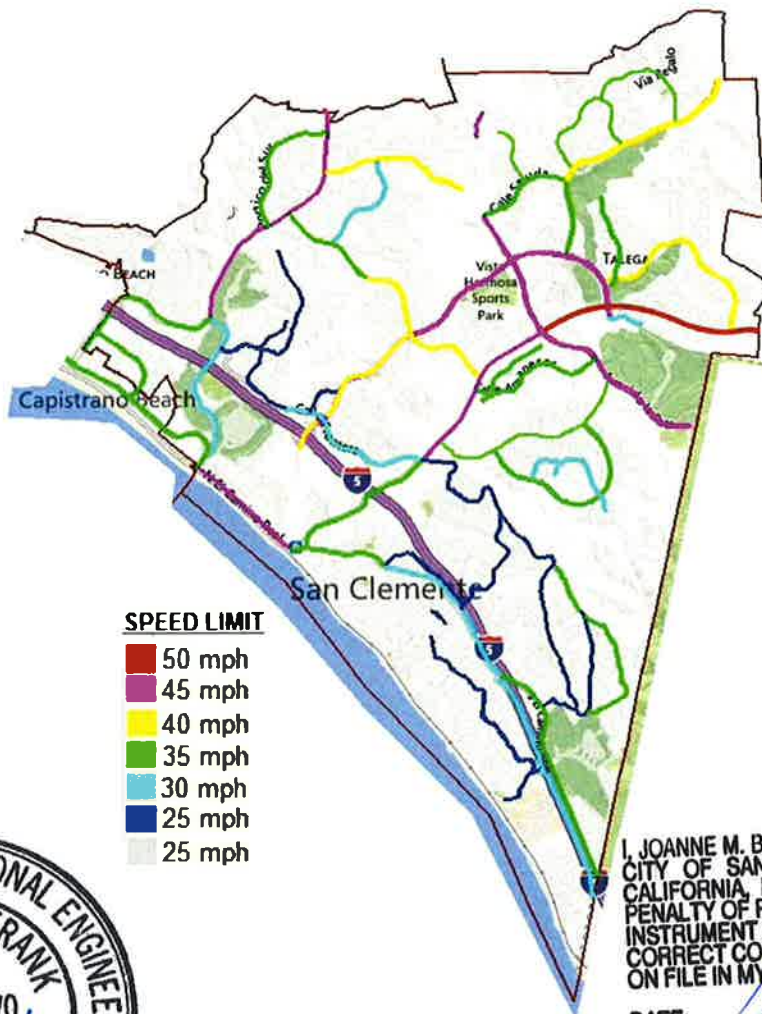




SPEED LIMITS ENGINEERING AND TRAFFIC SURVEYS



I, JOANNE M. BAADE, CITY CLERK OF THE CITY OF SAN CLEMENTE, STATE OF CALIFORNIA, HEREBY CERTIFY UNDER PENALTY OF PERJURY THE FOREGOING INSTRUMENT TO BE A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL NOW ON FILE IN MY OFFICE.

DATE:

7/3/14

JOANNE M. BAADE
CITY CLERK

BY: _____

June 2014



City of San Clemente Engineering Division

Thomas Frank, Transportation Engineering Mgr
Phone: (949) 361-6127 Fax: (949) 361-8316

CERTIFICATION

This report constitutes an Engineering and Traffic Survey of speed limits within the City of San Clemente. The existing speed limits were reviewed for adequacy in terms of adjacent land use, functional classification, traffic demands, roadway design, speed surveys along individual roadways and speed limit continuity with neighboring jurisdictions. Traffic and roadside conditions not readily apparent to the motorists were also considered.

Data collection techniques are in compliance with Division 1, Section 627 and Division 17, Section 40802 (b) of the California Vehicle Code. The following reference materials were also used in the preparation of this Traffic and Engineering Survey:

1. CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2012 Edition – State of California, Department of Transportation, Sacramento, California.
2. CALIFORNIA VEHICLE CODE, 2014 Edition – California Department of Motor Vehicles, Sacramento, California.
1. COLLISION DATA ON CALIFORNIA STATE HIGHWAYS, 2010 Edition – California Department of Transportation, Sacramento, California.
2. HIGHWAY DESIGN MANUAL, 6th Edition – California Department of Transportation, Sacramento, California.

Locations, dates of study and pertinent background information are included in the full report. All data utilized in this report is on file in the Public Works Department, City of San Clemente, 910 Calle Negocio, Suite 100, and San Clemente, California 92673.

This document has been prepared by the City of San Clemente, Engineering Division.

I, Thomas Frank, do hereby certify that I am a Registered Civil Engineer in the State of California. The study and report were prepared under my supervision. Its contents are true and accurate to the best of my knowledge.

June 27, 2014

Thomas R. Frank, P.E.
R.C.E. No. 49070

ORDINANCE NO. 1580

**AN ORDINANCE OF THE CITY COUNCIL OF THE
CITY OF SAN CLEMENTE, CALIFORNIA,
AMENDING CHAPTER 10 OF THE MUNICIPAL
CODE CONCERNING SPEED ZONES ON CITY
STREETS**

WHEREAS, the City has conducted speed surveys and engineering studies upon existing and new streets in the City; and

WHEREAS, the Planning Commission at their regular meeting of April 16, 2014 made a recommendation to the City Council to approve the establishment of speed limits based on recent Engineering and Traffic Survey.

NOW, THEREFORE, the City Council of the City of San Clemente, California, hereby ordains as follows:

Section 1: Section 10.16.020 of the Municipal Code of the City of San Clemente is hereby amended to read in its entirety as follows:

10.16.020 Decrease of state law maximum speed.

It is determined upon the basis of an engineering and traffic investigation that the speed permitted by state law outside of business and residential districts as applicable upon the following streets is greater than is reasonable or safe under the conditions found to exist upon such streets, and it is declared that the prima facie speed limit shall be as herein set forth on those streets or parts of streets herein designated when signs are erected giving notice thereof:

Name of Street or Portion Affected	Declared Prima Facie Speed Limit
Acapulco, Avenida from Avenida San Pablo to Avenida San Pablo	Thirty-five miles per hour
Aguilla, Calle from Avenida Vista Montana to Calle Pastadero	Thirty miles per hour
Altea, Calle from Calle Pedriza to terminus	Thirty-five miles per hour

Amanecer, Calle from Avenida Pico to Avenida La Pata	Thirty-five miles per hour
Califia, Avenida from Avenida Del Presidente to terminus	Twenty-five miles per hour
Capistrano, Camino from El Camino Real to north City limit	Thirty-five miles per hour
Cerro, Calle Del from Avenida Pico to lower Avenida Vista Montana (west)	Forty miles per hour
Cerro, Calle Del from lower Avenida Vista Montana to Avenida La Pata	Thirty-five miles per hour
Del Rio, Camino from Camino de Los Mares to easterly terminus	Forty miles per hour
Faro, Camino from Calle Frontera to Avenida Vista Hermosa	Twenty-five miles per hour
Frontera, Calle from Avenida Pico to to 600' s/o Caudra	Thirty miles per hour
Hermosa, Avenida Vista from Interstate 5 to Camino Vera Cruz	Forty miles per hour
Hermosa, Avenida Vista from Camino Vera Cruz to Avenida Pico	Forty-five miles per hour
La Pata, Avenida from Calle Saluda to South City Limits	Forty-five miles per hour
La Pedriza, Camino from Avenida Vista Hermosa to Avenida Pico	Forty miles per hour

Mares, Camino de Los from Avenida Vaquero to its easterly City limit	Forty-five miles per hour
Mira Costa, Camino from Camino de Estrella to Camino Capistrano	Thirty-five miles per hour
Montana, Avenida Vista from Calle Del Cerro to Calle Del Cerro	Thirty-five miles per hour
Negocio, Calle from Calle Amanecer to its terminus	Thirty-five miles per hour
Pastadero, Calle from Avenida Vista Montana to its terminus	Thirty miles per hour
Pico, Avenida from El Camino Real to Calle Frontera/ Avenida Presidio	Thirty-five miles per hour
Pico, Avenida from Calle Frontera/Avenida Presidio to Avenida La Pata	Forty-five miles per hour
Pico, Avenida from Avenida La Pata to east City limits	Fifty miles per hour
Portico Del Sur/Norte from Camino de Los Mares to Camino de Los Mares	Thirty-five miles per hour
Real, El Camino (Pacific Coast Highway) from Camino Capistrano to Avenida Estacion	Forty-five miles per hour
Real, El Camino from Avenida Estacion to El Portal	Thirty-five miles per hour
Real, El Camino from El Portal to Avenida Valencia	Thirty miles per hour

Real, El Camino
from Avenida Valencia to southern City Limit
Thirty-five miles per hour

Saluda, Calle
From Avenida La Pata to Avenida Talega
Thirty-five miles per hour

San Pablo, Avenida
from Avenida Acapulco to northerly terminus
Thirty-five miles per hour

Sarmentoso, Calle
from Camino Vera Cruz to Camino Del Rio
Thirty miles per hour

Talega, Avenida
from Avenida Vista Hermosa to Calle Saluda
Thirty-five miles per hour

Talega, Avenida
from Calle Saluda to East City Limit
Forty miles per hour

Vaquero, Avenida
from Camino de Los Mares to Camino
Capistrano
Thirty miles per hour

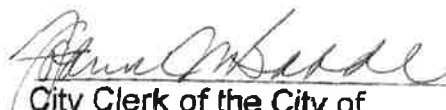
Vera Cruz, Camino
from Avenida Pico to Via Blanco
Forty miles per hour

Vera Cruz, Camino
from Via Blanco to Camino De Los Mares
Thirty-five miles per hour

Section 2: The City Clerk shall certify to the passage of this ordinance and cause the same to be published as required by law, and the same shall take effect as provided by law.

APPROVED AND ADOPTED this 20th day of May, 2014

ATTEST:



City Clerk of the City of
San Clemente, California



Mayor of the City of San
Clemente, California

STATE OF CALIFORNIA)
COUNTY OF ORANGE) ss.
CITY OF SAN CLEMENTE)

I, JOANNE BAADE, City Clerk of the City of San Clemente, California, hereby certify that Ordinance No. 1580 having been regularly introduced at the meeting of May 6, 2014, was again introduced, the reading in full thereof unanimously waived, and duly passed and adopted at a regular meeting of the City Council held on the 20th day of May 2014, and said ordinance was adopted by the following vote:

AYES: BAKER, DONCHAK, EVERT, HAMM, MAYOR BROWN

NOES: NONE

ABSENT: NONE

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City of San Clemente, California, this 27th day of MAY 2014.


CITY CLERK of the City of
San Clemente, California

APPROVED AS TO FORM:

/s/ Jeff Oderman
CITY ATTORNEY

I, JOANNE M. BAADE, CITY CLERK OF THE CITY OF SAN CLEMENTE, STATE OF CALIFORNIA, HEREBY CERTIFY UNDER PENALTY OF PERJURY THE FOREGOING INSTRUMENT TO BE A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL NOW ON FILE IN MY OFFICE.

DATE: 7/3/14 
JOANNE M. BAADE
CITY CLERK

BY: _____

**SPEED RADAR OPERATOR AND EQUIPMENT
CERTIFICATION**

TRANSPORTATION STUDIES, INC.

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT –

1. Edell M. Braucksiek of Transportation Studies Inc. has successfully completed a Radar Operator course. This was based upon the national standards as outlined by the National Highway Traffic Safety Administration, and the national text "Understanding Police Traffic Radar and Laser" by Les Langford. This instructor is Steve Chauncey, a police officer since 1981 and a California P.O.S.T. certified Radar and Laser Instructor since 1991.

2. Edell M. Braucksiek completed the classroom instruction on operation and theory of Radar devices, case law, traffic and engineering surveys, FCC regulations, the California Vehicle Code and California case law as well as the test, set-up, operation and identification of erroneous readings.

3. Edell M. Braucksiek demonstrated competence in test and set-up of the Radar device as making visual speed estimations and identifying erroneous readings in field settings.

4. Edell M. Braucksiek of Transportation Studies Inc. is hereby certified as having completed a course of instruction for the purposes of Radar operation for determining car counts and raw data for traffic and engineering surveys as outlined in sections 627 and the 40800 series of the California Vehicle Code, Chapter 8 of the former Cal Trans Manual and applicable sections of Chapter 2 of MUTCD up to and including Revision 09-04 issued June 29, 2009. This certification is awarded on this 3rd Day of March, 2012.



Steve Chauncey
P.O.S.T. Certified Radar Instructor

RECEIVED

FEB - 9 2014



RHF
Radar Repair

City of San Clemente
Engineering Dept.

TRAFFIC RADAR CERTIFICATION

TESTED TO NHTSA SPECIFICATIONS / IACP CRITICAL PERFORMANCE STANDARDS
(NHTSA) National Highway and Traffic Safety Administration.
(IACP) International Association of Chiefs of Police.

16202 Keats Circle
Westminster, Calif. 92683

R.H.F. is a certified independent testing and repair facility.

1	TEST ID	Date Received 6-21-13	Certification Number 65020					
2	DEVICE ID	Manufacturer MPH	Model: K-15	Type (I-IV) III	Directional radar <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Same direction <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		Counting unit S/N 1499	Antenna-1 S/N N/A		Antenna-2 S/N N/A			
3	§ 2.4 / § 5.4 TUNING FORK CALIBRATION	Low speed fork S/N 1214	Last date calib.	Freq. (Hz)	Speed (mph) 35	Measured (Hz) 2517	PASS	FAIL
		High speed fork S/N	Last date calib.	Freq. (Hz)	Speed (mph)	Measured (Hz)		
4	§ 2.5 / § 5.5 RADAR DEVICE TUNING FORK TESTS	Stationary mode		Lo fork	High fork		PASS	FAIL
		Fork speed (mph)		35	65			
		Disp. Speed (mph)		35	65			
		Moving mode Opposite Direction	TARGET SPEED (Hi fork - Lo fork)	Expected. (mph) N/A	Displayed. (mph) N/A			
Moving mode Same Direction	TARGET SPEED Hi fork + Lo fork Ho fork - Lo fork	Expected. (mph) N/A	Displayed. (mph) N/A					
5	§ 2.6.1 / § 5.6.1 TRANSMISSION FREQUENCY STABILITY	Standard supply Voltage (V) 13.6 V	Antenna 1 Freq. GHz 24.153	Antenna 2 Freq. GHz N/A		PASS	FAIL	
		Standard supply Voltage - 20% (V) 10.8 V	Antenna 1 Freq. GHz 24.153	Antenna 2 Freq. GHz N/A				
		Standard supply voltage + 20% (V) 16.3 V	Antenna 1 Freq. GHz 24.153	Antenna 2 Freq. GHz N/A				
6	§ 2.6.5 / § 5.6.5 POWER DENSITY	Mfg. Spec. (max mW/cm) ≤ 5	Antenna 1 Power (mW/cm) .3	Antenna 2 Power (mW/cm) N/A		PASS	FAIL	
7	§ 2.8 / § 5.8 LOW VOLTAGE	Mfg. spec. (V) ≤ 10.8V	LVA activates (V) N/A	LVA deactivates (V) N/A		PASS	FAIL	
8	§ 2.9.1 / § 5.9.1 DOPPLER AUDIO	A. Audio tone correlates with received Doppler signal B. Functioning audio volume-adjustment control			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		PASS	FAIL
9	§ 2.12.4 / § 5.12.4 INTERNAL CIRCUIT	Mfg. Spec. 32	Test results 32			PASS	FAIL	
10	§ 2.12.6.5 / § 5.12.6.5 DIRECTIONAL	A. Selects only targets moving towards radar B. Selects only targets moving away from radar			<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A.		PASS	FAIL
11	§ 2.12.7 / § 2.12.8 / 5.12.7 / 5.12.8 LOW AND HIGH SPEED DISPLAY TEST	Stationary mode: target channel (mph)		Low speed spec. 20	Lo speed disp. 20		PASS	FAIL
		Hi speed spec. 199		Hi speed disp. 199				
		Moving Mode target channel (mph)		Low speed spec. N/A	Lo speed disp. N/A			
		Hi speed spec. N/A		Hi speed disp. N/A				
Moving Mode: patrol channel (mph)		Low speed spec. N/A	Lo speed disp. N/A					
Hi speed spec. N/A		Hi speed disp. N/A						
12	§ 2.13 / § 5.13 RFI TEST	N/A					PASS	FAIL
13	LABORATORY COMMENTS							
14	NHTSA/IACP CERTIFICATION	This radar device meets or exceeds the minimal operational standards of the National Traffic Highway Safety Administration. California Vehicle Code Section 40802 <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL						
Certified by:		Ford Bauman			Date: 6-21-13			
15	INVENTORY	<input type="checkbox"/> Fork Cert <input type="checkbox"/> Manual <input type="checkbox"/> 2 nd Ant. <input type="checkbox"/> Remote <input type="checkbox"/> Bat. <input type="checkbox"/> Carrying Case Other: (please list)						

CITY OF SAN CLEMENTE
2014 CITYWIDE SPEED LIMIT UPDATE

SUMMARY OF ENGINEERING AND TRAFFIC SURVEY

No.	Location	ADT ¹	Accident Rate ²	Expected Accident Rate ³	Date of Survey	Average Speed	85th Percentile Speed	Recommended Speed Limit
1	Acapulco, Avenida Avenida San Pablo to Avenida San Pablo	1,300	0.66	1.32	1/17/2014	34 mph	38 mph	35 mph
2	Aguila, Calle Avenida Vista Montana to Calle Pastadero	1,200	2.51	1.32	1/16/2014	28 mph	31 mph	30 mph
3	Altea, Calle Camino La Pedriza to Terminus	900	0	1.32	1/13/2014	34 mph	39 mph	35 mph
4	Amanecer, Calle Avenida Pico to Avenida La Pata	7,300	0.25	1.32	1/16/2014	36 mph	41 mph	35 mph
5	Califia, Avenida Avenida Del Presidente to terminus	1,400	4.59	1.32	1/21/2014	23 mph	26 mph	25 mph
6	Capistrano, Camino El Camino Real (Pacific Coast Highway) to North City Limit	8,200	1.51	1.32	1/14/2014	30 mph	33 mph	35 mph
7	Cerro, Del Calle Avenida Pico to Avenida Vista Montana (west)	14,000	1.34	1.81	1/16/2014	34 mph	40 mph	40 mph
8	Cerro, Del Calle Avenida Vista Montana to Avenida La Pata	5,000	3.01	1.81	1/16/2014	33 mph	38 mph	35 mph
9	Del Rio, Camino Camino de Los Mares to Easterly terminus	4,000	0.82	3.97	1/7/2014	37 mph	42 mph	40 mph
10	El Portal, East El Camino Real to Avenida de La Estrella	12,000	0.42	1.32	1/14/2014	27 mph	29 mph	25 mph

