



Alston Road

Engineering & Traffic Survey (E&TS) Summary

From / To	Eucalyptus Hill Road to City Limits
FAU Classification	Collector
Width	20 - 28 Feet
Length	5,300 Feet
Striping, Parking and Land Use	Double yellow centerline, parking on both sides, residential
Existing Posted Speed Limit	35 miles per hour (mph)
85th Percentile Speed	40 mph
Pace	25 to 35 mph
Average Daily Traffic	2,652
Engineer's Determination of Speed Limit	<u>35 mph</u>
Speed Survey Expiry Date:	10/16/2022
Date prepared	10/16/2015

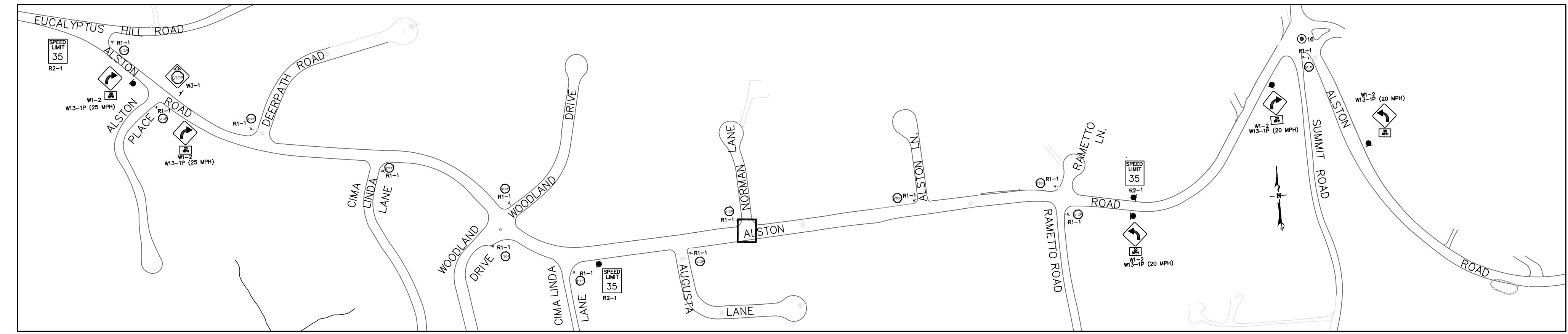
Justification: In accordance with the California Manual of Uniform Traffic Control Devices (MUTCD) and California Vehicle Code Section 627, a 5 mph reduction from the nearest increment of the 85th percentile speed is applied due to pedestrian safety. This section of Alston Road lacks a continuous sidewalk and pedestrians are consequently required to share the roadway with motorists.

City of Santa Barbara
Behdad Gharagozli, P.E.
Project Engineer II
Registered Civil Engineer Number C 82051

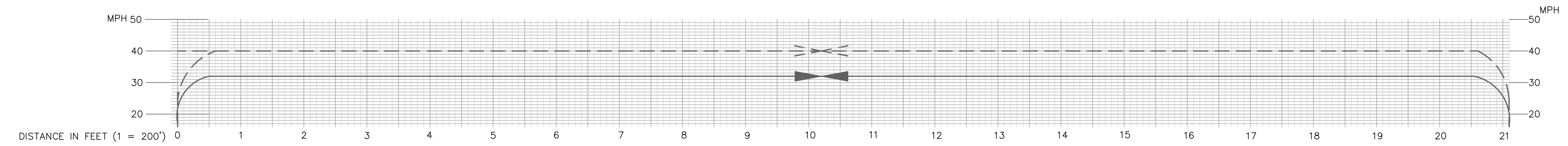


GRADIENT
 ROADSIDE DEVELOPMENT
 REMARKS:

SOLID RESIDENTIAL



ROADWAY WIDTH	26' FEET	28' FEET	24' FEET	20' FEET
AVERAGE DAILY TRAFFIC	2652			
NO. OF STRIPED LANES	TWO LANES			
TYPE OF DIVISION STRIPE	DOUBLE YELLOW CENTERLINE			
OBSERVED SPEED CRITICAL	40 MPH - OBSERVED 85th PERCENTILE SPEED			
OBSERVED SPEED 10 mph PACE	32 to 42 MPH - OBSERVED 10mph PACE			
EXISTING SIGNED ZONE	35 MPH - EXISTING SIGNED ZONE			
PROPOSED SPEED LIMIT	35 MPH			



