## San Diego County Traffic Advisory Committee



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

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

March 2, 2020

TO:

Community Planning/Sponsor Group Chairpersons

FROM:

Secretary, Traffic Advisory Committee

#### **MEETING NOTICE**

Attached is the preliminary agenda for the March 13, 2020, meeting of the Traffic Advisory Committee (TAC). The meeting will begin at 9:00 AM in the following location:

Department of Public Works Second Floor, Room 271 5510 Overland Avenue San Diego, CA 92123

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

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

Very truly yours,

Kenton R. Jones, Secretary

San Diego County Traffic Advisory Committee

KRJ:bb

Attachment

# March 13, 2020 ~ 9:00 AM 5510 Overland Ave, Room 271 San Diego CA, 92123

## AGENDA

I. Call to Order / Roll CallII. Pledge of AllegianceIII. Approval of MinutesIV. Items for Review

SUBJE	ст	LOCATION	AREA	PLANNING/ SPONSOR GROUP
SUPER	RVISORIAL DISTRICT 2			
2-A.	RADAR CERTIFICATION	GREENFIELD DR	BOSTONIA	LAKESIDE
2-B.	RADAR CERTIFICATION	GREENFIELD DR	BOSTONIA	LAKESIDE
2-C.	RADAR CERTIFICATION	HANSON LN	RAMONA	RAMONA
2-D.	RADAR CERTIFICATION	HANSON LN	RAMONA	RAMONA
2-E.	RADAR CERTIFICATION	THIRD ST/ OLD JULIAN HY	RAMONA	RAMONA
2-F.	RADAR CERTIFICATION	MOUNT HELIX DR	MT HELIX	VALLE DE ORO
2-G.	RADAR CERTIFICATION	WIEGHORST WAY	RANCHO SAN DIEGO	VALLE DE ORO
SUPER	RVISORIAL DISTRICT 5			
5-A.	RADAR CERTIFICATION	BROOKE RD	FALLBROOK	FALLBROOK
5-B.	RADAR CERTIFICATION	VIA CUATRO CAMINOS	RANCHO SANTA FE	SAN DIEGUITO
5-C.	INTERSECTION CONTROL	VALLEY CENTER RD & RIDGE RANCH RD	VALLEY CENTER	VALLEY CENTER

COMMITTEE REPORT OF: March 13, 2020 Item <u>2-A</u>

**SUPERVISORIAL DISTRICT**: 2

**SUBJECT:** Radar Certification

LOCATION: Greenfield Drive from the El Cajon city limit (near

Pioneer Way) to the El Cajon city limit (near Victor Street) (a distance of 0.59 miles) BOSTONIA (Thos.

Bros. 1251-F3)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

#### PROBLEM AS STATED BY REQUESTER:

Greenfield Drive from the El Cajon city limit (near Pioneer Way) to the El Cajon city limit (near Victor Street) is posted 40 MPH. Preliminary review of prevailing speeds and roadway conditions could support radar recertification of the existing 40 MPH speed limit.

## **Existing Traffic Devices**

Greenfield Road is a striped two-lane through highway with a 30 to 36 foot travelled way on a 44 to 70 feet road bed. There is a signalized intersection at Ballantyne Street. The roadway is striped with bike lane and centerline striping with intermittent left turn pockets west of Ballantyne Street and is striped a two-way left-turn lane separating both directions of travel east of Ballantyne Street to the El Cajon city limit near Victor St. The road is classified as a Light Collector on the County General Plan Mobility Element Network. The road is posted 40 MPH.

Average Daily Traffic Volumes	<u>03/20</u>	<u>04/12</u>	
Greenfield Drive: 700' E/o Magnolia Bridge	12,800*	10,101	*Estimated
Speed Data Greenfield Drive:	85th <u>Percentile</u>	10 MPH <u>Pace</u>	% in <u>Pace</u>
120' W/o Greenfield Access (2020)	42.4 MPH	35-44	82.0%

#### **Collision Data**

There have been 16 reported collisions along this segment of roadway, 9 of which involved injury, in a 3 year period (10-01-16 to 09-30-19). These collisions result in a segment accident rate of 2.08 collisions per million vehicle miles. The statewide average is 1.80 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed limit less than 45 mile per hour.



	Deceth 8															
Road Na	me:	Greenfie	ld Dr		From:	El Cajo	ո CL (at De	nver Ln)	To: El Cajon CL (near 2nd St)							
Position	:	100' W/d	o Oro	St	L					Direction: EB/WB						
										•						
Date:		2/12/202	20		Weathe	er:	Clea	r		Project Number: N/A						
Time Sta	rt:	11:25 AN	VI		Road Co	ondition	: Dry			Obse	rver:		County			
Time En	d:	12:35 PN	Л		Posted :	Speed:	35			Calibration Test: Y						
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Total	132		95	th Perc	centile		39.1									

COMMITTEE REPORT OF: March 13, 2020 Item <u>2-B</u>

**SUPERVISORIAL DISTRICT**: 2

**SUBJECT:** Radar Certification

LOCATION: Greenfield Drive from the El Cajon city limit (near

Mollison Avenue) to the El Cajon city limit (near Second Street) (a distance of 0.75 miles) BOSTONIA (Thos.

Bros. 1251-H3)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

#### PROBLEM AS STATED BY REQUESTER:

Greenfield Drive from the El Cajon city limit (near Mollison Avenue) to the El Cajon city limit (near Second Street) is posted 35 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification of the existing 35 MPH speed limit.

### **Existing Traffic Devices**

Greenfield Road is a striped two-lane through highway with a 26 to 30 foot travelled way on a 32 to 64 foot road bed. There is a signalized intersection at First Street. The roadway is striped with bike lane and centerline striping with intermittent parking lanes along the roadway. The road is classified as a Light Collector on the County General Plan Mobility Element Network. The road is posted 35 MPH Radar Enforced.

Average Daily Traffic Vo	<u>olumes</u>	<u>03/20</u>	<u>03/13</u>	
Greenfield Drive: W/o Oro Street		13,660*	11,110	*Estimated
Speed Data Greenfield Drive:		85th <u>Percentile</u>	10 MPH <u>Pace</u>	% in <u>Pace</u>
100' W/o Oro Street	(2020) (2013)	36.4 MPH 39.5 MPH	28-37 30-39	83.0% 69.0%

#### **Collision Data**

There have been 51 reported collisions along this segment of roadway, 29 of which involved injury, in a 3 year period (10-01-16 to 09-30-19). These collisions result in a segment accident rate of 4.56 collisions per million vehicle miles. The statewide average is 1.80 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed limit less than 45 mile per hour.