¹ADT - Average Daily Traffic from 2010 to 2014

²Accident Rate - Orange County Sheriff data from 1/1/2011 to 12/31/2013

³Expected Accident Rate - 2010 Caltrans Collision Data for District 12 (Orange County)

CITY OF SAN CLEMENTE
2014 CITYWIDE SPEED LIMIT UPDATE

SUMMARY OF ENGINEERING AND TRAFFIC SURVEY

No.	Location	ADT ¹	Accident Rate ²	Expected Accident Rate ³	Date of Survey	Average Speed	85th Percentile Speed	Recommended Speed Limit
11	Estrella, Avenida De La Avenida Presidio to East El Portal	7,000	1.55	1.32	1/14/2014	27 mph	31 mph	25 mph
12	Estrella, Camino de Interstate 5 to West City Limit	10,000	3.53	3.97	1/6/2014	30 mph	35 mph	35 mph
13	Faro, Camino Calle Frontera to Avenida Vista Hermosa	1,500	4.07	1.32	1/15/2014	24 mph	27 mph	25 mph
14	Fresas, Avenida (Private Street) Calle Saluda to Calle Gaulteria	1,500	1.28	1.32	1/8/2014	30 mph	35 mph	35 mph
15	Frontera, Calle Avenida Pico to 600' s/o Cuadra	6,000	1.03	1.32	1/15/2014	34 mph	37 mph	30 mph
16	Frontera, Calle ~600' S. of Calle Cuadra to Calle Vallarta	7,000	0.51	1.32	1/15/2014	28 mph	30 mph	25 mph
17	Fuerte, Camino Viente (Private Street) Avenida Talega west to Via Agradar Via Agradar to Avenida Talega east	1,700	0 0	1.32 1.32	1/13/2014	36 mph 33 mph	40 mph 36 mph	35 mph
18	Grande, Camino Tierra (Private Street) Avenida Talega to Via Timon Via Timon to Camino Viento Fuerte	2,700	0 0	1.32 1.32	1/21/2014	33 mph 32 mph	36 mph 36 mph	35 mph
19	Guadalajara, Calle Calle Nuevo to Avenida Vaquero	1,500	0.91	1.32	1/14/2014	26 mph	30 mph	25 mph
20	Hermosa, Avenida Vista I-5 Southbound Off-ramp to Via Turqueza Via Turqueza to Camino Vera Cruz	27,250 25,000	1.17 0.63	1.81	2/21/14 1/7/14	40 mph 41 mph	45 mph 46 mph	40 mph

¹ADT - Average Daily Traffic from 2010 to 2014

²Accident Rate - Orange County Sheriff data from 1/1/2011 to 12/31/2013

³Expected Accident Rate - 2010 Caltrans Collision Data for District 12 (Orange County)

CITY OF SAN CLEMENTE
2014 CITYWIDE SPEED LIMIT UPDATE

SUMMARY OF ENGINEERING AND TRAFFIC SURVEY

No.	Location	ADT ¹	Accident Rate ²	Expected Accident Rate ³	Date of Survey	Average Speed	85th Percentile Speed	Recommended Speed Limit
21	Hermosa, Avenida Vista Camino Vera Cruz to Avenida La Pata Avenida La Pata to Avenida Pico	19,000 9,000	0.46 0.93	1.81	1/7/2014	44 mph 38 mph	49 mph 44 mph	45 mph
22	La Pata, Avenida Calle Saluda to East Avenida Pico Avenida Pico to Calle Del Cerro Calle Del Cerro to South City Limit	5,500 9,000 9,000	1.18 1.05 0.85	1.81	1/8/2014	45 mph 42 mph 43 mph	50 mph 48 mph 47 mph	45 mph
23	La Pedriza, Camino Avenida Vista Hermosa to Via Amor Via Amor to Avenida Pico	2,000	2.32 1.10	1.32	1/13/2014	38 mph 37 mph	43 mph 42 mph	40 mph
24	Mares, Camino De Los Interstate 5 to Avenida Vaquero	31,000	3.74	1.81	1/6/2014	29 mph	33 mph	35 mph
25	Mares, Camino De Los Avenida Vaquero to Camino Vera Cruz Camino Vera Cruz to East City Limit	16,000 7,000	0.94 2.16	3.97	1/6/2014	46 mph 40 mph	49 mph 45 mph	45 mph
26	Mira Costa, Camino Camino Capistrano to Camino De Estrella	9,000	1.16	3.97	1/14/2014	38 mph	42 mph	35 mph
27	Montana, Avenida Vista Calle Del Cerro to Calle Del Cerro	5,000	0.85	1.32	1/16/2014	37 mph	41 mph	35 mph
28	Negocio, Calle Calle Amanecer to its terminus	3,100	1.87	1.32	1/16/2014	33 mph	36 mph	35 mph
29	Ola Vista, South Avenida Del Mar to Avenida Valencia Avenida Valencia to Avenida Califia	3,000 1,800	4.87 5.71	1.32	1/22/2014	25 mph 25 mph	27 mph 29 mph	25 mph
30	Pastadero, Calle Avenida Vista Montana to its terminus	500	0	1.32	1/16/2014	28 mph	31 mph	30 mph

¹ADT - Average Daily Traffic from 2010 to 2014

²Accident Rate - Orange County Sheriff data from 1/1/2011 to 12/31/2013

³Expected Accident Rate - 2010 Caltrans Collision Data for District 12 (Orange County)

CITY OF SAN CLEMENTE
2014 CITYWIDE SPEED LIMIT UPDATE

SUMMARY OF ENGINEERING AND TRAFFIC SURVEY

No.	Location	ADT ¹	Accident Rate ²	Expected Accident Rate ³	Date of Survey	Average Speed	85th Percentile Speed	Recommended Speed Limit
31	Pico, Avenida El Camino Real to Calle De Los Molinos Calle De Los Molinos to CI Frontera/Av Presidio	12,000	1.23 3.40	1.81	1/9/2014	37 mph 28 mph	41 mph 32 mph	35 mph
32	Pico, Avenida Calle Frontera / Avenida Presidio to Amanecer Calle Amanecer to Avenida La Pata	37,000 24,000	0.63 2.09	1.81	1/9/2014	45 mph 38 mph	49 mph 45 mph	45 mph
33	Pico, Avenida Avenida La Pata to Avenida Vista Hermosa Avenida Vista Hermosa to East City Limit	14,000 8,000	0.84 0.59	1.81	1/9/2014	45 mph 43 mph	51 mph 49 mph	50 mph
34	Portico Del Sur / Norte Camino de Los Mares to Camino de Los Mares	500	3.54	1.32	1/14/2014	36 mph	40 mph	35 mph
35	Presidente, Avenida Del Avenida Valencia to Avenida Califia Avenida Califia to Cristianitos Road	1,350 3,500	3.57 3.01	1.32	1/21/2014	32 mph 27 mph	35 mph 30 mph	30 mph
36	Presidio, Avenida El Camino Real to Calle Escuela Calle Escuela to Avenida Pico	7,800 5,800	1.79 2.86	1.32	3/25/2014 3/24/2014	28 mph 27 mph	31 mph 30 mph	25 mph
37	Puerta del Sol / Hermosa, Avenida Vista Avenida Pico to Avenida Pico	2,000	0	1.32	1/13/2014	28 mph	31 mph	30 mph
38	Real, El Camino (Pacific Coast Highway) Camino Capistrano to Avenida Estacion	16,000	1.09	1.32	1/10/2014	46 mph	50 mph	45 mph
39	Real, El Camino Avenida Estacion to Calle De Los Molinos Calle De Los Molinos to El Portal	14,000 15,500	4.13 3.14	3.97	1/10/2014	31 mph 33 mph	35 mph 36 mph	35 mph
40	Real, El Camino El Portal to Avenida Palizada Avenida Palizada to Avenida Presidio Avenida Presidio to Avenida Valencia	17,000 18,500 16,000	8.35 7.03 5.71	3.97	1/10/2014	28 mph 24 mph 29 mph	31 mph 27 mph 33 mph	30 mph

¹ADT - Average Daily Traffic from 2010 to 2014

²Accident Rate - Orange County Sheriff data from 1/1/2011 to 12/31/2013

³Expected Accident Rate - 2010 Caltrans Collision Data for District 12 (Orange County)

CITY OF SAN CLEMENTE
2014 CITYWIDE SPEED LIMIT UPDATE

SUMMARY OF ENGINEERING AND TRAFFIC SURVEY

No.	Location	ADT ¹	Accident Rate ²	Expected Accident Rate ³	Date of Survey	Average Speed	85th Percentile Speed	Recommended Speed Limit
41	Real, El Camino Avenida Valencia to Del Comercio Del Comercio to South City Limit	12,500 6,000	3.65 3.42	3.97	1/10/2014	33 mph 38 mph	37 mph 42 mph	35 mph
42	Saluda, Calle Avenida La Pata to Avenida Fresas Avenida Fresas to Avenida Talega	5,000 4,900	0 0.56	1.32	1/8/2014	35 mph 37 mph	39 mph 40 mph	35 mph
43	Salvador, Avenida Avenida Presidio to Avenida San Pablo	2,000	1.77	1.32	3/25/2014	27 mph	31 mph	25 mph
44	San Pablo, Avenida (WB one-way) San Gabriel to El Camino Real	1,500	0	1.32	1/17/2014	20 mph	23 mph	25 mph
45	San Pablo, Avenida San Gabriel to Avenida Acapulco	2,500	6.94	1.32	1/17/2014	27 mph	31 mph	25 mph
46	San Pablo, Avenida Avenida Acapulco to northerly terminus	1,500	0.85	1.32	1/17/2014	35 mph	41 mph	35 mph
47	Sarmentoso Camino Vera Cruz to Camino Del Rio	2,000	1.09	1.32	2/19/2014	26 mph	29 mph	30 mph
48	Talega, Avenida Avenida Vista Hermosa to Calle Saluda	10,000	0.79	1.81	2/19/2014	34 mph	39 mph	35 mph
49	Talega, Avenida Calle Saluda to East City Limit	8,000	0.37	1.81	1/7/2014	38 mph	44 mph	40 mph
50	Vaquero, Avenida Camino De Los Mares to Calle Guadalajara Calle Guadalajara to Calle Vista Torito Calle Vista Torito to Camino Capistrano	6,500 4,200 5,100	2.23 1.79 0.98	1.32	1/6/2014	32 mph 33 mph 31 mph	35 mph 36 mph 34 mph	30 mph

¹ADT - Average Daily Traffic from 2010 to 2014

²Accident Rate - Orange County Sheriff data from 1/1/2011 to 12/31/2013

³Expected Accident Rate - 2010 Caltrans Collision Data for District 12 (Orange County)

CITY OF SAN CLEMENTE
2014 CITYWIDE SPEED LIMIT UPDATE

SUMMARY OF ENGINEERING AND TRAFFIC SURVEY

No.	Location	ADT ¹	Accident Rate ²	Expected Accident Rate ³	Date of Survey	Average Speed	85th Percentile Speed	Recommended Speed Limit
51	Vera Cruz, Camino Avenida Pico to Avenida Vista Hermosa Avenida Vista Hermosa to Via Blanco	10,500 17,000	1.19 0.87	1.81	1/9/2014	39 mph 39 mph	43 mph 44 mph	40 mph
52	Vera Cruz, Camino Via Blanco to Camino De Los Mares	10,500	0.55	1.81	1/9/2014	36 mph	41 mph	35 mph

¹ADT - Average Daily Traffic from 2010 to 2014

²Accident Rate - Orange County Sheriff data from 1/1/2011 to 12/31/2013

³Expected Accident Rate - 2010 Caltrans Collision Data for District 12 (Orange County)



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/17/14 TIME START: 11:00 AM TIME STOP: 12:00 PM

DAY OF WEEK: Friday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45		X	1	1%	100%
44			0	0%	99%
43		X X X X X	5	5%	99%
42			0	0%	94%
41	X X	X	3	3%	94%
40	X	X X X	4	4%	91%
39	X X		2	2%	87%
38	X	X X X X X	6	6%	85%*
37	X	X X X	4	4%	79%*
36	X X X X X	X X X X	9	9%	75%*
35	X X X X X X	X X X	9	9%	66%* P
34	X X X X X X X	X X	9	9%	57%* A
33	X X X X	X X X	7	7%	48%* C
32	X X X X X	X X X X X	10	10%	41%* E
31	X X X X	X X X X X	9	9%	31%*
30	X	X X X	4	4%	22%*
29	X X X	X X X	6	6%	18%*
28	X X X	X X	5	5%	12%*
27	X X X X		4	4%	7%*
26		X	1	1%	3%*
25	X		1	1%	2%*
24			0	0%	1%*
23			0	0%	1%*
22			0	0%	1%*
21			0	0%	1%*
20		X	1	1%	1%*
19			0	0%	0%*
18			0	0%	0%*
17			0	0%	0%*
16			0	0%	0%*
15			0	0%	0%*
TOTAL NUMBER OF VEHICLES = 100			100	100%	

LOCATION: AVENIDA ACAPULCO
N. Avenida San Pablo to S. Avenida San Pablo

ROAD CHARACTERISTICS:
 Width: 40 ft. Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 35 MPH Crosswalks: no
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: stop sign at Ave. San Pablo

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 1,300 **SEGMENT LENGTH (ft):** 5,584

ACCIDENTS 3-YR TOTAL: 1 **ACCIDENT RATE:** 0.66 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %: <u>38</u> M.P.H.	10 MPH PACE: <u>29 - 38</u> M.P.H.
50TH %: <u>33</u> M.P.H.	% IN PACE: <u>73%</u>
15TH %: <u>28</u> M.P.H.	% OVER PACE: <u>15%</u>
AVERAGE SPEED: <u>34</u> M.P.H.	% UNDER PACE: <u>12%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the geometric design of Avenida Acapulco and its location within the residential zone, it is recommended to post 35 MPH speed limit on this street segment.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/17/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/16/14 TIME START: 2:00 PM TIME STOP: 3:00 PM

DAY OF WEEK: Thursday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37		X	1%	100%
36			0%	99%
35		X X X X	4%	99%
34		X X X	3%	95%
33		X X X	3%	92%
32		X X X X X	5%	89% *
31	X X X	X X X	6%	84% *
30	X X X X X X	X X X X	10%	78% *
29	X X X X X X	X X X X X	11%	68% P
28	X X X X X	X X	7%	57% A
27	X X X X X	X X X X	9%	50% C
26	X X X X X X X X	X X X X	12%	41% E
25	X X X X X	X X X	7%	29% *
24	X X X X X	X X X X X	10%	22% *
23	X X X X X	X X	7%	12% *
22	X X X	X	4%	5%
21		X	1%	1%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 100			100%	

LOCATION: CALLE AGUILA
Avenida Vista Montana to Calle Pastadero

ROAD CHARACTERISTICS:
 Width: 40 ft. Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 31 mph Crosswalks: yes
 Vertical Alignment Design Speed: 37 mph Traffic Controls: stop sign at Ave. Vista Montana and Cl. Pastadero

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium
high (during school hours)

AVERAGE DAILY TRAFFIC: 1,200 **SEGMENT LENGTH (ft):** 1,600

ACCIDENTS 3-YR TOTAL: 1 **ACCIDENT RATE:** 2.51 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

85TH %:	<u>31</u> MPH	10 MPH PACE:	<u>23 - 32</u> MPH
50TH %:	<u>27</u> MPH	% IN PACE:	<u>84%</u>
15TH %:	<u>23</u> MPH	% OVER PACE:	<u>11%</u>
AVERAGE SPEED:	<u>28</u> MPH	% UNDER PACE:	<u>5%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Calle Aguila provides direct access to Rancho San Clemente park and Lobo Elementary school. Based on the the geometric design of the street, its location within the school and public park, it is recommended to post 30 MPH speed limit on this street segment.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/16/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/13/14 TIME START: 9:00 AM TIME STOP: 10:30 AM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED (450' N/O VIA RESEDA)		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47		X	1%	100%
46			0%	99%
45		X X	2%	99%
44		X X	2%	97%
43		X X	2%	95%
42	X	X X	3%	93%
41		X X X X	4%	90%
40		X X	2%	86%
39		X X X	3%	84%*
38	X X	X X X	5%	81%*
37		X X X	3%	76%*
36	X X	X X	4%	73%*
35	X X X X	X X X X X	9%	69%*
34	X X	X X X X X	7%	60%*
33	X X X X X X X X X	X X X X	13%	53%*
32	X X X X X	X X X X	9%	41%*
31	X X X	X X X X	7%	32%*
30	X X X	X X X	6%	25%*
29	X X		2%	19%
28	X X X X		4%	17%
27	X X X X		4%	13%
26	X X		2%	9%
25	X X X X X X X		6%	7%
24			0%	1%
23			0%	1%
22			0%	1%
21			0%	1%
20	X		1%	1%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 101			100%	

LOCATION: CALLE ALTEA
Camino La Pedriza to Terminus

ROAD CHARACTERISTICS:
 Width: 40 ft. Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 50 MPH Traffic Controls: Stop sign and crosswalk on Altea at Camino Pedriza, Neighborhood Park

ROADWAY CONDITIONS:
 Lateral Visibility: fair Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 900 **SEGMENT LENGTH (ft):** 3,230

ACCIDENTS 3-YR TOTAL: 0 **ACCIDENT RATE:** 0.00 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	<u>39</u> MPH	10 MPH PACE:	<u>30 - 39</u> MPH
50TH %:	<u>32</u> MPH	% IN PACE:	<u>65%</u>
15TH %:	<u>27</u> MPH	% OVER PACE:	<u>16%</u>
AVERAGE SPEED:	<u>34</u> MPH	% UNDER PACE:	<u>19%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Calle Altea is a local collector street serving Talega residential communities. Based the street location within the residential neighborhood, adjacent to a community recreation facility and park, it is recommended to post 35 MPH speed limit on this street segment.

