 MPH

Santa Vittoria SPD 2018

ADT Volume Data

Prepared by NDS/ATD

VOLUME

Santa Vittoria Dr Bet. Lake Forest Dr & Ridge Route Dr

Day: Tuesday
Date: 8/14/2018City: Laguna Hills
Project #: CA18_1149_001

DAILY TOTALS					NB	SB	EB					WB	Total
					2,986	3,000						0	0
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL		
00:00	3	7			10	12:00	31	43			74		
00:15	3	9			12	12:15	42	44			86		
00:30	5	3			8	12:30	51	40			91		
00:45	2	13	5	24	7	12:45	40	164	31	158	71		
01:00	4	4			8	13:00	43	38			81		
01:15	1	2			3	13:15	46	45			91		
01:30	2	4			6	13:30	38	42			80		
01:45	0	7	0	10	0	13:45	39	166	39	164	78		
02:00	2	1			3	14:00	41	47			88		
02:15	0	1			1	14:15	37	51			88		
02:30	1	0			1	14:30	43	48			91		
02:45	1	4	2	4	3	14:45	37	158	42	188	79		
03:00	0	0			0	15:00	32	60			92		
03:15	2	1			3	15:15	33	60			93		
03:30	4	1			5	15:30	31	45			76		
03:45	3	9	2	4	5	15:45	40	136	53	218	93		
04:00	6	0			6	16:00	48	80			128		
04:15	5	0			5	16:15	46	60			106		
04:30	7	1			8	16:30	40	68			108		
04:45	13	31	0	1	13	16:45	44	178	74	282	118		
05:00	11	0			11	17:00	46	80			126		
05:15	23	2			25	17:15	32	104			136		
05:30	21	6			27	17:30	39	106			145		
05:45	29	84	7	15	36	17:45	36	153	88	378	124		
06:00	49	5			54	18:00	54	76			130		
06:15	44	12			56	18:15	30	71			101		
06:30	54	7			61	18:30	35	69			104		
06:45	62	209	9	33	71	18:45	47	166	61	277	108		
07:00	74	21			95	19:00	20	59			79		
07:15	88	20			108	19:15	28	49			77		
07:30	79	24			103	19:30	33	66			99		
07:45	79	320	21	86	100	19:45	29	110	39	213	68		
08:00	79	16			95	20:00	34	49			83		
08:15	81	19			100	20:15	34	45			79		
08:30	70	26			96	20:30	19	42			61		
08:45	54	284	29	90	83	20:45	19	106	42	178	61		
09:00	49	31			80	21:00	25	49			74		
09:15	52	23			75	21:15	17	34			51		
09:30	47	26			73	21:30	12	38			50		
09:45	46	194	28	108	74	21:45	10	64	31	152	41		
10:00	62	33			95	22:00	7	24			31		
10:15	54	18			72	22:15	13	25			38		
10:30	50	27			77	22:30	11	18			29		
10:45	50	216	38	116	88	22:45	8	39	12	79	20		
11:00	37	40			77	23:00	7	17			24		
11:15	42	43			85	23:15	6	12			18		
11:30	43	34			77	23:30	4	11			15		
11:45	35	157	52	169	87	23:45	1	18	13	53	14		
TOTALS	1528	660			2188	TOTALS	1458	2340			3798		
SPLIT %	69.8%	30.2%			36.6%	SPLIT %	38.4%	61.6%			63.4%		

DAILY TOTALS					NB	SB	EB	WB	Total
					2,986	3,000	0	0	5,986
AM Peak Hour	07:15	11:45		07:00	PM Peak Hour	12:30	17:00		17:15
AM Pk Volume	325	179		406	PM Pk Volume	180	378		535
Pk Hr Factor	0.923	0.861		0.940	Pk Hr Factor	0.882	0.892		0.92
7 - 9 Volume	604	176	0	0	780	4 - 6 Volume	331	660	0
7 - 9 Peak Hour	07:15	08:00		07:00	4 - 6 Peak Hour	16:00	17:00		17:00
7 - 9 Pk Volume	325	90	0	0	406	4 - 6 Pk Volume	178	378	0
Pk Hr Factor	0.923	0.776	0.000	0.000	0.940	Pk Hr Factor	0.927	0.892	0.000

Attachment: Traffic Commission Agenda Item 4.1_9-19-18 (1820 : Repeat Speed Survey on Santa Vittoria Drive Between Ridge Route Drive and

Collision History

CITY OF LAGUNA HILLS
5-YEAR SWITRS COLLISION DATABASE
SANTA VITTORIA DRIVE, FROM LAKE FOREST DRIVE TO RIDGE ROUTE DRIVE
JAN. 1, 2013 - MAY 31, 2018

Attachment: Santa Vittoria Drive Traffic Evaluation (1680 : Review of Traffic Speed Conditions on Sa															4.1.
CASE ID	COLL. DATE	COLL. TIME	PRIMARY ROAD	SECONDARY ROAD	DIST.	DIR.	INTERS.	WEATH.	COLL. SEVERITY	PRIM. COLL. FACT.	PCF VIOL CAT.	HIT AND RUN	TYPE OF COLL.	MOTOR VEHICLE INVOLVED WITH SU	
2013															
6153474	20130718	1642	SANTA VITTORIA DR	CAMINITO PACIFICO	137	S	N	A	4	A	8	22107	N	C	E
6214477	20130904	1904	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	3	A	12	21453	N	D	C
6272377	20131003	1835	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	2	D	0		N	D	C
6250176	20131012	2145	SANTA VITTORIA	RIDGE ROUTE	0		Y	A	0	A	1	23152	N	E	I
2014															
6482238	20140419	1530	LAKE FOREST	SANTA VITTORIA	0		Y	A	0	A	3	22350	M	C	C
6751623	20141208	920	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	4	A	12	21453	N	D	C
2015															
6804335	20150126	1437	SANTA VITTORIA DR	BASSANO WEST	58	N	N	C	0	D	0		N	E	I
2016															
7168329	20160112	1145	SANTA VITTORIA	AVENIDA COPETE	0		Y	A	4	A	3	22350	N	D	C
8023879	20160330	1300	SANTA VITTORIA	CAMINITO COSTA	22	S	N	A	0	A	4	21703	N	C	C
8053592	20160511	446	SANTA VITTORIA DR	AVENIDA CENTINELA	286	S	N	A	0	C	18		N	B	E
8086368	20160705	1050	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	3	A	12	21453	N	D	C
8171685	20161101	245	SANTA VITTORIA	RIDGE ROUTE DR	220	N	N	A	0	D	0		M	E	I
2017															
8499137	20171022	600	SANTA VITTORIA	LAKE FOREST DR	0		Y	A	0	A	12	21453	N	D	C
8498217	20171027	1053	SANTA VITTORIA DR	BASSANO	0		Y	A	4	A	8	22107	N	D	C
8502442	20171108	1740	SANTA VITTORIA DR	RIDGE ROUTE DR	0		Y	A	4	D	0		N	D	C
8593888	20171228	2120	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	4	A	1	23152	N	D	C
2018															
63132	20180126	2007	SANTA VITTORIA DR	RIDGE ROUTE DR	500	N	N	A	0	A	9	21804	M	D	C
19715	20180413	1637	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	4	A	12	21453	N	D	C
28398	20180427	1700	SANTA VITTORIA DR	RIDGE ROUTE DR	0		Y	A	3	A	9	21802	N	D	C
Packet Pg. 7															



City of Laguna Hills

Traffic Commission

Staff Report

DATE: March 15, 2017

TO: Traffic Commissioners

FROM: Kenneth H. Rosenfield P.E.
Director of Public Services/City Engineer

ISSUE: Traffic Engineering Evaluation - Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive

RECOMMENDATION: That the Traffic Commission Receive and File the Report.