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Road Na	ame:	Greenfie	eld Dr	-	From:	Pionee	r Way			To:		El Cajo	n CL (n	ear Vict	or St)
Position	):	120' W/	o Gre	enfield	Access					Direc	tion:	EB/WB			
Date:		2/12/20	20		Weathe	er:	Cle	ar		Proje	ct Num	ber:	ber: N/A		
Time Sta	art:	9:30 AM	1		Road Co	ondition	: Dry	/		Obse	rver:		Cour	nty	
Time En	d:	10:45 AN	M		Posted	Speed:	40	MPH		Calib	ration 1	Гest:	Υ		
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Total	103		J.	Juli I CI	CCITCIC		77.2								

COMMITTEE REPORT OF: March 13, 2020 Item <u>2-C</u>

**SUPERVISORIAL DISTRICT**: 2

**SUBJECT:** Radar Certification

**LOCATION:** Hanson Lane from Ramona Street to San Vicente

Road (a distance of 0.75 miles) RAMONA (Thos. Bros.

1172-F1)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

#### PROBLEM AS STATED BY REQUESTER:

Hanson Lane from Ramona Street to San Vicente Road is posted 40 MPH. Preliminary review of prevailing speeds and roadway conditions could support radar recertification of the existing 40 MPH speed limit.

### **Existing Traffic Devices**

Hanson Lane is a striped three-lane through highway with a 24 foot travelled way on a 44 to 64 foot road bed. There is a signalized intersection at San Vicente Road. The roadway is striped with bike lane, intermittent parking lane, and a two-way left-turn lane separating both directions of travel. The road is classified as a Light Collector on the County General Plan Mobility Element Network. The road is posted 40 MPH.

<b>Average Daily Traffic Vol</b>	<u>umes</u>	03/20	03/02	
Greenfield Drive: W/o San Vicente		6,230*	5,208	*Estimated
Speed Data		85th <u>Percentile</u>	10 MPH <u>Pace</u>	% in <u>Pace</u>
Greenfield Drive: At School Daze Lane	(2020)	45.3 MPH	36-45	69.0%

#### **Collision Data**

There have been 10 reported collisions along this segment of roadway, 6 of which involved injury, in a 3 year period (10-01-16 to 09-30-19). These collisions result in a segment accident rate of 1.96 collisions per million vehicle miles. The statewide average is 1.80 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed limit less than 45 mile per hour.



16	No.	Decelle														
Date:   2/19/2020   Weather:   Clear   Project Number:   N/A	Road Na	me:	Hanson	Ln		From:	Ramon	a St			To:	Sai	San Vicente Rd			
Time Start: 10:10 AM	Position	:	@ Schoo	ol Daz	e Ln (P\	/T)					Direct	tion: EB	/WB			
Time Start: 10:10 AM																
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COMMITTEE REPORT OF: March 13, 2020 Item <u>2-D</u>

**SUPERVISORIAL DISTRICT: 2** 

**SUBJECT:** Radar Certification

**LOCATION:** Hanson Lane from San Vicente Road to Wilson Road

(a distance of 1.25 miles) RAMONA (Thos. Bros. 1172-

G1)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

## PROBLEM AS STATED BY REQUESTER:

Hanson Lane from San Vicente Road to Wilson Road is posted 45 MPH. Preliminary review of prevailing speeds and roadway conditions could support radar recertification of the existing 45 MPH speed limit.

### **Existing Traffic Devices**

Hanson Lane is a striped two-lane through highway with a 24 foot travelled way on a 30 to 40 feet road bed. There is a signalized intersection at San Vicente Road. The roadway is striped with bike lane and passing and no passing centerlines. The road is classified as a Minor Collector on the County General Plan Mobility Element Network. The road is posted 40 MPH.

Average Daily Traffic Voluments Lane:	umes	03/20	<u>10/15</u>			
W/o Ashley Road		5,250*	4,618	*Estimated		
Speed Data Hanson Lane:		85th <u>Percentile</u>	10 MPH <u>Pace</u>	% in <u>Pace</u>		
150' E/o Barnett Road	(2020) (2013)	50.5 MPH 48.1 MPH	40-49 37-46	60.0% 63.7%		
300' W/o Keyes Road	(2020)	48.5 MPH	38-47	66.0%		
Speed Zone	(2020)	49.5 MPH	39-48	63.0%		

#### Collision Data

There have been 11 reported collisions along this segment of roadway, 4 of which involved injury, in a 3 year period (10-01-16 to 09-30-19). These collisions result in a segment accident rate of 1.53 collisions per million vehicle miles. The statewide average

is 1.19 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speeds 45 to 55 miles per hour.



The same of	Occell															
Road Na	me:	Hanson	Ln		From:	San Vice	nte Rd		To: Wilson Rd							
Position	:	150' E/o	Barn	ett Rd					С	irection:	EB/WB					
Date:		2/19/20	20		Weathe	r:	Clear		P	roject Nur	nber:	N/A				
Time Sta	art:	11:25 AN	M		Road Co	ndition:	Dry		C	bserver:	County					
Time En	d:	12:25 PN	VI		Posted S	Speed:	45 MI	РΗ	c	Calibration Test: Y						
Speed	Num.	Cum.						Num	ber of Veh	icles						
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Position	ı <b>:</b>	300' W/	o Key	es Rd					Dir	ection:	EB/WB			
Date:		2/18/20	20		Weathe	r:	Clear		Pro	Project Number: N/A				
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COMMITTEE REPORT OF: March 13, 2020 Item <u>2-E</u>

**SUPERVISORIAL DISTRICT**: 2

**SUBJECT:** Radar Certification

**LOCATION:** Third Street/Old Julian Highway from State Route 78 to

a point 2,700 feet east of Keyes Road (a distance of

1.3 miles) RAMONA (Thos. Bros. 1152-H5)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

## PROBLEM AS STATED BY REQUESTER:

Third Street/Old Julian Highway from State Route 78 to a point 2,700 feet east of Keyes Road is posted 45 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification of the existing 45 MPH speed limit.