OBSERVED BY: Mike Almir, Transportation Studies Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/13/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/16/14 TIME START: 10:00 AM TIME STOP: 11:00 AM

DAY OF WEEK: Thursday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50	X		1%	100%
49		X	1%	100%
48		X	1%	99%
47	X X	X	2%	99%
46	X X	X	2%	97%
45	X X		1%	96%
44	X X X X	X X	3%	95%
43	X X X X X X	X X X X X	6%	92%
42	X X X X	X X X X	4%	86%
41	X X X X X X X	X X X	5%	82%
40	X X X X	X X X X X X X X	6%	77%
39	X X X X X X X	X X X X X	6%	71%
38	X X X X X	X X X X X X X	6%	65%
37	X X X X X X X X X	X X X X X X X X X	10%	59%
36	X X X X X	X X X X X X X X X	8%	50%
35	X X X X X X X	X X X X X X X X X	9%	42%
34	X X X X X X X	X X X X	6%	34%
33	X X	X X X X X X X	5%	28%
32	X X X X	X X X X X	5%	24%
31	X	X X X X	3%	19%
30	X X X	X X X X X	4%	17%
29	X X X X X X X X	X X	5%	13%
28		X X	1%	8%
27	X X X X X	X	3%	7%
26	X	X	1%	4%
25	X X X X		2%	3%
24			0%	1%
23			0%	1%
22			0%	1%
21	X		1%	1%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: CALLE AMANE CER
Avenida Pico to Avenida La Pata

ROAD CHARACTERISTICS:
 Width: 44 ft. Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: no
 Horizontal Alignment Design Speed: 35 MPH Crosswalks: no
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: signalized at Ave. Pico, Ave. La Pata, and Cl. Negocio

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 7,300 **SEGMENT LENGTH (ft):** 5,540

ACCIDENTS 3-YR TOTAL: 2 **ACCIDENT RATE:** 0.24 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	<u>41</u> MPH	10 MPH PACE:	<u>34 - 43</u> MPH
50TH %:	<u>36</u> MPH	% IN PACE:	<u>64%</u>
15TH %:	<u>29</u> MPH	% OVER PACE:	<u>9%</u>
AVERAGE SPEED:	<u>36</u> MPH	% UNDER PACE:	<u>28%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street, the high density of industrial and business buildings along Calle Amanecer, it is recommended to post the speed limit on this segment of Calle Amanecer at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/16/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/21/14 TIME START: 2:00 PM TIME STOP: 3:00 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37			0%	100%
36			0%	100%
35			0%	100%
34			0%	100%
33			0%	100%
32			0%	100%
31	X	X	1%	100%
30		X X	1%	99%
29			0%	98%
28	X X X X X X X	X X X X X X X	7%	98%*
27	X X X X X X X	X X X X X X X	7%	91%*
26	X X X X X X X X X	X X X X X X X X X	9%	84%*
25	X X X X X X X X X X	X X X X X X X X X X X	11%	74%*
24	X X X X X X X X X	X X X X X X X X X X	9%	63%*
23	X X X X X X X X X	X X X X X X X X X X X X	11%	54%*
22	X X X X X X X X X X X	X X X X X X X X X X X	11%	43%*
21	X X X X X X X X X	X X X X X X X X X X X	10%	31%*
20	X X X X X X X X X X X	X X X X X X	9%	21%*
19	X X X X X X X	X X X X X	5%	12%*
18	X X X X X X X X	X X X X X	6%	7%*
17			0%	0%
16			0%	0%
15	X		0%	0%
TOTAL NUMBER OF VEHICLES = 202			100%	

LOCATION: AVENIDA CALIFIA
Avenida Del Presidente to terminus

ROAD CHARACTERISTICS:
 Width: 40-60 ft. Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 25 mph Crosswalks: no
 Vertical Alignment Design Speed: 25 mph Traffic Controls: stop sign at Ave. Del Presidente

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 1,400 **SEGMENT LENGTH (ft):** 1,500

ACCIDENTS 3-YR TOTAL: 2 **ACCIDENT RATE:** 4.59 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	26	MPH	10 MPH PACE:	<u>19 - 28</u>	MPH
50TH %:	<u>22</u>	MPH	% IN PACE:	<u>91%</u>	
15TH %:	<u>19</u>	MPH	% OVER PACE:	<u>2%</u>	
AVERAGE SPEED:	<u>23</u>	MPH	% UNDER PACE:	<u>7%</u>	

COMMENTS AND/OR RECOMMENDATIONS:
 Avenida Califia provides direct access to the State park and San Clemente State Beach. Based on the street geometric design, high accident rate, high volume of pedestrians and bikers sharing the road, it is recommended to post the speed limit of 25 MPH on Avenida Califia.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/21/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/14/14 TIME START: 2:00 PM TIME STOP: 2:45 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40	X	X	1%	100%
39		X	0%	99%
38		X X X	1%	99%
37	X	X X X	2%	97%
36	X X X X	X X X	3%	95%
35	X X X	X X X X X X X	5%	92%
34	X	X X X X X X X X	5%	87%
33	X X X X X X	X X X X X X X X X	8%	82%
32	X X X X X X X X X X X X X	X X X X X X X X X X	12%	74%
31	X X X X X X	X X X X X X X X	7%	62%
30	X X X X X X X X X X X X X	X X X X	9%	55%
29	X X X X X X X X X X X X X	X X X X X X X X X X	11%	46%
28	X X X X X X X X X X	X X X X X X X	8%	35%
27	X X X X X X X X X X X X X	X X	7%	27%
26	X X X X	X X X X X	4%	20%
25	X X X	X X X X X	4%	15%
24	X X X X X	X X X	4%	11%
23	X	X X	1%	7%
22	X X	X X X X	3%	6%
21	X	X X	1%	3%
20	X	X X	1%	1%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 205			100%	

LOCATION: CAMINO CAPISTRANO
El Camino Real (Pacific Coast Highway) to North City Limit

ROAD CHARACTERISTICS:
 Width (ft): 64 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: no
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: traffic signal at El Camino Real & Ave. Vaquero

ROADWAY CONDITIONS:
 Lateral Visibility: limited Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 8,200 **SEGMENT LENGTH (ft):** 3,120

ACCIDENTS 3-YR TOTAL: 8 **ACCIDENT RATE:** 1.51 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	<u>33</u> MPH	10 MPH PACE:	<u>26 - 35</u> MPH
50TH %:	<u>29</u> MPH	% IN PACE:	<u>77%</u>
15TH %:	<u>25</u> MPH	% OVER PACE:	<u>8%</u>
AVERAGE SPEED:	<u>30</u> MPH	% UNDER PACE:	<u>15%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Camino Capistrano provides direct access beach and is located in the vicinity of golf courses. Based on the street geometric, various street widths, the volume of pedestrian and bike traffic, and the high accident rate, it is recommended to post the speed limit of 35 MPH on Camino Capistrano.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/14/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/16/14 TIME START: 12:00 PM TIME STOP: 1:00 PM

DAY OF WEEK: Thursday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57	X		1%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51		X	1%	100%
50			0%	99%
49	X X X		2%	99%
48			0%	98%
47		X	1%	98%
46	X	X X	2%	97%
45	X	X X	2%	96%
44	X	X X	2%	94%
43	X	X X X X X	3%	93%
42	X X X X	X X X	4%	90%
41	X X X X	X X X X X X	5%	86%
40	X X X X X	X X X X	5%	81%
39	X X X	X X	3%	77%
38	X X X X	X X X X X X X X	6%	74%
37	X X X X X	X X X X	5%	68%
36	X X X X X X X	X X X	5%	64%
35	X X X X X X	X X X	5%	59%
34	X X X X	X X X X X X X X X X	8%	54%
33	X X	X	2%	47%
32	X X X X X X X	X X X X X X X X X X X X	10%	45%
31	X X X X X	X X X X X	5%	35%
30	X X X	X X X X X	4%	30%
29	X X X X	X X	3%	26%
28	X X X X X X X X X X	X X X X X	8%	23%
27	X X X X X X X	X X X X	6%	15%
26	X X X X	X X X X X	5%	10%
25	X X X X	X	3%	5%
24	X		1%	3%
23			0%	2%
22		X	1%	2%
21	X X		1%	2%
20			0%	1%
19			0%	1%
18			0%	1%
17			0%	1%
16			0%	1%
15	X		1%	1%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: CALLE DEL CERRO
Avenida Pico to Avenida Vista Montana (west)

ROAD CHARACTERISTICS:
 Width (ft): 58 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: traffic signal lights at Ave Pico and Vista Montana (westerly intersection)

ROADWAY CONDITIONS:
 Lateral Visibility: limited Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 14,000 **SEGMENT LENGTH (ft):** 2,309

ACCIDENTS 3-YR TOTAL: 9 **ACCIDENT RATE:** 1.34 accidents per million
 "(1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 40 MPH **APPROVED SPEED LIMIT:** 40 MPH

85TH %:	<u>40</u> MPH	10 MPH PACE:	<u>27 - 36</u> MPH
50TH %:	<u>33</u> MPH	% IN PACE:	<u>54%</u>
15TH %:	<u>27</u> MPH	% OVER PACE:	<u>37%</u>
AVERAGE SPEED:	<u>34</u> MPH	% UNDER PACE:	<u>10%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street and speed survey, it is recommended to post the speed limit on this street segment of Calle Del Cerro at 40 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/16/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/16/14 TIME START: 11:00 AM TIME STOP: 12:00 PM

DAY OF WEEK: Thursday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57	X		0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46	X		0%	100%
45			0%	99%
44			0%	99%
43		X	0%	99%
42	X X X X	X X X	3%	99%
41	X	X X X X	2%	95%
40	X X	X X X X X	3%	93%
39	X X X	X X X X X	4%	89%
38	X X X X X X X X X	X X X X X X	7%	85%
37	X X X X X X X	X X X X X	6%	78%
36	X X X X X X X X X	X X X X X X X	8%	72%
35	X X X X X X X X X X	X X X X X X X X X	9%	64%
34	X X X X	X X X X X X X X	6%	54%
33	X X X X X X X X X	X X X X X X	7%	48%
32	X X X X X	X X X X X X X	6%	41%
31	X X X X X X X X X X	X	5%	35%
30	X X X X X	X X X X X X X X X	7%	29%
29	X	X X X X X	3%	22%
28	X	X X X X	2%	19%
27	X X X X	X X X X	4%	17%
26	X X	X X X	2%	13%
25	X X X X X X	X X X X X X	6%	10%
24	X X	X X X	2%	4%
23	X		0%	2%
22			0%	1%
21	X		0%	1%
20	X		0%	1%
19	X		0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 201			100%	

LOCATION: CALLE DEL CERRO
Avenida Vista Montana (west) to Avenida La Pata

ROAD CHARACTERISTICS:
 Width (ft): 48
 No. of Lanes for Both Directions: 2
 Horizontal Alignment Design Speed: 50 MPH
 Vertical Alignment Design Speed: 40 MPH
 Sidewalks/Driveways: yes
 On-Street Parking: no
 Crosswalks: yes
 Traffic Controls: Traffic signal light at the intersection with Vista Montana west; stop sign at Avenida La Pata.

ROADWAY CONDITIONS:
 Lateral Visibility: limited
 Surface Condition: good
 Driveway Density: medium
 Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 5,000 **SEGMENT LENGTH (ft):** 5,765

ACCIDENTS 3-YR TOTAL: 18 **ACCIDENT RATE:** 3.01 accidents per million vehicles miles
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	38	MPH	10 MPH PACE:	<u>30 - 39</u>	MPH
50TH %:	<u>33</u>	MPH	% IN PACE:	<u>67%</u>	
15TH %:	<u>26</u>	MPH	% OVER PACE:	<u>11%</u>	
AVERAGE SPEED:	<u>33</u>	MPH	% UNDER PACE:	<u>22%</u>	

COMMENTS AND/OR RECOMMENDATIONS:

Based on the street geometric with rolling grades, limited line of sight and residential communities on both side of the street, it is recommended to post the speed limit on Calle Del Cerro at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/16/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/7/14 TIME START: 9:00 AM TIME STOP: 10:30 AM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51	X		0%	100%
50	X	X	1%	100%
49	X		0%	99%
48		X X	1%	98%
47	X X		1%	97%
46	X X	X X X X X	3%	96%
45		X X X X X X	3%	93%
44	X X X X	X X X	3%	90%
43	X X X X X X X	X X X X X X X	7%	86%
42	X X X X X X	X X X X X	5%	80%
41	X X X X X X	X X X X X	5%	74%
40	X X X X X X X X	X X X X X X	7%	69%
39	X X X X X X	X X X X X	5%	62%
38	X X X X X X	X X X X X	5%	57%
37	X X X X X X X X X X	X X X X X X X X	9%	52%
36	X X X X X	X X X X	4%	43%
35	X X X X X	X X X X	4%	39%
34	X X X X X X	X X X X X	5%	34%
33	X X X X X X	X X X X X X X	6%	29%
32	X X X X	X X X X X X X X	6%	23%
31	X X X X X X X X	X X X X X	6%	16%
30	X X X X X X	X X X X X	5%	10%
29		X X X X	2%	5%
28	X	X X	1%	3%
27	X X	X	1%	1%
26			0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 207			100%	

LOCATION: CAMINO DEL RIO
Camino de Los Mares to Easterly terminus

ROAD CHARACTERISTICS:
 Width (ft): 64 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes-limited
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: stop sign at the intersection with Camino De Los Mares

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 4,000 **SEGMENT LENGTH (ft):** 4,432

ACCIDENTS 3-YR TOTAL: 3 **ACCIDENT RATE:** 0.82 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 40 MPH **APPROVED SPEED LIMIT:** 40 MPH

85TH %:	42	MPH	10 MPH PACE:	<u>31 - 40</u>	MPH
50TH %:	<u>36</u>	MPH	% IN PACE:	<u>59%</u>	
15TH %:	<u>30</u>	MPH	% OVER PACE:	<u>31%</u>	
AVERAGE SPEED:	<u>37</u>	MPH	% UNDER PACE:	<u>10%</u>	

COMMENTS AND/OR RECOMMENDATIONS:
 Based on geometric design of Calle Del Rio and the speed survey, it is recommended to post the speed limit on Camino Del Rio at 40 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/7/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/14/14 TIME START: 2:45 PM TIME STOP: 3:25 PM
 DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37	X	X	1%	100%
36		X	0%	99%
35			0%	99%
34	X	X	1%	99%
33		X X X	1%	98%
32			0%	96%
31	X X X X X X X X X X	X X X X X X X X	9%	96% *
30	X X X X X X X	X X X X X X X X	7%	87% *
29	X X X X X X X X X X X X X X	X X X X X X X X X X	13%	79% *
28	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	13%	67% P
27	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	13%	54% A
26	X X X X X X X	X X X X X X X X X X X	9%	41% E
25	X X X X X X X X X X X X X X	X X X X X X X X X X	10%	32% *
24	X X X X X X X X X	X X X X X X X	7%	22% *
23	X X X X X X X	X X X X X X X	6%	15% *
22	X X X X X X	X X X X X X X	5%	9% *
21		X X X X X X	2%	3% *
20	X		0%	1% *
19	X		0%	0% *
18			0%	0% *
17			0%	0% *
16			0%	0% *
15			0%	0% *
TOTAL NUMBER OF VEHICLES = 203			100%	

LOCATION: EL PORTAL, EAST
El Camino Real to Avenida De La Estrella

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: Traffic signals at El Camino Real and Ave. De La Estrella

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 12,000 **SEGMENT LENGTH (ft):** 2,900

ACCIDENTS 3-YR TOTAL: 3 **ACCIDENT RATE:** 0.42 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %: <u>29</u> MPH	10 MPH PACE: <u>22 - 31</u> MPH
50TH %: <u>26</u> MPH	% IN PACE: <u>93%</u>
15TH %: <u>23</u> MPH	% OVER PACE: <u>4%</u>
AVERAGE SPEED: <u>27</u> MPH	% UNDER PACE: <u>3%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the geometric design of the street, direct access to both multi-family and single family residential units and other commercial establishments surrounding the street, it is recommended to post a speed limit on East El Portal at 25 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/14/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/14/14 TIME START: 3:25 PM TIME STOP: 4:00 PM

DAY OF WEEK: Tuesday

WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42		X	0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37	X	X	1%	100%
36	X	X	1%	99%
35	X X	X X X	2%	98%
34	X X X X		2%	95%
33	X X	X X X X	3%	93%
32	X X X X X	X X X X X X	6%	90%*
31	X X X X X X X X X	X X X X	7%	84%*
30	X X X X X X	X X X X X X X X X X	8%	77%*
29	X X X X X	X X X X X X X X	7%	69%*
28	X X X X X X X X X X X X	X X X X X X X X X X X X	13%	62%*
27	X X X X X X	X X X X X X X X	7%	49%*
26	X X X X X X X X X X X	X X X X X X	9%	42%*
25	X X X X X X X X X	X X X X X X	7%	33%*
24	X X X X X X X X X	X X X	6%	25%*
23	X X X X X X X	X X X X X X X X	7%	19%*
22	X X X	X X X X	3%	12%*
21	X X	X	1%	8%*
20	X	X X X X X X	3%	7%*
19			0%	3%*
18	X	X X	1%	3%*
17	X		0%	2%*
16	X X	X	1%	1%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 202			100%	

LOCATION: AVENIDA DE LA ESTRELLA
Avenida Presidio to East El Portal

ROAD CHARACTERISTICS:

Width (ft): <u>40</u>	Sidewalks/Driveways: <u>yes</u>
No. of Lanes for Both Directions: <u>2</u>	On-Street Parking: <u>yes</u>
Horizontal Alignment Design Speed: <u>30 MPH</u>	Crosswalks: <u>yes</u>
Vertical Alignment Design Speed: <u>30 MPH</u>	Traffic Controls: <u>traffic signal at the intersection with Avenida Palizada</u>

ROADWAY CONDITIONS:

Lateral Visibility: <u>good</u>	Driveway Density: <u>medium</u>
Surface Condition: <u>good</u>	Ped. & Bicycle Activity: <u>high</u>

AVERAGE DAILY TRAFFIC: 7,000 **SEGMENT LENGTH (ft):** 6,209

ACCIDENTS 3-YR TOTAL: 14 **ACCIDENT RATE:** 1.55 accidents per million vehicles miles
(1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %: <u>31</u> MPH	10 MPH PACE: <u>23 - 32</u> MPH
50TH %: <u>27</u> MPH	% IN PACE: <u>78%</u>
15TH %: <u>22</u> MPH	% OVER PACE: <u>10%</u>
AVERAGE SPEED: <u>27</u> MPH	% UNDER PACE: <u>12%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Avenida De La Estrella is located within the high density residential and commercial areas. Based on the establishment density and the high number of pedestrians, it is recommended to post the speed limit on Avenida De La Estrella at 25 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/14/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/6/14 TIME START: 9:00 AM TIME STOP: 9:50 AM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45		X	0%	100%
44		X	0%	100%
43		X X	1%	99%
42		X X	1%	98%
41		X	0%	97%
40		X X X	1%	97%
39		X X X X X	2%	95%
38		X X X X	2%	93%
37		X X X X X X	3%	91%
36		X X X X X X X X	4%	88%
35	X	X X X X X X X X X X X X	7%	83%
34	X X	X X X X X X	4%	76%
33	X X X	X X X X X X X X X	6%	72%
32	X X X X	X X X X X X X	5%	66%
31	X X X X X X	X X X X X X	6%	60%
30	X X X	X X X X X X X	5%	54%
29	X X X X X X X X X X	X X X X X	7%	49%
28	X X X X X X X X X X	X X X X X	7%	42%
27	X X X X X X X X X X	X X X	6%	34%
26	X X X X X X X X X X X	X X X	7%	28%
25	X X X X X X X X X X X	X X	7%	21%
24	X X X X X X X X X X		5%	14%
23	X X X X X X X X	X	4%	9%
22	X X X X X		2%	4%
21	X X X		1%	2%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16	X		0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 203			100%	