SUMMARY:

The Traffic Commission was contacted by residents of Laguna Village Community regarding concerns of speeding, cut-through traffic and collisions on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive. The resident submitted multiple statements expressing similar concerns from other residents unable to attend the meeting.

Based upon the resident's concern and submitted statements from other residents, Staff initiated a traffic engineering evaluation of Santa Vittoria Drive between Ridge Route Drive and Lake Forest Drive. The traffic engineering evaluation, performed by Hartzog & Crabill, Inc., attached, determined:

- The traffic data on Santa Vittoria Drive shows traffic speed to be consistent with the speed limit;
- The traffic volumes to be consistent with historic counts, and well below the traffic carrying capacity of the roadway;
- The cut-through traffic to be in the low range; and
- No traffic collision history related to traffic speed.

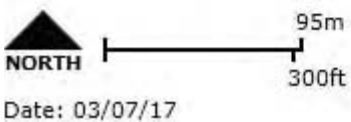
Traffic Engineering Evaluation - Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive
March 15, 2017
Page 2

The author of the evaluation report of Santa Vittoria Drive will be in attendance at this meeting to review the data collection and results.

Based upon the findings in the report, Staff recommends the Traffic Commission receive and file this report.

ATTACHMENTS:

- Vicinity Map
- Hartzog & Crabill, Inc. Traffic Engineering Evaluation



VICINITY MAP
SANTA VITTORIA DRIVE





Trammell Hartzog, President
 Jerry Crabill, P.E. (Retired)
 Gerald J. Stock, P.E.,
 Executive Vice President

17852 E. 17th Street
 Suite 101
 Tustin, CA 92780

Phone: (714) 731-9455
 FAX: (714) 731-9498

www.hartzog-crabill.com

February 20, 2017

Mr. Kenneth Rosenfield, P.E.
 Director of Public Services
City of Laguna Hills
 24045 El Toro Road
 Laguna Hills, CA 92653

Subject: Letter of Opinion – Speeding, Cut-through Traffic, and Collision Concerns along Santa Vittoria Drive from Ridge Route Drive to Lake Forest Drive

Dear Mr. Rosenfield,

Pursuant to your request, Hartzog & Crabill, Inc. (HCI) has prepared this traffic engineering review regarding residents concerns of speeding, cut-through traffic and collisions on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive.

Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive, is a 40-foot, 2-lane, north-south collector roadway. At its approach to Lake Forest Drive, the roadway width increases to 80-feet and provides two left-turn lanes, one through lane and one exclusive right-turn lane in the northbound direction. The intersection of Santa Vittoria Drive at Lake Forest Drive is controlled by a traffic signal. A raised center island median extends from Lake Forest Drive to just south of West Bassano (private street). Santa Vittoria Drive is STOP controlled at its intersection with Ridge Route Drive. On-street parking is prohibited along limited portions of Santa Vittoria Drive, and the posted speed limit on Santa Vittoria Drive is 30 MPH.

TRAVEL SPEEDS

To determine travel speeds on Santa Vittoria Drive, a speed-count survey was conducted at two separate locations along this collector roadway on Wednesday, December 7, 2016. The speed data was collected over a 24-hour period. Tables 1 and 2 below summarize the speed survey. The speed-count survey data is attached to this letter.

**TABLE 1
 SPEED SURVEY SUMMARY
 APPROXIMATELY 100 FEET SOUTH OF LAKE FOREST DR.**

85th Percentile Speed	34 mph
Average Speed	28 mph
15th Percentile Speed	22 mph

Mr. Kenneth Rosenfield, P.E.

February 20, 2017

Page 2 of 5

TRAVEL SPEEDS *(continued)*

TABLE 2
SPEED SURVEY SUMMARY
APPROXIMATELY 100 FEET NORTH OF RIDGE ROUTE DR.

85th Percentile Speed	33 mph
Average Speed	27 mph
15th Percentile Speed	21 mph

As shown in Tables 1 and 2, the 85th percentile speeds are consistent at the northerly (34 mph) and southerly limits (33 mph) of the study area. These speeds are typically what are expected for a collector road of this character, and does not indicate that there is a speeding problem on this segment of Santa Vittoria Drive. Therefore, there are no recommendations provided at this time, except to periodically place a portable radar trailer on Santa Vittoria Drive to serve as an additional reminder to drivers that the speed limit is 30 MPH.

TRAFFIC VOLUMES

Traffic counts were also collected at the same two locations where the speed data was collected to assess if traffic volumes have increased on this segment of Santa Vittoria Drive. The traffic volume data was also collected on Wednesday, December 7, 2016. The traffic counts showed that 24-hour two-way traffic volumes at the northerly and southerly locations are 6,985 and 5,573 vehicles respectively. The traffic counts are shown in the attached speed-count data.

Table 3 presents historical as well as the most recent traffic volumes on Santa Vittoria Drive.

TABLE 3
HISTORICAL TRAFFIC VOLUMES

YEAR	24-HOUR VOLUMES
2003	7,000
2005	4,900
2007	4,800
2009	4,400
2011	5,900
2013	5,100
2015	6,200
DEC 7, 2016 (2 LOCATIONS)	6,985 (N-Location); 5,573 (S-Location)

The above data shows that, between 2003 and 2016, traffic volumes range from a high of 7,000 vehicles per day to a low of 4,400 vehicles per day. The recent data shows traffic volumes are within but at the higher end of the historical range. A two-lane collector street generally has a Level-of-Service (LOS) 'D' capacity of 11,300 vehicles per day. Consequently, there is not a significant change in recent traffic volumes; and, there are no other recommendations regarding traffic volumes to provide at this time.

Mr. Kenneth Rosenfield, P.E.