## **Existing Traffic Devices**

Third Street is a striped two-lane through highway with a 24 foot travelled way on a 28 foot road bed. The roadway is striped with a no passing centerline and white edgeline. There is a speed advisory curve and flashing beacon as the roadway changes names to Old Julian Highway. Third Street is classified as a Light Collector on the County General Plan Mobility Element Network. The roadway is posted 45 MPH/Radar Enforced.

Old Julian Highway is a striped two-lane through highway with a 24 foot travelled way on a 28 to 38 foot road bed. The roadway is striped with a no passing centerline and white edgeline. There is a speed advisory curve and flashing beacon as the roadway changes names from Third St . Old Julian Highway is classified as a Light Collector, west of Keyes Road, and a Community Collector, east of Keyes Road, on the County General Plan Mobility Element Network. The roadway is posted 45 MPH/Radar Enforced.

Average Daily Traffic Vo	<u>lumes</u>	<u>03/20</u>	<u>03/13</u>	
Third Street: N/o D Street		7,310*	5,940	*Estimated
Speed Data Third Street:		85th <u>Percentile</u>	10 MPH <u>Pace</u>	% in <u>Pace</u>
At G Street	(2020) (2011)	47.9 MPH 49.3 MPH	40-49 40-49	73.0% 70.7%
Old Julian Highway: 240' E/o Keyes Road	(2020)	48.5 MPH	40-49	78.0%

Speed Zone (2020) 48.2 MPH 40-49 75.5%

## **Collision Data**

There have been 21 reported collisions along this segment of roadway, 5 of which involved injury, in a 3 year period (10-01-16 to 09-30-19). These collisions result in a segment accident rate of 2.02 collisions per million vehicle miles. The statewide average is 1.19 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speeds 45 to 55 MPH.



132

Total

## **RADAR SPEED SURVEY** SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

**Road Name:** Third St/Old Julian Hy From: SR-78 To: 2,700' E/o Keyes Rd **Position:** @ G St Direction: NB/SB Date: Weather: 2/18/2020 Clear **Project Number:** N/A Time Start: 12:00 PM **Road Condition:** Observer: County Dry Time End: 1:00 PM **Posted Speed: 45 MPH Calibration Test:** Speed Num. Cum. **Number of Vehicles** (mph) Veh. Pct. 15 0 2 4 10 8 12 14 16 16 15 17 18 20 19 25 20 21 30 22 Speed (mph) 35 23 24 40 25 26 45 27 50 28 29 55 30 0.8% 60 31 32 1.5% 65 33 34 2.3% 1 70 35 3 4.5% 6.8% 36 3 100% 37 8.3% 38 13.6% 90% 39 17.4% 80% 40 22.7% 41 28.0% 70% **Cumulative Percent** 42 34.1% 60% 43 12 43.2% 44 12 52.3% 50% 45 63.6% 15 40% 46 13 73.5% 81.1% 47 10 30% 48 85.6% 6 20% 90.9% 49 7 93.9% 50 4 10% 51 96.2% 0% 98.5% 52 3 53 99.2% 0 10 20 30 40 80 50 60 70 54 Speed (mph) 55 56 100.0% ■Data Plot -50th Percentile 85th Percentile 57 58 -90th Percentile 95th Percentile 59 60 **DATA ANALYSIS** 61 62 **Average Speed** 43.8 30 - 56 Range 63 64 50th Percentile 43.8 10 mph Pace 40 - 49 65 66 85th Percentile 47.9 Number in Pace 97 67 68 90th Percentile 48.8 73% Percent in Pace 69 70 95th Percentile 50.5



## **RADAR SPEED SURVEY** SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name: Third St/Old Julian Hy From: SR-78 To: 2,700' E/o Keyes Rd Position: 240' E/o Keyes Rd **Direction:** EB/WB

Date: Weather: **Project Number:** N/A 2/18/2020 Clear Time Start: **Road Condition:** County 1:25 AM Dry Observer: Time End: 2:25 AM Posted Speed: 45 MPH Calibration Test:

Time End	1:	2:25 AM			Posted S	peed:		45 M	РН		Calibratio	n Test:	Y		
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67 68												<del></del>			
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70								4.0							
Total	130		9!	5th Pero	centile		5	1.9							

COMMITTEE REPORT OF: March 13, 2020 Item 2-F

**SUPERVISORIAL DISTRICT**: 2

**SUBJECT:** Radar Certification

**LOCATION:** Mount Helix Drive from and to Vivera Drive (a distance

of 1.32 miles) MOUNT HELIX (Thos. Bros. 1271-D2)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Certification

#### PROBLEM AS STATED BY REQUESTER:

Mount Helix Drive from and to Vivera Drive is posted 25 MPH. Preliminary review of prevailing speeds and roadway conditions could support a speed limit reduction to 20 MPH with certification for radar enforcement.

#### **Existing Traffic Devices**

Mount Helix Drive is a one-lane local roadway with a 12 to 16 foot travelled way on a 14 to 26 foot road bed. The roadway is striped as one way with white and yellow edgeline along almost its entirety, with the portion of roadway surrounding the park marked with a no passing centerline and fire lanes. The roadway has a 20 MPH speed advisory curve and a height advisory sign. There is an all-way stop control at the entrance to the Mt Helix Park & Nature Theatre gates. There are bollards, object markers and rubber berms along the roadway. Mount Helix Drive is unclassified on the County General Plan Mobility Element Network. The roadway is posted 25 MPH.

Average Daily Traffic Vol Mt Helix Drive:	<u>umes</u>	<u>03/20</u>	<u>10/13</u>		
250' S/o Vivera Drive		684*	566	*Estimated	
Speed Data Mount Helix Drive:		85th <u>Percentile</u>	10 MPH <u>Pace</u>	% in <u>Pace</u>	
850' E/o Halo Circle	(2020)	29.2 MPH	20-29	84.0%	
850' W/o Halo Circle	(2020)	20.2 MPH	15-24	100%	
Speed Zone	(2020)	24.7 MPH	18-27	92.0%	

## **Collision Data**

There have been 9 reported collisions, 4 of which involved injury, along this segment of

roadway in a 3 year period (10-01-16 to 09-30-19). These collisions result in a segment accident rate of 9.13 collisions per million vehicle miles. The statewide average is 1.80 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed limit less than 45 mile per hour.