LOCATION: CAMINO DE ESTRELLA
Interstate 5 to West City Limit

ROAD CHARACTERISTICS:
 Width (ft): 84 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes
 Horizontal Alignment Design Speed: 35 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: signalized at Cam. Mira Costa, Shopping Center and at I-5

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 10,000 **SEGMENT LENGTH (ft):** 3,141

ACCIDENTS 3-YR TOTAL: 23 **ACCIDENT RATE:** 3.53 accidents per million vehicles miles
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	<u>35</u> MPH	10 MPH PACE:	<u>24 - 33</u> MPH
50TH %:	<u>29</u> MPH	% IN PACE:	<u>63%</u>
15TH %:	<u>24</u> MPH	% OVER PACE:	<u>28%</u>
AVERAGE SPEED:	<u>30</u> MPH	% UNDER PACE:	<u>9%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Camino de Estrella is located within the high density residential and commercial areas. Based on the street geometric design, establishment density, and the speed survey, it is recommended to post the speed limit on Avenida De La Estrella at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/6/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/15/14 TIME START: 1:00 PM TIME STOP: 2:00 PM

DAY OF WEEK: Wednesday

WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37			0%	100%
36			0%	100%
35			0%	100%
34			0%	100%
33		X	1%	100%
32			0%	99%
31		X	1%	99%
30	X	X X X X	5%	98%
29		X X X	3%	93%
28	X X X X	X X	6%	90%*
27	X X X X X X	X X X X	10%	84%*
26	X X X X X	X X X X	9%	75%*
25	X X X X X X X X	X X X	11%	66% P
24	X X X	X X X X X	8%	55% A
23	X X X X X	X X X X X X	11%	47% C
22	X X X X	X X X	7%	36% E
21	X X X X X	X X X X X	10%	29%*
20	X X X	X X X X X	8%	20%*
19	X X X	X X X X	7%	12%*
18	X X X X	X	5%	5%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 102			100%	

LOCATION: CAMINO FARO
Calle Frontera to Avenida Vista Hermosa

ROAD CHARACTERISTICS:
 Width (ft): 36 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: Traffic signal at intersection with Calle Frontera and Ave. Vista Hermosa

ROADWAY CONDITIONS:
 Lateral Visibility: limited Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 1,500 **SEGMENT LENGTH (ft):** 1,580

ACCIDENTS 3-YR TOTAL: 2 **ACCIDENT RATE:** 4.07 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	<u>27</u> MPH	10 MPH PACE:	<u>19 - 28</u> MPH
50TH %:	<u>23</u> MPH	% IN PACE:	<u>85%</u>
15TH %:	<u>19</u> MPH	% OVER PACE:	<u>10%</u>
AVERAGE SPEED:	<u>24</u> MPH	% UNDER PACE:	<u>5%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on geometric design of the street, high accident rate, narrow street width with on-street parking on both sides of the street, it is recommended to post the speed limit on Avenida Faro at 25 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/15/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/8/14 TIME START: 3:02 PM TIME STOP: 4:15 PM

DAY OF WEEK: Wednesday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40	X	X	1%	100%
39	X	X X X X X X	3%	99%
38	X X	X X X X X X	4%	96%
37	X X X X	X X X X X X	5%	92%
36	X X X X X	X X X X X X	5%	87%
35	X X X X X	X X X X X X	5%	81%*
34	X X X X X X	X X X X X X	6%	76%*
33	X X X X X X	X X X X X X	6%	70%*
32	X X X X X X	X X X X X X X	7%	64% P
31	X X X X X X	X X X X X X X	7%	57% A
30	X X X X X	X X X X X X	6%	50% C
29	X X X X X X	X X X X X X X	6%	44% E
28	X X X X X X	X X X X X	5%	37%*
27	X X X X X	X X X X X X	5%	32%*
26	X X X X X X X	X X X X X	6%	26%*
25	X X X X	X X X X	4%	20%
24	X X X X X	X X X X X	5%	16%
23	X X X X X		2%	11%
22	X X X X X	X X	3%	9%
21	X X X X	X	2%	5%
20	X X X		1%	3%
19			0%	1%
18	X		0%	1%
17	X		0%	1%
16	X		0%	0%
15			0%	0%

TOTAL NUMBER OF VEHICLES = 201 100%

LOCATION: Avenida Fresas (Private street)
Calle Saluda to Calle Gaulteria

ROAD CHARACTERISTICS:
 Width (ft): 52 - 70 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: no
 Horizontal Alignment Design Speed: n/a Crosswalks: no
 Vertical Alignment Design Speed: n/a Traffic Controls: Traffic signal at Avenida Talega and Avenida Fresas.

ROADWAY CONDITIONS:
 Lateral Visibility: Good Driveway Density: low
 Surface Condition: Good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 1,500 SEGMENT LENGTH (ft): 2,518

ACCIDENTS 3-YR TOTAL: 1 ACCIDENT RATE: 1.28 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH APPROVED SPEED LIMIT: 35 MPH

85TH %:	35	MPH	10 MPH PACE:	<u>26 - 35</u> MPH
50TH %:	<u>30</u>	MPH	% IN PACE:	<u>61%</u>
15TH %:	<u>23</u>	MPH	% OVER PACE:	<u>19%</u>
AVERAGE SPEED:	<u>30</u>	MPH	% UNDER PACE:	<u>20%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the speed survey and the street's location within the residential zone , it is recommended to post a speed limit on Avenida Fresas at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/8/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/15/14 TIME START: 12:00 PM TIME STOP: 1:00 PM

DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52	X		1%	100%
51			0%	99%
50			0%	99%
49			0%	99%
48			0%	99%
47		X	1%	99%
46			0%	98%
45			0%	98%
44			0%	98%
43			0%	98%
42		X	1%	98%
41	X X X X		4%	97%
40	X X	X X	4%	93%
39		X	1%	89%
38	X X X X	X X X	7%	88%*
37	X X	X X X X	6%	82%*
36	X X X X X X X X X X	X X	13%	76%*
35	X X X X	X X X X X	9%	63%*
34	X X X	X X X	6%	54%*
33	X	X X X X X	6%	49%*
32	X X X X X X	X X X X X X X	13%	43%*
31	X X X X X X	X X X X X X X X	15%	30%*
30	X X X	X X X X	7%	16%*
29	X X	X X	4%	9%*
28			0%	5%
27	X X X		3%	5%
26		X	1%	2%
25		X	1%	1%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 103			100%	

LOCATION: CALLE FRONTERA
Avenida Pico to 600' s/o Calle Cuadra

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 50 MPH Traffic Controls: stop sign at intersection with Cl. Faceta and traffic signals at Ave. Pico & Vista Hermosa.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 6,000 **SEGMENT LENGTH (ft):** 6,266

ACCIDENTS 3-YR TOTAL: 8 **ACCIDENT RATE:** 1.03 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

85TH %: <u>37</u> MPH	10 MPH PACE: <u>29 - 38</u> MPH
50TH %: <u>33</u> MPH	% IN PACE: <u>83%</u>
15TH %: <u>30</u> MPH	% OVER PACE: <u>12%</u>
AVERAGE SPEED: <u>34</u> MPH	% UNDER PACE: <u>5%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the high density of residential development adjacent to the street, school routes to San Clemente High School and Marblehead Middle School, it is recommended to post the speed limit on this street segment of Calle Frontera at 30 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/15/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/15/14 TIME START: 3:00 PM TIME STOP: 4:00 PM

DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37			0%	100%
36			0%	100%
35		X	1%	100%
34		X X	2%	99%
33		X X X X X X	6%	97%
32		X X X X	4%	91%
31	X X X X	X X X	7%	87%
30	X X X X X X	X X X X X	11%	80%
29	X X X X X	X X X X X	10%	69%
28	X X X X X	X X X X X	10%	59%
27	X X X X X X X	X X X X	11%	49%
26	X X X X X	X X X X X X	11%	38%
25	X X X X X X X	X X X X	11%	27%
24	X X X X X	X X	7%	16%
23	X X X	X X	5%	9%
22	X X	X	3%	4%
21	X		1%	1%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 100			100%	

LOCATION: CALLE FRONTERA
Calle Vallarta to 600' S. of Calle Cuadra

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: no
 Vertical Alignment Design Speed: 25 MPH Traffic Controls: stop sign at intersection with Calle Vallarta and Guadalajara

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 7,000 **SEGMENT LENGTH (ft):** 2,724

ACCIDENTS 3-YR TOTAL: 2 **ACCIDENT RATE:** 0.51 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	<u>30</u>	MPH	10 MPH PACE:	<u>24 - 33</u>	MPH
50TH %:	<u>27</u>	MPH	% IN PACE:	<u>88%</u>	
15TH %:	<u>24</u>	MPH	% OVER PACE:	<u>3%</u>	
AVERAGE SPEED:	<u>28</u>	MPH	% UNDER PACE:	<u>9%</u>	

COMMENTS AND/OR RECOMMENDATIONS:

Based on the geometric of the street, location within the residential zone, many driveways directly fronting the street, it is recommended to post the speed limit on this segment of Calle Frontera at 25 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/15/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/13/14 TIME START: 1:45 PM TIME STOP: 2:15 PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55		X	1%	100%
54			0%	99%
53			0%	99%
52			0%	99%
51			0%	99%
50			0%	99%
49			0%	99%
48			0%	99%
47		X	1%	99%
46		X	1%	98%
45		X	1%	97%
44		X X	2%	96%
43		X	1%	94%
42	X	X X	3%	93%
41	X X	X X X	5%	90%
40	X X X X	X X X X	8%	85%
39	X X X X X X	X	7%	77%
38	X X X X X	X X X X X	10%	70%
37	X X X X X	X X X X X X	11%	60%
36	X X X	X X X X X	8%	50%
35	X X X X	X	5%	42%
34	X X X X X X	X X	8%	37%
33	X X X	X X X X	7%	29%
32		X X X X	4%	22%
31	X		1%	18%
30	X	X X	3%	17%
29	X X	X X X	5%	14%
28	X X		2%	9%
27	X X		2%	7%
26	X		1%	5%
25			0%	4%
24		X	1%	4%
23	X		1%	3%
22	X		1%	2%
21			0%	1%
20			0%	1%
19			0%	1%
18			0%	1%
17		X	1%	1%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 101			100%	

LOCATION: Camino Viente Fuerte (Private Street)
Avenida Talega (West) to Via Agradar

ROAD CHARACTERISTICS:
 Width (ft): 45 Sidewalks/Driveways: Sidewalks -yes; Driveway - No
 No. of Lanes for Both Directions: 2 On-Street Parking: no
 Horizontal Alignment Design Speed: n/a Crosswalks: yes
 Vertical Alignment Design Speed: n/a Traffic Controls: Traffic signal at Cm. Viente and Ave. Talega (West)

ROADWAY CONDITIONS:
 Lateral Visibility: Limited Driveway Density: None
 Surface Condition: Good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 1,700 **SEGMENT LENGTH (ft):** 2,700

ACCIDENTS 3-YR TOTAL: 0 **ACCIDENT RATE:** 0.00 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %: <u>40</u> MPH	10 MPH PACE: <u>32 - 41</u> MPH
50TH %: <u>36</u> MPH	% IN PACE: <u>72%</u>
15TH %: <u>29</u> MPH	% OVER PACE: <u>10%</u>
AVERAGE SPEED: <u>36</u> MPH	% UNDER PACE: <u>18%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the street's location within residential tracts and limited line of sight from the street curvature, it is recommended to post a speed limit on this segment of Camino Viente Fuerte at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/13/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/13/14 TIME START: 3:07 PM TIME STOP: 4:00 PM
 DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40	X	X	2%	100%
39	X	X X	3%	98%
38	X X X X	X X X	7%	95%*
37	X X X X	X X X X	8%	88%*
36	X X X X	X X X X X	9%	80%*
35	X X X X X	X X X X	9%	71% P
34	X X X X	X X X X	8%	62% A
33	X X X	X X X X	7%	54% C
32	X X X X X	X X X X	9%	47% E
31	X X X X	X X X X	8%	38%*
30	X X X X	X X X	7%	30%*
29	X X X X X	X X X	8%	23%*
28	X X	X X X X	6%	15%
27	X	X X X	4%	9%
26	X	X	2%	5%
25			0%	3%
24		X	1%	3%
23			0%	2%
22			0%	2%
21	X X		2%	2%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 100			100%	

LOCATION: Camino Viento Fuerte (Private street)
Via Agradar to Avenida Talega (East)

ROAD CHARACTERISTICS:
 Width (ft): 45 Sidewalks/Driveways: Sidewalks -yes; Driveway - No
 No. of Lanes for Both Directions: 2 On-Street Parking: no
 Horizontal Alignment Design Speed: n/a Crosswalks: yes
 Vertical Alignment Design Speed: n/a Traffic Controls: Traffic signal at Cm. Viento and Ave. Talega (East)

ROADWAY CONDITIONS:
 Lateral Visibility: Limited Driveway Density: None
 Surface Condition: Good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 1,700 **SEGMENT LENGTH (ft):** 3,200

ACCIDENTS 3-YR TOTAL: 0 **ACCIDENT RATE:** 0.00 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %: <u>36</u> MPH	10 MPH PACE: <u>29 - 38</u> MPH
50TH %: <u>32</u> MPH	% IN PACE: <u>80%</u>
15TH %: <u>28</u> MPH	% OVER PACE: <u>5%</u>
AVERAGE SPEED: <u>33</u> MPH	% UNDER PACE: <u>15%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the speed survey and location of this street segment within a residential neighborhood, it is recommended to post a speed limit on this segment of Camino Viento Fuerte at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/13/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/21/14 TIME START: 11:00 AM TIME STOP: 12:30 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47		X	1%	100%
46			0%	100%
45	X		1%	100%
44			0%	99%
43		X	1%	99%
42		X	1%	99%
41	X		1%	98%
40	X X	X X X X X	4%	98%
39	X X	X X X X	3%	94%
38	X X X X	X X X X X	5%	91%
37	X X X X	X X X X X X	5%	87%*
36	X X X X	X X X X X	5%	82%*
35	X X X X X X X X X X X	X X X X X X X	9%	77%*
34	X X X X X X X X	X X X X X X	7%	68% P
33	X X X X X X X X	X X X X X X X X X X	9%	61% A
32	X X X X X X X X	X X X X X X X X X	9%	52% C
31	X X X X X X X X X X	X X X X X X X X X X X	10%	44% E
30	X X X X X X X X X X	X X X X X X X	9%	34%*
29	X X X X X X X X	X X X X X X X X	8%	25%*
28	X X X X X X X X	X X X X	6%	17%*
27	X X X X X X	X X X X	5%	11%
26	X X X	X X X X	4%	6%
25	X		1%	3%
24	X		1%	2%
23	X		1%	2%
22			0%	1%
21	X	X	1%	1%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%

TOTAL NUMBER OF VEHICLES = 200 100%

LOCATION: Camino Tierra Grande (Private Street)
Avenida Talega to Via Timon

ROAD CHARACTERISTICS:
 Width (ft): 44 - 52 Sidewalks/Driveways: Sidewalks - Yes; Driveway - No
 No. of Lanes for Both Directions: 2 On-Street Parking: no
 Horizontal Alignment Design Speed: n/a Crosswalks: no
 Vertical Alignment Design Speed: n/a Traffic Controls: Stop sign intersection @ Via Garona & Tierra Grande

ROADWAY CONDITIONS:
 Lateral Visibility: Good Driveway Density: None
 Surface Condition: Good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 2,700 SEGMENT LENGTH (ft): 1,650

ACCIDENTS 3-YR TOTAL: 0 ACCIDENT RATE: 0.00 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH APPROVED SPEED LIMIT: 35 MPH

85TH %:	<u>36</u>	MPH	10 MPH PACE:	<u>28 - 37</u>	MPH
50TH %:	<u>31</u>	MPH	% IN PACE:	<u>76%</u>	
15TH %:	<u>27</u>	MPH	% OVER PACE:	<u>14%</u>	
AVERAGE SPEED:	<u>33</u>	MPH	% UNDER PACE:	<u>11%</u>	

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the speed survey and the street's location within residential tracts, it is recommended to post a speed limit on this segment of Camino Tierra Grande at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/21/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/21/2014 TIME START: 9:00 AM TIME STOP: 11:00 AM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL %	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39		X X X X	3%	100%
38	X X X X	X X X	6%	97%*
37	X X X X	X X X X	6%	91%*
36	X X X X	X X X X X X X	10%	85%*
35	X X X X X X X	X X X X X	10%	75% P
34	X X X X X X X	X X X X X	10%	66% A
33	X X X X X X X	X X X X X X X	11%	56% C
32	X X X X	X X X X X X X	9%	45% E
31	X X X X	X X X X	6%	37%*
30	X X X X X X	X X X	7%	30%*
29	X X X X X X	X X X	7%	23%*
28	X X X X	X X X	6%	16%
27	X	X X	2%	10%
26	X X	X X	3%	8%
25		X X	2%	5%
24			0%	3%
23			0%	3%
22	X	X	2%	3%
21			0%	2%
20	X		1%	2%
19		X	1%	1%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 126			100%	

LOCATION: Camino Tierra Grande (Private street)
Via Timon to Camino Viento Fuerte

ROAD CHARACTERISTICS:

Width (ft): 44 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: no
 Horizontal Alignment Design Speed: n/a Crosswalks: no
 Vertical Alignment Design Speed: n/a Traffic Controls: 2-Way stops on all side streets.

