



Alamar Avenue

Engineering & Traffic Survey (E&TS) Summary

From / To	State Street to Foothill Road
FAU Classification	Collector
Width	43 Feet
Length	3,000 Feet
Striping, Parking and Land Use	Double yellow center-lined separation (Two-Way) with bike lanes both directions. Parking on both side. Commercial/Residential.
Existing Posted Speed Limit	35 miles per hour (mph)
85th Percentile Speed	38 mph
Pace	30 to 40 mph
Average Daily Traffic	6,292
Engineer's Determination of Speed Limit	<u>35 mph</u>
Speed Survey Expiry Date	07/01/2023
Date Prepared	07/01/2016

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 5 mph increment of the 85th percentile speed is applied due to:

Residential Density: a high density of residential units as defined by the California MUTCD (16 or more separate dwelling houses or business structures within 0.25 miles).

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



VEHICLE SPEED SURVEY SHEET

Location: 400 Alamar Avenue

Date: May 19, 2016

Weather: Cloudy\Dry

Posted Speed: 35 mph

Recorded By: jr

Start Time: 2:05 PM

End Time: 2:45 PM

Checked By: _____

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	x																										1	99
43																											0	-
42	x	x																									2	98
41	x	x	x																								3	96
40	x	x	x	x																							4	93
39	x	x																									2	89
38	x	x	x	x	x	x	x	x																			8	87
37	x	x	x	x	x	x	x																				7	79
36	x	x	x	x	x	x	x																				7	72
35	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x								19	65
34	x	x	x	x	x	x	x																				7	46
33	x	x	x	x	x	x	x	x	x	x	x	x															12	39
32	x	x	x	x	x																						5	27
31	x	x	x	x	x	x	x	x	x																		9	22
30	x	x	x																								3	13
29	x	x																									2	10
28	x	x																									2	8
27	x	x																									2	6
26	x	x	x																								3	4
25	x																										1	1
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 38 mph **Average Speed** 34.5 mph **10 MPH Pace Speed** 30 to 40 mph

VOLUME

400 Alamar Ave E S/O Puesta Del Sol

Day: Thursday
 Date: 10/8/2015

City: Santa Barbara
 Project #: CA15_8108_089

DAILY TOTALS					NB	SB	EB	WB	Total		
					3,017	3,275	0	0	6,292		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	3	4	0	0	7	12:00	54	57	0	0	111
00:15	3	2	0	0	5	12:15	49	47	0	0	96
00:30	3	0	0	0	3	12:30	46	50	0	0	96
00:45	5	14	0	6	5	12:45	44	193	60	214	104
01:00	1	3	0	0	4	13:00	51	53	0	0	104
01:15	3	2	0	0	5	13:15	51	60	0	0	111
01:30	1	1	0	0	2	13:30	60	36	0	0	96
01:45	4	9	2	8	6	13:45	40	202	61	210	101
02:00	3	0	0	0	3	14:00	48	49	0	0	97
02:15	0	0	0	0	0	14:15	50	51	0	0	101
02:30	0	1	0	0	1	14:30	64	60	0	0	124
02:45	2	5	0	1	2	14:45	54	216	74	234	128
03:00	0	1	0	0	1	15:00	54	62	0	0	116
03:15	2	1	0	0	3	15:15	56	57	0	0	113
03:30	0	1	0	0	1	15:30	61	61	0	0	122
03:45	2	4	1	4	3	15:45	67	238	59	239	126
04:00	0	0	0	0	0	16:00	69	58	0	0	127
04:15	1	4	0	0	5	16:15	58	53	0	0	111
04:30	0	3	0	0	3	16:30	65	51	0	0	116
04:45	0	1	0	7	0	16:45	82	274	56	218	138
05:00	2	5	0	0	7	17:00	84	57	0	0	141
05:15	1	7	0	0	8	17:15	82	59	0	0	141
05:30	2	8	0	0	10	17:30	92	52	0	0	144
05:45	2	7	6	26	8	17:45	69	327	75	243	144
06:00	8	10	0	0	18	18:00	47	64	0	0	111
06:15	9	19	0	0	28	18:15	65	43	0	0	108
06:30	4	11	0	0	15	18:30	54	69	0	0	123
06:45	11	32	37	77	48	18:45	61	227	54	230	115
07:00	19	37	0	0	56	19:00	49	30	0	0	79
07:15	17	46	0	0	63	19:15	49	29	0	0	78
07:30	38	66	0	0	104	19:30	34	25	0	0	59
07:45	72	146	104	253	176	19:45	44	176	31	115	75
08:00	47	114	0	0	161	20:00	41	20	0	0	61
08:15	44	94	0	0	138	20:15	32	17	0	0	49
08:30	25	66	0	0	91	20:30	32	25	0	0	57
08:45	35	151	85	359	120	20:45	43	148	17	79	60
09:00	33	68	0	0	101	21:00	31	13	0	0	44
09:15	39	58	0	0	97	21:15	39	12	0	0	51
09:30	32	48	0	0	80	21:30	20	9	0	0	29
09:45	36	140	54	228	90	21:45	17	107	9	43	26
10:00	40	54	0	0	94	22:00	19	12	0	0	31
10:15	35	48	0	0	83	22:15	8	4	0	0	12
10:30	46	64	0	0	110	22:30	7	6	0	0	13
10:45	37	158	60	226	97	22:45	11	45	7	29	18
11:00	44	43	0	0	87	23:00	10	6	0	0	16
11:15	39	61	0	0	100	23:15	4	5	0	0	9
11:30	48	55	0	0	103	23:30	0	2	0	0	2
11:45	48	179	54	213	102	23:45	4	18	0	13	4
TOTALS	846	1408			2254	TOTALS	2171	1867			4038
SPLIT %	37.5%	62.5%			35.8%	SPLIT %	53.8%	46.2%			64.2%

