



Calle Real

Traffic & Engineering Survey Summary

From / To	La Cumbre Road to Hitchcock Way
FAU Classification	Urban Arterial
Width	55 to 63 Feet
Length	2100 Feet
Striping, Parking and Land Use	Two-Way Turn Lanes, Bike Lanes No Parking on Both sides
Existing Posted Speed Limit	40 miles per hour (mph)
85th Percentile Speed	42.2 mph
Pace	33 to 43 mph
Average Daily Traffic	14,430
Special Characteristics	Bicyclist safety
Engineer's Determination of Speed Limit	40 miles per hour (mph)
Speed Survey Expiry Date:	9/30/2019
Date prepared 9/30/2012, JER	

City of Santa Barbara
Derrick Bailey P.E., T.E.
Supervising Transportation Engineer
Registered Civil Engineer Number C 65726



City of Santa Barbara

Study by

John Rousseau

Description 1: Calle Real 3400
 Description 2: 09/10 SLC SBCAG
 Description 3: C6 April 2010

Site:
 Tuesday, 4/13/2010, 12:00:00 AM -
 Friday, 4/16/2010, 12:00:00 AM

Speed Grand Totals WB

mph	Total	Hourly Averages												
		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	25.3	0.0	0.0	0.3	0.7	8.0	7.0	6.0	2.7	0.7	0.0	0.0	0.0	0.0
1:00 AM	13.7	0.0	0.0	0.3	0.7	2.0	5.0	3.7	0.7	1.0	0.0	0.3	0.0	0.0
2:00 AM	10.0	0.0	0.0	0.3	0.3	1.3	4.7	2.3	1.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	6.0	0.0	0.0	0.3	0.7	0.7	1.7	2.0	0.3	0.3	0.0	0.0	0.0	0.0
4:00 AM	13.3	0.0	0.0	0.0	0.7	1.3	7.7	2.7	0.7	0.3	0.0	0.0	0.0	0.0
5:00 AM	45.0	0.0	0.0	0.7	1.7	9.0	17.7	12.3	2.7	1.0	0.0	0.0	0.0	0.0
6:00 AM	150.7	0.3	0.3	2.7	10.7	34.0	56.3	36.7	8.3	1.3	0.0	0.0	0.0	0.0
7:00 AM	446.7	0.0	1.0	9.7	43.0	125.3	170.7	78.3	16.3	2.3	0.0	0.0	0.0	0.0
8:00 AM	511.3	0.0	0.3	13.7	53.3	135.3	205.7	81.0	18.3	3.3	0.3	0.0	0.0	0.0
9:00 AM	434.0	0.7	0.7	5.0	35.0	126.7	162.7	80.7	20.0	2.7	0.0	0.0	0.0	0.0
10:00 AM	462.3	0.0	0.3	4.7	48.7	132.3	182.3	78.7	13.7	1.3	0.3	0.0	0.0	0.0
11:00 AM	597.3	2.7	7.3	17.7	91.7	181.3	192.0	90.0	13.0	1.3	0.3	0.0	0.0	0.0
12:00 PM	619.3	0.0	4.0	24.3	94.7	207.7	206.0	69.7	12.0	1.0	0.0	0.0	0.0	0.0
1:00 PM	626.0	0.7	2.7	26.0	83.7	210.0	206.7	83.3	11.0	1.3	0.3	0.0	0.3	0.0
2:00 PM	682.3	0.0	5.0	40.0	119.0	229.0	208.7	67.3	12.3	1.0	0.0	0.0	0.0	0.0
3:00 PM	665.7	0.0	3.0	22.3	97.3	234.7	214.7	75.7	14.3	3.3	0.3	0.0	0.0	0.0
4:00 PM	648.7	0.0	3.0	17.7	107.3	220.3	207.0	78.3	13.7	1.3	0.0	0.0	0.0	0.0
5:00 PM	642.3	0.3	4.3	24.7	105.0	217.7	204.7	73.7	10.7	1.3	0.0	0.0	0.0	0.0
6:00 PM	531.7	0.0	0.0	11.7	59.3	157.0	190.7	91.0	18.7	3.0	0.3	0.0	0.0	0.0
7:00 PM	408.0	0.0	0.7	4.3	44.7	114.7	158.0	73.0	10.0	2.3	0.3	0.0	0.0	0.0
8:00 PM	301.0	0.0	0.0	2.3	29.3	93.7	112.3	50.0	11.0	1.7	0.3	0.3	0.0	0.0
9:00 PM	191.7	0.0	0.7	4.3	13.0	49.7	81.0	37.7	4.7	0.3	0.0	0.3	0.0	0.0
10:00 PM	115.0	0.0	0.0	2.0	6.7	25.7	49.0	23.7	6.7	0.7	0.3	0.0	0.0	0.3
11:00 PM	47.7	0.0	0.3	0.0	2.3	12.3	17.3	13.7	1.3	0.3	0.0	0.0	0.0	0.0
ADT	8195.0	4.7	33.7	235.0	1049.3	2529.7	2869.3	1211.3	224.0	33.3	3.0	1.0	0.3	0.3