ROADWAY CONDITIONS:

Lateral Visibility: Good Driveway Density: None
 Surface Condition: Good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 2,700

SEGMENT LENGTH (ft): 3,200

ACCIDENTS 3-YR TOTAL: 0
(1/1/2011 - 12/31/2013)

ACCIDENT RATE: 0.00 accidents per million
 Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH

APPROVED SPEED LIMIT: 35 MPH

85TH %: 36 MPH

10 MPH PACE: 29 - 38 MPH

50TH %: 32 MPH

% IN PACE: 81%

15TH %: 28 MPH

% OVER PACE: 3%

AVERAGE SPEED: 32 MPH

% UNDER PACE: 16%

COMMENTS AND/OR RECOMMENDATIONS:

Based on the speed survey and the street's location within residential tracts, it is recommended to post a speed limit on this segment of Camino Tierra Grande at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/21/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/14/14 TIME START: 11:05 AM TIME STOP: 1:00 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40	X		1%	100%
39			0%	99%
38			0%	99%
37			0%	99%
36	X		1%	99%
35			0%	98%
34	X	X	2%	98%
33	X		1%	96%
32	X X X	X X X	6%	95%
31	X X	X X	4%	89%
30	X X X	X X X X	7%	85%
29	X X X	X X X X	7%	78%
28	X X	X X X X	6%	72%
27	X X X	X X X	6%	66%
26	X X X X X	X X X X	9%	60%
25	X X X X	X X X X X	9%	51%
24	X X X X	X X X X	8%	42%
23	X X X X	X X X X	8%	34%
22	X X X X	X X X X	8%	26%
21	X X X X	X X X X X	9%	19%
20	X X X X	X X X X	8%	10%
19	X	X	2%	2%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 102			100%	

LOCATION: CALLE GUADALAJARA
Calle Nuevo to Ave. Vaquero

ROAD CHARACTERISTICS:
 Width (ft): 40-50 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 28 MPH Crosswalks: no
 Vertical Alignment Design Speed: 25 MPH Traffic Controls: stop sign at intersection with Ave. Vaquero and Nuevo

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 1,500 **SEGMENT LENGTH (ft):** 7,051

ACCIDENTS 3-YR TOTAL: 2 **ACCIDENT RATE:** 0.91 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	30	MPH	10 MPH PACE:	<u>20 - 29</u>	MPH
50TH %:	<u>25</u>	MPH	% IN PACE:	<u>76%</u>	
15TH %:	<u>20</u>	MPH	% OVER PACE:	<u>22%</u>	
AVERAGE SPEED:	<u>26</u>	MPH	% UNDER PACE:	<u>2%</u>	

COMMENTS AND/OR RECOMMENDATIONS:

Calle Guadalajara is a local residential collector street. Based on geometric design of the street, high density of residential driveway directly fronting the street and high volume of on-street parking on both sides, it is recommended to post the speed limit on this segment of Calle Guadalajara at 25 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/14/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/21/14 TIME START: 10:10 AM TIME STOP: 10:55 AM
 DAY OF WEEK: Friday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56		X	0%	100%
55			0%	100%
54		X X	1%	100%
53		X	0%	99%
52	X		0%	98%
51			0%	98%
50		X X	1%	98%
49	X X X	X X X	3%	97%
48	X X	X X X X X X	4%	94%
47	X X	X X X X X X	3%	90%
46	X X X X	X X X X X X X X X X	7%	87%
45	X	X X X X X X	3%	80%
44	X X X X X	X X X X X X	5%	77%*
43	X X X X X X	X X X X X X X X X X X X	8%	72%*
42	X X X X X X X X X X	X X X X X X X X X X	8%	64%*
41	X X X X X X X X	X X X X X X X X	7%	56%*
40	X X X X X X X X X X	X X X X	6%	50%*
39	X X X X X	X X X X X X X	5%	44%*
38	X X X X X X X X X X X X	X X X X X	7%	38%*
37	X X X X X X X X X X	X X X X X X	7%	31%*
36	X X X X X X X X X X X X	X X X X	7%	24%*
35	X X X X X X X X X X X X	X	5%	17%*
34	X X X X X X X		3%	12%*
33	X X X X X	X	3%	10%*
32	X X	X X X	2%	7%*
31	X X	X X X	2%	5%*
30	X	X	1%	3%*
29			0%	2%*
28	X		0%	2%*
27	X X		1%	1%*
26			0%	0%*
25	X		0%	0%*
24			0%	0%*
23			0%	0%*
22			0%	0%*
21			0%	0%*
20			0%	0%*
19			0%	0%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 229			100%	

LOCATION: Avenida Vista Hermosa
I-5 Southbound Off-Ramp to Via Turqueza

ROAD CHARACTERISTICS:
 Width (ft): 74 - 88
 No. of Lanes for Both Directions: 4 - 6
 Horizontal Alignment Design Speed: 45 MPH
 Vertical Alignment Design Speed: 50 MPH

Sidewalks/Driveways: yes
 On-Street Parking: no
 Crosswalks: yes
 Traffic Controls: Traffic signals on at the intersections with I-5 SB & NB ramps, Calle Frontera and Camino Faro.

ROADWAY CONDITIONS:
 Lateral Visibility: limited
 Surface Condition: good
 Driveway Density: low
 Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 27,250 **SEGMENT LENGTH (ft):** 4,688

ACCIDENTS 3-YR TOTAL: 31 **ACCIDENT RATE:** 1.17 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 45 MPH **APPROVED SPEED LIMIT:** 40 MPH

85TH %:	45 MPH	10 MPH PACE:	<u>35 - 44 MPH</u>
50TH %:	<u>40 MPH</u>	% IN PACE:	<u>65%</u>
15TH %:	<u>34 MPH</u>	% OVER PACE:	<u>23%</u>
AVERAGE SPEED:	<u>40 MPH</u>	% UNDER PACE:	<u>12%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street and its location in the proximity of the Marblehead Elementary School and Shorecliffs Middle School, it is recommended to post the speed limit on this segment of Avenida Vista Hermosa at 40 MPH.

OBSERVED BY: Edell Braucksiek, Transportation Studies, I **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 2/21/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/7/14 TIME START: 1:52 PM TIME STOP: 2:20 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56	X		0%	100%
55	X		0%	100%
54			0%	99%
53		X X	1%	99%
52		X	0%	98%
51		X X	1%	98%
50	X	X X	1%	97%
49	X X X X X X	X	3%	95%
48	X X X X X	X	3%	92%
47	X X X X X X	X X X X X X	6%	89%
46	X X X X X X X X	X X X	5%	83%
45	X X X X X X X X X X	X X X X X X X	8%	77%
44	X X	X X X X X X X	4%	69%
43	X X X X X X X	X X X X X X	6%	65%
42	X X X X X X	X X X X X X	6%	58%
41	X X X X X X X X	X X X X X X	7%	52%
40	X X X X X X X	X X X X X X X X	7%	45%
39	X X X X X X X X X X X X X X	X X X X	8%	38%
38	X X X X	X X X X X X	5%	29%
37	X X X X	X X X X X X X X	6%	24%
36	X X X X	X X X X X X X	5%	18%
35	X X X	X X X	3%	13%
34	X X X	X X X X X	4%	10%
33		X X X	1%	6%
32		X X	1%	4%
31		X X	1%	3%
30	X X	X	1%	2%
29		X	0%	1%
28		X	0%	0%
27			0%	0%
26			0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%

TOTAL NUMBER OF VEHICLES = 201 100%

LOCATION: AVENIDA VISTA HERMOSA
Via Turqueza to Camino Vera Cruz

ROAD CHARACTERISTICS:
 Width (ft): 74 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 50 MPH Traffic Controls: Traffic signals at Via Turqueza and at Vera Cruz

ROADWAY CONDITIONS:
 Lateral Visibility: limited Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 25,000 **SEGMENT LENGTH (ft):** 1,850

ACCIDENTS 3-YR TOTAL: 6 **ACCIDENT RATE:** 0.63 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 45 MPH **APPROVED SPEED LIMIT:** 40 MPH

85TH %:	<u>46</u> MPH	10 MPH PACE:	<u>38 - 47</u> MPH
50TH %:	<u>40</u> MPH	% IN PACE:	<u>64%</u>
15TH %:	<u>35</u> MPH	% OVER PACE:	<u>11%</u>
AVERAGE SPEED:	<u>41</u> MPH	% UNDER PACE:	<u>24%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on geometric design of the street, its location within the proximity of Vista Hermosa Sports Park and Marblehead Elementary School, it is recommended to post the speed limit on this segment of Avenida Vista Hermosa at 40 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/7/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/7/14 TIME START: 1:05 PM TIME STOP: 1:48 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60	X		0%	100%
59			0%	100%
58	X		0%	100%
57	X X		1%	99%
56		X	0%	98%
55	X	X X	1%	98%
54	X	X X	1%	96%
53		X	0%	95%
52	X X X	X X X	3%	94%
51	X X X X	X X	3%	91%
50	X X X X	X	2%	88%
49	X X X X X X X X X X	X	5%	86%
48	X X X X X X X X X X	X X X X X X	7%	81%
47	X X X X X X X X X X	X X X X X X	8%	73%
46	X X X X X X X X X X	X X X	6%	65%
45	X X X X X X X X	X X X X X X	7%	59%
44	X X X X X X X X	X X X X X X X	7%	52%
43	X X X X X X X X	X X X X X X X X X	8%	44%
42	X X X X X X	X X X X X X X	6%	36%
41	X X	X X X X X X X	4%	29%
40	X X X X	X X X X X X X X	6%	25%
39	X X X	X X X X X X X	5%	19%
38	X X	X X X X X X X	4%	14%
37	X X X	X X X X X X	4%	9%
36		X X X	1%	5%
35		X X	1%	3%
34		X	0%	2%
33	X		0%	2%
32		X	0%	1%
31		X	0%	1%
30	X		0%	0%
29			0%	0%
28			0%	0%
27			0%	0%
26			0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 201			100%	

LOCATION: AVENIDA VISTA HERMOSA
Camino Vera Cruz to Avenida La Pata

ROAD CHARACTERISTICS:
 Width (ft): 74 Sidewalks/Driveways: yes (sidewalk only)
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 50 MPH Traffic Controls: Traffic signals at Vera Cruz, Sport Park/Target and at La Pata

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: none
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 19,000 **SEGMENT LENGTH (ft):** 5,000

ACCIDENTS 3-YR TOTAL: 9 **ACCIDENT RATE:** 0.46 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

85TH %:	<u>49</u> MPH	10 MPH PACE:	<u>40 - 49</u> MPH
50TH %:	<u>43</u> MPH	% IN PACE:	<u>67%</u>
15TH %:	<u>38</u> MPH	% OVER PACE:	<u>14%</u>
AVERAGE SPEED:	<u>44</u> MPH	% UNDER PACE:	<u>19%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on geometric design of the street, its location in the proximity of the Sports Park and Target shopping center, it is recommended to post the speed limit on this segment of Avenida Vista Hermosa at 45 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/7/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/7/14 TIME START: 12:10 PM TIME STOP: 1:00 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51	X X		1%	100%
50	X X		1%	99%
49	X X		1%	98%
48	X X X X X		2%	97%
47	X X X	X X	2%	95%
46		X X	1%	92%
45	X X X X X X X X X X	X	5%	91%
44	X X X X X X X X		4%	86%
43	X X X X X X X X X	X X X	6%	82%
42	X X X X X X X X	X X X	5%	76%
41	X X X X X X X X X	X X	5%	70%
40	X X X X X X X X	X X X X X	6%	65%
39	X X X X X X X X X	X X X	6%	58%
38	X X X	X X X X X X X X X	6%	52%
37	X	X X X X X X X X X X	5%	46%
36	X X X X X X	X X X X X X X X X X X X	9%	41%
35	X X X X X	X X X X X X	5%	31%
34	X X	X X X X X X	4%	26%
33	X X X X X	X X X X X X X X X X X X X X	8%	22%
32	X	X X X X	2%	14%
31	X X	X X X	2%	11%
30	X		0%	9%
29		X X X X	2%	8%
28		X X X X X X	3%	6%
27	X	X X	1%	3%
26		X	0%	2%
25			0%	1%
24		X X	1%	1%
23		X	0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 201			100%	

LOCATION: AVENIDA VISTA HERMOSA
Avenida La Pata to Avenida Pico

ROAD CHARACTERISTICS:
 Width (ft): 104 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 50 MPH Traffic Controls: Traffic signals at Ave La Pata, Ave Talega, Camino La Pedriza and Ave Pico; Stop sign at via Marfino.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 9,000 **SEGMENT LENGTH (ft):** 5,160

ACCIDENTS 3-YR TOTAL: 9 **ACCIDENT RATE:** 0.93 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

85TH %:	<u>44</u> MPH	10 MPH PACE:	<u>33 - 42</u> MPH
50TH %:	<u>37</u> MPH	% IN PACE:	<u>62%</u>
15TH %:	<u>32</u> MPH	% OVER PACE:	<u>24%</u>
AVERAGE SPEED:	<u>38</u> MPH	% UNDER PACE:	<u>14%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the street's location within the proximity of Vista Del Mar Elementary/Middle School and the speed survey, it is recommended to post the speed limit on this segment of Avenida Vista Hermosa at 45 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/7/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/8/14 TIME START: 11:05 AM TIME STOP: 12:00 PM
 DAY OF WEEK: Wednesday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60	X X		1%	100%
59			0%	99%
58	X		0%	99%
57	X		0%	99%
56	X		0%	98%
55	X X		1%	98%
54	X X	X	1%	97%
53	X X X X	X X	3%	95%
52	X X X X X X	X X	4%	92%
51	X X X X X	X X	3%	88%*
50	X X X X	X X	3%	84%*
49	X X X X X X	X X X X	5%	81%*
48	X X X X X	X X X X X	5%	76%* P
47	X X X X X X X	X X X X X X	7%	71%* A
46	X X X X	X X X X X X X X X	7%	64%* C
45	X X X X X X X X X X X	X X X X X X X X	10%	57%* E
44	X X X X X	X X X X X X X	6%	47%*
43	X X X X	X X X X X X X X	6%	41%*
42	X X X X X X X X X X X	X X X X X X X X	9%	35%*
41	X X X X	X X X	3%	26%*
40		X X X X X X	3%	22%*
39	X X	X X X X X X	4%	19%*
38	X X	X X X X X X X X	5%	15%*
37	X	X X	1%	10%*
36		X X X X	2%	9%*
35		X X	1%	7%*
34	X	X X X	2%	6%*
33	X X	X	1%	4%*
32		X	0%	2%*
31	X X X		1%	2%*
30			0%	0%*
29			0%	0%*
28			0%	0%*
27			0%	0%*
26			0%	0%*
25			0%	0%*
24			0%	0%*
23		X	0%	0%*
22			0%	0%*
21			0%	0%*
20			0%	0%*
19			0%	0%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 203			100%	

LOCATION: AVENIDA LA PATA
Calle Saluda to East Avenida Pico

ROAD CHARACTERISTICS:
 Width (ft): 84 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 70 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 70 MPH Traffic Controls: Signalized intersection at Avenida Vista Hermosa and at Calle Saluda

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 5,500 **SEGMENT LENGTH (ft):** 5,200

ACCIDENTS 3-YR TOTAL: 7 **ACCIDENT RATE:** 1.18 accidents per million vehicles miles
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81

EXISTING SPEED LIMIT: 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

85TH %:	<u>50</u> MPH	10 MPH PACE:	<u>42 - 51</u> MPH
50TH %:	<u>44</u> MPH	% IN PACE:	<u>62%</u>
15TH %:	<u>38</u> MPH	% OVER PACE:	<u>12%</u>
AVERAGE SPEED:	<u>45</u> MPH	% UNDER PACE:	<u>26%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the street's access to residential establishments and hiking trails nearby, it is recommended to post the speed limit on this segment of Avenida La Pata at 45 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/8/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/8/14 TIME START: 10:05 AM TIME STOP: 11:00 AM

DAY OF WEEK: Wednesday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59	X		0%	100%
58	X		0%	100%
57			0%	99%
56	X X		1%	99%
55		X	0%	98%
54	X X X	X	2%	98%
53	X X X		1%	96%
52	X X X X	X	2%	94%
51	X X X	X	2%	92%
50	X X	X X	2%	90%
49	X X X X	X X	3%	88%
48	X X	X X	2%	85%
47	X X X X X X X X	X	4%	83%*
46	X X	X X X X X X	4%	78%*
45	X X X X X	X X X X X X X	6%	74%*
44	X X X X X X X X	X X X X X	6%	68%*
43	X X X	X X X X X X X X X	6%	62%*
42	X X X X X X X X X X X X X X	X X	8%	56%*
41	X X X X X X X X X	X X X X X X X X X	8%	48%*
40	X X	X X X X X X X X	5%	40%*
39	X X X X X X	X X X X X X	6%	35%*
38	X X	X X X X X X	4%	29%*
37	X X X X	X X X X X	4%	25%*
36	X X	X X X X X X	4%	20%*
35	X X X X	X	2%	16%*
34	X X	X X X X	3%	14%*
33	X	X	1%	11%*
32	X X	X X X X	3%	10%*
31		X X X X X	2%	7%*
30	X	X X	1%	4%*
29		X	0%	3%*
28		X	0%	2%*
27			0%	2%*
26			0%	2%*
25			0%	2%*
24		X	0%	2%*
23			0%	1%*
22	X	X	1%	1%*
21			0%	0%*
20			0%	0%*
19			0%	0%*
18		X	0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 201			100%	

LOCATION: AVENIDA LA PATA
Avenida Pico to Calle Del Cerro

ROAD CHARACTERISTICS:
 Width (ft): 84 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 70 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 70 MPH Traffic Controls: Traffic signals at Ave Pico, Traffic Devices and CI Amanecer; Stop signs at two side streets.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 9,000 **SEGMENT LENGTH (ft):** 3,570

ACCIDENTS 3-YR TOTAL: 7 **ACCIDENT RATE:** 1.05 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

85TH %:	<u>48</u>	MPH	10 MPH PACE:	<u>38 - 47</u>	MPH
50TH %:	<u>41</u>	MPH	% IN PACE:	<u>58%</u>	
15TH %:	<u>34</u>	MPH	% OVER PACE:	<u>17%</u>	
AVERAGE SPEED:	<u>42</u>	MPH	% UNDER PACE:	<u>25%</u>	

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the location of this street segment with access to industrial and commercial establishments, close to Steed park baseball field and hiking trail head, it is recommended to post the speed limit on this segment of Avenida La Pata at 45 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/8/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/8/14 TIME START: 9:00 AM TIME STOP: 10:00 AM

