



North La Cumbre Rd

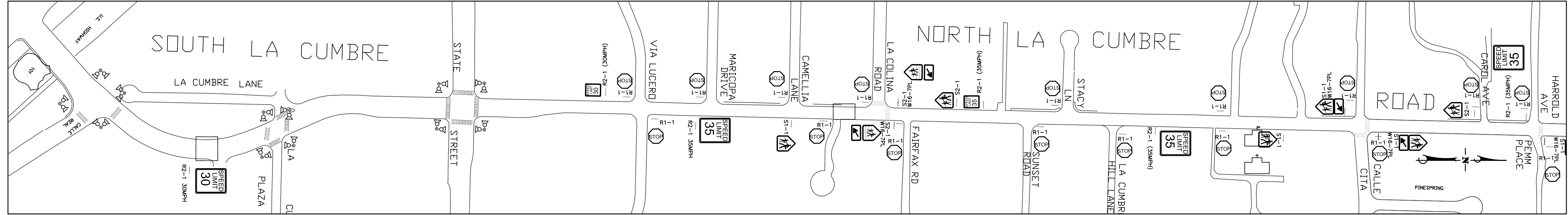
Engineering & Traffic Survey (E&TS) Summary

From /To	Via Lucero to Northerly City Limits
FAU Classification	Minor Arterial
Width	40 feet
Length	2,945 feet
Striping, Parking and Land Use	Dash yellow center line, bike lane lines for school hours, parking out of school hours. Residential
Existing Posted Speed Limit	35 mph
85th Percentile Speed	37 mph
Pace	28 to 38 mph
Average Daily Traffic	5,478
Engineer's Determination of Speed Limit	<u>35 mph</u>
Justification	85 th percentile speed
Speed Survey Expiry Date:	10/16/2022
Date Prepared	10/16/2015

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



GRADIENT		
ROADSIDE DEVELOPMENT	BUSINESS	RESIDENTIAL
REMARKS:		



CITY OF SANTA BARBARA



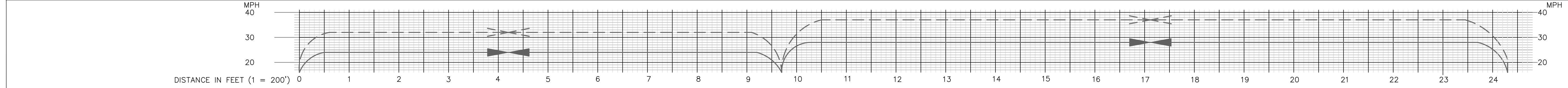
**SPEED ZONE SURVEY
LA CUMBRE ROAD**

FROM _____ US 101
 TO _____ Northerly City Limits (Pemm Place)
 SCALE: _____ SCALE - 1" = 200'
 DATE: _____ October 1, 2015
 PREPARED BY: _____ J.Rousseau

LEGEND

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

ROADWAY WIDTH	64 FEET	40 FEET
AVERAGE DAILY TRAFFIC	15,008	5,478
NO. OF STRIPED LANES	FOUR LANES	TWO LANES
TYPE OF DIVISION STRIPE	DOUBLE YELLOW CENTER LINE AND MEDIAN- DASH WHITE LANE LINES	DOUBLE YELLOW CENTER LINE
OBSERVED SPEED CRITICAL	32 MPH - OBSERVED 85th PERCENTILE SPEED	37 MPH - OBSERVED 85th PERCENTILE SPEED
OBSERVED SPEED 10 mph PACE	24 to 34 MPH - OBSERVED 10mph PACE	28 to 38 MPH - OBSERVED 10mph PACE
EXISTING SIGNED ZONE	30 MPH - EXISTING SIGNED ZONE	35 MPH - EXISTING SIGNED ZONE
PROPOSED SPEED LIMIT	30 MPH	35 MPH



SEGMENT COLLISION RATE	2.93 acc/MVM	1.35 acc/MVM
	2009 DISTRICT 5 URBAN 4+ UND (2.19 acc/MVM)	2009 DISTRICT 5 URBAN 2 and 3LN (1.59 acc/MVM)
	2009 STATEWIDE 3 yr 4+ UND (2.09 acc/MVM)	2009 STATEWIDE 3 yr 2 and 3LN (1.42 acc/MVM)