Percentile Speeds (mph)	7%	50%	85%	93%
	27.5	35.6	40.8	43.1

10 mph Pace Speed	30.5 - 40.5	Average	35.4 mph
Number in Pace	52771 (66.8 %)	Minimum	11.2 mph
		Maximum	75.0 mph

Speeds Exceeded	25 mph	30 mph	35 mph	40 mph	45 mph	55 mph
	97.0 %	85.1 %	54.4 %	18.9 %	3.5 %	0.1 %
Count	76677	67231	43004	14957	2759	79

mph	Total	Study Grand Totals												
		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
WB	24585	14	101	705	3148	7589	8608	3634	672	100	9	3	1	1
		0.1%	0.4%	2.9%	12.8%	30.9%	35.0%	14.8%	2.7%	0.4%	0.0%	0.0%	0.0%	0.0%

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Speed Grand Totals EB

mph	Total	Hourly Averages												
		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	18.3	0.0	0.0	0.3	0.7	2.7	7.7	5.3	1.7	0.0	0.0	0.0	0.0	0.0
1:00 AM	7.3	0.0	0.3	0.0	0.3	1.3	1.7	2.7	0.7	0.3	0.0	0.0	0.0	0.0
2:00 AM	5.7	0.0	0.0	0.0	0.0	0.0	2.7	0.7	2.0	0.3	0.0	0.0	0.0	0.0
3:00 AM	2.3	0.0	0.0	0.0	0.0	0.0	0.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0
4:00 AM	6.7	0.0	0.0	0.0	0.0	1.0	2.7	2.7	0.3	0.0	0.0	0.0	0.0	0.0
5:00 AM	37.0	0.0	0.3	0.0	0.7	5.0	10.0	15.0	5.3	0.7	0.0	0.0	0.0	0.0
6:00 AM	87.7	0.0	0.0	0.3	1.3	9.3	35.0	31.3	9.3	1.0	0.0	0.0	0.0	0.0
7:00 AM	275.3	1.0	0.7	1.3	1.0	31.3	117.7	103.0	17.0	2.0	0.0	0.3	0.0	0.0
8:00 AM	464.0	2.3	1.3	1.3	7.3	60.3	217.3	143.7	28.3	1.3	0.7	0.0	0.0	0.0
9:00 AM	301.0	1.7	0.7	1.3	9.7	44.0	139.0	82.3	18.7	2.7	0.7	0.3	0.0	0.0
10:00 AM	289.0	1.7	1.0	1.3	11.7	45.3	128.3	85.3	11.3	2.0	0.7	0.3	0.0	0.0
11:00 AM	329.0	4.0	0.7	1.7	14.0	56.0	141.0	91.7	16.0	3.3	0.3	0.3	0.0	0.0
12:00 PM	383.3	2.0	1.7	2.0	14.7	75.0	171.0	99.3	15.0	2.3	0.3	0.0	0.0	0.0
1:00 PM	351.0	2.7	1.7	0.3	11.0	59.0	162.3	94.3	17.7	1.7	0.0	0.0	0.0	0.3
2:00 PM	373.0	5.0	1.7	4.0	12.7	69.0	168.0	92.3	16.3	2.7	0.0	0.7	0.3	0.3
3:00 PM	457.3	3.3	1.3	2.7	13.7	81.7	226.3	108.3	17.7	2.0	0.0	0.0	0.0	0.3
4:00 PM	439.3	5.3	2.3	3.3	16.7	71.3	210.3	111.7	13.7	3.3	0.7	0.3	0.3	0.0
5:00 PM	469.3	2.7	1.3	1.3	13.7	80.0	226.0	122.3	19.7	1.3	0.7	0.3	0.0	0.0
6:00 PM	330.3	0.7	0.3	1.7	11.0	50.7	141.7	103.3	18.7	1.7	0.3	0.0	0.0	0.3
7:00 PM	266.0	1.0	0.3	1.0	11.7	57.3	110.3	70.0	11.3	2.3	0.0	0.7	0.0	0.0
8:00 PM	166.0	0.0	0.0	0.3	9.3	32.7	78.0	39.3	5.0	1.3	0.0	0.0	0.0	0.0
9:00 PM	100.3	0.3	0.0	0.7	4.0	17.7	43.7	26.0	6.7	0.7	0.7	0.0	0.0	0.0
10:00 PM	51.7	0.0	0.0	0.3	2.7	9.3	24.7	9.3	4.0	1.0	0.3	0.0	0.0	0.0
11:00 PM	29.0	0.0	0.0	0.0	0.0	4.7	11.0	10.3	2.7	0.0	0.0	0.3	0.0	0.0
ADT	5240.0	33.7	15.7	25.3	167.7	864.7	2376.7	1451.7	259.7	34.0	5.3	3.7	0.7	1.3

