

# SPEED LIMIT - ENGINEERING/TRAFFIC SURVEY

**STREET:** Otay Lakes Road

**LIMITS:** Allen School Lane/Camino Elevado - Bonita View Terrace Apartment (1600 feet north of Canyon Drive)

**Length of Segment (ft):** 7,905' (1.50 miles)

**Existing Posted Limit (mph):** 45 mph between Allen School Lane and Camino del Cerro Grande

**Existing Posted Limit (mph):** 50 mph between Camino del Cerro Grande - Bonita View Terrace Apartment (1600 feet north of Canyon Drive)

## SUMMARY OF SPEED SURVEYS

	Segment: Allen School Ln. - Camino del Cerro Grande	Camino del Cerro Grande - Ridgeview Wy
<b>Date Taken:</b>	4/24/2017	4/24/2017
<b>No. of Vehicles on Sample (cars):</b>	100	100
<b>85<sup>th</sup> Percentile (mph):</b>	52	52
<b>Range of Speeds Recorded (mph):</b>	42 - 60	43 - 60
	Segment: Ridgeview Wy. - Bonita View Terrace Apts. (1600 feet north of Canyon Drive)	
<b>Date Taken:</b>	4/24/2017	
<b>No. of Vehicles on Sample (cars):</b>	100	
<b>85<sup>th</sup> Percentile (mph):</b>	51	
<b>Range of Speeds Recorded (mph):</b>	40 - 59	

## ROADWAY CHARACTERISTICS

**Width (ft):** 78' - 92' curb to curb

**Total No. of Lanes:** 4 lanes (two per direction) with a 4' - 16' painted median.

**Horizontal Alignment:** A horizontal curve located 660' west of Camino del Cerro Grande with a radius of 500' over a length of 302.55' along the centerline produces a design speed of 38 mph.

**Vertical Alignment:** A crest vertical curve located at Otay Lakes Road and Bonita View Terrace Apartments, with a +8.00% to -2.17% grade change over 1920' along the centerline produces a design speed of 55 mph

## TRAFFIC CHARACTERISTICS

**Average Daily Traffic:** 31,226 (2017)

**On-Street Parking:** No parking along the entire segment

**Special Conditions:** Bus and truck route and bike lanes exist along both sides of roadway. A curve warning sign with an advisory speed of 40 mph exists in the northbound direction.

**Accident History:** The accident rate at this segment is 0.08 (accidents per million vehicle miles) which is lower than the rate of 1.47 for similar roadways in the State of California (2013).

## SURVEY RESULTS

**Study was Prepared by:** Erica Wood

**Date:** 04/27/2017

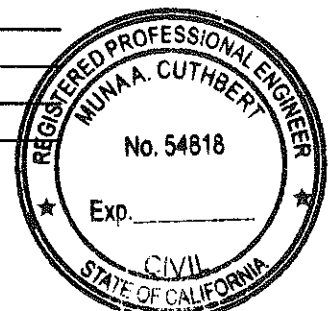
**Recommendation:** A 5 mph increase between Allen School Lane and Camino del Cerro Grande to 50 mph due to the 85th percentile speed, roadway and traffic characteristics and retain the 50 mph posted speed limit between Camino del Cerro Grande and Bonita View Terrace Apt (1600 ft. north of Canyon Drive)

**Date Recommendation Approved:**

**By:**

**Approved Speed Limit (mph):** 50 mph

**Per CVC 40803, Survey Expires:** 04/24/2023



# CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Otay Lakes Road (Allen School Ln - Camino del Cerro Grande)

DATE: 4/24/2017

SURVEY SITE: 600' South of Allen School Lane

POSTED SPEED: 45 MPH

TIME START: 11:15 A.M.

TIME END: 11:30 A.M.

WEATHER: Partly Cloudy

MPH	DIRECTION: <u>SB</u> = O <u>NB</u> = /																TOTAL	%	CUM %	
	5				10				15				20							
60	/																	1	1	100
59																		0	0	99
58	O																	1	1	99
57	O	/																2	2	98
56																		0	0	96
55	O	/																2	2	96
54	O	O	O	/														4	4	94
53	O	O	/	/	/													5	5	90
52	O	O	O	O	/	/	/	/	/	/	/	/	/	/	/	/	/	12	12	85
51	O	O	O	O	O	O	O	O	O	/	/	/	/	/	/	/	/	16	16	73
50	O	O	O	O	O	O	O	O	O	/	/	/	/	/	/	/	/	18	18	57
49	O	O	O	O	O	/	/	/	/	/	/	/	/	/	/	/	/	13	13	39
48	O	O	O	O	O	/	/	/	/	/	/	/	/	/	/	/	/	11	11	26
47	O	O	O	O	/													5	5	15
46	O	/	/															3	3	10
45	O	O																2	2	7
44	O	/																2	2	5
43	/																	1	1	3
42	O	/																2	2	2
41																				
40																				
39																				
38																				
37																				
36																				
35																				
34																				
33																				
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29																				
28																				
27																				
26																				
25																				
24																				
23																				
RECORDER: Ben Herrera												TOTAL NUMBER OF VEHICLES: 100								