DAILY TOTALS					NB	SB	EB	WB	Total
					3,017	3,275	0	0	6,292

AM Peak Hour	07:30	07:30			07:30	PM Peak Hour	16:45	14:45			17:00
AM Pk Volume	201	378			579	PM Pk Volume	340	254			570
Pk Hr Factor	0.698	0.829			0.822	Pk Hr Factor	0.788	0.963			0.990
7 - 9 Volume	297	612	0	0	909	4 - 6 Volume	601	461	0	0	1062
7 - 9 Peak Hour	07:30	07:30			07:30	4 - 6 Peak Hour	16:45	17:00			17:00
7 - 9 Pk Volume	201	378	0	0	579	4 - 6 Pk Volume	340	243	0	0	570
Pk Hr Factor	0.698	0.829	0.000	0.000	0.822	Pk Hr Factor	0.924	0.810	0.000	0.000	0.990

Alamar Avenue

Foothill to State
1/1/2013 to 12/31/2015

Segment length in feet	3,000	
Number of collisions =	12	
AADT	6,292	
Time period in years =	3	
Segment Collision Rate =	3.07	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>	<u>Type of Collision</u>
5949085	STATE ST	ALAMAR AVE	1/8/2013	0	Not stated	Broadside
6001960	VERDE VISTA DR	ALAMAR AVE	1/31/2013	8	South	Hit object
6012173	RT 192	ALAMAR AVE	3/15/2013	0	Not stated	Broadside
6185213	STATE ST	ALAMAR AVE	8/10/2013	0	Not stated	Broadside
6377252	STATE ST	ALAMAR AVE	2/25/2014	0	Not stated	Hit object
6508459	ALAMAR AVE	CALLE NOGUERA	5/14/2014	0	Not stated	Broadside
6558141	ALAMAR AVE	STATE ST	5/27/2014	0	Not stated	Hit object
6542903	ALAMAR AVE	FOOTHILL RD	6/26/2014	0	Not stated	Not stated
6546386	FOOTHILL RD	ALAMAR AVE	6/30/2014	0	Not stated	Not stated
6598649	STATE ST	ALAMAR AVE	8/5/2014	0	Not stated	Broadside
6618505	PASEO DEL REFUGIO	ALAMAR AVE	8/26/2014	80	North	Rear end
6792329	FOOTHILL RD	ALAMAR AVE	1/17/2015	0	Not stated	Side swipe