

SPEED LIMIT - ENGINEERING/TRAFFIC SURVEY

STREET: Bonita Road

LIMITS: Willow Street to Easterly City Limit

Length of Segment (ft): 4,384' (0.83 miles)

Existing Posted Limit (mph): 35 mph

SUMMARY OF SPEED SURVEYS

Segment:	Willow St-Allen School Rd	Allen School Rd-Otay Lakes Rd	Otay Lakes Rd-E. City Limits
Date Taken:	04/21/2016	04/21/2016	11/13/2015
No. of Vehicles on Sample (cars):	100	100	100
85th Percentile (mph):	42	38	42
Range of Speeds Recorded (mph):	30-48	27-41	32-47

ROADWAY CHARACTERISTICS

Width (ft): Varies from 47' edge of pavement to edge of pavement - 89' curb to curb

Total No. of Lanes: 4 total lanes (2 per direction with a two-way left turn lane between Willow Street and Billy Casper Way and raised center medians between Billy Casper Way and Otay Lakes Road) and 3 total lanes (1 westbound and 2 eastbound lanes east of Otay Lakes Rd)

Horizontal Alignment: A horizontal curve located near Allen School Road with a radius of 700' over a distance of 538' produces a design speed of 45 mph.

Vertical Alignment: Less than a 2% grade

TRAFFIC CHARACTERISTICS

Average Daily Traffic: 31,302 (2015, between Allen School Road and Otay Lakes Road)

On-Street Parking: Restricted except along the north side of the road approximately 915' west and 700' east of Allen School Road.

Special Conditions: Solid commercial businesses with direct driveway access are located along the south side of the roadway. Both multi-family dwellings and commercial businesses are located along the north side of the roadway. The Chula Vista Municipal Golf Course, Bonita Sunnyside Branch Library and Bonita Museum are located on the north side of the roadway between Billy Casper Way and Otay Lakes Road. Bike lanes exist along both sides of the segment except eastbound east of Billy Casper Way.

Accident History: The accident rate at this segment is 0.39 (per million vehicle miles) which is lower than the accident rate of 1.70 for similar roadways in the state of California (2012).

SURVEY RESULTS

Study was Prepared by: Erica Wood

Date: 05/11/2016

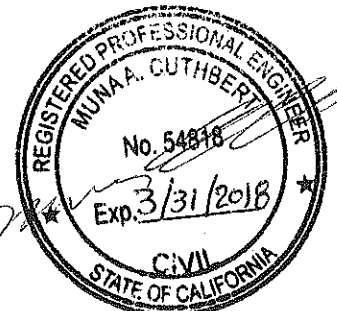
Recommendation: Increase the posted speed limit to 40 mph due to the 85th percentile speed and roadway characteristics.

Date Recommendation Approved:

By: Muna Cuthbert, P.E.

Approved Speed Limit (mph): 40 MPH

Per CVC 40802, Survey Expires: 11/13/2022



CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Bonita Road (Willow Street to Allen School Road)

DATE: 04/21/16

SURVEY SITE: Across from 4190 Bonita Road

POSTED SPEED: 35 mph

TIME START: 12:22 PM

TIME END: 1:07 PM

WEATHER: Clear/Sunny

MPH	DIRECTION: <u>EB</u> = O <u>WB</u> = /																TOTAL	%	CUM %	
	5				10				15				20							
50																				
49																				
48	O																	1	1	100
47	O																	1	1	99
46	/																	1	1	98
45	/																	1	1	97
44	O	O	O	/														4	4	96
43	O	O	/															3	3	92
42	O	O	O	O	O	O	O	/	/	/								11	11	89
41	O	O	O	O	/	/	/	/										8	8	78
40	O	O	O	O	/	/	/	/										8	8	70
39	O	O	O	O	/	/	/	/	/									9	9	62
38	O	O	O	O	O	O	/	/	/	/	/							11	11	53
37	O	O	O	O	/	/	/	/										8	8	42
36	O	O	O	O	/	/	/	/	/	/	/							11	11	34
35	O	O	/	/	/	/	/											7	7	23
34	O	O	/	/	/	/	/											6	6	16
33	O	/	/	/														4	4	10
32	O	O	O	/														4	4	6
31	O																	1	1	2
30	/																	1	1	1
29																				
28																				
27																				
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14																				
13																				
RECORDER: Erica Wood											TOTAL NUMBER OF VEHICLES: 100									

85th Percentile Speed: 42 mph

CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Bonita Road (Allen School Road - Otay Lakes Rd)

DATE: 04/21/2016 SURVEY SITE: Prpoerty Line of 4243/4375 Bonita Road POSTED SPEED: 35 mph

TIME START: 11:43 AM

TIME END: 12:17 PM

WEATHER: Clear/Sunny

MPH	DIRECTION: <u>EB</u> = O <u>WB</u> = /																TOTAL	%	CUM %
	5				10				15				20						
50																			
49																			
48																			
47																			
46																			
45																			
44																			
43																			
42																			
41	/																	1	100
40	O	/	/															3	99
39	O	O	/	/														4	96
38	O	O	O	O	O	/	/	/	/	/	/	/	/	/	/	/		8	92
37	O	O	O	O	O	O	/	/	/	/	/	/	/	/	/	/		11	84
36	O	O	O	O	/	/	/	/	/	/	/	/	/	/	/	/		10	73
35	O	O	O	O	O	/	/	/	/	/	/	/	/	/	/	/		11	63
34	O	O	O	O	O	O	/	/	/	/	/	/	/	/	/	/		11	52
33	O	O	O	O	O	O	/	/	/	/	/	/	/	/	/	/		10	41
32	O	O	/	/	/	/	/	/	/	/	/	/	/	/	/	/		9	31
31	O	O	O	/	/	/	/	/	/	/	/	/	/	/	/	/		9	22
30	O	O	O	O	O	/	/											7	13
29	O	O	/															3	6
28	O	O																2	3
27	O																	1	1
26																			
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13																			
RECORDER: Erica Wood											TOTAL NUMBER OF VEHICLES: 100								

85th Percentile Speed: 38 mph