Percentile Speeds (mph)	7%	50%	85%	93%
	31.0	38.2	42.5	44.6

10 mph Pace Speed	33.3 - 43.3	Average	38.0 mph
Number in Pace	37316 (74.9 %)	Minimum	11.0 mph
		Maximum	74.3 mph

Speeds Exceeded	25 mph	30 mph	35 mph	40 mph	45 mph	55 mph
	98.6 %	94.9 %	77.1 %	33.0 %	5.8 %	0.2 %
Count	49178	47294	38441	16439	2909	91

mph	Total	Study Grand Totals												
		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
EB	15720	101	47	76	503	2594	7130	4355	779	102	16	11	2	4
		0.6%	0.3%	0.5%	3.2%	16.5%	45.4%	27.7%	5.0%	0.6%	0.1%	0.1%	0.0%	0.0%

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Study by

John Rousseau

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 Tuesday, 4/13/2010, 12:00:00 AM -
 Friday, 4/16/2010, 12:00:00 AM

Speed Grand Totals Combined

mph	Total	Hourly Averages												
		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	43.7	0.0	0.0	0.7	1.3	10.7	14.7	11.3	4.3	0.7	0.0	0.0	0.0	0.0
1:00 AM	21.0	0.0	0.3	0.3	1.0	3.3	6.7	6.3	1.3	1.3	0.0	0.3	0.0	0.0
2:00 AM	15.7	0.0	0.0	0.3	0.3	1.3	7.3	3.0	3.0	0.3	0.0	0.0	0.0	0.0
3:00 AM	8.3	0.0	0.0	0.3	0.7	0.7	2.0	3.3	1.0	0.3	0.0	0.0	0.0	0.0
4:00 AM	20.0	0.0	0.0	0.0	0.7	2.3	10.3	5.3	1.0	0.3	0.0	0.0	0.0	0.0
5:00 AM	82.0	0.0	0.3	0.7	2.3	14.0	27.7	27.3	8.0	1.7	0.0	0.0	0.0	0.0
6:00 AM	238.3	0.3	0.3	3.0	12.0	43.3	91.3	68.0	17.7	2.3	0.0	0.0	0.0	0.0
7:00 AM	722.0	1.0	1.7	11.0	44.0	156.7	288.3	181.3	33.3	4.3	0.0	0.3	0.0	0.0
8:00 AM	975.3	2.3	1.7	15.0	60.7	195.7	423.0	224.7	46.7	4.7	1.0	0.0	0.0	0.0
9:00 AM	735.0	2.3	1.3	6.3	44.7	170.7	301.7	163.0	38.7	5.3	0.7	0.3	0.0	0.0
10:00 AM	751.3	1.7	1.3	6.0	60.3	177.7	310.7	164.0	25.0	3.3	1.0	0.3	0.0	0.0
11:00 AM	926.3	6.7	8.0	19.3	105.7	237.3	333.0	181.7	29.0	4.7	0.7	0.3	0.0	0.0
12:00 PM	1002.7	2.0	5.7	26.3	109.3	282.7	377.0	169.0	27.0	3.3	0.3	0.0	0.0	0.0
