



Miramonte Drive

Engineering & Traffic Survey (E&TS) Summary

From / To	West Carrillo Street to Via Del Cielo
FAU Classification	Collector
Width	36 Feet
Length	3,696 Feet
Striping, Parking and Land Use	Double yellow center lines, parking on both sides - Residential
Existing Posted Speed Limit	30 miles per hour (mph)
85th Percentile Speed	35 mph
Pace	25 to 35 mph
Average Daily Traffic	2,202
Engineer's Determination of Speed Limit	<u>30 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 the following:

- **Pedestrian Safety:** This section of Miramonte Drive, as a result of its residential characteristic, commonly has pedestrians crossing midblock which in turn require yielding from motorists who may not be expecting pedestrians to be in the roadway.

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



GRADIENT
ROADSIDE DEVELOPMENT
REMARKS:

RESIDENTIAL

BUSINESS/RESIDENTIAL

CITY OF SANTA BARBARA



SPEED ZONE SURVEY
MIRAMONTE DRIVE

FROM _____ West Carrillo Street

TO _____ Via Del Cielo

SCALE: _____ SCALE - 1" = 200'

DATE: _____ July 1, 2016

PREPARED BY: _____ J.Rousseau

LEGEND

ROAD SIGNS

REGULATORY & WARNING (CODE NO.)