85th Percentile Speed: 52 MPH

# CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Otay Lakes Road (Camino del Cerro Grande - Ridgeview Way)

DATE: 4/24/2017 SURVEY SITE: Mid-block POSTED SPEED: 50 MPH

TIME START: 11:44 AM TIME END: 11:57 AM WEATHER: Sunny

MPH	DIRECTION: <u>SB</u> = 0 <u>NB</u> = \																TOTAL	%	CUM %
	5				10				15				20						
60	0																1	1	100
59																	0	0	99
58	0																1	1	99
57																	0	0	98
56	0																1	1	98
55	0	0	0														3	3	97
54	0	/	/	/													4	4	94
53	0	0	0	/	/												5	5	90
52	0	0	0	0	/	/											6	6	85
51	0	0	0	0	0	/	/	/	/	/							10	10	79
50	0	0	0	0	0	0	/	/	/	/							10	10	69
49	0	0	0	0	0	0	0	/	/	/	/						12	12	59
48	0	0	0	0	0	0	0	/	/	/	/	/	/	/	/		15	15	47
47	0	0	0	0	0	0	/	/	/	/	/	/	/	/			12	12	32
46	0	0	0	0	/	/	/	/									8	8	20
45	0	0	0	/	/	/	/										7	7	12
44	0	0															2	2	5
43	0	/	/														3	3	3
42																	0	0	0
41																	0	0	0
40																	0	0	0
39																	0	0	0
38																	0	0	0
37																	0	0	0
36																	0	0	0
35																	0	0	0
34																	0	0	0
33																	0	0	0
32																	0	0	0
31																	0	0	0
30																	0	0	0
29																	0	0	0
28																	0	0	0
27																	0	0	0
26																	0	0	0
<b>RECORDER: Ben Herrera</b>																	<b>TOTAL NUMBER OF VEHICLES: 100</b>		

**85th Percentile Speed: 52 MPH**

# CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Otay Lakes Road (Ridgeview Way - Bonita View Terrace Apt. (1600 ft. north Canyon DR.)

DATE: 4/24/2017

SURVEY SITE: Mid-block

POSTED SPEED: 50 MPH

TIME START: 11:32 AM

TIME END: 11:43 AM

WEATHER: Sunny

MPH	DIRECTION: <u>SB</u> = 0 <u>NB</u> = \																TOTAL	%	CUM %
	5				10				15				20						
60																	0	0	100
59	0																1	1	100
58	/																1	1	99
57																	0	0	98
56	0																1	1	98
55	/																1	1	97
54	0	/															2	2	96
53	0	0	0	0													4	4	94
52	0	/	/	/													4	4	90
51	0	0	0	0	0	0	/	/	/	/	/	/	/	/	/	/	12	12	86
50	0	0	0	0	0	0	0	0	0	/	/	/	/	/	/	/	15	15	74
49	0	0	0	0	0	0	/	/	/	/	/	/	/	/	/	/	14	14	59
48	0	0	0	0	0	/	/	/	/								9	9	45
47	0	0	0	0	0	/	/	/									8	8	36
46	0	0	0	0	/	/	/										7	7	28
45	0	/	/	/	/	/											6	6	21
44	0	0	/	/	/												5	5	15
43	0	0	/	/													4	4	10
42	0	/	/														3	3	6
41	0	/															2	2	3
40	/																1	1	1
39																	0	0	0
38																	0	0	0
37																	0	0	0
36																	0	0	0
35																	0	0	0
34																	0	0	0
33																	0	0	0
32																	0	0	0
31																	0	0	0
30																	0	0	0
29																	0	0	0
28																	0	0	0
27																	0	0	0
26																	0	0	0
<b>RECORDER: Ben Herrera</b>																	<b>TOTAL NUMBER OF VEHICLES: 100</b>		

**85th Percentile Speed: 51 MPH**