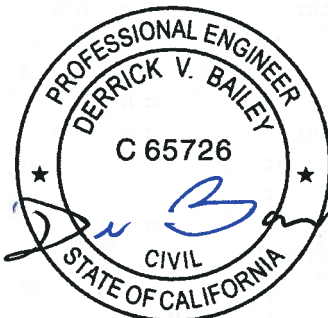


# West Carrillo Street

## Traffic & Engineering Survey Summary

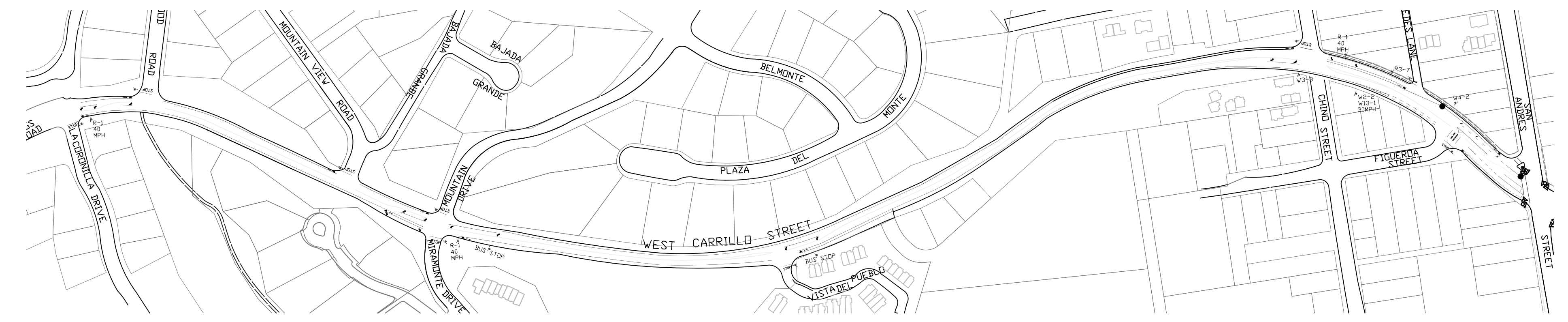
From / To	San Andres Street to La Coronilla Drive
FAU Classification	Urban Minor Arterial
Width	70 to 39 Feet
Length	4020 Feet
Striping, Parking and Land Use	Double Yellow Center Line, Bike Lanes No Parking on Both sides
Existing Posted Speed Limit	40 miles per hour (mph)
85th Percentile Speed	44.9 mph
Pace	35 to 45 mph
Average Daily Traffic	15,960
Special Characteristics	Bicyclist and Pedestrian safety
Engineer's Determination of Speed Limit	40 miles per hour (mph)
Speed Survey Expiry Date:	6/15/2020
Date prepared 6/15/2013 JER	

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

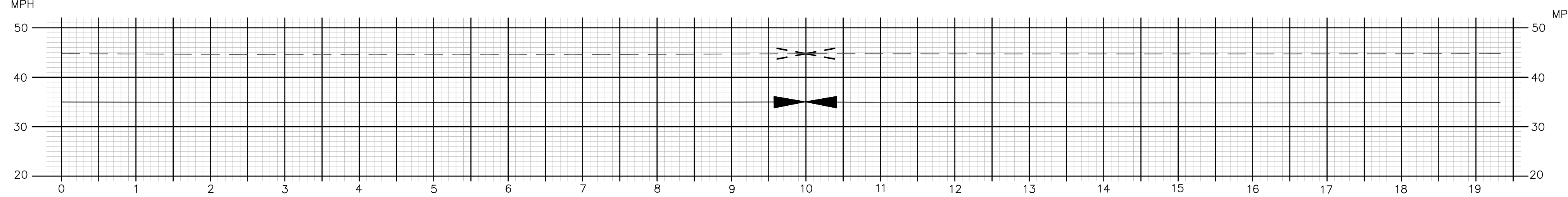


GRADIENT  
REMARKS: ROADSIDE DEVELOPMENT

SOLID RESIDENTIAL



ROADWAY WIDTH	45' FEET	40' FEET	53' FEET	35' FEET	65' FEET
NO. OF STRIPED LANES	2	2	2	2	2
TYPE OF DIVISION STRIPE	NONE	NONE	NONE	DOUBLE YELLOW CENTER LINE	NONE
TRAFFIC SIGNAL DATA	NONE	NONE	NONE	NONE	NONE
AVERAGE DAILY TRAFFIC			15,900		
OBSERVED SPEED CRITICAL			44.9 MPH		
OBSERVED SPEED 10 mph PACE			35 to 45 MPH		
EXISTING SIGNED ZONE			40 MPH		
PROPOSED SPEED LIMIT			40 MPH		