TRAFFIC SIGNALS

SENIOR CENTERS

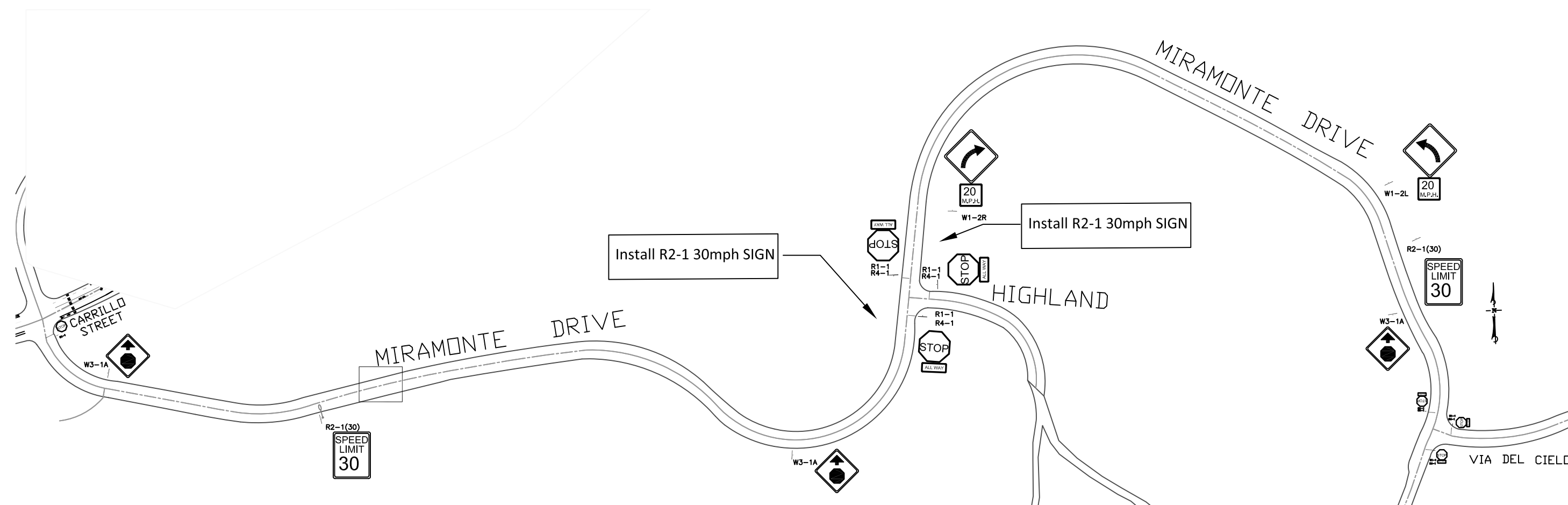
SCHOOLS

CHURCHES

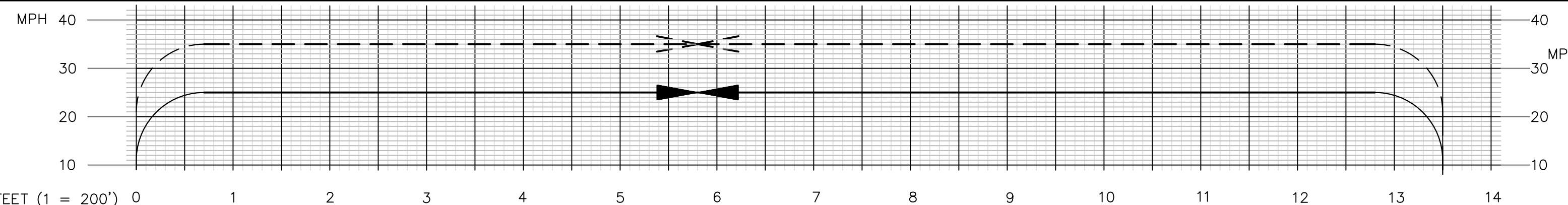
STUDY LOCATION

CRITICAL SPEED - 85%

LOWER LIMIT OF 10mph PACE



ROADWAY WIDTH	36 FEET
AVERAGE DAILY TRAFFIC	2,222
NO. OF STRIPED LANES	TWO LANES
TYPE OF DIVISION STRIPE	DOUBLE YELLOW CENTER LINE
OBSERVED SPEED CRITICAL	35 MPH - OBSERVED 85th PERCENTILE SPEED
OBSERVED SPEED 10 mph PACE	25 to 35 MPH - OBSERVED 10mph PACE
EXISTING SIGNED ZONE	30 MPH - EXISTING SIGNED ZONE
PROPOSED SPEED LIMIT	30 MPH



SEGMENT COLLISION RATE	1.18 acc/MVM
2009 DISTRICT 5 URBAN 2 and 3LN	(1.59 acc/MVM)
STATEWIDE-3yr-Urban-2 and 3 LN	(1.42 acc/MVM)

VEHICLE SPEED SURVEY SHEET

Location: Miramonte (Carrillo to Via Del Cielo)

Date: June 9, 2016

Weather: Clear/Dry

Posted Speed: 30mph

Recorded By: jr

Start Time: 1:55pm

End Time: 2:55pm

Checked By: bg

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																											0	-
44																											0	-
43																											0	-
42	x																										1	100
41																											0	-
40																											0	-
39	x																										1	99
38	x	x																									2	98
37	x	x																									2	96
36	x	x	x	x																							4	94
35	x	x	x	x	x	x	x	x	x																		8	90
34	x	x	x	x	x																						5	82
33	x	x	x	x	x	x	x																				7	77
32	x	x	x	x	x	x	x	x																			8	70
31	x	x	x	x	x	x	x	x	x	x	x	x	x														13	62
30	x	x	x	x	x	x	x	x	x																		9	49
29	x	x	x	x	x	x	x	x	x	x																	10	40
28	x	x	x	x	x																						5	30
27	x	x	x	x	x																						5	25
26	x	x	x	x																							4	20
25	x	x	x	x	x	x	x																				7	16
24	x																										1	9
23	x	x	x	x																							4	8
22	x	x																									2	4
21	x																										1	2
20	x																										1	1
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 35 mph **Average Speed** 30.3 mph **10 MPH Pace Speed** 26 to 36 mph

Volume Grand Totals (Volume factor 0.5)