RICHARD E. CROMPTON DIRECTOR

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

## COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date:

February 27, 2020

Item Title:

**Speed Limit and Radar Certification** 

Location:

Mt. Helix Drive from/to Pinnacle Drive/Hermosa Way and

Vivera Drive

CTE Recommendation:

Establish a 20 MPH Radar Enforced Speed Limit

#### Conditions:

- Section 22358.3 "Decrease on Narrow Street" of the California Vehicle Code (CVC) authorizes a local agency to determine upon the basis of an Engineering and Traffic (E&T) Survey that the prima facie speed limit of 25 mph on a street having a roadway not exceeding 25 feet in width is more than reasonable or safe, the local agency determine a prima facie speed limit of 20 or 15 mph, whichever is found most appropriate and is reasonable and safe.
- Section 2B.13 "Speed Limit Sign (R2-1)" of the California MUTCD, provides that an E&T Survey shall include a) prevailing speeds, b) collision records, and c) highway, traffic, and roadside conditions that are not apparent to a driver.
- Mt. Helix Drive from/to Pinnacle Drive/Hermosa Way and Vivera Drive is a oneway road and less than 25 feet in pavement width and even less than 20 feet in many sections with tight horizontal and vertical curves, residential driveways, and limited shoulders for pedestrian to walk.
- Speed data collected on February 24 and 25, 2020 shows that the prevailing (85<sup>th</sup> %) speed is 20.2 mph in the northbound one-way direction at a location 850 feet west of Halo Circle and 29.2 mph in the southbound one-way direction at a location 850 feet east of Halo Circle for a combined prevailing speed of 24.7 mph.

 Pursuant to CVC Section 22358.3 coupled with the above conditions on Mt. Helix Drive and the guidance of the California MUTCD, 20 mph radar enforced speed limit on Mt. Helix Drive within the one-way section is reasonable and safe.



Se	OCCCH													
Road Na	ame:	Mt. Heli	x Dr	From:	Vivera Dr			To:	To: Vivera Dr					
Position	1:	850 E/O	Halo Cir					Dir	ection:	SB				
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Time Sta	art:	12:00 PN	<b>Л</b>	Road Co	ndition:	DRY	ti.	Ob	server:		Barra	Manase	er	
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Road Na	ame:	Mt. Helix	x Dr		From: Vivera Dr					To: Vivera Dr				
Position	) <b>:</b>	850 W/C	) Halo	Cir	•					Direc	tion:	NB		
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70	27		95	th Perc	entile		21.6	;			T			
Total	37													

COMMITTEE REPORT OF: March 13, 2020 Item 2-G

**SUPERVISORIAL DISTRICT**: 2

**SUBJECT:** Radar Certification

**LOCATION:** Wieghorst Way from Fury Lane to Calle Albara (0.60

miles) RANCHO SAN DIEGO (Thos. Bros. 1271-I4)

INITIATED BY: DPW Traffic Engineering

**REQUEST:** Radar Recertification

#### PROBLEM AS STATED BY REQUESTER:

Wieghorst Way from Fury Lane easterly to Calle Albara is posted 50 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support a speed limit reduction to 45 MPH with certification for radar enforcement.

## **Existing Traffic Devices**

Wieghorst Way is a striped four-lane divided through highway with a 50 foot travelled way on a 60 feet road bed. There is an all-way stop intersection at Calle Simpson. The roadway is striped with bike lane. The roadway is divided with a planted median separating both directions of travel. The road is unclassified on the County General Plan Mobility Element Network. The road is posted 50 MPH.

Average Daily Traffic Volu Wieghorst Way	<u>imes</u>	<u>03/20</u>	<u>04/18</u>	
200' E/o Fury Lane		8,950*	8,460	*Estimate
Speed Data Wieghorst Way		85th <u>Percentile</u>	10 MPH <u>Pace</u>	% in <u>Pace</u>
920' N/o Calle Simpson	(2020)	46.6 MPH	36-45	67.0%
at Calle Simpson	(2018) (2011)	52.2 MPH 52.1 MPH	43-52 44-53	75.0% 78.0%

#### **Collision Data**

There have been 3 reported collisions along this segment of roadway, none of which involved injury, in a 3 year period (10-01-16 to 09-30-19). These collisions result in a segment accident rate of 0.51 collisions per million vehicle miles. The statewide average is 1.42 collisions per million vehicle miles for similar suburban divided 4 lanes with speeds less than or equal to 55 MPH.



RICHARD E. CROMPTON DIRECTOR DEPARTMENT OF PUBLIC WORKS 5510 OVERLAND AVE, SUITE 410 SAN DIEGO, CALIFORNIA 92123-1237 (858) 694-2212 FAX: (858) 694-3597 Web Site: www.sdcounty.ca.gov/dpw/

# **COUNTY TRAFFIC ENGINEER RECOMMENDATION**

Date:

February 28, 2020

Item Title:

Speed Limit and Radar Certification

Location:

Wieghorst Way from Fury Lane to Calle Albara

CTE Recommendation:

Establish 45 MPH Radar Enforced Speed Limit

#### Conditions:

- Section 22358 of the California Vehicle Code authorizes a local agency to determine upon the basis of an Engineering and Traffic Survey (E&TS) that the speed limit of 65 miles per hour (mph) is more than is reasonable or safe, the agency may declare a prima facie speed limit of 60, 55, 50, 45, 40, 35, 30, or 25 mph, whichever is found most appropriate and is reasonable and safe.
- Section 2B.13 "Speed Limit Sign (R2-1)" of the California MUTCD, provides that an E&TS shall include a) prevailing speeds, b) collision records, and c) highway, traffic and roadside conditions that are not apparent to a driver.
- The California Manual on Uniform Traffic Control Devices stipulates that speed limits are usually set at the 5 mph increment above or below the prevailing (85<sup>th</sup> percentile) speed of motorists.
- Wieghorst Way is a four-lane roadway providing direct access to 2 subdivisions
  east and west of the roadway. There are no driveways taking direct access
  onto Wieghorst Way. The County installed a recent All-Way Stop controls at
  the intersection of Wieghorst Way and Calle Simpson. The north end of
  Wieghorst Way is a dead end and the south end is controlled by a stop control
  at Fury Lane.

- Recent speed surveys taken on January 31, 2020 at a location 920 feet north of Calle Simpson shows a prevailing speed of 46.6 mph, which supports 45 mph speed limit radar enforced.
- Therefore, pursuant to CVC section 22358 and a prevailing speed of 46.6 mph taken in accordance with the guidance of the CA MUTCD section 2B.13, a 45 mph radar enforced speed limit on Wieghorst Way is reasonable, safe and recommended.