DISTANCE IN FEET (1" = 200')

SEGMENT COLLISION RATE	4.05 acc/MVM
2009 District 5 Urban 2 LN Accident Rate=	(1.59 acc/MVM)
2009 Statewide 3 yr 2 LN Accident Rate =	(1.42 acc/MVM)

CITY OF SANTA BARBARA



SPEED ZONE SURVEY  
**West Carrillo Street**

FROM San Andres Street

TO La Coronilla Drive

SCALE: SCALE - 1" = 200'

DATE: 05-16-2013

PREPARED BY: J. ROUSSEAU

LEGEND

- ROAD SIGNS
- REGULATORY & WARNING (CODE NO.)
- TRAFFIC SIGNALS
- SENIOR CENTERS
- SCHOOLS
- CHURCHES
- BLOCK ###
- SPEED STUDY LOCATION
- CRITICAL SPEED - 85%
- LOWER LIMIT OF 10mph PACE



## W Carrillo Street

68/15/2013

San Andres to La Coronilla - Both Directions

Posted Speed is 40 MPH

1 (mph)	2 ui	3 fi	4 fiui	5 % class	6 cumulative %	7 fi*ui^2	7 f(ui-u)2
Speed Range	Class Midvalue	Frequency					
11-14	12	17	204	0.1%	0.1%	2448	41616
15-19	17	26	442	0.2%	0.3%	7514	195364
20-24	22	91	2002	0.6%	0.8%	44044	4008004
25-29	27	346	9342	2.2%	3.0%	252234	87272964
30-34	32	2013	64416	12.7%	15.7%	2061312	4149421056
35-39	37	4878	180486	30.7%	46.4%	6677982	32575196196
40-44	42	5383	226086	33.9%	80.4%	9495612	51114879396
45-49	47	2591	121777	16.3%	96.7%	5723519	14829637729
50-54	52	477	24804	3.0%	99.7%	1289808	615238416
55-59	56	49	2744	0.3%	100.0%	153664	7529536
		15,871	632,303			25,708,137.0	103,383,420,277.0

$u = \text{fiui}/\text{fi}$

Total Volume	85 Percentile	Mean	Standard Dev.	Median	Skewness Index
15,871	44.9	39.8	5.7	39.5	0.98

10 mph Pace

35 mph to

45 mph

Prepared By

J Rousseau

Description 1: Carrillo St West 1100  
 Description 2: Speed Survey  
 Description 3: C6 MaY 2013