DAY OF WEEK: Wednesday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60		X	1%	100%
59			0%	100%
58			0%	100%
57	X		1%	100%
56			0%	99%
55			0%	99%
54			0%	99%
53	X	X	1%	99%
52	X	X X	2%	98%
51	X	X	1%	97%
50	X X	X X X X	3%	96%
49	X X X X	X X X X X X X X	6%	93%*
48	X X X	X X X X X X X	5%	87%*
47	X X X X X	X X X X X X X X	7%	82%*
46	X X X X X X X X X X	X X X X X X X X	9%	75% P
45	X X X X X	X X X X X X X X	7%	67% A
44	X X X X	X X X X X X X X X X X X X X X X	10%	60% C
43	X X X X X X X X X	X X X X X X X X	8%	51% E
42	X X X X X X	X X X X X	6%	43%*
41	X X X X X	X X X X X	5%	37%*
40	X X X X X	X X X X X X X	6%	32%*
39	X X X X X X	X X X	5%	26%
38	X X X X X X	X X	4%	22%
37	X X X X X X X X	X X	5%	18%
36	X X X		2%	13%
35	X X X X	X X X	4%	12%
34	X X		1%	8%
33	X X X X		2%	7%
32			0%	5%
31	X		1%	5%
30			0%	5%
29	X	X	1%	5%
28	X X X		2%	4%
27	X		1%	2%
26			0%	2%
25	X		1%	2%
24		X	1%	1%
23			0%	1%
22			0%	1%
21			0%	1%
20			0%	1%
19	X		1%	1%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%

TOTAL NUMBER OF VEHICLES = 200 100%

LOCATION: AVENIDA LA PATA
Calle Del Cerro to South City Limit

ROAD CHARACTERISTICS:
 Width (ft): 84 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: no
 Vertical Alignment Design Speed: 50 MPH Traffic Controls: Stop signs at 4 side streets.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 9,000 SEGMENT LENGTH (ft): 3,790

ACCIDENTS 3-YR TOTAL: 6 ACCIDENT RATE: 0.85 accidents per million vehicles miles
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.82

EXISTING SPEED LIMIT: 45 MPH APPROVED SPEED LIMIT: 45 MPH

85TH %:	<u>47</u> MPH	10 MPH PACE:	<u>40 - 49</u> MPH
50TH %:	<u>43</u> MPH	% IN PACE:	<u>67%</u>
15TH %:	<u>36</u> MPH	% OVER PACE:	<u>8%</u>
AVERAGE SPEED:	<u>43</u> MPH	% UNDER PACE:	<u>26%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the speed survey, direct access from the street to Steed park baseball field, County hiking trails, and dog park, it is recommended to post the speed limit on this segment of Avenida La Pata at 45 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/8/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/13/14 TIME START: 10:33 AM TIME STOP: 11:30 AM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50	X		1%	100%
49			0%	100%
48	X	X	1%	100%
47	X X X X X X	X	4%	99%
46	X X X	X X	3%	95%
45	X X X X X X X	X X X	5%	93% *
44	X X X X X	X X X X	5%	88% *
43	X X X X X X X	X X X X X X X X	8%	83% *
42	X X X X X	X X X X X X X X	7%	76% P
41	X X X X X X	X X X X	5%	69% A
40	X X X X X X	X X X X X X	6%	64% C
39	X X X X X X	X X X X X X	6%	58% E
38	X X X X X X X X	X X X X X X X X X	9%	52% *
37	X X X X X	X X X X X X X X	7%	44% *
36	X X X X X X X	X X X X X X	7%	37% *
35	X X X X X X	X X X X	5%	31%
34	X X	X X X X	3%	26%
33	X X X	X X X X X	4%	23%
32	X X X X	X X X X	4%	19%
31	X X X	X X X	3%	15%
30	X X	X X X X X X	4%	12%
29	X X	X X	2%	8%
28	X	X X	2%	6%
27		X X	1%	4%
26	X	X	1%	3%
25	X	X	1%	2%
24	X		1%	1%
23			0%	1%
22			0%	1%
21	X		1%	1%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: CAMINO LA PEDRIZA
Avenida Vista Hermosa to Via Amor

ROAD CHARACTERISTICS:
 Width (ft): 66 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 50 MPH Traffic Controls: Stop signs on Calle Pedriza at Avenida Vista Hermosa

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 2,000 **SEGMENT LENGTH (ft):** 4,150

ACCIDENTS 3-YR TOTAL: 4 **ACCIDENT RATE:** 2.32 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 40 MPH **APPROVED SPEED LIMIT:** 40 MPH

85TH %:	43	MPH	10 MPH PACE:	<u>36 - 45</u>	MPH
50TH %:	<u>37</u>	MPH	% IN PACE:	<u>62%</u>	
15TH %:	<u>31</u>	MPH	% OVER PACE:	<u>8%</u>	
AVERAGE SPEED:	<u>38</u>	MPH	% UNDER PACE:	<u>31%</u>	

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the location of this street segment near park, golf courses and residential zones, it is recommended to post the speed limit on Camino Pedriza at 40 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/13/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/13/14 TIME START: 11:31 AM TIME STOP: 12:30 PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49		X	1%	100%
48			0%	100%
47	X		1%	100%
46			0%	99%
45	X X X X	X X X X X X	5%	99%
44	X X X X X	X X X X X X X X	7%	94% *
43	X X X X	X X X X X X X	6%	88% *
42	X X X X	X X X X X X X	6%	82% *
41	X X X X X	X X X X X X	6%	77% P
40	X X X X X	X X X X X X X	6%	71% A
39	X X X X X X X	X X X X X X X X X	9%	65% C
38	X X X X X X X X	X X X X X X	7%	57% E
37	X X X X X X X X	X X X X X X	7%	50% *
36	X X X X X X	X X X X X X X	7%	43% *
35	X X X X X X	X X X X X	6%	36% *
34	X X X X X X X X	X X X X	6%	31%
33	X X X X X	X X X X X	5%	25%
32	X X X X X	X X X X X	5%	20%
31	X X X X X X	X X X X X	6%	15%
30	X X X X X	X X X X X	5%	9%
29	X X X X		2%	4%
28			0%	2%
27			0%	2%
26			0%	2%
25	X X		1%	2%
24	X		1%	1%
23			0%	1%
22	X		1%	1%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: CAMINO LA PEDRIZA
Via Amor to Avenida Pico

ROAD CHARACTERISTICS:
 Width (ft): 66 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 50 MPH Traffic Controls: Stop signs at nine side streets.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 2,000 **SEGMENT LENGTH (ft):** 4,400

ACCIDENTS 3-YR TOTAL: 2 **ACCIDENT RATE:** 1.10 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 40 MPH **APPROVED SPEED LIMIT:** 40 MPH

85TH %:	<u>42</u> MPH	10 MPH PACE:	<u>35 - 44</u> MPH
50TH %:	<u>37</u> MPH	% IN PACE:	<u>64%</u>
15TH %:	<u>31</u> MPH	% OVER PACE:	<u>6%</u>
AVERAGE SPEED:	<u>37</u> MPH	% UNDER PACE:	<u>31%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the location of this street segment near the park, golf courses and residential zones, it is recommended to post the speed limit on Camino Pedriza at 40 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/13/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/6/14 TIME START: 10:00 AM TIME STOP: 10:42 AM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43	X		0%	100%
42	X	X	1%	100%
41	X X	X	1%	99%
40	X	X	1%	97%
39	X	X	1%	96%
38		X X	1%	95%
37	X	X X	1%	94%
36	X X X X	X X X	3%	93%
35	X	X X X X X	3%	89%
34	X X X X	X X X X X X X	5%	86%
33	X X X X X X X	X X	4%	81%
32	X X X X X	X X X X X X X	6%	76%*
31	X X X X X X	X X X X	5%	70%*
30	X X X X X X X	X X X X X X X X X X	9%	65%*
29	X X X X X X X X X X X X X X X X	X X X X X X X	12%	56%* P
28	X X X X X X X X	X X X X X X X X X	8%	44%* A
27	X X X X X X X X	X X X X	6%	36%* C
26	X X X X X X X X X X X	X X X X X X	8%	30%* E
25	X X X X	X X X X X	4%	21%*
24	X X X	X X X X X X X X	5%	17%*
23	X X X X	X X X X X X	5%	11%*
22	X X X	X X X X X	4%	6%*
21		X X	1%	2%*
20	X	X	1%	1%*
19		X	0%	0%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*

TOTAL NUMBER OF VEHICLES = 202 100%

LOCATION: CAMINO DE LOS MARES
Interstate 5 to Avenida Vaquero

ROAD CHARACTERISTICS:

Width (ft): 84 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 6 On-Street Parking: no
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Traffic signals at 7 intersections.

ROADWAY CONDITIONS:

Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 31,000 SEGMENT LENGTH (ft): 3,580

ACCIDENTS 3-YR TOTAL: 86 ACCIDENT RATE: 3.74 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 35 MPH APPROVED SPEED LIMIT: 35 MPH

85TH %:	33	MPH	10 MPH PACE:	<u>23 - 32</u>	MPH
50TH %:	<u>28</u>	MPH	% IN PACE:	<u>70%</u>	
15TH %:	<u>23</u>	MPH	% OVER PACE:	<u>24%</u>	
AVERAGE SPEED:	<u>29</u>	MPH	% UNDER PACE:	<u>6%</u>	

COMMENTS AND/OR RECOMMENDATIONS:

Based on the street's direct access to several commercial centers, high accident rate and the 85th percentile speed, it is recommended to post the speed limit on this segment of Camino de los Mares at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/6/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/6/14 TIME START: 11:35 AM TIME STOP: 12:17 PM
 DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59		X	0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51	X	X	1%	100%
50	X X		1%	99%
49	X X		1%	98%
48	X X X X X X		3%	97%
47	X X X X X	X X X X X	5%	94%
46	X X X X X X	X X X	4%	89%
45	X X X X X X X	X X X	5%	85%
44	X X X X X X	X X X X X X	6%	80%
43	X X X X X X X X X X	X X X X X X X	8%	75%
42	X X X X X X X	X X X X X X X	7%	67%
41	X X X X X X	X X X X X X X X X X	8%	60%
40	X X X X X X X X	X X X X X	6%	52%
39	X X X X X X	X X X X X X X X X X X X	8%	46%
38	X X X X X X X X	X X X X X X X X X	8%	38%
37	X X X X X	X X X X X X X X X	7%	30%
36	X X X X X X	X X X X X	5%	23%
35	X X	X X X X X	3%	18%
34	X X X X X	X X X X X X	5%	15%
33	X	X X X X	2%	9%
32	X	X X	1%	7%
31		X X X X	2%	6%
30		X X X	1%	4%
29		X X	1%	2%
28		X	0%	1%
27		X	0%	1%
26			0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20		X	0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 212			100%	

LOCATION: CAMINO DE LOS MARES
Camino Vera Cruz to East City Limit

ROAD CHARACTERISTICS:
 Width (ft): 64-84 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Traffic signal at Cm Vera Cruz; Stop signs at 3 side streets.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 7,000 **SEGMENT LENGTH (ft):** 4,150

ACCIDENTS 3-YR TOTAL: 13 **ACCIDENT RATE:** 2.16 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

85TH %:	<u>45</u> MPH	10 MPH PACE:	<u>36 - 45</u> MPH
50TH %:	<u>39</u> MPH	% IN PACE:	<u>67%</u>
15TH %:	<u>34</u> MPH	% OVER PACE:	<u>15%</u>
AVERAGE SPEED:	<u>40</u> MPH	% UNDER PACE:	<u>18%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the speed survey, location of the street with direct access to several residential neighborhoods and the County hiking trailhead, it is recommended to post the speed limit on this segment of Camino de los Mares at 45 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/6/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/14/14 TIME START: 1:10 PM TIME STOP: 2:00 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51	X		0%	100%
50			0%	100%
49	X		0%	100%
48		X	0%	99%
47	X X X	X X	2%	99%
46	X X	X X	2%	96%
45	X	X X	1%	94%
44	X X X X X X	X X X X	5%	93%
43	X X X X	X X X X X	4%	88%
42	X X X X	X X X X X X X	5%	83%
41	X X X X	X X X X X X	5%	78%
40	X X X X X X X X X X X X X	X	7%	73%
39	X X X X X X X X X X X X	X X X X X X X X X X X X	11%	65%
38	X X X X X X X X X	X X X X X X X X X X X X	10%	54%
37	X X X X X X X X	X X X X X X X X X X X X	9%	43%
36	X X X X X X X X X X X X	X X X X X X X X X X X X	12%	34%
35	X X X X X X X X X X	X X X X X X X	8%	22%
34	X X X X	X X X X X X X X X	6%	14%
33	X	X X X	2%	7%
32	X	X	1%	5%
31	X X X X	X	2%	4%
30		X X	1%	2%
29	X		0%	1%
28			0%	0%
27			0%	0%
26	X		0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 201			100%	

LOCATION: CAMINO MIRA COSTA
Camino Capistrano to Camino De Estrella

ROAD CHARACTERISTICS:
 Width (ft): 64 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: Signalized intersection at Cam. De Estrella and stop sign at Cam. Capistrano

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 9,000 **SEGMENT LENGTH (ft):** 3,700

ACCIDENTS 3-YR TOTAL: 8 **ACCIDENT RATE:** 1.16 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	42	MPH	10 MPH PACE:	<u>34 - 43</u>	MPH
50TH %:	<u>37</u>	MPH	% IN PACE:	<u>80%</u>	
15TH %:	<u>34</u>	MPH	% OVER PACE:	<u>12%</u>	
AVERAGE SPEED:	<u>38</u>	MPH	% UNDER PACE:	<u>7%</u>	

COMMENTS AND/OR RECOMMENDATIONS:

Based on the street geometric design, access to several residential tracts and a park, it is recommended to post a speed limit on Camino Mira Costa at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/14/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/16/14 TIME START: 1:00 PM TIME STOP: 2:00 PM

DAY OF WEEK: Thursday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47		X	0%	100%
46	X		0%	100%
45	X X	X	1%	99%
44	X X X X X X X	X X X X	5%	98%
43	X X X X X X	X X X X X	5%	92%
42	X X X X X X X X X	X X X X X	7%	87%
41	X X X X X X X	X X	4%	80%
40	X X X X	X X X X X X X	5%	75%
39	X X X X X X X X	X X X X X	6%	70%
38	X X X X X X X X X X	X X X X X	7%	63%
37	X X X X X X X	X X X X X X X X	7%	56%
36	X X X X X X X X X	X X X X X X X X	8%	49%
35	X X X X X X X X X	X X X X X X X X X	9%	40%
34	X X X X X X X	X X X X X X X X X	8%	31%
33	X X X X X X X X X X	X X X X X X X X	9%	23%
32	X X	X X X X X X X	4%	14%
31	X X	X X X X X X	4%	10%
30		X X X X X	2%	6%
29		X X	1%	3%
28		X X	1%	2%
27		X X	1%	1%
26		X	0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%

TOTAL NUMBER OF VEHICLES = 202 100%

LOCATION: AVENIDA VISTA MONTANA
Calle Del Cerro to Calle Del Cerro

ROAD CHARACTERISTICS:

Width (ft): <u>44</u>	Sidewalks/Driveways: <u>yes</u>
No. of Lanes for Both Directions: <u>2</u>	On-Street Parking: <u>yes</u>
Horizontal Alignment Design Speed: <u>45 MPH</u>	Crosswalks: <u>yes</u>
Vertical Alignment Design Speed: <u>40 MPH</u>	Traffic Controls: <u>Signalized intersection at Cl. Del Cerro west and stop sign at Cl Del Cerro east.</u>

ROADWAY CONDITIONS:

Lateral Visibility: <u>good</u>	Driveway Density: <u>low</u>
Surface Condition: <u>good</u>	Ped. & Bicycle Activity: <u>low</u>

AVERAGE DAILY TRAFFIC: 5,000 **SEGMENT LENGTH (ft):** 9,110

ACCIDENTS 3-YR TOTAL: 8 **ACCIDENT RATE:** 0.85 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	<u>41</u>	MPH	10 MPH PACE:	<u>33 - 42</u> MPH
50TH %:	<u>36</u>	MPH	% IN PACE:	<u>72%</u>
15TH %:	<u>32</u>	MPH	% OVER PACE:	<u>13%</u>
AVERAGE SPEED:	<u>37</u>	MPH	% UNDER PACE:	<u>14%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the geometric design of the street with direct access to several residential tracts, Lobo Elementary School and Rancho San Clemente Park, it is recommended to post a speed limit on Avenida Vista Montana at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/16/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/16/14 TIME START: 9:00 AM TIME STOP: 10:00 AM
 DAY OF WEEK: Thursday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46	X		0%	100%
45			0%	100%
44			0%	100%
43		X	0%	100%
42	X X X X		2%	99%
41	X X X X X	X	3%	97%
40	X X X X X		2%	94%
39	X X X X		2%	92%
38	X X X X X X		3%	90%
37	X X X X	X X X X X X X	5%	87% *
36	X X X X X X X X	X X X X X X X X	8%	81% *
35	X X X X X X	X X X X X X	6%	73% *
34	X X X X X X X X X	X X X X X X X X	9%	67% P
33	X X X X X X	X X X X X X X	6%	58% A
32	X X X X X	X X X X X X X	6%	52% C
31	X X X X X X X X	X X X X X X X X X X	10%	46% E
30	X X X X X X X	X X X X X X X X X	8%	36% *
29	X X X X X X X X X	X X X X X X X X X	9%	28% *
28	X X X X X	X X X X X X	5%	19% *
27	X X X	X X X X X X	4%	13%
26	X X X X X	X X X X X X X	6%	9%
25	X	X	1%	3%
24		X	0%	2%
23	X	X	1%	1%
22			0%	0%
21			0%	0%
20	X		0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 203			100%	

LOCATION: CALLE NEGOCIO
Calle Amanecer to its terminus

ROAD CHARACTERISTICS:
 Width (ft): 44 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: Signalized intersection at Calle Amanecer

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 3,100 **SEGMENT LENGTH (ft):** 3,330

ACCIDENTS 3-YR TOTAL: 4 **ACCIDENT RATE:** 1.87 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %: <u>36</u> MPH	10 MPH PACE: <u>28 - 37</u> MPH
50TH %: <u>31</u> MPH	% IN PACE: <u>73%</u>
15TH %: <u>27</u> MPH	% OVER PACE: <u>13%</u>
AVERAGE SPEED: <u>33</u> MPH	% UNDER PACE: <u>13%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street, direct access to several industrial and office buildings, fire station and the post office, it is recommended to post a speed limit on Calle Negocio at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/16/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/22/14 TIME START: 10:00 AM TIME STOP: 11:00 AM
 DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37			0%	100%
36			0%	100%
35			0%	100%
34			0%	100%
33	X	X	1%	100%
32	X X	X	2%	99%
31			0%	98%
30	X X X X X X X	X X X	5%	98%
29	X X X X X X X		4%	93%*
28	X X X X X X X X X X	X X X X X X X X X X	11%	89%*
27	X X X X X X X X X X X X	X X X X X X X X	11%	79%*
26	X X X X X X X X X X X X X	X X X X X X X X X X X	12%	68%*
25	X X X X X X X X X X X X X X	X X X X X X X X X X X	12%	57%*
24	X X X X X X X X X X	X X X X X X X X X X	9%	45%*
23	X X X X X X X X X	X X X X X X X X X X X X X X X	13%	36%*
22	X X X X X X X X	X X X X X X X X	7%	24%*
21	X X X X	X X X X X X X X X X	7%	17%*
20	X X X X	X X X X X X X X X X	7%	10%*
19		X	1%	4%
18	X	X X	2%	3%
17	X		1%	2%
16		X	1%	1%
15	X		1%	1%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: SOUTH OLA VISTA
Avenida Del Mar to Avenida Valencia