SEGMENT COLLISION RATE	1.21 acc/MVM
2009 DISTRICT 5 URBAN 2 & 3LN	(1.59 acc/MVM)
2009 STATEWIDE 3 yr 2 & 3LN	(1.42 acc/MVM)

CITY OF SANTA BARBARA



SPEED ZONE SURVEY
ALSTON RD

FROM Eucalyptus Road
 TO City Limits
 SCALE: SCALE - 1" = 200'
 DATE: October 8, 2015
 PREPARED BY: J.Rousseau

LEGEND

- ROAD SIGNS
- REGULATORY & WARNING (CODE NO.)
- TRAFFIC SIGNALS
- SENIOR CENTERS
- SCHOOLS
- CHURCHES
- SPEED STUDY LOCATION

CRITICAL SPEED - 85%
 LOWER LIMIT OF 10mph PACE

VEHICLE SPEED SURVEY SHEET

Location: Alston Road @ Norman Lane Date: October 2, 2015
 Weather: Clear/Dry Posted Speed: 35 Recorded By: BG
 Start Time: 9:00 AM End Time: 9:50 AM Checked By: JR

MPH	Number of Vehicles															Total	Cumulative Total											
				5				10				15						20				25				30		
59																									0			
58																										0		
57																										0		
56																										0		
55																										0		
54																										0		
53																										0		
52																										0		
51																										0		
50																										0		
49																										0		
48																										0		
47	X																									1	100	
46	X	X																								2	99	
45	X																									1	97	
44																										0		
43																										0		
42	X	X	X	X																						4	96	
41	X	X																								2	92	
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		12	90	
39	X	X	X	X	X																					5	78	
38	X	X	X	X	X	X	X	X	X																	9	73	
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		14	64	
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		13	50
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		9	37
34	X	X	X	X	X																					5	28	
33	X	X	X	X																						4	23	
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		11	19	
31	X	X	X	X																						4	8	
30	X																									1	4	
29	X																									1	3	
28	X																									1	2	
27	X																									1	1	
26																										0		
25																										0		
24																										0		
23																										0		
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20																										0		
19																										0		
18																										0		
17																										0		
16																										0		
15																										0		

85th Percentile Calculation

Step 1: Number of Free Flowing Vehicles: 100
 Step 2: Determine 85th percentile vehicle: Total number of cars (Step 1) times 0.85: 85
 Step 3: # to count up (step 2 rounded to nearest whole number if decimal): 85

85th Percentile Speed 40 mph **Average Speed** 36.4 mph **10 MPH Pace Speed** 32 to 42 mph

Alston Rd

City Limits to Eucalyptus Hill Rd
2013-2014

Segment length in feet	4,500	
Number of collisions =	2	
AADT	2,652	
Time period in years =	2	
Segment Collision Rate =	1.21	ACC/MVM
2009 District 5 Urban 2 and 3LN =	1.59	ACC/MVM
2009 Statewide 3 yr, 2 and 3 LN =	1.42	ACC/MVM

<u>CASE ID</u>	<u>STREET 1</u>	<u>STREET 2</u>	<u>Date</u>	<u>Distance From Intersection</u>	<u>Direction From Intersection</u>
6024707	ALSTON RD	WOODLAND DR	4/2/2013	0	Not Stated
14-77644	ALSTON RD	WOODLAND DR	10/27/2014	60	South

Volume Grand Totals (Volume factor 0.500)