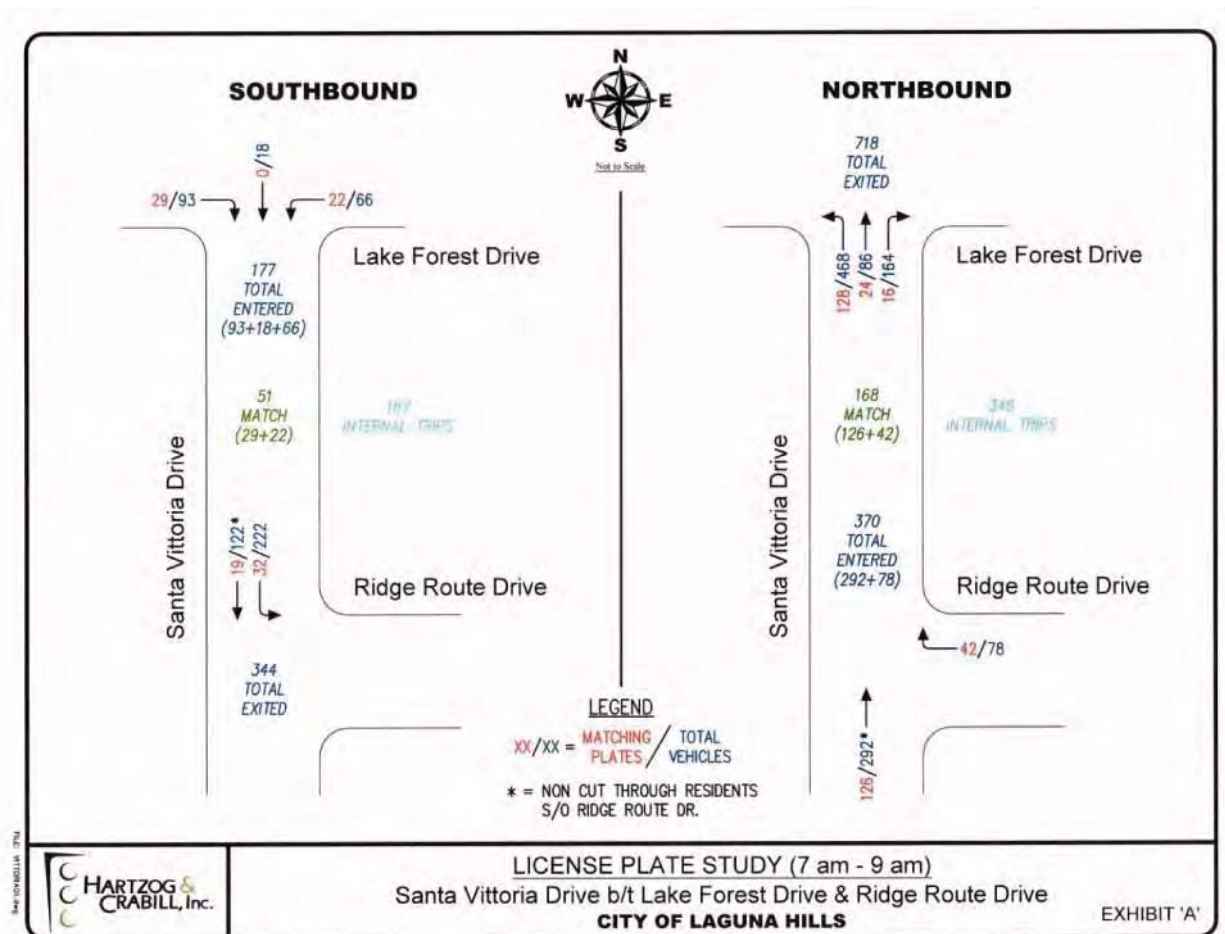
February 20, 2017

Page 3 of 5

CUT-THROUGH TRAFFIC

An Origin-Destination (O&D) study (i.e., license plate survey) was conducted on Tuesday, January 17, 2017 to quantify the amount of traffic using Santa Vittoria Drive as a short-cut. The study collected license plate numbers for all vehicles entering and exiting Santa Vittoria Drive at Lake Forest Drive and at Ridge Route Drive. Additionally, the study documented where the vehicle is coming from to determine if the vehicle is continuing a natural travel path or is actually cutting through the neighborhood. For example, a vehicle entering northbound Santa Vittoria Drive at Ridge Route Drive that entered via northbound Santa Vittoria from the south is most likely a vehicle continuing on their natural travel route through the neighborhood. A vehicle with a license plate number recorded at both Ridge Route Drive and Lake Forest Drive and not on its natural travel route is considered a “match” and represents a cut-through vehicle. A non-match vehicle represents an internally generated trip.

Exhibits A below and B on next page illustrate natural travel, internal, and cut through traffic volumes.

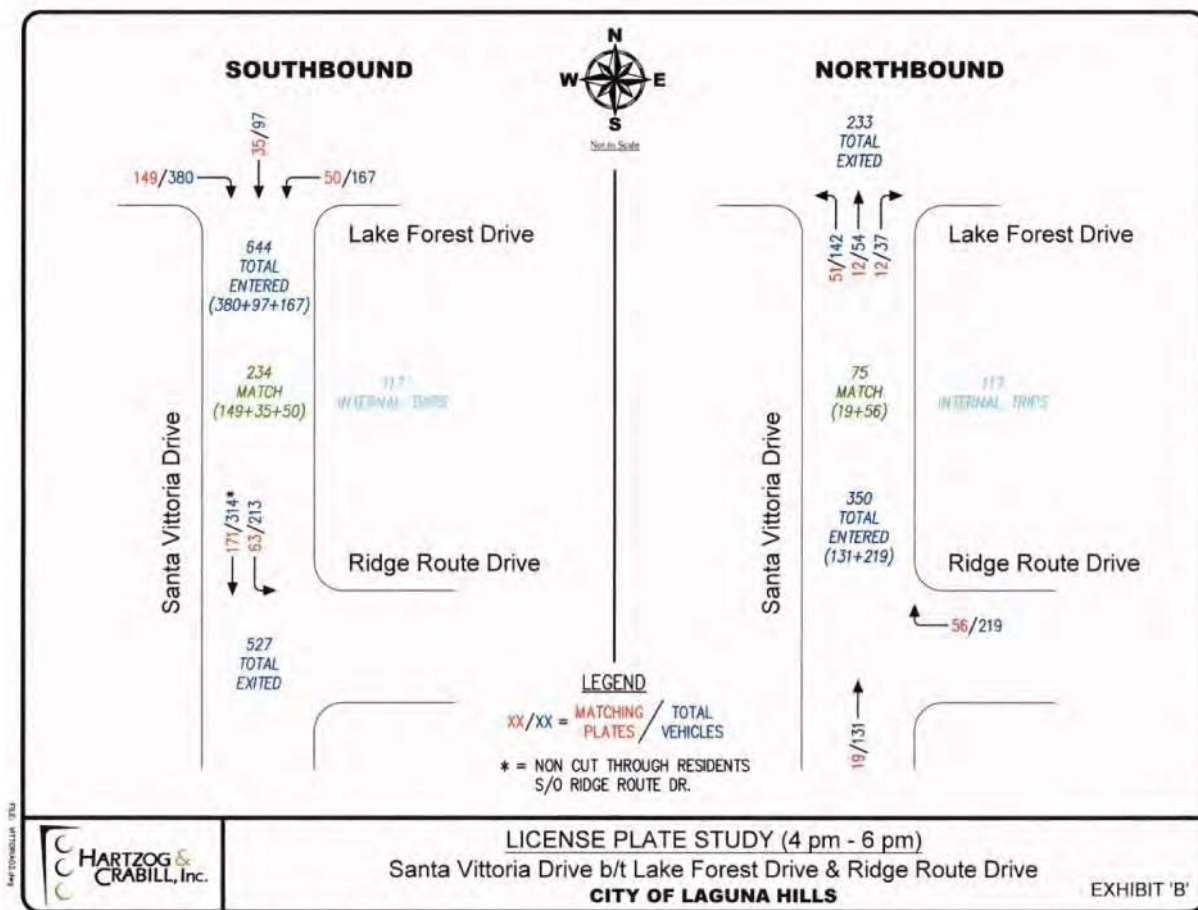


Mr. Kenneth Rosenfield, P.E.

February 20, 2017

Page 4 of 5

CUT-THROUGH TRAFFIC (continued)



The above exhibits are summarized in Table 4 below, which shows that cut-through traffic ranges from a low of 6% in the northbound direction during the morning peak hour to a high of 24% also in northbound direction during the afternoon peak hour. The percentages are not considered to be significant relative to the traffic capacity of the street.

TABLE 4
ORIGIN-DESTINATION STUDY RESULTS

TIME	DIRECTION	ENTER RIDGE ROUTE	EXIT LAKE FOREST	ENTER LAKE FOREST	EXIT RIDGE ROUTE	NUMBER OF CUT-THROUGH (MATCHES)	PERCENT CUT-THROUGH	INTERNAL /PASS THROUGH TRIPS
7-9 AM	Northbound	370	725			42	6%	683
7-9 AM	Southbound			177	344	32	10 %	312
4-6 PM	Northbound	350	233			56	24%	177
4-6 PM	Southbound			644	527	63	12%	464

Mr. Kenneth Rosenfield, P.E.
 February 20, 2017
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COLLISIONS

HCI obtained collision data from the Statewide Integrated Traffic Records System website (i-SWITRS) database to determine the number of collisions occurring on Santa Vittoria Drive between January 1, 2011 - November 30, 2016. Table 5 below presents the summary collision data.