	OCCCL														
Road Na	ıme:	Wieghor	rst Wa	ау	From: Fury Lane					To: Calle Albara					
Position	:	920' N/C	) Calle	e Simps	on					Direct	tion:	EB/WE	3		
Date:		1/31/20	20		Weathe	r:	Clea	r		Proje	ct Num	ber:	0		
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Total	123					<u> </u>									

COMMITTEE REPORT OF: March 13, 2020 Item <u>5-A</u>

**SUPERVISORIAL DISTRICT**: 5

**SUBJECT:** Radar Certification

**LOCATION:** Brooke Road from Winter Haven Road to Stage Coach

Lane (a distance of 0.68 miles) Fallbrook (Thos. Bros.

1027-J5)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

## PROBLEM AS STATED BY REQUESTER:

Brooke Road from Winter Haven Road to Stage Coach Lane is posted 45 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification of the existing 45 MPH speed limit.

## **Existing Traffic Devices**

Brooke Road is a striped two-lane through highway with a 24 foot travelled way on a 26 foot road bed. The roadway is striped with a no passing centerline and white edgeline. There are tractor advisory signs and intersection advisory signs posted near the southern end of the roadway segment. Brooke Road is unclassified on the County General Plan Mobility Element Network. The roadway is posted 45 MPH/Radar Enforced.

Average Daily Traffic Vo Brooke Road:	<u>lumes</u>	<u>03/20</u>	<u>04/13</u>		
S/o Stage Coach Lane		5,400*	2,800	*Estimated	
Speed Data Brooke Road:		85th <u>Percentile</u>	10 MPH <u>Pace</u>	% in <u>Pace</u>	
70' N/o Rancho Mia	(2020) (2013)	49.5 MPH 49.1 MPH	40-49 40-49	70.0% 67.6%	

## **Collision Data**

There have been 8 reported collisions along this segment of roadway, 3 of which involved injury, in a 3 year period (10-01-16 to 09-30-19). These collisions result in a segment accident rate of 2.00 collisions per million vehicle miles. The statewide average is 1.19 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speeds 45 to 55 MPH.



****	Poccel												
Road Na	ame:	Brooke Rd		From: Stage Coach Ln					To: Winter Haven Rd				
Position	ı:	70' E/o F	Ranch	o Mia					Di	rection:	NB/SB		
Date:		2/20/20	20		Weathe	r:	Clea	ar	Pr	oject Num	ber:	N/A	
Time Sta	art:	9:30 AM			Road Co	ndition	: Dry		Ol	server:		County	
Time En	d:	11:00 AN	M		Posted S	Speed:	45 1	MPH	Са	libration	Γest:	Υ	
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COMMITTEE REPORT OF: March 13, 2020 Item <u>5-B</u>

**SUPERVISORIAL DISTRICT**: 5

**SUBJECT:** Radar Certification

**LOCATION:** Via Cuatro Caminos from Del Dios Highway to End (a

distance of 0.67 miles) RANCHO SANTA FE (Thos.

Bros. 1168-G1)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Radar Recertification

## PROBLEM AS STATED BY REQUESTER:

Via Cuatro Caminos from Del Dios Highway to End is posted 35 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support a speed limit reduction to 30 MPH with certification for radar enforcement.

#### **Existing Traffic Devices**

Via Cuatro Caminos is a two-lane local roadway with a 24 foot travelled way on a 36 foot road bed. There intersection advisory signs posted along the roadway segment. Via Cuatro Caminos is unclassified on the County General Plan Mobility Element Network. The roadway is posted 35 MPH/Radar Enforced.

Average Daily Traffic Vol Via Cuatro Caminos:	<u>umes</u>	03/20	<u>10/13</u>	
N/o Siete Legunas		1,000*	840	*Estimated
Speed Data Via Cuatro Caminos:		85th <u>Percentile</u>	10 MPH <u>Pace</u>	% in <u>Pace</u>
100' S/o Siete Leguas	(2020) (2013)	33.3 MPH 35.0 MPH	22-31 28-37	73.0% 74.0%
@ La Soldadera	(2020)	32.2 MPH	24-33	72.0%
Speed Zone	(2020)	32.8 MPH	23-32	72.5%

# **Collision Data**

There have been 0 reported collisions along this segment of roadway in a 3 year period (10-01-16 to 09-30-19).



Road Na	mo:	Via Cutra	. Cam	inos	From:	Del Dios	Ну			To:	End				
					From: Del Dios Hy										
Position	1:	@ La Sol	dader	-a						Direction:	NB/SB				
Date:		2/13/202	20		Weathe	r:	Clear	•		Project Nui	mber:	N/A			
Time Sta	art:	12:50 PN	Л		Road Co	ndition:	Dry			Observer:		County			
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Total	36		93	an i Cit	CHUIC	<u> </u>	J <del>7.7</del>								



The same	OCCCLLE											
Road Na	ame:	Via Cutra	a Caminos	From:	Del Dios	Ну		To:	End			
Position	ı:	100' S/o	Siete Lagu	na				Dire	ction: NB/	SB		
Date:		2/21/20	20	Weathe	r:	Clear		Proj	ect Number:	N/	'A	
Time Sta	art:	12:30 PN	<b>V</b>	Road Co	ndition:	Dry		Obse	erver:	Со	unty	
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67 68				ercentile		33.3		Number in			48	
69			90th Pe	ercentile		34.1		Percent in	Pace		73%	
70 Total	66		95th Pe	ercentile		34.9						

COMMITTEE REPORT OF: March 13, 2020 Item <u>5-C</u>

**SUPERVISORIAL DISTRICT**: 5

SUBJECT: Intersection Control

LOCATION: Valley Center Road & Ridge Ranch Road, VALLEY

CENTER (Thos. Bros. 1090 E6)

**INITIATED BY:** DPW Traffic Engineering

**REQUEST:** Traffic Signal Control

#### PROBLEM AS STATED BY REQUESTER:

The intersection of Valley Center Road & Ridge Ranch Road has been identified by Traffic Engineering as meeting Warrant 6, Coordinated Signal System, of the nine traffic signal warrants as described in the California Manual on Uniform Traffic Control Devices (CA MUTCD), Section 4C.01, therefore a traffic control signal should be considered.

## **Existing Traffic Devices**

Valley Center Road is a striped four-lane divided Through Highway with marked centerline bike lane. The road runs north/south and has a 64-foot travelled way on a 76-foot roadbed. The roadway is classified as a Major Road on the County General Plan Mobility Element Network and has a posted 60 MPH speed limit.