1:00 PM	977.0	3.3	4.3	26.3	94.7	269.0	369.0	177.7	28.7	3.0	0.3	0.0	0.3	0.3
2:00 PM	1055.3	5.0	6.7	44.0	131.7	298.0	376.7	159.7	28.7	3.7	0.0	0.7	0.3	0.3
3:00 PM	1123.0	3.3	4.3	25.0	111.0	316.3	441.0	184.0	32.0	5.3	0.3	0.0	0.0	0.3
4:00 PM	1088.0	5.3	5.3	21.0	124.0	291.7	417.3	190.0	27.3	4.7	0.7	0.3	0.3	0.0
5:00 PM	1111.7	3.0	5.7	26.0	118.7	297.7	430.7	196.0	30.3	2.7	0.7	0.3	0.0	0.0
6:00 PM	862.0	0.7	0.3	13.3	70.3	207.7	332.3	194.3	37.3	4.7	0.7	0.0	0.0	0.3
7:00 PM	674.0	1.0	1.0	5.3	56.3	172.0	268.3	143.0	21.3	4.7	0.3	0.7	0.0	0.0
8:00 PM	467.0	0.0	0.0	2.7	38.7	126.3	190.3	89.3	16.0	3.0	0.3	0.3	0.0	0.0
9:00 PM	292.0	0.3	0.7	5.0	17.0	67.3	124.7	63.7	11.3	1.0	0.7	0.3	0.0	0.0
10:00 PM	166.7	0.0	0.0	2.3	9.3	35.0	73.7	33.0	10.7	1.7	0.7	0.0	0.0	0.3
11:00 PM	76.7	0.0	0.3	0.0	2.3	17.0	28.3	24.0	4.0	0.3	0.0	0.3	0.0	0.0
ADT	13435.0	38.3	49.3	260.3	1217.0	3394.3	5246.0	2663.0	483.7	67.3	8.3	4.7	1.0	1.7

Percentile Speeds (mph)	7%	50%	85%	93%
	28.4	36.7	41.6	43.8

10 mph Pace Speed Number in Pace	31.9 - 41.9 87517 (67.9 %)	Average Minimum Maximum	36.4 mph 11.0 mph 75.0 mph
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Speeds Exceeded	25 mph	30 mph	35 mph	40 mph	45 mph	55 mph
Count	97.7 %	88.9 %	63.2 %	24.4 %	4.4 %	0.1 %
	125855	114525	81445	31396	5668	170

mph	Total	Study Grand Totals												
		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
WB	24585	14	101	705	3148	7589	8608	3634	672	100	9	3	1	1
EB	15720	101	47	76	503	2594	7130	4355	779	102	16	11	2	4
Combined	40305	115	148	781	3651	10183	15738	7989	1451	202	25	14	3	5
		0.3%	0.4%	1.9%	9.1%	25.3%	39.0%	19.8%	3.6%	0.5%	0.1%	0.0%	0.0%	0.0%

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Description 3: C6 April 2010