**TABLE 5
TRAFFIC COLLISIONS**

YEAR	NUMBER OF COLLISIONS	FATAL	INJURY	PROPERTY DAMAGE ONLY
2011	4	0	0	4
2012	2	0	2	0
2013	2	0	1	1
2014	0	0	0	0
2015	2	0	1	1
2016*	4	0	1	3

*Dec. 2016 data not available at the time of this report preparation.

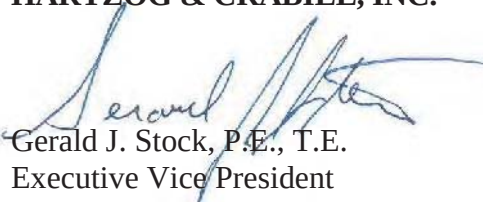
Out of the (14) total collisions reported, (10) were recorded as vehicle code violations (for example, failure to yield the right-of-way), (1) was not defined, and (1) was not attributed to the driver. The comprehensive 6-year intersection collision history report is attached to this letter. As shown, there were no collisions determined as 'speed-related'. Consequently, there are no other recommendations regarding collisions to provide at this time.

SUMMARY

In summary, the traffic data on Santa Vittoria Drive shows traffic speed to be consistent with the speed limit, traffic volumes to be consistent with historic counts and well-below the traffic carrying capacity of the roadway, cut-through traffic to be in the low range, and no traffic collision history related to traffic speed.

It has been our pleasure to prepare this letter of opinion regarding speeds, traffic volumes, cut-through traffic, and collisions on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive. If you have any questions or need additional information, please feel free to call us at (714) 731-9455.

Sincerely,
HARTZOG & CRABILL, INC.


 Gerald J. Stock, P.E., T.E.
 Executive Vice President

Attachments: Speed-Count Data
 Intersection Collision History

Speed-Count Data

4.1.b

SPEED

Santa Vittoria Dr S/O Lake Forest Dr

Day: Wednesday

City: Laguna Hills

Date: 12/7/2016

Project #: CA16_71283_00

Summary

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	2	2	2	13	14	7	2	0	0	0	0	0	0	42
01:00	1	0	0	7	9	5	0	0	0	0	0	0	0	22
02:00	0	0	2	2	4	1	0	1	0	0	0	0	0	10
03:00	1	0	2	5	6	4	0	0	0	0	0	0	0	18
04:00	0	0	4	11	14	9	0	1	0	0	0	0	0	39
05:00	1	3	15	34	38	24	5	0	0	0	0	0	0	120
06:00	7	20	31	110	126	33	2	0	0	0	0	0	0	329
07:00	16	38	67	244	170	28	3	1	0	0	0	0	0	567
08:00	6	23	36	179	205	29	5	0	0	0	0	0	0	483
09:00	0	12	28	128	129	34	6	0	0	0	0	0	0	337
10:00	5	8	39	117	110	30	6	0	0	0	0	0	0	315
11:00	5	11	49	123	108	16	2	0	0	0	0	0	0	314
12:00 PM	12	21	63	159	111	35	1	0	0	0	0	0	0	402
13:00	4	16	44	140	143	33	4	0	0	0	0	0	0	384
14:00	8	20	62	132	122	38	4	1	0	0	0	0	0	387
15:00	18	54	125	160	98	15	1	1	0	0	0	0	0	472
16:00	18	20	101	216	166	19	5	0	0	0	0	0	0	545
17:00	25	61	124	226	141	22	1	0	0	0	0	0	0	600
18:00	27	52	123	199	140	23	0	0	0	0	0	0	0	564
19:00	13	21	32	143	114	30	4	0	0	0	0	0	0	357
20:00	8	19	28	75	89	24	2	0	0	0	0	0	0	245
21:00	2	5	27	77	74	23	1	0	0	0	0	0	0	209
22:00	2	4	16	49	59	17	3	0	0	0	0	0	0	150
23:00	2	3	4	19	28	14	4	0	0	0	0	0	0	74
Totals	183	413	1024	2568	2218	513	61	5						6985
% of Totals	3%	6%	15%	37%	32%	7%	1%	0%						100%

Directional Peak Periods All Speeds	AM 7-9		NOON 12-2		PM 4-6		Off Peak Volumes	
	Volume	%	Volume	%	Volume	%	Volume	%
AM Volumes	44	117	275	973	220	31	3	0
% AM	1%	2%	4%	14%	3%	0%	0%	0
AM Peak Hour	07:00	07:00	07:00	07:00	09:00	09:00	02:00	07:00
Volume	16	38	67	244	34	6	1	567
PM Volumes	139	296	749	1595	293	30	2	0
% PM	2%	4%	11%	23%	4%	0%	0%	0
PM Peak Hour	18:00	17:00	15:00	17:00	14:00	16:00	14:00	17:00
Volume	27	61	125	226	38	5	1	600
		1050	↔	15%	786	↔	11%	1145
								16%
								4004
								↔
								57%

4.1.c

g. 2

Attachment: Traffic Commission Agenda Item 4.1_9-19-18 (1820 : Repeat Speed Survey on Santa Vittoria Drive Between Ridge Route Drive and

SPEED

Santa Vittoria Dr N/O Ridge Route Dr

Day: Wednesday
Date: 12/7/2016

City: Laguna Hills
Project #: CA16_71283_00

4.1.b

Summary

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	1	8	5	12	14	3	0	0	0	0	0	0	0	43
01:00	1	2	4	8	3	0	0	0	0	0	0	0	0	18
02:00	0	0	1	0	2	0	0	0	0	0	0	0	0	3
03:00	0	0	2	4	4	0	0	0	0	0	0	0	0	10
04:00	0	1	4	13	8	1	0	0	0	0	0	0	0	27
05:00	0	6	22	46	22	4	0	0	0	0	0	0	0	100
06:00	5	13	44	86	55	16	2	0	0	0	0	0	0	221
07:00	5	43	59	174	125	18	2	0	0	0	0	0	0	426
08:00	2	25	63	164	112	18	0	0	0	0	0	0	0	384
09:00	2	25	48	108	75	13	1	0	0	0	0	0	0	272
10:00	2	26	54	112	73	9	1	0	0	0	0	0	0	277
11:00	7	24	70	123	78	20	1	0	0	0	0	0	0	323
12:00 PM	2	19	73	135	87	12	1	0	0	0	0	0	0	329
13:00	4	36	93	128	88	16	0	0	0	0	0	0	0	365
14:00	7	36	86	150	94	13	1	0	0	0	0	0	0	387
15:00	9	40	94	150	93	18	1	0	0	0	0	0	0	405
16:00	2	47	78	165	113	18	0	0	0	0	0	0	0	423
17:00	7	55	104	161	124	16	2	0	0	0	0	0	0	469
18:00	1	28	73	137	95	8	0	0	0	0	0	0	0	342
19:00	5	30	61	93	65	5	0	0	0	0	0	0	0	259
20:00	2	23	35	60	58	10	0	0	0	0	0	0	0	188
21:00	3	16	27	46	43	5	0	0	0	0	0	0	0	140
22:00	0	14	21	33	33	8	0	0	0	0	0	0	0	109
23:00	2	3	10	16	20	2	0	0	0	0	0	0	0	53
Totals	69	520	1131	2124	1484	233	12	0%						5573
% of Totals	1%	9%	20%	38%	27%	4%	0%							100%