Ridge Ranch Road is a striped two-lane private roadway. The road runs east/west and has a 24-foot travelled way and roadbed. The roadway is unclassified on the County General Plan Mobility Element Network. Ridge Ranch Road is stop controlled at Valley Center Road.

Average Daily Traffic Volumes	<u>12/19</u>	<u>05/15</u>	12/12
Valley Center Road:			
N/o Ridge Ranch Road	13,556 SB	12,636 SB	12,367 SB
S/o Ridge Ranch Road	13,851 NB	12,898 NB	12,466 NB
Ridge Ranch Road:			
E/o Valley Center Road	156 WB	169 WB	235 WB

#### **Collision Data**

There has been 1 reported collision at this intersection, not involving an injury, within a past 3-year period (10-01-16 to 09-30-19). This collision resulted in an intersection accident rate of 0.03 collisions per million vehicles entering the intersection. The statewide average is 0.16 for similar stop controlled rural tee intersections.



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

## COUNTY TRAFFIC ENGINEER RECOMMENDATION.

Date:

February 27, 2020

Item Title:

Traffic Control Signal

Location:

Valley Center Road and Ridge Ranch Road

CTE Recommendation:

Install a traffic control signal

Conditions:

- In 2017, DPW implemented several traffic safety improvements at the intersection, which included a northbound right-turn lane, a northbound acceleration lane, and removed the northbound "No-U Turn" prohibition sign at Valley Center Road and Woods Valley Road signal to provide for a safe and controlled turning movement for Ridge Ranch area residents wanting to travel southbound on Valley Center Road.
- Section 21351 of the California Vehicle Code (CVC) authorizes a local agency to place and maintain or cause to be placed and maintained traffic signs, signals and other traffic control devices upon streets and highways within their jurisdiction as may be necessary to warn and guide traffic.
- Chapter 4C "Traffic Control Signal Needs Studies" of the California Manual on Uniform Traffic Control Devices (MUTCD), provides guidance for the preparation of an engineering study of traffic conditions to determine whether a traffic control signal is justified.

- An engineering study following Chapter 4C of the California MUTCD guidelines, shows that the subject intersection meets warrant 6 (Coordinated Signal System). Hence, a traffic signal control can be considered for the intersection of Valley Center Road and Ridge Ranch Road.
- The proposed traffic signal at the intersection of Valley Center Road and Ridge Ranch Road will provide for a better traffic flow system coordination along Valley Center Road within the Valley Center South Village as additional traffic signals are installed part of development conditioning within the village.
- It is my recommendation, as the County Traffic Engineer to place a traffic control signal at the intersection of Ridge Ranch Road and Valley Center Road pursuant to Section 21351 of the CVC and the engineering study (warrant analysis), dated February 27, 2020.

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

Maj	ST CO or St: VALUEY or St: PIDGE Speed limit or critic In built up area of i	P.A	ed on ma		(PV	را 40 mp	Critica Critica	l Appro	pach pach	B HO Speed	D.	ATE Z ATE Z 60 A) [A	/19   27	2020 - mph - mph
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			IMUM RE SHOWN					80	% S	ATIS	FIED	YES	□ <b>!</b>	10 <b>A</b>
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	REQUIREMENT				CONDIT	ION				✓	FU	LFILLE	D	
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	SATISFIED 80%	,   A	AND, B. INTERF	RUPTIO	N OF C	NTIN	uous	TRAF	-IC		168   		, <u>c</u>	
	AND, AN ADEQUACAUSE LESS DE TO SOLVE THE T	LAY A	ND INCOI	NVENIE	ALTERN NCE TO	ATIVE TRAF	S THA	T COU AS FAII	LD LED		Yes			

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

WARRANT 2 - Four Hour Vehicular Volume SATISFIED*	YES L	NO N	
Record hourly vehicular volumes for any four hours of an average day.			
APPROACH LANES  One More  One More			
Both Approaches - Major Street			
Higher Approach - Minor Street 77 12 12 11			
*All plotted points fall above the applicable curve in Figure 4C-1. (URBAN AREAS)	Yes 🗆	No 🗆	WA
QR, All plotted points fall above the applicable curve in Figure 4C-2. (RURAL AREAS)	Yes 🗆	No 🗹	]
<del></del>			•
WARRANT 3 - Peak Hour SATISFIED (Part A or Part B must be satisfied)	YES 🗆	NO 🗹	
PART A SATISFIED	YES □	NO IV	,
(All parts 1, 2, and 3 below must be satisfied for the same	.20 🗖		
one hour, for any four consecutive 15-minute periods)			
The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; AND	Yes 🗆	No 🗹	
The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; <u>AND</u>	Yes 🗆	No 🗹	
The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	Yes 🖸	No 🗆	
PART B SATISFIED	YES 🗆	NO 🗹	
APPROACH LANES One More 1.9 Hour			
Both Approaches - Major Street			
Higher Approach - Minor Street			
The plotted point falls above the applicable curve in Figure 4C-3. (URBAN AREAS)	Yes 🔲	No E	NA
OR, The plotted point falls above the applicable curve in Figure 4C-4. (RURAL AREAS)	Yes 🔲	No 🗹	1

**WARRANT 4 - Pedestrian Volume** No PETNITY SATISFIED YES INO (Parts 1 and 2 Must Be Satisfied) Part 1 (Parts A or B must be satisfied) Hours > Figure 4C-5 or Figure 4C-6 Vehicles per hour for A. any 4 hours SATISFIED YES | NO | Pedestrians per hour for any 4 hours Hours - - -> Figure 4C-7 or Figure 4C-8 Vehicles per hour for B any 1 hour SATISFIED YES INO I Pedestrians per hour for any 1 hour SATISFIED YES 🗆 NO 🗆 Part 2  $\underline{\text{AND}}$ , The distance to the nearest traffic signal along the major street is greater than 300 ft Yes 🔲 No □ Yes No 🔲 OR, The proposed traffic signal will not restrict progressive traffic flow along the major street **WARRANT 5 - School Crossing** SATISFIED YES INO I (Parts A and B Must Be Satisfied) SATISFIED YES INO I Part A Gap/Minutes and # of Children Hour Minutes Children Using Crossing Gaps Minutes YES □ NO □ Number of Adequate Gaps Gaps < Minutes School Age Pedestrians Crossing Street / hr YES 🔲 NO 🔲 AND Children > 20/hr No 🗆 AND, Consideration has been given to less restrictive remedial measures. Yes SATISFIED YES INO I Part B The distance to the nearest traffic signal along the major street is greater No 🗆 Yes than 300 ft Yes 🔲 No  $\square$ OR, The proposed signal will not restrict the progressive movement of traffic.