Site:  
 Wednesday, 5/29/2013, 12:00:00 AM -  
 Thursday, 5/30/2013, 12:00:00 AM

Volume Grand Totals

Average Interval Volumes

EB			WB		Combined		EB			WB		Combined	
12:00 AM	9.0	20.0	8.0	36.0	17.0	56.0	12:00 PM	145.0	546.0	166.0	609.0	311.0	1155.0
12:15 AM	6.0		14.0		20.0		12:15 PM	137.0		139.0		276.0	
12:30 AM	2.0		8.0		10.0		12:30 PM	132.0		158.0		290.0	
12:45 AM	3.0		6.0		9.0		12:45 PM	132.0		146.0		278.0	
1:00 AM	4.0	14.0	6.0	16.0	10.0	30.0	1:00 PM	155.0	576.0	146.0	604.0	301.0	1180.0
1:15 AM	6.0		3.0		9.0		1:15 PM	135.0		149.0		284.0	
1:30 AM	2.0		3.0		5.0		1:30 PM	136.0		162.0		298.0	
1:45 AM	2.0		4.0		6.0		1:45 PM	150.0		147.0		297.0	
2:00 AM	3.0	8.0	4.0	12.0	7.0	20.0	2:00 PM	151.0	552.0	165.0	594.0	316.0	1146.0
2:15 AM	0.0		2.0		2.0		2:15 PM	153.0		155.0		308.0	
2:30 AM	3.0		2.0		5.0		2:30 PM	112.0		143.0		255.0	
2:45 AM	2.0		4.0		6.0		2:45 PM	136.0		131.0		267.0	
3:00 AM	3.0	23.0	4.0	19.0	7.0	42.0	3:00 PM	129.0	494.0	142.0	608.0	271.0	1102.0
3:15 AM	6.0		2.0		8.0		3:15 PM	127.0		134.0		261.0	
3:30 AM	4.0		6.0		10.0		3:30 PM	118.0		184.0		302.0	
3:45 AM	10.0		7.0		17.0		3:45 PM	120.0		148.0		268.0	
4:00 AM	13.0	65.0	6.0	32.0	19.0	97.0	4:00 PM	107.0	488.0	149.0	686.0	256.0	1174.0
4:15 AM	19.0		12.0		31.0		4:15 PM	126.0		169.0		295.0	
4:30 AM	12.0		7.0		19.0		4:30 PM	122.0		174.0		296.0	
4:45 AM	21.0		7.0		28.0		4:45 PM	133.0		194.0		327.0	
5:00 AM	27.0	168.0	26.0	94.0	53.0	262.0	5:00 PM	122.0	409.0	170.0	621.0	292.0	1030.0
5:15 AM	32.0		13.0		45.0		5:15 PM	99.0		157.0		256.0	
5:30 AM	47.0		18.0		65.0		5:30 PM	102.0		160.0		262.0	
5:45 AM	62.0		37.0		99.0		5:45 PM	86.0		134.0		220.0	
6:00 AM	81.0	450.0	72.0	293.0	153.0	743.0	6:00 PM	116.0	449.0	126.0	482.0	242.0	931.0
6:15 AM	88.0		65.0		153.0		6:15 PM	122.0		114.0		236.0	
6:30 AM	116.0		64.0		180.0		6:30 PM	107.0		142.0		249.0	
6:45 AM	165.0		92.0		257.0		6:45 PM	104.0		100.0		204.0	
7:00 AM	159.0	714.0	134.0	473.0	293.0	1187.0	7:00 PM	82.0	314.0	110.0	396.0	192.0	710.0
7:15 AM	196.0		130.0		326.0		7:15 PM	93.0		98.0		191.0	
7:30 AM	181.0		109.0		290.0		7:30 PM	71.0		87.0		158.0	
7:45 AM	178.0		100.0		278.0		7:45 PM	68.0		101.0		169.0	
8:00 AM	175.0	556.0	109.0	437.0	284.0	993.0	8:00 PM	62.0	270.0	83.0	321.0	145.0	591.0
8:15 AM	129.0		118.0		247.0		8:15 PM	64.0		87.0		151.0	
8:30 AM	118.0		109.0		227.0		8:30 PM	66.0		84.0		150.0	
8:45 AM	134.0		101.0		235.0		8:45 PM	78.0		67.0		145.0	
9:00 AM	123.0	469.0	100.0	397.0	223.0	866.0	9:00 PM	51.0	193.0	56.0	221.0	107.0	414.0
9:15 AM	112.0		90.0		202.0		9:15 PM	49.0		65.0		114.0	
9:30 AM	113.0		115.0		228.0		9:30 PM	50.0		53.0		103.0	
9:45 AM	121.0		92.0		213.0		9:45 PM	43.0		47.0		90.0	
10:00 AM	120.0	459.0	94.0	450.0	214.0	909.0	10:00 PM	33.0	92.0	27.0	116.0	60.0	208.0
10:15 AM	116.0		109.0		225.0		10:15 PM	25.0		32.0		57.0	
10:30 AM	110.0		123.0		233.0		10:30 PM	18.0		34.0		52.0	
10:45 AM	113.0		124.0		237.0		10:45 PM	16.0		23.0		39.0	
11:00 AM	130.0	499.0	135.0	526.0	265.0	1025.0	11:00 PM	14.0	39.0	18.0	52.0	32.0	91.0
11:15 AM	99.0		144.0		243.0		11:15 PM	10.0		11.0		21.0	
11:30 AM	131.0		132.0		263.0		11:30 PM	4.0		13.0		17.0	
11:45 AM	139.0		115.0		254.0		11:45 PM	11.0		10.0		21.0	

	<u>EB</u>	<u>WB</u>	<u>Combined</u>
ADT	7867.0	8095.0	15962.0
Study Volume Totals	7867	8095	15962
	49.3 %	50.7 %	