Directional Peak Periods All Speeds	AM 7-9		NOON 12-2		PM 4-6		Off Peak Volumes	
	Volume	%	Volume	%	Volume	%	Volume	%
AM Volumes	25	173	376	850	571	102	0	0
% AM	0%	3%	7%	15%	10%	2%	0	0
AM Peak Hour	11:00	07:00	11:00	07:00	07:00	11:00	06:00	07:00
Volume	7	43	70	174	125	20	2	426
PM Volumes	44	347	755	1274	913	131	0	0
% PM	1%	6%	14%	23%	16%	2%	0	0
PM Peak Hour	15:00	17:00	17:00	16:00	17:00	15:00	17:00	17:00
Volume	9	55	104	165	124	18	2	469

Street Name Direction

Percentiles

15th 50th 85th 95th ADT

Attachment: Traffic Commission Agenda Item 4.1_9-19-18 (1820 : Repeat Speed Survey on Santa Vittoria Drive Between Ridge Route Drive and

4.1.c

g. 2

Intersection Collision History

CITY OF LAGUNA HILLS
SWITRS COLLISION DATABASE

SANTA VITTORIA, FROM LAKE FOREST DRIVE TO RIDGE ROUTE DRIVE
JAN. 1, 2011 - NOV. 30, 2016

4.1.b

Comment: Hartzog & Crabill, Inc. Traffic Engineering Evaluation (1230 : Traffic Engineering Evaluation -

JAN. 1, 2011 - NOV. 30, 2016																	
CASE ID	COLLISION		PRIMARY ROAD	SECONDARY ROAD	DIST.	DIR.	INTERS.	WEATH.	COLL. SEVERITY	PRIM. COLL. FACT.	PCF VIOL. CAT.	PCF VIOL.	HIT AND RUN COLL.	TYPE	MOTOR VEHICLE INVOLVED WITH	RO/ SUF	
	DATE	TIME															
5135934	20110315	810	SANTA VITTORIA DR	CAMINITO COPETE	44	S	N	A	0	A	9	21804	N	D	C	A	
5297868	20110906	915	SANTA VITTORIA DR	CAMINITO COSTA	32	S	N	A	0	A	3	22350	N	C	E	A	
5339522	20111012	1320	SANTA VITTORIA DR	RIDGE ROUTE DR	0		Y	A	0	D	0		N	D	C	A	
5462413	20111209	721	SANTA VITTORIA	BASSANO EAST	0		Y	A	0	A	9	21804	N	D	C	A	
5495853	20120112	1515	SANTA VITTORIA DR	BASSANO E	0		Y	A	3	A	6	21750	N	B	C	A	
5766861	20120803	1743	SANTA VICTORIA	LAKE FOREST DR	1295	S	N	A	4	A	3	22350	N	C	C	A	
6153474	20130718	1642	SANTA VITTORIA DR	CAMINITO PACIFICO	137	S	N	A	4	A	8	22107	N	C	E	A	
6250176	20131012	2145	SANTA VITTORIA	RIDGE ROUTE	0		Y	A	0	A	1	23152	N	E	I	A	
6804335	20150126	1437	SANTA VITTORIA DR	BASSANO WEST	58	N	N	C	0	D	0		N	E	I	B	
6947369	20150518	810	SANTA VITTORIA DR	CAMINITO JALISCO S	237	E	N	A	4	A	9	21804	N	B	C	A	
7168329	20160112	1145	SANTA VITTORIA	AVENIDA COPETE	0		Y	A	4	A	3	22350	N	D	C	A	
8023879	20160330	1300	SANTA VITTORIA	CAMINITO COSTA	22	S	N	A	0	A	4	21703	N	C	C	A	
8053592	20160511	446	SANTA VITTORIA DR	AVENIDA CENTINELA	286	S	N	A	0	C	18		N	B	E	A	
8171685	20161101	245	SANTA VITTORIA	RIDGE ROUTE DR	220	N	N	A	0	D	0		M	E	I	A	

NOTES:

Weather 1	Collision Severity	Primary Collision Factor	PCF Violation Category	Hit and Run	Type of Collision
A - Clear	1 - Fatal	A - (Vehicle) Code Violation	01 - Driving or Bicycling Under Influence	F - Felony	A - Head-On
B - Cloudy	2 - Injury (Severe)	B - Other Improper Driving	02 - Impeding Traffic	M - Misdemeanor	B - Sideswipe
C - Raining	3 - Injury (Other Visible)	C - Other Than Driver	03 - Unsafe Speed	N - Not Hit & Run	C - Rear-End
D - Snowing	4 - Injury (Complaint of Pain)	D - Unknown	04 - Following Too Closely		D - Broadside
E - Fog	0 - PDO (Property Damage Only)	E - Fall Asleep	05 - Wrong Side of Road		E - Hit Object
F - Other		-- Not Stated	06 - Improper Passing		F - Overturned
G - Wind			07 - Unsafe Lane Change		G - Vehicle/Pedestrian
-- Not Stated			08 - Improper Turning		H - Other
			09 - Automobile ROW		-- Not Stated
			10 - Pedestrian ROW		
			11 - Pedestrian Violation		
			12 - Traffic Signals and Signs		
			13 - Hazardous Parking		
			14 - Lights		
			15 - Brakes		
			16 - Other Equipment		
			17 - Other Hazardous Violation		
			18 - Other Than Driver (or Ped)		
			19 -		
			20 -		
			21 - Unsafe Starting or Backing		

Motor Vehicle Involved With:

A - Non-Collision	
B - Pedestrian	
C - Other Motor Vehicle	
D - Motor Vehicle on Other Roadway	
E - Parked Motor Vehicle	
F - Train	
G - Bicycle	
H - Animal	
I - Fixed Object	
J - Other Object	
-- Not Stated	

4.1.c

g. 2



City of Laguna Hills

Traffic Commission

Staff Report

DATE: March 20, 2019
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Review of Sight Distance at the Corner of Buena Vista Drive and Los Gatos Drive

RECOMMENDATION: That the Traffic Commission Receive and File the Report.

SUMMARY:

Staff was recently contacted by a resident with concerns of sight distance constraints due to vehicles parking on the “inside curb” of the knuckle corner of Buena Vista Drive and Los Gatos Drive. Based upon the resident’s concerns and in accordance with the Residential Streets Management Policy, staff performed two separate field visits to review the parking conditions and sight distance and assess potential solutions. As a result of the field reviews, staff determined there is adequate sight distance. However, staff recommends shifting the double yellow striping through the knuckle corner to increase the distance between the northerly curblane and the centerline striping resulting in a more comfortable transition for vehicles traveling around the corner. The striping change will be coordinated with a street maintenance project scheduled in this area in summer 2019.

BACKGROUND:

Buena Vista Drive and Los Gatos Drive are two-lane residential streets accessed from Alameda Avenue, northerly of La Paz Road. Please see the attached Vicinity Map. Both streets have fronting residential homes and sidewalks on either side of the street, and each street measures 40 feet wide from curb to curb with a bump out to approximately 60 feet at the knuckle corner connecting the two streets.

Review of Sight Distance at the Corner of Buena Vista Drive and Los Gatos Drive

March 20, 2019

Page 2

Recently, staff was contacted by a resident with concerns of sight distance constraints due to vehicles parking along the “inside curb” of the knuckle corner of Buena Vista Drive and Los Gatos Drive. Based upon the resident’s concerns and in accordance with the Residential Streets Management Policy, staff performed two separate field visits to review the parking conditions and sight distance to document the field conditions and assess potential solutions.