CRITICAL SPEED - 85% _____
 LOWER LIMIT OF 10mph PACE _____

VEHICLE SPEED SURVEY SHEET

Location: N. La Cumbre Rd s/o La Colina Date: October 7, 2015
 Weather: Clear/Dry Posted Speed: 35 Recorded By: BG
 Start Time: 10:00 AM End Time: 10:45 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																															0	
46																															0	
45	X																													1	100	
44																														0		
43																															0	
42																															0	
41	X	X	X																											3	99	
40	X																													1	96	
39	X	X	X	X	X																									5	95	
38	X	X	X	X	X																									5	90	
37	X	X	X	X	X																									5	85	
36	X	X	X	X	X	X	X	X																						8	80	
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X														12	72	
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X														10	60	
33	X	X	X	X	X	X	X	X	X																					8	50	
32	X	X	X	X	X	X	X																							7	42	
31	X	X	X	X	X	X	X																							7	35	
30	X	X	X	X	X	X	X																							6	28	
29	X	X	X	X																										4	22	
28	X	X	X	X	X	X	X	X	X	X																				9	18	
27	X	X	X	X																										4	9	
26	X	X																												2	5	
25	X	X	X																											3	3	
24																														0		
23																														0		
22																														0		
21																														0		
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 37 mph **Average Speed** 33.1 mph **10 MPH Pace Speed** 28 to 38 mph

La Cumbre Rd

Via Lucero to Northerly City Limits

2012-2013

Segment length in feet	2,945	
Number of collisions =	3	
AADT	5,478	
Time period in years =	2	
Segment Collision Rate =	1.35	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>
6000889	LA CUMBRE RD	LA COLINA RD	1/30/2013	0	Not stated
6007314	LA CUMBRE RD	LA COLINA RD	1/30/2013	0	Not stated
6311186	LA CUMBRE RD	LA COLINA RD	11/5/2013	0	Not stated

Average Daily Traffic Volumes Quality Traffic Data, LLC

QTD PROJ/LOC #:	2015140 - 013	GPS COORDINATES:	0
ON STREET:	La Cumbre Road North	START DATE:	Wednesday, April 08, 2015
CROSS STREETS:	North of La Cumbre Hills Lane	VICINITY:	Santa Barbara, CA

AM COUNTS					PM COUNTS				
	NB	SB	EB	WB		NB	SB	EB	WB
00:00	6	10			12:00	29	43		
00:15	12	3			12:15	38	47		
00:30	4	2			12:30	34	32		
00:45	3	25	5	20	12:45	46	147	47	169
				45					316
01:00	6	6			13:00	43	43		
01:15	1	4			13:15	31	46		
01:30	1	1			13:30	37	40		
01:45	3	11	4	15	13:45	38	149	40	169
				26					318
02:00	1	6			14:00	44	41		
02:15	0	2			14:15	66	51		
02:30	2	0			14:30	57	63		
02:45	1	4	3	11	14:45	56	223	71	226
				15					449
03:00	0	1			15:00	44	78		
03:15	1	2			15:15	44	68		
03:30	3	3			15:30	50	50		
03:45	4	8	2	8	15:45	29	167	51	247
				16					414
04:00	3	3			16:00	49	66		
04:15	0	1			16:15	31	60		
04:30	1	3			16:30	56	62		
04:45	5	9	6	13	16:45	53	189	69	257
				22					446
05:00	3	4			17:00	60	54		
05:15	22	3			17:15	34	58		
05:30	9	13			17:30	46	63		
05:45	18	52	9	29	17:45	63	203	59	234
				81					437
06:00	21	13			18:00	41	59		
06:15	25	11			18:15	40	46		
06:30	29	24			18:30	29	51		
06:45	22	97	29	77	18:45	31	141	21	177
				174					318
07:00	34	13			19:00	21	22		
07:15	79	22			19:15	10	35		
07:30	104	60			19:30	16	24		
07:45	119	336	71	166	19:45	26	73	24	105
				502					178
08:00	94	53			20:00	22	34		
08:15	59	28			20:15	28	21		
08:30	37	34			20:30	15	31		
08:45	38	228	24	139	20:45	28	93	19	105
				367					198
09:00	31	22			21:00	15	10		
09:15	57	28			21:15	10	18		
09:30	38	35			21:30	4	18		
09:45	43	169	25	110	21:45	13	42	10	56
				279					98
10:00	41	29			22:00	13	9		
10:15	41	32			22:15	6	12		
10:30	50	46			22:30	16	12		
10:45	34	166	32	139	22:45	7	42	13	46
				305					88
11:00	51	46			23:00	10	18		
11:15	56	22			23:15	1	9		
11:30	40	29			23:30	4	4		
11:45	34	181	44	141	23:45	6	21	12	43
				322					64
TOTALS:	1286	868		2154	TOTALS:	1490	1834		3324

SPLIT	59.7%	40.3%	39.3%	SPLIT	44.8%	55.2%	60.7%
PEAK HOUR	07:15	07:30	07:15	PEAK HOUR	14:00	14:30	14:15
PH VOLUME	396	212	602	PH VOLUME	223	280	486
PHF	0.83	0.75	0.79	PHF	0.85	0.90	0.96

DAY'S TOTAL				
NB	SB	EB	WB	TOTAL
2776	2702			5478



QUALITY TRAFFIC DATA, LLC

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