West Carrillo Street - San Andres Street to La Conorilla Drive

Segment length in feet	4,019	
Number of collisions =	36	See below.
AADT	15,960	
Time period in years =	3	01/01/2009 - 01/01/2012
<b>Segment Collision rate =</b>	<b>4.05941</b>	ACC/MVM
2009 District 5 Urban 4+UDV =	2.19	ACC/MVM
2009 Statewide 3 yr 4+UDV =	2.09	ACC/MVM

Crash Number

Crash Number	CASE ID	STREET 1	STREET 2	COLL TYPE	DATE	TIME
1						
2	4035594	SAN ANDRES ST	CARRILLO ST	Hit object	2/1/2009	0:35
3	4112156	CARRILLO ST	SAN ANDRES ST	Rear end	2/14/2009	21:12
4	4168867	CHINO ST	CARRILLO ST	Broadside	2/19/2009	7:46
5	09-16663	CHINO ST	CARRILLO ST	Head on	3/8/2009	11:06
6	4186302	CARRILLO ST	CHINO ST	Broadside	3/28/2009	11:06
7	4206627	CARRILLO ST	MIRAMONTE DR	Head on	4/14/2009	20:22
8	4272373	CARRILLO ST	SAN ANDRES ST	Rear end	5/13/2009	15:45
9	4247060	SAN ANDRES ST	CARRILLO ST	Side swipe	5/19/2009	17:41
10	09-50890	CARRILLO ST	CHINO ST	Hit object	7/15/2009	17:10
11	4417707	CHINO ST	CARRILLO ST	Broadside	9/26/2009	20:17
12	4472020	MOUNTAIN VIEW RD	CARRILLO ST	Hit object	10/11/2009	3:53
13	4463718	SAN ANDRES ST	CARRILLO ST	Broadside	10/21/2009	10:51
14	4474977	CARRILLO ST	SAN ANDRES ST	Side swipe	11/14/2009	14:09
15	4546690	CARRILLO ST	SAN ANDRES ST	Rear end	12/25/2009	17:54
16	4565019	CARRILLO ST	SAN ANDRES ST	Rear end	1/11/2010	13:35
17	4565025	CARRILLO ST	VISTA DEL PUEBLO	Side swipe	1/14/2010	1:18
18	4678421	CARRILLO ST	SAN ANDRES ST	Rear end	3/17/2010	6:55
19	4676815	MIRAMONTE DR	CARRILLO ST	Not stated	3/21/2010	21:26
20	4657189	CARRILLO ST	KENWOOD RD	Head on	3/22/2010	14:22
21	4657165	MIRAMONTE DR	CARRILLO ST	Rear end	3/24/2010	17:04
22	4676790	CARRILLO ST	MIRAMONTE DR	Head on	4/2/2010	15:56
23	10-29680	CARRILLO ST	VISTA DEL PUEBLO	Side swipe	4/28/2010	7:20
24	4762606	CARRILLO ST	SAN ANDRES ST	Broadside	6/7/2010	20:56
25	4830629	CARRILLO ST	SAN ANDRES ST	Rear end	7/22/2010	17:15
26	4856001	CARRILLO ST	CHINO ST	Broadside	8/9/2010	12:21
27	5026488	CARRILLO ST	SAN ANDRES ST	Head on	11/2/2010	18:50
28	5026428	VISTA DEL PUEBLO	CARRILLO ST	Hit object	11/18/2010	5:51
29	5019390	CARRILLO ST	SAN ANDRES ST	Broadside	12/21/2010	17:27
30	10-92340	CARRILLO ST	KENWOOD RD	Broadside	12/21/2010	11:27
31	11-11676	CARRILLO ST	VISTA DEL PUEBLO	Hit object	2/14/2011	23:14
32	5229144	CARRILLO ST	MERCEDES LN	Side swipe	6/3/2011	0:10
33	5229179	CARRILLO ST	SAN ANDRES ST	Broadside	6/9/2011	21:58
34	5231909	CARRILLO ST	SAN ANDRES ST	Broadside	6/15/2011	16:11
35	5231845	CARRILLO ST	SAN ANDRES ST	Broadside	6/21/2011	7:59
36	5221903	CARRILLO ST	SAN ANDRES ST	Broadside	6/27/2011	15:34