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Volume Grand Totals

Average Hourly Volumes

	WB	EB	Combined
12:00 AM	25.3	18.3	43.7
1:00 AM	13.7	7.3	21.0
2:00 AM	10.0	5.7	15.7
3:00 AM	6.0	2.3	8.3
4:00 AM	13.3	6.7	20.0
5:00 AM	45.0	37.0	82.0
6:00 AM	150.7	87.7	238.3
7:00 AM	446.7	275.3	722.0
8:00 AM	511.3	464.0	975.3
9:00 AM	433.7	301.0	734.7
10:00 AM	462.3	289.0	751.3
11:00 AM	597.0	329.0	926.0
12:00 PM	618.3	383.3	1001.7
1:00 PM	625.0	351.0	976.0
2:00 PM	681.3	373.0	1054.3
3:00 PM	665.3	457.3	1122.7
4:00 PM	648.7	439.3	1088.0
5:00 PM	642.3	469.3	1111.7
6:00 PM	531.7	330.0	861.7
7:00 PM	408.0	266.0	674.0
8:00 PM	301.0	166.0	467.0
9:00 PM	191.7	100.3	292.0
10:00 PM	115.0	51.7	166.7
11:00 PM	47.7	29.0	76.7
ADT	8191.0	5239.7	13430.7

Study Grand Totals

	WB	EB	Combined
	24573	15719	40292
	61.0 %	39.0 %	

Calle Real - Hitchcock to La Cumbre

Segment length in feet	2,100	
Number of collisions =	20	See below.
AADT	13,430	
Time period in years =	3	01/01/2008-12/31/2010
Segment Collision rate =	5.12915	ACC/MVM
2009 District 5 Urban 3LN =	1.59	ACC/MVM
2009 Statewide 3 yr 3LN =	1.42	ACC/MVM

Crash Number	CASE ID	STREET 1	STREET 2	DATE	DISTANCE	DIR FROM INT	COLL TYPE
	1	3647145 LA CUMBRE RD	CALLE REAL	2/29/2008	0	Not stated	Head on
	2	3747214 LA CUMBRE RD	CALLE REAL	5/18/2008	0	Not stated	Rear end
	3	3747221 CALLE REAL	HOPE AVE	5/20/2008	0	Not stated	Broadside
	4	3771741 CALLE REAL	LA CUMBRE RD	6/2/2008	76	East	Rear end
	5	3822740 CALLE REAL	HITCHCOCK WAY	7/4/2008	0	Not stated	Broadside
	6	3928367 LA CUMBRE RD	CALLE REAL	9/24/2008	0	Not stated	Broadside
	7	3927195 LA CUMBRE RD	CALLE REAL	9/24/2008	0	Not stated	Broadside
	8	3909399 LA CUMBRE RD	CALLE REAL	10/13/2008	0	Not stated	Head on
	9	4071597 LA CUMBRE RD	CALLE REAL	12/14/2008	0	Not stated	Head on
	10	4091734 LA CUMBRE RD	CALLE REAL	12/28/2008	0	Not stated	Head on
	11	4206613 CALLE REAL	HOPE AVE	4/22/2009	327	West	Hit object
	12	4323947 LA CUMBRE RD	CALLE REAL	7/9/2009	0	Not stated	Broadside
	13	4473928 CALLE REAL	HOPE AVE	10/23/2009	0	Not stated	Side swipe
	14	4463735 LA CUMBRE RD	CALLE REAL	10/24/2009	0	Not stated	Broadside
	15	4544535 LA CUMBRE RD	CALLE REAL	12/1/2009	0	Not stated	Broadside
	16	4529970 HOPE AVE	CALLE REAL	12/12/2009	15	North	Other CollType
	17	4548583 CALLE REAL	HITCHCOCK WAY	12/31/2009	0	Not stated	Broadside
	18	4676782 LA CUMBRE RD	CALLE REAL	4/6/2010	0	Not stated	Head on
	19	4901108 CALLE REAL	HOPE AVE	10/6/2010	0	Not stated	Rear end
	20	5023641 CALLE REAL	LA CUMBRE RD	12/17/2010	70	East	Hit object