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: Stop sign at Ave. Palizada and signalized at Del Mar

ROADWAY CONDITIONS:
 Lateral Visibility: limited Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 3,000 **SEGMENT LENGTH (ft):** 5,280

ACCIDENTS 3-YR TOTAL: 16 **ACCIDENT RATE:** 4.87 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	<u>27</u> MPH	10 MPH PACE:	<u>20 - 29</u> MPH
50TH %:	<u>24</u> MPH	% IN PACE:	<u>89%</u>
15TH %:	<u>20</u> MPH	% OVER PACE:	<u>8%</u>
AVERAGE SPEED:	<u>25</u> MPH	% UNDER PACE:	<u>4%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the street geometric design, access to various beaches and high density of driveways directly fronting the street, and high accident rate, it is recommended to post a speed limit on this segment of Ola Vista at 25 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/22/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/22/14 TIME START: 9:00 AM TIME STOP: 10:00 AM
 DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37			0%	100%
36			0%	100%
35			0%	100%
34			0%	100%
33	X		0%	100%
32	X X X X X X	X	3%	100%
31	X X X X X X X X	X	4%	97%
30	X X X X X X X X X X	X X X X X	7%	92%*
29	X X X X X X X X	X X	5%	85%*
28	X X X X X X X	X X X X X X	7%	80%*
27	X X X X X X X X X X	X X X X X X X X X	9%	74%*
26	X X X X X X X X X X	X X X X X X X X X X	9%	65%*
25	X X X X X X X X X	X X X X X X X X X X	9%	56%*
24	X X X X X X X X	X X X X X X X X X	7%	47%*
23	X X X X X X X	X X X X X X X X X X	8%	39%*
22	X X X X X X X X	X X X X X X X X X X	9%	31%*
21	X X X X X X X X X	X X X X X X X	7%	23%*
20	X X X X X X X	X X X X X X X	6%	15%*
19	X X X X X X	X X X X	4%	9%*
18	X	X X X X X X X	3%	5%*
17		X	0%	1%*
16			0%	1%*
15		X X	1%	1%*
TOTAL NUMBER OF VEHICLES = 230			100%	

LOCATION: SOUTH OLA VISTA
Avenida Valencia to Calle Califa

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: Stop sign at Valencia, Los Lobos Marinos, Riviera, and Calafia

ROADWAY CONDITIONS:
 Lateral Visibility: limited Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 1,800 **SEGMENT LENGTH (ft):** 4,224

ACCIDENTS 3-YR TOTAL: 9 **ACCIDENT RATE:** 5.71 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	<u>29</u> MPH	10 MPH PACE:	<u>21 - 30</u> MPH
50TH %:	<u>24</u> MPH	% IN PACE:	<u>77%</u>
15TH %:	<u>20</u> MPH	% OVER PACE:	<u>8%</u>
AVERAGE SPEED:	<u>25</u> MPH	% UNDER PACE:	<u>15%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the street geometric design, access to various beaches and high density of driveways directly fronting the street, high accident rate, it is recommended to post a speed limit on this segment of Ola Vista at 25 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/22/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/16/14 TIME START: 3:00 PM TIME STOP: 4:00 PM

DAY OF WEEK: Thursday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45		X	1%	100%
44			0%	99%
43			0%	99%
42			0%	99%
41			0%	99%
40			0%	99%
39		X	1%	99%
38			0%	98%
37	X	X X	3%	98%
36			0%	95%
35			0%	95%
34	X	X	2%	95%
33	X X X		3%	93%
32	X X X X X X	X	7%	90%*
31	X X X X X X	X X	8%	83%*
30	X X X X X X X	X X X	10%	75%*
29	X X X X X X	X X X X	10%	65%*
28	X X X X	X X X X X X	10%	55%*
27	X X X X	X X X X	8%	45%*
26	X X X X	X X X X X	9%	37%*
25	X X X X	X X X X X	9%	28%*
24	X X	X X X X	6%	19%*
23	X	X X X	4%	13%*
22	X	X X X	4%	9%*
21		X X	2%	5%*
20		X X	2%	3%*
19		X	1%	1%*
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 100			100%	

LOCATION: CALLE PASTADERO
Avenida Vista Montana to its terminus

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: no
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Stop sign at Avenida Vista Montana

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 500 **SEGMENT LENGTH (ft):** 2,990

ACCIDENTS 3-YR TOTAL: 0 **ACCIDENT RATE:** 0.00 accidents per million vehicles miles
(1/1/2011 - 12/31/2013)

EXISTING SPEED LIMIT: 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

85TH %:	<u>31</u> MPH	10 MPH PACE:	<u>23 - 32</u> MPH
50TH %:	<u>27</u> MPH	% IN PACE:	<u>81%</u>
15TH %:	<u>23</u> MPH	% OVER PACE:	<u>10%</u>
AVERAGE SPEED:	<u>28</u> MPH	% UNDER PACE:	<u>9%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street, speed survey and its access to several residential establishments, it is recommended to post a speed limit on on Calle Pastadero at 30 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/16/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/9/14 TIME START: 9:00 AM TIME STOP: 9:30 AM

DAY OF WEEK: Thursday WEATHER: Partly cloudy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57		X	0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49		X	0%	100%
48	X		0%	99%
47	X		1%	99%
46	X	X X	1%	98%
45	X X	X	1%	96%
44	X X X X	X X X	3%	95%
43	X X X X X	X X X	4%	91%
42	X X X X X	X X X X X	5%	87%
41	X X	X X X X X X	4%	82%
40	X X X X X	X X X X X X X	6%	78%*
39	X X X	X X X	3%	72%*
38	X X X X X X X X X X	X X X X X X X X X X	11%	69%*
37	X X X X X X X	X X X X X X	6%	58%* P
36	X X X X X X X X X X X X	X X X X X X X X X X	13%	51% A
35	X X X X X X X X	X X X X X X X X X X X	10%	39% C
34	X X X X X X	X X X X X X X X	7%	29% E
33	X X X	X X X X X X	4%	22%*
32	X X X X X X X X X	X X X X X	7%	18%*
31	X X X X X X X X	X X X	5%	11%*
30	X X X		1%	5%*
29		X	0%	4%
28	X		0%	3%
27	X	X X	1%	3%
26		X	0%	1%
25			0%	1%
24	X		0%	1%
23	X		0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 204			100%	

LOCATION: **AVENIDA PICO**
El Camino Real to Calle De Los Molinos

ROAD CHARACTERISTICS:
 Width (ft): 82 - 85 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Traffic signal lights at Los Molinos, Hermosa West and Reclamation Plant.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 12,000 SEGMENT LENGTH (ft): 2,620

ACCIDENTS 3-YR TOTAL: 8 ACCIDENT RATE: 1.23 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 35 MPH APPROVED SPEED LIMIT: 35 MPH

85TH %:	41 MPH	10 MPH PACE:	<u>31 - 40 MPH</u>
50TH %:	<u>35 MPH</u>	% IN PACE:	<u>73%</u>
15TH %:	<u>31 MPH</u>	% OVER PACE:	<u>22%</u>
AVERAGE SPEED:	<u>37 MPH</u>	% UNDER PACE:	<u>5%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the high volume of pedestrians and bicylists, location of the street with direct access to several commercial establishments, it is recommended to post a speed limit on this segment of Avenida Pico at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/9/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/9/14 TIME START: 9:35 AM TIME STOP: 10:05 AM

DAY OF WEEK: Thursday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39	X		0%	100%
38	X	X	1%	100%
37	X	X X	1%	99%
36	X	X X	1%	97%
35	X X X X	X X X	3%	96%
34	X X X	X X X	3%	92%
33	X X X X X X X	X X X X X X X	7%	89%
32	X X X X X X	X X X X X	5%	82%
31	X X X X X	X X X X X	5%	77%*
30	X X X X X X X X X	X X X X X X X X X	9%	72%*
29	X X X X X X X X X	X X X X X X X	8%	62%*
28	X X X X X X X X X	X X X X X X X X X	9%	54%*
27	X X X X X X X	X X X	4%	45%*
26	X X X X X X X X X	X X X X X X X X X	8%	41%*
25	X X X X X X X X X	X X X X X X X X X	8%	32%*
24	X X X X X X X X	X X X X X X X X	7%	24%*
23	X X X X X X X	X X X X X X X	6%	17%*
22	X X X X X	X X X X X X X X X X	7%	11%*
21	X X	X X	2%	4%*
20	X		0%	2%*
19		X	0%	2%*
18	X X	X	1%	1%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 201			100%	

LOCATION: AVENIDA PICO
Calle De Los Molinos to Calle Frontera/Avenida Presidio

ROAD CHARACTERISTICS:
 Width (ft): 102-134' Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 6-7 On-Street Parking: no
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Signalized at Los Molinos, I-5, High School Entrance/Exit and at Ave. Presidio

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 34,000 **SEGMENT LENGTH (ft):** 3,500

ACCIDENTS 3-YR TOTAL: 84 **ACCIDENT RATE:** 3.40 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	32	MPH	10 MPH PACE:	<u>22 - 31</u>	MPH
50TH %:	<u>27</u>	MPH	% IN PACE:	<u>72%</u>	
15TH %:	<u>22</u>	MPH	% OVER PACE:	<u>23%</u>	
AVERAGE SPEED:	<u>28</u>	MPH	% UNDER PACE:	<u>4%</u>	

COMMENTS AND/OR RECOMMENDATIONS:

Based on the high volume of pedestrians and bicylists, the street's direct access to San Clemente high school and commercial establishments, it is recommended to post a speed limit on this segment of Avenida Pico at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/9/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/9/14 TIME START: 10:10 AM TIME STOP: 11:00 AM

DAY OF WEEK: Thursday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60	X		0%	100%
59			0%	100%
58			0%	100%
57	X	X X	1%	100%
56	X	X	1%	98%
55			0%	97%
54	X X	X X	2%	97%
53	X X X		1%	95%
52	X X X	X X X	3%	94%
51	X X X X	X X	3%	91%
50	X X X X	X X X X X X X X	6%	88%
49	X X X X X	X X X	4%	81%
48	X X X X X X	X X X X X X	6%	78%
47	X X X	X X X X X X	5%	71%
46	X X X X X X X	X X X X X X X X	8%	66%
45	X X X X X	X X X X X X X X	7%	59%
44	X X X X X X X X X	X X X X X X X X	9%	52%
43	X X X X X X X X X X X X	X X X X X X	9%	43%
42	X X X X X X X X	X X X X X X X X	8%	34%
41	X X X X X X X	X X X X X X X	7%	26%
40	X X	X X X	2%	20%
39	X X X X X X	X X X X X	5%	17%
38	X X X X X	X X X	4%	12%
37	X X X X	X	2%	8%
36	X	X X X	2%	5%
35	X	X	1%	3%
34	X	X	1%	2%
33			0%	1%
32			0%	1%
31		X	0%	1%
30			0%	1%
29		X	0%	1%
28			0%	0%
27			0%	0%
26			0%	0%
25			0%	0%
24	X		0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 205			100%	

LOCATION: AVENIDA PICO
Calle Frontera / Avenida Presidio to Calle Amanecer

ROAD CHARACTERISTICS:
 Width (ft): 102 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 6 On-Street Parking: no
 Horizontal Alignment Design Speed: 55 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Traffic signals at Ave. Presidio, Cl Del Cerro, and Cl Amanecer

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 37,000 **SEGMENT LENGTH (ft):** 3,500

ACCIDENTS 3-YR TOTAL: 17 **ACCIDENT RATE:** 0.63 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

85TH %: <u>49</u> MPH	10 MPH PACE: <u>41 - 50</u> MPH
50TH %: <u>43</u> MPH	% IN PACE: <u>68%</u>
15TH %: <u>38</u> MPH	% OVER PACE: <u>12%</u>
AVERAGE SPEED: <u>45</u> MPH	% UNDER PACE: <u>20%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street with on-street bicycle lane, access to San Clemente High School and shopping center, it is recommended to post a speed limit on this segment of Avenida Pico at 45 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/9/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/9/14 TIME START: 11:05 AM TIME STOP: 11:40 AM

DAY OF WEEK: Thursday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58	X		0%	100%
57	X		0%	100%
56			0%	99%
55			0%	99%
54	X X		1%	99%
53	X X		1%	98%
52	X X		1%	97%
51	X		0%	96%
50	X	X	1%	96%
49	X X X X X		2%	95%
48	X X X X	X X	3%	92%
47	X X X X X	X	3%	89%
46	X X X X X X X X	X X X	5%	86%
45	X X X	X X X	3%	81%
44	X X X X X	X X X	4%	78%
43	X X X X X X	X X X X	5%	74%
42	X X X X X X X	X X	4%	69%
41	X X X X X X	X X X	4%	65%
40	X X X X X	X X X X	4%	61%
39	X X X X X X	X X X	4%	56%
38	X X X X X	X X X X X	5%	52%
37	X X X X X X	X X X X X X	6%	47%
36	X X	X X X X X	3%	41%
35	X X X	X X X X X X	4%	38%
34	X X	X X X	2%	33%
33	X	X X X X X X X X X X X X	7%	31%
32	X X X X X X X X	X X X X X X X X	7%	24%
31	X	X X	1%	17%
30	X X	X X X X X X X X	5%	16%
29		X X X X X X X	3%	11%
28	X	X X X	2%	7%
27		X	0%	5%
26	X X	X X	2%	5%
25	X		0%	3%
24	X	X X	1%	2%
23			0%	1%
22		X	0%	1%
21			0%	0%
20		X	0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 206			100%	

LOCATION: AVENIDA PICO
Calle Amanecer to Avenida La Pata

ROAD CHARACTERISTICS:
 Width (ft): 102 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 6 On-Street Parking: no
 Horizontal Alignment Design Speed: 55 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Signalized at Calle Amanecer and Ave. Pico

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 24,000 **SEGMENT LENGTH (ft):** 3,550

ACCIDENTS 3-YR TOTAL: 37 **ACCIDENT RATE:** 2.09 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

85TH %:	45 MPH	10 MPH PACE:	<u>32 - 41</u> MPH
50TH %:	<u>37</u> MPH	% IN PACE:	<u>48%</u>
15TH %:	<u>30</u> MPH	% OVER PACE:	<u>35%</u>
AVERAGE SPEED:	<u>38</u> MPH	% UNDER PACE:	<u>17%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the design of the street and the speed survey, it is recommended to post a speed limit on this segment of Avenida Pico at 45 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/9/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/9/14 TIME START: 11:45 AM TIME STOP: 12:17 PM

DAY OF WEEK: Thursday WEATHER: Overcast

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60	X		0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56	X	X X X	2%	100%
55	X	X	1%	98%
54	X X X X	X	2%	97%
53	X X X	X X	2%	94%
52	X X X X X X X X	X X X X	6%	92%
51	X X X	X X X	3%	86%
50	X X X X	X X X X X X X	5%	83%
49	X X X X X X X X X	X X X X X	7%	78%
48	X X X X X X X	X X X X	5%	71%
47	X X X X X X X X X	X X X X X X	7%	65%
46	X X X X X X X X X X	X X X	6%	58%
45	X X X X X	X X X X X X X X X X	7%	52%
44	X X X X X X X X X X	X X X X X X X X X X	9%	44%
43	X X X X X	X X X X X	5%	36%
42	X X X X	X X X X X X	5%	31%
41	X X	X X X X X	3%	26%
40	X X X X	X X X X X X	5%	22%
39	X X X X	X X X X X	4%	18%
38	X X X X X X	X X X	4%	13%
37	X	X X X X X X	3%	9%
36		X X	1%	5%
35	X	X	1%	4%
34	X X	X X	2%	3%
33		X X	1%	1%
32			0%	0%
31	X		0%	0%
30			0%	0%
29			0%	0%
28			0%	0%
27			0%	0%
26			0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 205			100%	

LOCATION: AVENIDA PICO
Avenida La Pata to Avenida Vista Hermosa

ROAD CHARACTERISTICS:
 Width (ft): 102 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 6 On-Street Parking: no
 Horizontal Alignment Design Speed: 65 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 65 MPH Traffic Controls: Signalized at Ave La Pata and at Ave Vista Hermosa

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 14,000 **SEGMENT LENGTH (ft):** 2,880

ACCIDENTS 3-YR TOTAL: 7 **ACCIDENT RATE:** 0.84 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 50 MPH **APPROVED SPEED LIMIT:** 50 MPH

85TH %:	<u>51</u> MPH	10 MPH PACE:	<u>43 - 52</u> MPH
50TH %:	<u>44</u> MPH	% IN PACE:	<u>61%</u>
15TH %:	<u>38</u> MPH	% OVER PACE:	<u>8%</u>
AVERAGE SPEED:	<u>45</u> MPH	% UNDER PACE:	<u>31%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the geometric design of the street and the speed survey, it is recommended to post a speed limit on this segment of Avenida Pico at 50 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/9/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/9/14 TIME START: 12:22 PM TIME STOP: 1:00 PM

DAY OF WEEK: Thursday WEATHER: Overcast

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60	X X		1%	100%
59			0%	99%
58	X		1%	99%
57		X	1%	99%
56	X	X	1%	98%
55	X	X X	2%	97%
54		X	1%	96%
53	X X	X X X	3%	95%
52	X X X X	X X	3%	93%
51	X X	X X X X X	4%	90%
50	X	X X X X X X	4%	86%
49	X	X X X X X X	4%	83%
48	X	X X X X X X X X X X	6%	79%
47	X X X X X X X	X X	5%	73%
46	X X X X	X X X X X X	5%	69%
45	X X X X X X X X X X	X X X	7%	64%
44	X X X X X	X X X X X X	6%	57%
43	X X X X X X	X X X X X	6%	52%
42	X X X X X X X X X X	X X X X X X	8%	46%
41	X X X X X X	X X X X X X X X X X	8%	39%
40	X X X X X X X	X X X X	6%	31%
39	X X X X	X X X	4%	25%
38	X X X X X X X	X X X	5%	22%
37	X X		1%	17%
36	X X X	X X X	3%	16%
35	X X X X X		3%	13%
34	X X X		2%	10%
33		X X	1%	9%
32	X	X	1%	8%
31	X X	X	2%	7%
30	X	X X X	2%	5%
29			0%	3%
28		X X	1%	3%
27	X X		1%	2%
26		X	1%	1%
25		X	1%	1%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: AVENIDA PICO
Avenida Vista Hermosa to East City Limit