During the two field evaluations, staff observed vehicles parked along the inside curb of the knuckle corner of Buena Vista Drive and Los Gatos Drive. Traversing this corner was accomplished without crossing the centerline striping but the turn was uncomfortable due to the adjacent parked vehicles. However, the field observations and driving the corner determined there is adequate sight distance at this corner.

Given the existing 60 foot width of the street at the knuckle corner, there is more than adequate width to accommodate shifting the double yellow striping further from the northerly curblineline in order to provide a more comfortable travel experience for the two lanes of traffic. Please refer to the attached Knuckle Striping Detail reflecting that variable distance is allowed around the inside corner provided a minimum of 20 feet is maintained around the outside corner. There is a street maintenance project scheduled in this area in summer 2019 and staff proposes to adjust the striping at this knuckle corner at that time.

FISCAL IMPACT:

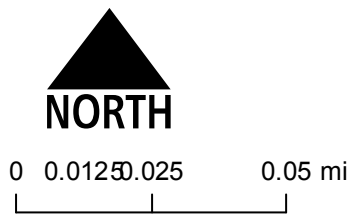
The new striping will be completed during the upcoming Citywide Pavement Rehabilitation project this summer. Funds are available for this work in the 2019-20 Fiscal Year CIP Budget.

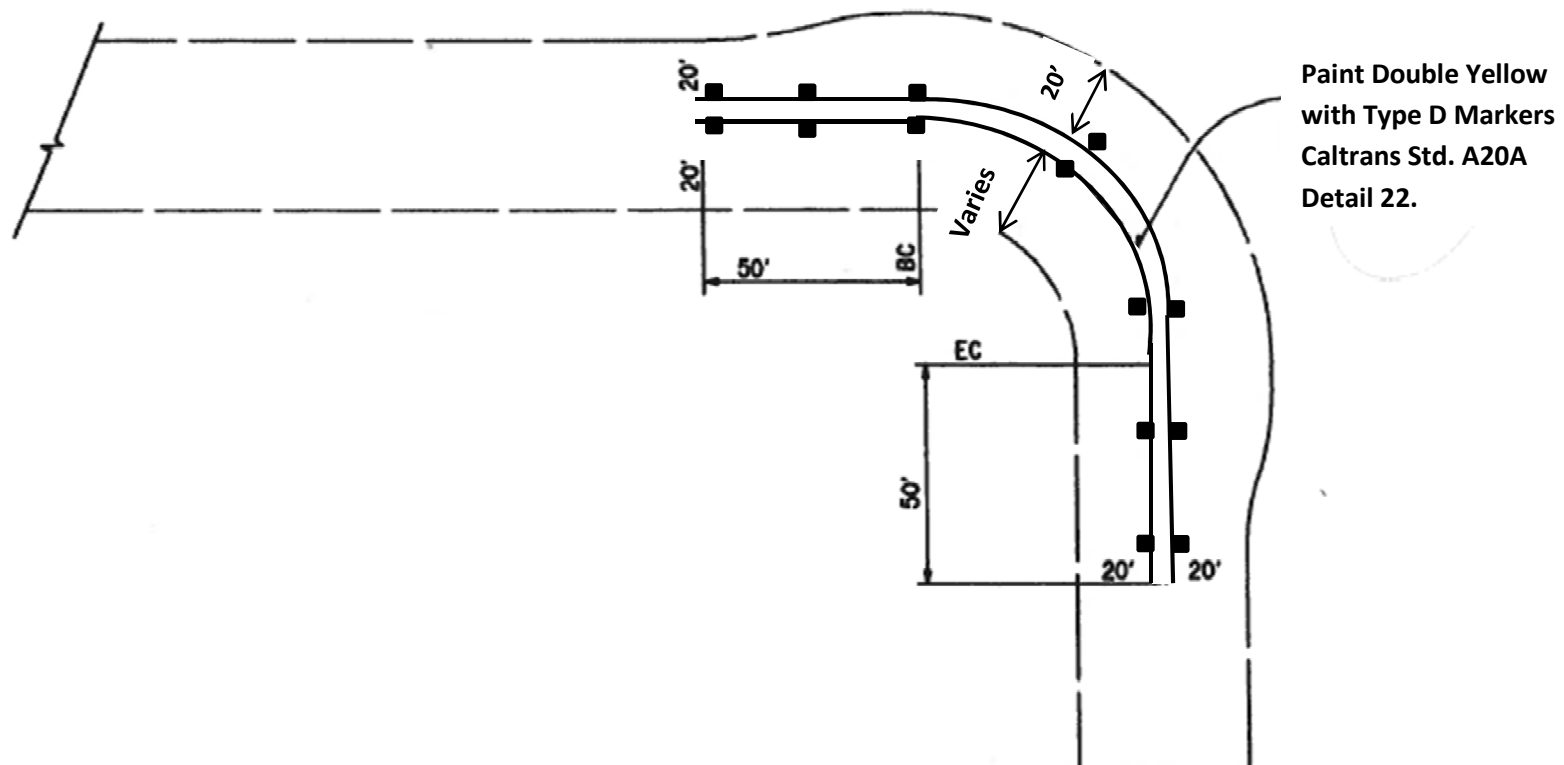
ATTACHMENTS:

- Vicinity Map
- Knuckle Striping Detail



VICINITY MAP - BUENA VISTA DRIVE & LOS GATOS DRIVE





Knuckle Striping Detail
(NTS)



City of Laguna Hills

Traffic Commission

Staff Report

DATE: March 20, 2019
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Interstate 5 at El Toro Interchange PAED/PR Public Comment Period

RECOMMENDATION: That the Traffic Commission Receive and File the Report.

SUMMARY:

On or about April 1, 2019, Caltrans will issue for public review a document called the "Planning and Environmental Document/Project Report" (PAED/PR) for the proposed future modifications of the I-5 at El Toro Road Interchange to address traffic congestion. Caltrans studied four alternatives to improving the traffic flow based upon year 2050 projections. During the review process, it was determined that Alternatives 1 and 3 were not able to adequately improve traffic conditions. Alternative 2 establishes a flyover bridge at the southbound El Toro Off ramp to Bridger Road in Lake Forest to carry easterly bound traffic to the other side of the freeway without having to traverse the intersections of Avenida de la Carlota at Paseo de Valencia and Avenida de la Carlota at El Toro Road. Alternative 4 creates a collector/distributor and hook ramp system on Avenida de la Carlota southerly of El Toro Road and has a significant impact to the existing Laguna Hills Mall property. Draft concept plans of Alternative 2 and Alternative 4 are attached for your information. The PAED/PR document will identify the traffic benefits of each alternative and potential environmental impacts. At a future date, a preferred alternative project will be identified. There is as yet no identified construction funding for this project which will likely be more than 10 years in the future. The Traffic Commission members are encouraged to review the document upon its release. Because there is no scheduled Traffic Commission meeting during the 30-day public review period of the PAED/PR, there will be a presentation to the City Council on April 9, 2019. In addition, there is a tentatively schedule public meeting, in open house format,