Average Volumes															
Eastbound							Westbound								
Time	ADT	Total Volume	%	Time	ADT	Total Volume	%	Time	ADT	Total Volume	%	Time	ADT	Total Volume	%
12:00 AM	0.0	1.0	0.0	4.0	0.0	5.0		12:00 PM	16.0	96.0	23.0	85.0	39.0	181.0	
12:15 AM	0.0		3.0		3.0			12:15 PM	24.0		22.0		46.0		
12:30 AM	0.0		1.0		1.0			12:30 PM	27.0		18.0		45.0		
12:45 AM	1.0		0.0		1.0			12:45 PM	29.0		22.0		51.0		
1:00 AM	0.0	2.0	0.0	4.0	0.0	6.0		1:00 PM	22.0	82.0	11.0	78.0	33.0	160.0	
1:15 AM	0.0		3.0		3.0			1:15 PM	15.0		24.0		39.0		
1:30 AM	1.0		0.0		1.0			1:30 PM	20.0		22.0		42.0		
1:45 AM	1.0		1.0		2.0			1:45 PM	25.0		21.0		46.0		
2:00 AM	0.0	1.0	0.0	1.0	0.0	2.0		2:00 PM	26.0	101.0	30.0	107.0	56.0	208.0	
2:15 AM	0.0		0.0		0.0			2:15 PM	23.0		22.0		45.0		
2:30 AM	0.0		1.0		1.0			2:30 PM	19.0		24.0		43.0		
2:45 AM	1.0		0.0		1.0			2:45 PM	33.0		31.0		64.0		
3:00 AM	0.0	2.0	0.0	1.0	0.0	3.0		3:00 PM	31.0	154.0	23.0	119.0	54.0	273.0	
3:15 AM	1.0		1.0		2.0			3:15 PM	35.0		26.0		61.0		
3:30 AM	1.0		0.0		1.0			3:30 PM	43.0		38.0		81.0		
3:45 AM	0.0		0.0		0.0			3:45 PM	45.0		32.0		77.0		
4:00 AM	0.0	0.0	0.0	0.0	0.0	0.0		4:00 PM	48.0	194.0	36.0	121.0	84.0	315.0	
4:15 AM	0.0		0.0		0.0			4:15 PM	41.0		39.0		80.0		
4:30 AM	0.0		0.0		0.0			4:30 PM	49.0		20.0		69.0		
4:45 AM	0.0		0.0		0.0			4:45 PM	56.0		26.0		82.0		
5:00 AM	1.0	7.0	0.0	1.0	1.0	8.0		5:00 PM	44.0	191.0	24.0	86.0	68.0	277.0	
5:15 AM	1.0		0.0		1.0			5:15 PM	59.0		18.0		77.0		
5:30 AM	1.0		0.0		1.0			5:30 PM	58.0		22.0		80.0		
5:45 AM	4.0		1.0		5.0			5:45 PM	30.0		22.0		52.0		
6:00 AM	3.0	24.0	1.0	15.0	4.0	39.0		6:00 PM	24.0	77.0	14.0	63.0	38.0	140.0	
6:15 AM	2.0		2.0		4.0			6:15 PM	20.0		16.0		36.0		
6:30 AM	8.0		1.0		9.0			6:30 PM	19.0		20.0		39.0		
6:45 AM	11.0		11.0		22.0			6:45 PM	14.0		13.0		27.0		
7:00 AM	14.0	80.0	8.0	43.0	22.0	123.0		7:00 PM	8.0	38.0	15.0	46.0	23.0	84.0	
7:15 AM	21.0		9.0		30.0			7:15 PM	11.0		13.0		24.0		
7:30 AM	18.0		12.0		30.0			7:30 PM	11.0		8.0		19.0		
7:45 AM	27.0		14.0		41.0			7:45 PM	8.0		10.0		18.0		
8:00 AM	23.0	106.0	16.0	91.5	39.0	197.5		8:00 PM	6.0	21.0	6.0	32.0	12.0	53.0	
8:15 AM	26.0		26.0		52.0			8:15 PM	7.0		8.0		15.0		
8:30 AM	25.0		28.0		53.0			8:30 PM	6.0		5.0		11.0		
8:45 AM	32.0		21.5		53.5			8:45 PM	2.0		13.0		15.0		
9:00 AM	26.0	96.0	16.5	64.5	42.5	160.5		9:00 PM	8.0	20.0	6.0	18.0	14.0	38.0	
9:15 AM	24.0		13.0		37.0			9:15 PM	5.0		2.0		7.0		
9:30 AM	24.0		19.0		43.0			9:30 PM	3.0		8.0		11.0		
9:45 AM	22.0		16.0		38.0			9:45 PM	4.0		2.0		6.0		
10:00 AM	10.0	76.0	27.0	86.0	37.0	162.0		10:00 PM	14.0	28.0	4.0	11.0	18.0	39.0	
10:15 AM	25.0		16.0		41.0			10:15 PM	11.0		1.0		12.0		
10:30 AM	15.0		22.0		37.0			10:30 PM	1.0		4.0		5.0		
10:45 AM	26.0		21.0		47.0			10:45 PM	2.0		2.0		4.0		
11:00 AM	15.0	91.0	22.0	77.0	37.0	168.0		11:00 PM	2.0	5.0	1.0	5.0	3.0	10.0	
11:15 AM	26.0		22.0		48.0			11:15 PM	2.0		3.0		5.0		
11:30 AM	22.0		13.0		35.0			11:30 PM	0.0		1.0		1.0		
11:45 AM	28.0		20.0		48.0			11:45 PM	1.0		0.0		1.0		