Average Volumes															
From Carrillo							To Carrillo								
	From Carrillo		To Carrillo		Combined			From Carrillo		To Carrillo		Combined			
12:00 AM	5.0	8.0	5.0	10.0	10.0	18.0	12:00 PM	17.0	75.0	17.0	70.0	34.0	145.0		
12:15 AM	0.0		2.0		2.0		12:15 PM	20.0		13.0		33.0			
12:30 AM	1.0		3.0		4.0		12:30 PM	20.0		23.0		43.0			
12:45 AM	2.0		0.0		2.0		12:45 PM	18.0		17.0		35.0			
1:00 AM	0.0	5.0	2.0	4.0	2.0	9.0	1:00 PM	30.0	90.0	26.0	82.0	56.0	172.0	From Carrillo	
1:15 AM	2.0		0.0		2.0		1:15 PM	21.0		20.0		41.0		1136.5	
1:30 AM	2.0		1.0		3.0		1:30 PM	21.0		20.0		41.0		1216	
1:45 AM	1.0		1.0		2.0		1:45 PM	18.0		16.0		34.0		51.1 %	
2:00 AM	0.0	6.0	1.0	5.0	1.0	11.0	2:00 PM	15.0	77.0	16.0	76.0	31.0	153.0	To Carrillo	
2:15 AM	3.0		1.0		4.0		2:15 PM	21.0		16.0		37.0		1065.5	
2:30 AM	2.0		1.0		3.0		2:30 PM	20.0		18.0		38.0		1164	
2:45 AM	1.0		2.0		3.0		2:45 PM	21.0		26.0		47.0		48.9 %	
3:00 AM	2.0	6.0	0.0	0.0	2.0	6.0	3:00 PM	18.0	71.0	12.0	51.0	30.0	122.0	Combined	
3:15 AM	3.0		0.0		3.0		3:15 PM	17.0		11.0		28.0		2202.0	
3:30 AM	0.0		0.0		0.0		3:30 PM	18.0		15.0		33.0			
3:45 AM	1.0		0.0		1.0		3:45 PM	18.0		13.0		31.0			
4:00 AM	1.0	2.0	0.0	2.0	1.0	4.0	4:00 PM	24.0	84.0	14.0	61.0	38.0	145.0		
4:15 AM	0.0		0.0		0.0		4:15 PM	20.0		14.0		34.0			
4:30 AM	1.0		2.0		3.0		4:30 PM	20.0		18.0		38.0			
4:45 AM	0.0		0.0		0.0		4:45 PM	20.0		15.0		35.0			
5:00 AM	0.0	2.0	0.0	12.0	0.0	14.0	5:00 PM	21.0	99.0	20.0	87.0	41.0	186.0		
5:15 AM	0.0		3.0		3.0		5:15 PM	24.0		23.0		47.0			
5:30 AM	2.0		3.0		5.0		5:30 PM	24.0		25.0		49.0			
5:45 AM	0.0		6.0		6.0		5:45 PM	30.0		19.0		49.0			
6:00 AM	1.0	20.0	0.0	35.0	1.0	55.0	6:00 PM	26.0	88.0	11.0	62.0	37.0	150.0		
6:15 AM	2.0		5.0		7.0		6:15 PM	26.0		16.0		42.0			
6:30 AM	6.0		14.0		20.0		6:30 PM	16.0		24.0		40.0			
6:45 AM	11.0		16.0		27.0		6:45 PM	20.0		11.0		31.0			
7:00 AM	9.0	34.0	14.0	83.0	23.0	117.0	7:00 PM	20.0	60.0	5.0	52.0	25.0	112.0		
7:15 AM	8.0		16.0		24.0		7:15 PM	17.0		19.0		36.0			
7:30 AM	10.0		25.0		35.0		7:30 PM	15.0		16.0		31.0			
7:45 AM	7.0		28.0		35.0		7:45 PM	8.0		12.0		20.0			
8:00 AM	11.0	67.0	22.0	85.5	33.0	152.5	8:00 PM	11.0	57.0	6.0	23.0	17.0	80.0		
8:15 AM	17.0		18.0		35.0		8:15 PM	18.0		3.0		21.0			
8:30 AM	24.0		22.0		46.0		8:30 PM	16.0		6.0		22.0			
8:45 AM	15.0		23.5		38.5		8:45 PM	12.0		8.0		20.0			
9:00 AM	13.0	51.5	20.0	61.0	33.0	112.5	9:00 PM	12.0	46.0	7.0	26.0	19.0	72.0		
9:15 AM	13.0		10.0		23.0		9:15 PM	12.0		7.0		19.0			
9:30 AM	8.5		16.0		24.5		9:30 PM	9.0		8.0		17.0			
9:45 AM	17.0		15.0		32.0		9:45 PM	13.0		4.0		17.0			
10:00 AM	13.0	73.0	14.0	65.0	27.0	138.0	10:00 PM	14.0	33.0	4.0	22.0	18.0	55.0		
10:15 AM	21.0		21.0		42.0		10:15 PM	6.0		5.0		11.0			
10:30 AM	21.0		12.0		33.0		10:30 PM	5.0		4.0		9.0			
10:45 AM	18.0		18.0		36.0		10:45 PM	8.0		9.0		17.0			
11:00 AM	18.0	62.0	19.0	66.0	37.0	128.0	11:00 PM	6.0	20.0	9.0	25.0	15.0	45.0		
11:15 AM	15.0		12.0		27.0		11:15 PM	8.0		4.0		12.0			
11:30 AM	11.0		19.0		30.0		11:30 PM	1.0		4.0		5.0			
11:45 AM	18.0		16.0		34.0		11:45 PM	5.0		8.0		13.0			

Miramonte Dr

Carrillo St to Via Del Cielo

1/1/2013 to 12/31/2015

Segment length in feet	3,696	
Number of collisions =	2	
AADT	2,202	
Time period in years =	3	
Segment Collision Rate =	1.18	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>
6385458	MIRAMONTE DR	MIRACANON LN	2/13/2014	112	South	Rear end
6427960	MIRAMONTE DR	HIGHLAND DR	3/17/2014	208	West	Side swipe
6669966	CARRILLO ST	MIRAMONTE DR	10/18/2014	0	Not stated	Broadside