Interstate 5 at El Toro Interchange PAED/PR Public Comment Period

March 20, 2019

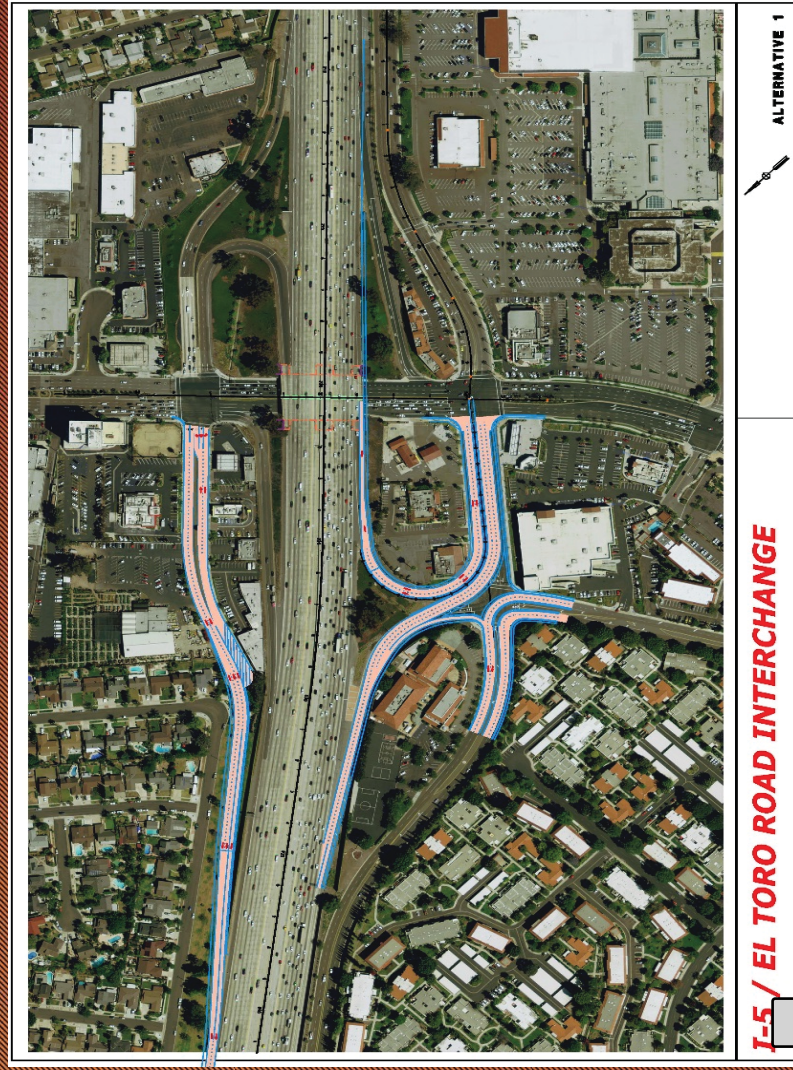
Page 2

about the PAED/PR on April 18, 2019, at the Lake Forest Holiday Inn. It is anticipated that Staff will provide written City comments on the PAED/PR to Caltrans through this process. The Traffic Commissioners are invited to provide comments to Staff for potential inclusion in the comment letter. Staff will provide the Traffic Commissioners with additional information on the PAED/PR when it becomes available.

ATTACHMENTS:

- Interstate 5 at El Toro Interchange Alternatives

Alternative 1 – L-Type Off-Ramp Intersection



• Pros

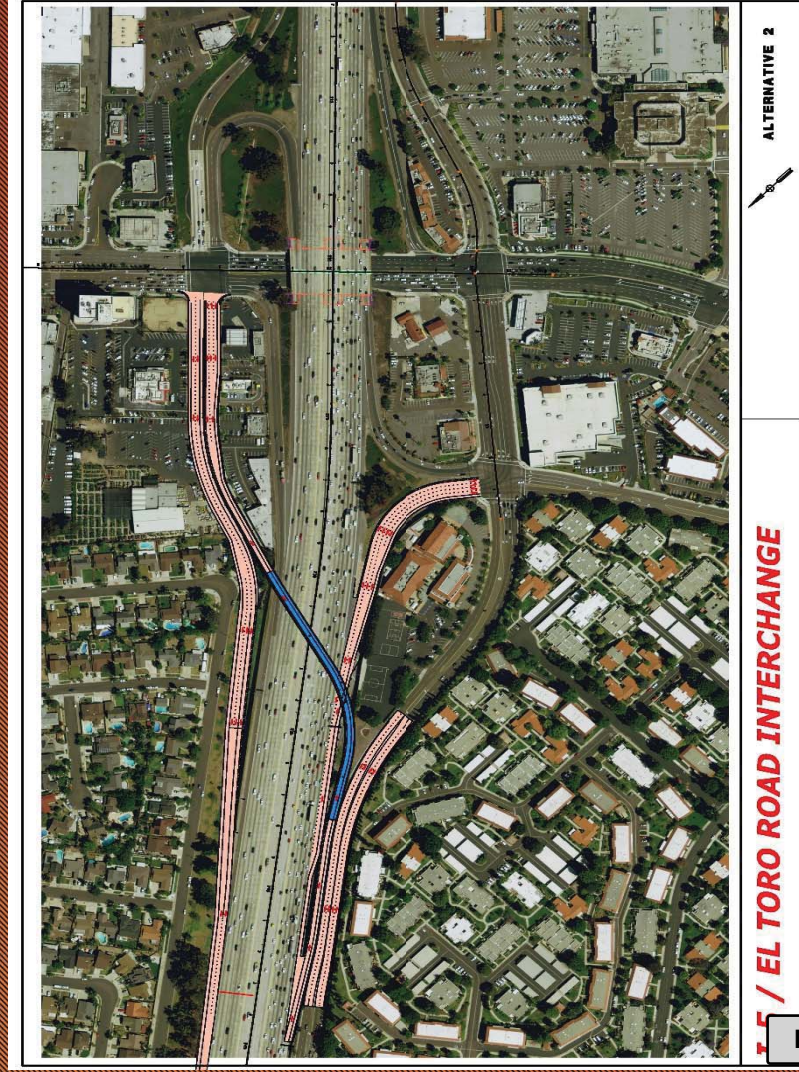
- Adding Storage Capacity to the SB I-5 Off-Ramp and NB On-Ramp
- Improve the I-5 Mainline LOS

• Cons

- Adds queueing to local arterials by re-routing traffic on SB Avenida De La Carlota to Paseo De Valencia
- Does not improve the LOS of the Chokepoint intersection of El Toro Rd and Avenida De La Carlota

DRAFT

Alternative 2 – Direct Flyover



• Pros

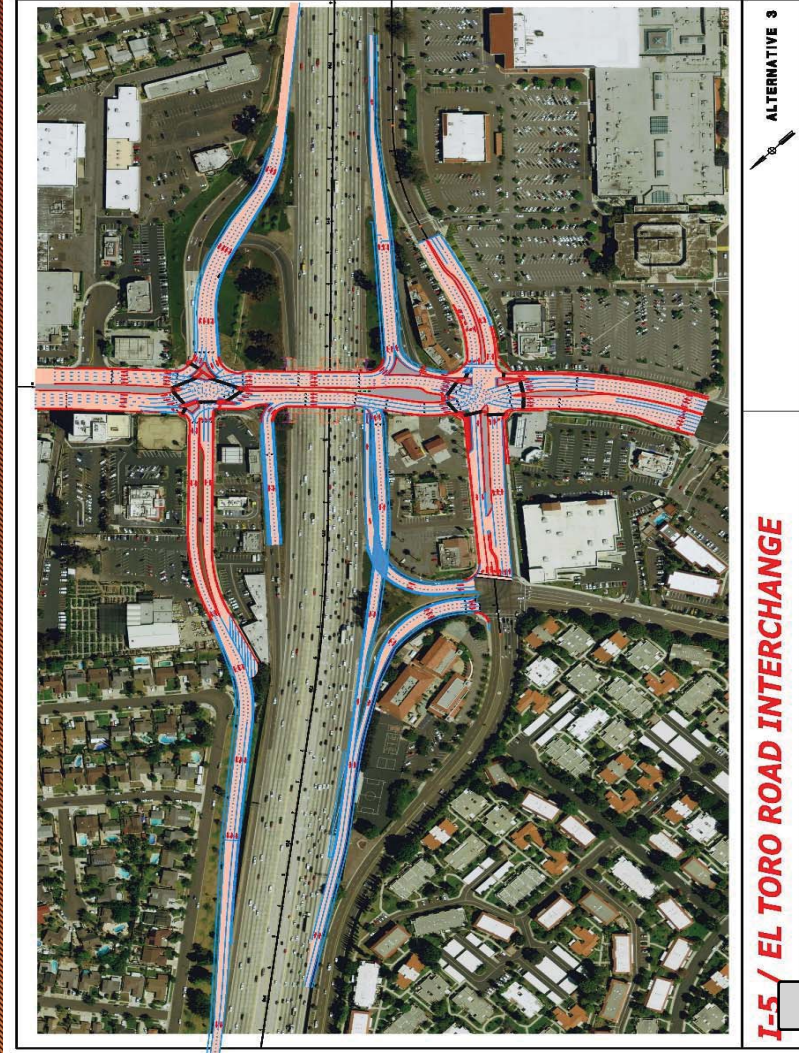
- Adding Storage Capacity to the SB I-5 Off-Ramp and NB On-Ramps to prevent queueing onto the I-5 Mainline and local arterials
- Improves the LOS of the Chokepoints at the Interchange
- Improves NB I-5 Mainline LOS