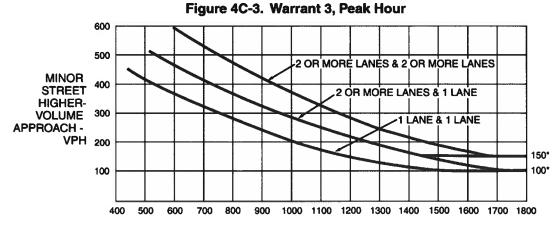
Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 3 of 5)

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

WARRANT 6 - Cod All Parts Must Be	rdinat	ted Signal System	SA	TISFIE	Y	ES M NO [
MINIMUM REQUIREM		DISTANCE TO NEAR	EST SIGNAL			
≥ 1000 ft		N <u>2850</u> ft, S <u>15.340</u> ft, E	ft, W	ft		Yes No
On a one-way street of traffic control signals a vehicular platooning.	or a streare so fa	et that has traffic predominantly in our apart that they do not provide the	ne direction,	the adjac	ent	Yes No 🗆
OR, On a two-way stro degree of platooning a provide a progressive	and the	acent traffic control signals do not pr proposed and adjacent traffic contro on.	ovide the ned I signals will	cessary collective	ely	ICS W NO
VARRANT 7 - Cras All Parts Must Be	sh Ex <sub>l</sub> Satisi	perience Warrant fied)	SAT	TISFIED	) Y	ES NO D
Adequate trial of alternative reduce the crash frequency		with satisfactory observance and en	forcement ha	s failed t	ю	Yes No
REQUIREMENT	S	Number of crashes reported within a susceptible to correction by a traffic or damage exceeding the requireme	signal, and in	olving in		Yes ☐ No 🗹
5 OR MORE					1	31
REQUIREMENT	S	CONDITIONS		$\lor$		
		Warrant 1, Condition A - Minimum Vehicular Volume				
ONE CONDITIO SATISFIED 80%		OR, Warrant 1, Condition B - Interruption of Continuous Traffic		Yes ☐ No 🚺		
0/11/01/12/5 00 /		OR, Warrant 4, Pedestrian Volume Ped Vol ≥ 80% of Figure 4C-5 thro				
VARRANT 8 - Roa All Parts Must Be	dway Satist	Network NH	SAT	risfied	) Y	ES   NO [
MINIMUM VOLUME REQUIREMENTS		ENTERING VOLUMES - ALL APP	PROACHES		<b>✓</b>	FULFILLED
1000 Veh/Hr	and ha	Typical Weekday Peak Hour is 5-year projected traffic volumes the rants 1, 2, and 3 during an average		Yes □ No□		
1000 Velulu	During	OR Each of Any 5 Hrs. of a Sat. or Sun		Tes [] NO[]		
CHARACTE	RISTIC	S OF MAJOR ROUTES	MAJOR ROUTE A	MAJO: ROUTE		
Hwy. System Serving	as Princ	cipal Network for Through Traffic				
Rural or Suburban Highway Ou	utside C	of, Entering, or Traversing a City				300
Appears as Major Rou	ite on a	n Official Plan				
Δι	Ves III No II					

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

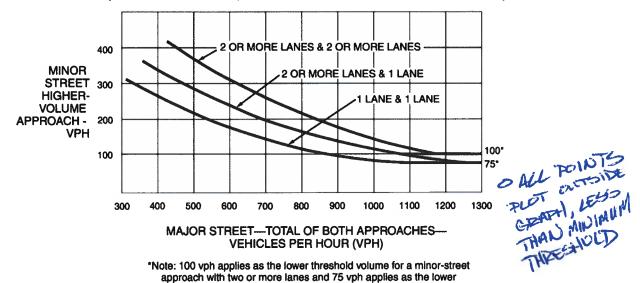
WARRANT 9 - Intersection Near a Grade Crossing (Both Parts A and B Must Be Satisfied)	SATISFIED Y	ES 🗆 NO 🗹					
PARTA		-					
A grade crossing exists on an approach controlled by a STOP or YIELD center of the track nearest to the intersection is within 140 feet of the sto line on the approach. Track Center Line to Limit Line ft	Yes No						
PART B							
There is one minor street approach lane at the track crossing - Duri traffic volume hour during which rail traffic uses the crossing, the plotted the applicable curve in Figure 4C-9.							
Major Street - Total of both approaches:VPH Minor Street - Crosses the track (one direction only, approaching the inteVPH X AF (Use Tables 4C-2, 3, & 4 below to calculate AF) =		Yes □ No □					
OR, There are two or more minor street approach lanes at the track During the highest traffic volume hour during which rail traffic uses the classic the plotted point falls above the applicable curve in Figure 4C-10.							
Major Street - Total of both approaches : VPH Minor Street - Crosses the track (one direction only, approaching the into VPH X AF (Use Tables 4C-2, 3, & 4 below to calcualte AF) =							
The minor street approach volume may be multiplied by up to three following as described in Section 4C.10.	ng adjustment factors	(AF)					
1- Number of Rail Traffic per Day	Adjustment factor from	m table 4C-2					
2- Percentage of High-Occupancy Buses on Minor Street Approach Adjustment factor from tab							
3- Percentage of Tractor-Trailer Trucks on Minor Street Approach Adjustment factor from table 4C-4_							
NOTE: If no data is availale or known, then use AF = 1 (no adjustment)							



MAJOR STREET-TOTAL OF BOTH APPROACHES-**VEHICLES PER HOUR (VPH)** 

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

Figure 4C-4. Warrant 3, Peak Hour (70% Factor) (COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



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

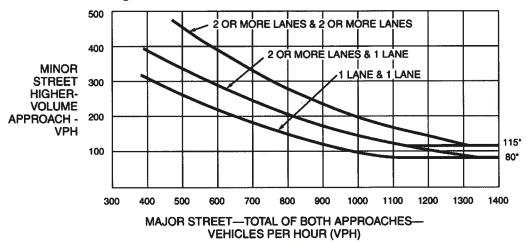
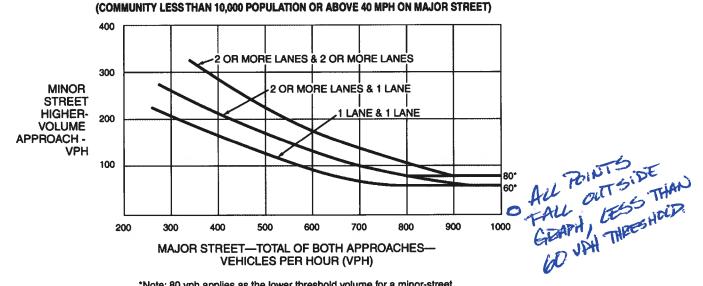


Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume

\*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)



\*Note: 80 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 60 vph applies as the lower threshold volume for a minor-street approach with one lane.