• Cons

- Requires the most RW takes
- Impacts SB I-5 Mainline LOS
- Visual Impacts

DRAFT

Alternative 3 – Diverge Diamond Interchange



• Pros

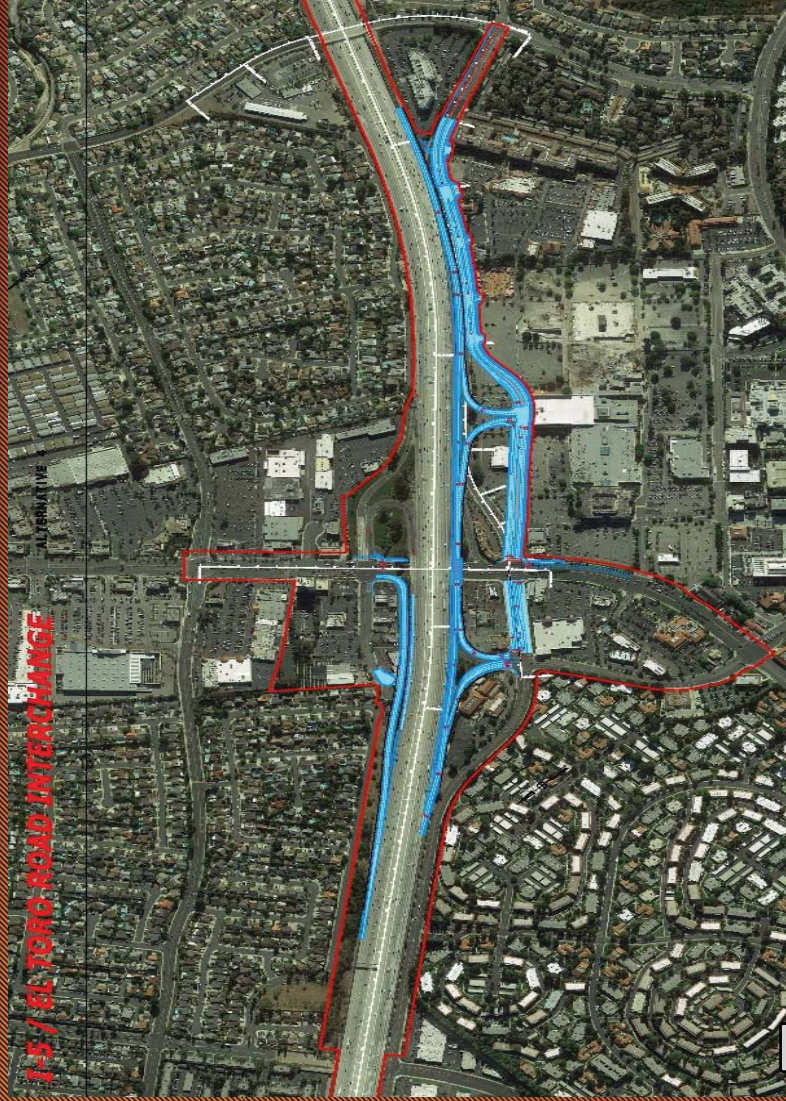
- Adding Storage Capacity to the SB I-5 Off-Ramp and NB On-Ramps to prevent queueing onto the I-5 Mainline and local arterials
- Improves the Mainline LOS
- Lowest Cost Alternative

• Cons

- Adds queueing to the local arterials by impacting EB and WB El Toro Rd
- Does not improve the LOS of the Chokepoint intersections
- Impacts LOS for weaving on NB I-5

DRAFT

Alternative 4 – Collective Distributor on SB Ramps



- Pros
 - Adding Storage Capacity to the SB I-5 Off-Ramp and NB On-Ramps to prevent queueing onto the I-5 Mainline and local arterials
 - Improves the LOS of the Chokepoints at the Interchange
 - Improves the Mainline LOS
- Cons
 - Requires RW takes from LH Mall Parking Lot
 - May require design exceptions for mall access

DRAFT



City of Laguna Hills

Traffic Commission

Staff Report

DATE: March 20, 2019
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Radar Speed Trailer

RECOMMENDATION: That the Traffic Commission Receive and File the Report.

ATTACHMENTS:

- March Radar Trailer 2019

CITY OF LAGUNA HILLS

MARCH 2019

RADAR TRAILER SCHEDULE (RAINY DAYS EXCLUDED)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5 Bridlewood S/O Laurel Crest 25 MPH	6 Bridlewood S/O Laurel Crest 25 MPH RAIN	7 Lost Colt E/O Beargrass 25 MPH RAIN	8	9
10	11	12	13	14	15	16
17	18	19 Mustang W/O Farrier 25 MPH	20 Rapid Falls W/O Sundowner 25 MPH	21 Nellie Gail E/O Desert Trail 25 MPH	22	23
24 31	25	26	27	28	29	30

Attachment: March Radar Trailer 2019 (1818 : Radar Speed Trailer)

CITY OF LAGUNA HILLS

APRIL 2019

RADAR TRAILER SCHEDULE (RAINY DAYS EXCLUDED)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 Santa Vittoria N/O Ridgeroute 30 MPH	3 Bridlewood S/O Laurel Crest 25 MPH	4 Bridlewood S/O Laurel Crest 25 MPH	5	6
7	8	9	10	11	12	13
14	15	16 Nellie Gail E/O Empty Saddle 25 MPH	17 Lost Colt E/O Beargrass 25 MPH	18 Glen Canyon S/B Mid-block 25 MPH	19	20
21	22	23	24	25	26	27
28	29	30				

Attachment: March Radar Trailer 2019 (1818 : Radar Speed Trailer)

CITY OF LAGUNA HILLS

MAY 2019

RADAR TRAILER SCHEDULE (RAINY DAYS EXCLUDED)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7 Hidden Trail Across from 27783 25 MPH	8 Santa Vittoria S/O Laurel Crest 30 MPH	9 Bridlewood S/O Laurel Crest 25 MPH	10	11
12	13	14	15	16	17	18
19	20	21 Mustang W/O Appaloosa 25 MPH	22 Rapid Falls W/O Sundowner 25 MPH	23 Nellie Gail E/O Desert Trail 25 MPH	24	25
26	27 HOLIDAY	28	29	30	31	

Attachment: March Radar Trailer 2019 (1818 : Radar Speed Trailer)