#### **VOLUME**

#### Valley Center Rd & Ridge Ranch Rd

Day: Tuesday, Wednesday

7 - 9 Volume

7 - 9 Peak Hour

7 - 9 Pk Volume

Pk Hr Factor

1154

08:00

604

0.950

2363

07:00

1336

0.960

26

07:00

17

0.708

3543

07:00

1903

4 - 6 Volume

4 - 6 Peak Hour

4 - 6 Pk Volume

Pk Hr Factor

2550

16:45

1327

0.951

1730

16:00

916

0.902

Date: 12/10/2019, 12/18/2019 (NB Counts)

City: Valley Center

**Project #:** CA19\_4464\_001, \_002, \_003

4302

16:30

2229

0.937

22

16:30

13

0.813

	D	AII V T	ΓΩΤΛ	ıı ç		NB		SB		EB		WB						To	otal
DAILY TOTALS						13,851		13,556		0 156		156					27,563		
AM Period	NB		SB		EB	WB		ТО	TAL	PM Period	NB		SB		EB	WB		TO	TAL
00:00	22		34			0		56		12:00	173		195			1		369	
00:15 00:30	16 24		28 23			1 0		45 47		12:15 12:30	188 216		194 184			5 3		387 403	
00:45	17	79	21	106		0	1	38	186	12:45	205	782	173	746		2	11	380	1539
01:00	8		20			0		28		13:00	207		189			2		398	
01:15	15		16			0		31		13:15	193		186			4		383	
01:30 01:45	14 9	46	12 23	71		0 0		26 32	117	13:30 13:45	222 241	863	231 200	806		5 0	11	458 441	1680
02:00	12	-10	11	, -		0		23	11,	14:00	244	003	196	- 000		2		442	1000
02:15	13		25			0		38		14:15	237		168			2		407	
02:30 02:45	12 6	43	28 12	76		2 0	2	42 18	121	14:30 14:45	245 241	967	187 187	738		4 3	11	436 431	1716
03:00	9	43	13	76		0		22	121	15:00	265	907	199	/36		2	11	466	1/10
03:15	9		21			Ö		30		15:15	280		214			4		498	
03:30	13		27			0		40		15:30	299		221			0	_	520	
03:45 04:00	9 10	40	24 29	85		0		33 39	125	15:45 16:00	287 313	1131	189 214	823		<u>2</u> 4	8	478 531	1962
04:00	22		50			0		72		16:15	303		254			1		558	
04:30	17		67			1		85		16:30	313		228			2		543	
04:45	12	61	65	211		0	1	77	273	16:45	349	1278	220	916		4	11	573	2205
05:00	21		106			0		127		17:00	305		210			3		518	
05:15 05:30	52 58		150 202			1 2		203 262		17:15 17:30	347 326		244 200			4 2		595 528	
05:45	64	195	198	656		3	6	265	857	17:45	294	1272	160	814		2	11	456	2097
06:00	113		216			3		332		18:00	281		164			4		449	
06:15	132		261			2		395		18:15	325		159			3		487	
06:30 06:45	148 158	551	294 263	1034		2 2	9	444 423	1594	18:30 18:45	256 207	1069	121 103	547		3 1	11	380 311	1627
07:00	111	331	335	1034		4		450	1334	19:00	233	1003	101	347		1	- 11	335	1027
07:15	141		331			4		476		19:15	223		89			0		312	
07:30	141	550	348	4226		3	47	492	4000	19:30	197	040	74	254		1	-	272	4406
07:45 08:00	157 151	550	322 265	1336		<u>6</u> 3	17	485 419	1903	19:45 20:00	190 180	843	87 75	351		0	2	277 255	1196
08:15	140		304			2		446		20:15	154		67			0		221	
08:30	154		245			0		399		20:30	151		66			0		217	
08:45	159	604	213	1027		4	9	376	1640	20:45	137	622	66	274		1	1	204	897
09:00 09:15	139 131		188 255			1 2		328 388		21:00 21:15	121 145		61 67			0 0		182 212	
09:30	136		255			4		395		21:30	113		52			1		166	
09:45	143	549	222	920		2	9	367	1478	21:45	109	488	57	237		0	1	166	726
10:00	147		177			2		326		22:00	107		63		·	0		170	
10:15 10:30	137 157		237 197			2 2		376 356		22:15 22:30	96 81		53 49			0 0		149 130	
10:45	173	614	171	782		6	12	350	1408	22:45	62	346	34	199		0		96	545
11:00	153		161			1		315		23:00	47		44	-		0		91	
11:15	159		191			6		356		23:15	41		41			0		82	
11:30 11:45	197 182	691	160 151	663		2 3	12	359 336	1366	23:30 23:45	51 28	167	26 27	138		0 0		77 55	305
TOTALS	102	4023	191	6967			78	330	11068	TOTALS	20	9828		6589		<u> </u>	78	33	16495
SPLIT %		36.3%		62.9%			0.7%		40.2%	SPLIT %		59.6%		39.9%			0.5%		59.8%
	DAILY TOTALS NB							SB		ЕВ		WB						To	otal
	_ U	HILI	FOTA	TEO .		13,851		13,556		0		156						27,	,563
AM Peak Hour		11:45		07:00			07:00		07:00	PM Peak Hour		16:45		16:00			12:45		16:30
AM Pk Volume		759		1336			17		1903	PM Pk Volume		1327		916			13		2229
Pk Hr Factor		0.878		0.960			0.708		0.967	Pk Hr Factor		0.951		0.902			0.650		0.937
7 0 Volumo		115/		2262			26		25/12	4 6 Volumo		2550		1720			22		4202