ROAD CHARACTERISTICS:
 Width (ft): 102 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 - 6 On-Street Parking: no
 Horizontal Alignment Design Speed: 65 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 65 MPH Traffic Controls: Traffic signals at Ave Vista Hermosa, CI Alicante, and Celosia.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 8,000 **SEGMENT LENGTH (ft):** 5,149

ACCIDENTS 3-YR TOTAL: 5 **ACCIDENT RATE:** 0.59 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 50 MPH **APPROVED SPEED LIMIT:** 50 MPH

85TH %: <u>49</u> MPH	10 MPH PACE: <u>40 - 49</u> MPH
50TH %: <u>42</u> MPH	% IN PACE: <u>58%</u>
15TH %: <u>36</u> MPH	% OVER PACE: <u>18%</u>
AVERAGE SPEED: <u>43</u> MPH	% UNDER PACE: <u>25%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the geometric design of the street and the speed survey, it is recommended to post a speed limit on this segment of Avenida Pico at 50 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/9/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/14/14 TIME START: 10:05 AM TIME STOP: 11:00 AM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47	X		1%	100%
46	X	X	2%	99%
45			0%	97%
44			0%	97%
43	X X X X X		5%	97%
42	X X X		3%	92%
41	X X X	X	4%	89%
40	X X X	X	4%	85%
39	X X X X X	X X X X X X	11%	81%*
38	X X X X	X X X	7%	70%*
37	X X X X	X X X X	8%	63%*
36	X X X X	X X X X	8%	55%* P
35	X X	X X X X X	7%	47%* A
34	X X X	X X X X	7%	40%* C
33	X X X X	X X X X X	9%	33%* E
32	X X	X X X X	6%	24%*
31	X X	X X X X X	7%	18%*
30	X X X	X X X X	7%	11%*
29	X	X	2%	4%
28		X	1%	2%
27		X	1%	1%
26			0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 100			100%	

LOCATION: PORTICO DEL NORTE / PORTICO DEL SUR
Camino De Los Mares west to Camino De Los Mares east

ROAD CHARACTERISTICS:
 Width (ft): 40
 No. of Lanes for Both Directions: 2
 Horizontal Alignment Design Speed: 35 MPH
 Vertical Alignment Design Speed: 35 MPH
 Sidewalks/Driveways: yes
 On-Street Parking: yes (limited)
 Crosswalks: yes
 Traffic Controls: Signalized at Cam. De Los Mares (east)

ROADWAY CONDITIONS:
 Lateral Visibility: limited
 Surface Condition: good
 Driveway Density: low
 Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 500 **SEGMENT LENGTH (ft):** 5,450

ACCIDENTS 3-YR TOTAL: 2 **ACCIDENT RATE:** 3.54 accidents per million vehicles miles
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	40 MPH	10 MPH PACE:	<u>30 - 39</u> MPH
50TH %:	<u>35</u> MPH	% IN PACE:	<u>77%</u>
15TH %:	<u>30</u> MPH	% OVER PACE:	<u>19%</u>
AVERAGE SPEED:	<u>36</u> MPH	% UNDER PACE:	<u>4%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the street geometric design, the street location within a residential neighborhood and a high accident rate, it is recommended to post a speed limit on this segment of Portico Del Sur/Norte at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/14/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/21/14 TIME START: 3:00 PM TIME STOP: 4:00 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42	X		1%	100%
41	X		1%	100%
40	X	X X	2%	99%
39		X X	1%	98%
38	X X X X	X X X	4%	97%
37	X X X X	X X X	4%	93%
36	X X X X X X X X	X X X X X X X X	9%	90%*
35	X X X X X X	X X X X X X X	7%	81%*
34	X X X X X X X X X X X X X X	X X X X X X X X X X	12%	75%*
33	X X X X X	X X X X X X X X	7%	63%* P
32	X X X X X X X X X	X X X X X X X X X	9%	56%* A
31	X X X X X X X X X X X	X X X X X X X X X X X	11%	47%* C
30	X X X X X X X X X	X X X X X X X	8%	36%* E
29	X X X X X X X X X	X X X X X X X	8%	29%*
28	X X X X X X X X	X X X X X X X X X	8%	21%*
27	X X X X X X X	X X X X X X	6%	13%*
26	X	X X X X	3%	8%*
25		X X X X	2%	5%*
24	X	X	1%	3%*
23		X	1%	2%*
22	X X		1%	2%*
21			0%	1%*
20	X		1%	1%*
19			0%	0%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: AVENIDA DEL PRESIDENTE
Avenida Valencia to Avenida Califia

ROAD CHARACTERISTICS:

Width (ft): <u>32</u>	Sidewalks/Driveways: <u>yes</u>
No. of Lanes for Both Directions: <u>2</u>	On-Street Parking: <u>yes</u> (limited)
Horizontal Alignment Design Speed: <u>35 MPH</u>	Crosswalks: <u>yes</u>
Vertical Alignment Design Speed: <u>40 MPH</u>	Traffic Controls: <u>11 stops on the side streets from Avenida Valencia to Avenida Califia.</u>

ROADWAY CONDITIONS:

Lateral Visibility: <u>good</u>	Driveway Density: <u>medium</u>
Surface Condition: <u>good</u>	Ped. & Bicycle Activity: <u>medium</u>

AVERAGE DAILY TRAFFIC: 1,350 **SEGMENT LENGTH (ft):** 4,000

ACCIDENTS 3-YR TOTAL: 4 **ACCIDENT RATE:** 3.57 accidents per million
(1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

85TH %: <u>35</u> MPH	10 MPH PACE: <u>27 - 36</u> MPH
50TH %: <u>31</u> MPH	% IN PACE: <u>82%</u>
15TH %: <u>27</u> MPH	% OVER PACE: <u>11%</u>
AVERAGE SPEED: <u>32</u> MPH	% UNDER PACE: <u>8%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the high density of driveways fronting the street, narrow street width, high volume of bicyclists, and school route to Concordia Elementary school, it is recommended to post a speed limit on Avenida Del Presidente at 30 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/21/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/21/14 TIME START: 12:45 PM TIME STOP: 1:45 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39		X	0%	100%
38			0%	100%
37			0%	100%
36		X X	1%	100%
35			0%	99%
34		X X X X X X	3%	99%
33		X X X X	2%	96%
32	X X X X X X	X X X X X X X X	7%	94%*
31	X X X X X X	X X X X X X X X X X	9%	86%*
30	X X X X X X X	X X X X X X X X X X	9%	78%*
29	X X X X X X X X	X X X X X X X X X X	10%	69% P
28	X X X X X X X X	X X X X X X X X X X X X	14%	59% A
27	X X X X X X X	X X X X X X	6%	46% C
26	X X X X X X X	X X X X X X	6%	40% E
25	X X X X X X X X X X	X X X X X X	8%	33%*
24	X X X X X X	X X X X X	5%	25%*
23	X X X X X X X	X X X X	5%	20%*
22	X X X		1%	14%
21	X X X X X X X	X	4%	13%
20	X X X X X X X		3%	9%
19	X X X		1%	6%
18	X X X X	X X	3%	4%
17	X		0%	1%
16		X X	1%	1%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 207			100%	

LOCATION: AVENIDA DEL PRESIDENTE
Avenida Califa to Cristianitos Road

ROAD CHARACTERISTICS:

Width (ft): <u>32</u>	Sidewalks/Driveways: <u>yes</u>
No. of Lanes for Both Directions: <u>2</u>	On-Street Parking: <u>yes</u> (limited)
Horizontal Alignment Design Speed: <u>35 MPH</u>	Crosswalks: <u>yes</u>
Vertical Alignment Design Speed: <u>40 MPH</u>	Traffic Controls: <u>11 stops from Avenida Valencia to Avenida Califa.</u>

ROADWAY CONDITIONS:

Lateral Visibility: <u>good</u>	Driveway Density: <u>medium</u>
Surface Condition: <u>good</u>	Ped. & Bicycle Activity: <u>medium</u>

AVERAGE DAILY TRAFFIC: 3,500

SEGMENT LENGTH (ft): 5,500

ACCIDENTS 3-YR TOTAL: 12
(1/1/2011 - 12/31/2013)

ACCIDENT RATE: 3.01 accidents per million
Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 30 MPH

APPROVED SPEED LIMIT: 30 MPH

85TH %: 30 MPH

10 MPH PACE: 23 - 32 MPH

50TH %: 27 MPH

% IN PACE: 79%

15TH %: 22 MPH

% OVER PACE: 6%

AVERAGE SPEED: 27 MPH

% UNDER PACE: 14%

COMMENTS AND/OR RECOMMENDATIONS:

Based on the high density of driveways fronting the street, narrow street width, high volume of bicyclists, and school route to Concordia Elementary school, it is recommended to post a speed limit on Avenida Del Presidente at 30 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/21/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 3/25/14 TIME START: 12:30 PM TIME STOP: 1:45 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED near 404 Avenida Presidio		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37		X	1%	100%
36	X	X	2%	99%
35		X X X	3%	97%
34			0%	94%
33	X	X X X	4%	94%
32	X X X	X X X X X	9%	90%
31	X X X X X	X X X X X	11%	82%
30	X X	X X X	5%	71%
29	X X X X X X	X X X	9%	66%
28	X X X X X	X	6%	57%
27	X X X	X X X X X	9%	51%
26	X X X X X X X	X X X X	11%	43%
25	X X X X	X X X	7%	32%
24	X X X X X X	X X X X	10%	25%
23	X X X	X X X	6%	16%
22	X X X	X	4%	10%
21	X	X X	3%	6%
20			0%	3%
19			0%	3%
18	X		1%	3%
17	X X		2%	2%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 103			100%	

LOCATION: AVENIDA PRESIDIO
El Camino Real to Calle Escuela

ROAD CHARACTERISTICS:

Width (ft): <u>40-64</u>	Sidewalks/Driveways: <u>yes</u>
No. of Lanes for Both Directions: <u>2-4</u>	On-Street Parking: <u>yes</u>
Horizontal Alignment Design Speed: <u>30 MPH</u>	Crosswalks: <u>yes</u>
Vertical Alignment Design Speed: <u>25 MPH</u>	Traffic Controls: <u>Traffic signals at El Camino Real and I-5 fwy. Stop signs at 23 intersections.</u>

ROADWAY CONDITIONS:

Lateral Visibility: <u>limited</u>	Driveway Density: <u>high</u>
Surface Condition: <u>good</u>	Ped. & Bicycle Activity: <u>medium</u>

AVERAGE DAILY TRAFFIC: 7,800 **SEGMENT LENGTH (ft):** 8,976

ACCIDENTS 3-YR TOTAL: 26 **ACCIDENT RATE:** 1.79 accidents per million vehicles miles
(1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	<u>31</u>	MPH	10 MPH PACE:	<u>23 - 32</u> MPH
50TH %:	<u>26</u>	MPH	% IN PACE:	<u>81%</u>
15TH %:	<u>23</u>	MPH	% OVER PACE:	<u>10%</u>
AVERAGE SPEED:	<u>28</u>	MPH	% UNDER PACE:	<u>10%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street, the high density of residential driveways directly fronting the street, and the limited sight distance, it is recommended to post a speed limit on this segment of Avenida Presidio at 25 MPH.

OBSERVED BY: Edell Braucksiek, Transportation Studies, I **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 3/25/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 3/24/14 TIME START: 11:50 AM TIME STOP: 12:30 PM
 DAY OF WEEK: Monday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED (btw CI Escuela to CI Miguel)		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37			0%	100%
36			0%	100%
35	X	X	2%	100%
34	X	X	2%	98%
33	X X	X	3%	96%
32	X X X X	X X	5%	94%*
31	X X X	X X X	5%	89%*
30	X X X X X X X X	X X X	11%	83%*
29	X X X X	X X X	6%	73%*
28	X X X X X X X X	X X X X X X	14%	67%*
27	X X X X X X	X X X X X X X X	13%	53%*
26	X X X X X	X X X X X X X X	12%	39%*
25	X X X X X X	X X X X X X	11%	27%*
24	X X	X X X X	5%	17%*
23	X X X X	X X X	6%	11%*
22		X	1%	5%*
21	X X	X	3%	4%*
20	X X		2%	2%*
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 114			100%	

LOCATION: AVENIDA PRESIDIO
Calle Escuela to Avenida Pico

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 25 MPH Traffic Controls: Traffic signal light at Ave Pico.

ROADWAY CONDITIONS:
 Lateral Visibility: limited Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 5,800 **SEGMENT LENGTH (ft):** 1,745

ACCIDENTS 3-YR TOTAL: 6 **ACCIDENT RATE:** 2.86 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	30	MPH	10 MPH PACE:	<u>23 - 32</u>	MPH
50TH %:	<u>26</u>	MPH	% IN PACE:	<u>89%</u>	
15TH %:	<u>23</u>	MPH	% OVER PACE:	<u>6%</u>	
AVERAGE SPEED:	<u>27</u>	MPH	% UNDER PACE:	<u>5%</u>	

COMMENTS AND/OR RECOMMENDATIONS:
 Based on geometric design of the street, limited line of sight distance, high pedestrian volume, location of San Clemente high school and shopping center driveways fronting the street, it is recommended to post a speed limit on this segment of Avenida Presidio at 25 MPH.

OBSERVED BY: Edell Braucksiek, Transportation Studies, I **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 3/24/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/13/14 TIME START: 12:35 PM TIME STOP: 1:35 PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40	X		1%	100%
39			0%	99%
38			0%	99%
37	X	X	2%	99%
36			0%	97%
35	X		1%	97%
34		X	1%	96%
33	X	X X X X X X	7%	95%*
32	X X	X X X X X	7%	88%*
31	X X X X X X	X X X X	10%	81%*
30	X X X X X X X X	X X X X X	13%	71%*
29	X X X X X	X X X	8%	58%*
28	X X X X	X X X X X	9%	50%*
27	X X X X X	X X X X	9%	41%*
26	X X X X X	X X	7%	32%*
25	X X	X X X X	6%	25%*
24	X X X	X X X X	7%	19%*
23	X X	X X	4%	12%*
22		X	1%	8%*
21	X	X	2%	7%*
20	X X	X	3%	5%*
19			0%	2%*
18	X		1%	2%*
17		X	1%	1%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 100			100%	

LOCATION: PUERTA DEL SOL / AVENIDA VISTA HERMOSA
Avenida Pico to Avenida Pico

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 1 On-Street Parking: yes
 Horizontal Alignment Design Speed: 35 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: Signalized at Avenida Vista Hermosa, and at Alicante

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 2,000 **SEGMENT LENGTH (ft):** 2,500

ACCIDENTS 3-YR TOTAL: 0 **ACCIDENT RATE:** 0.00 accidents per million vehicles miles
(1/1/2011 - 12/31/2013)

EXISTING SPEED LIMIT: 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

85TH %:	<u>31</u> MPH	10 MPH PACE:	<u>24 - 33</u> MPH
50TH %:	<u>28</u> MPH	% IN PACE:	<u>83%</u>
15TH %:	<u>23</u> MPH	% OVER PACE:	<u>5%</u>
AVERAGE SPEED:	<u>28</u> MPH	% UNDER PACE:	<u>12%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the high volume of pedestrian, the street's location within the proximity of Vista Del Mar Elementary School and commercial establishments and the speed survey, it is recommended to post the speed limit on this segment of Puerta del Sol/Avenida Vista Hermosa at 30 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/13/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/10/14 TIME START: 2:15 PM TIME STOP: 3:00 PM

DAY OF WEEK: Friday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60	X X		1%	100%
59			0%	99%
58	X X		1%	99%
57	X		0%	98%
56	X X X		1%	98%
55	X X	X X	2%	96%
54	X	X	1%	94%
53	X X X X X X X	X	4%	93%
52	X X	X	1%	89%
51	X X X X X X X	X X	4%	88%
50	X X X X	X X X X X	4%	83%
49	X X X X X	X X X X X X X	6%	79%
48	X X X X X X X	X X X X X X X X X	8%	73%
47	X X X X X X X X X	X X X X X X X	8%	65%
46	X X X X X	X X X X X X X	6%	57%
45	X X X X X X X X X X X X X	X X X X X X	9%	51%
44	X X X X X X X X X X X X X	X X X X X X X X X X X	10%	42%
43	X X X X	X X X X X X X X X X X	7%	32%
42	X X X X	X X X X X X X X X X X X	7%	25%
41	X X X X X X X	X X X X	5%	17%
40		X X X	1%	12%
39	X X	X X	2%	11%
38	X	X X X	2%	9%
37	X	X	1%	7%
36	X X		1%	6%
35		X X	1%	5%
34		X X X	1%	4%
33		X X X	1%	2%
32		X	0%	1%
31		X	0%	0%
30			0%	0%
29			0%	0%
28			0%	0%
27			0%	0%
26			0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 202			100%	

LOCATION: EL CAMINO REAL
Camino Capistrano to Avenida Estacion

ROAD CHARACTERISTICS:
 Width (ft): 56-82 Sidewalks/Driveways: no
 No. of Lanes for Both Directions: 2-3 On-Street Parking: yes
 Horizontal Alignment Design Speed: n/a Crosswalks: yes
 Vertical Alignment Design Speed: n/a Traffic Controls: Signalized at Cam. Capistrano, and at Cam. San Clemente

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 16,000 **SEGMENT LENGTH (ft):** 5,518

ACCIDENTS 3-YR TOTAL: 20 **ACCIDENT RATE:** 1.09 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

85TH %:	50	MPH	10 MPH PACE:	<u>41 - 50</u>	MPH
50TH %:	<u>45</u>	MPH	% IN PACE:	<u>71%</u>	
15TH %:	<u>40</u>	MPH	% OVER PACE:	<u>17%</u>	
AVERAGE SPEED:	<u>46</u>	MPH	% UNDER PACE:	<u>12%</u>	

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street, high volume of bicyclists and Metrolink train station nearby, it is recommended to post a speed limit on this segment of El Camino Real at 45 mph.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/10/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/10/14 TIME START: 9:00 AM TIME STOP: 9:40 AM

DAY OF WEEK: Friday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47	X		1%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42	X		1%	100%
41	X X	X X	2%	99%
40	X	X	1%	97%
39	X		1%	96%
38	X X X	X X	3%	96%
37	X X	X X X X	3%	93%
36	X X X	X X X X X	5%	90%
35	X X X X	X X	3%	86%
34	X X X X X X X X	X X X X X X	8%	83% *
33	X X X X X X X X	X X X X X X X X X	9%	75% *
32	X X X X X X X X X X	X X X X X	9%	66% *
31	X X X X X X X	X X X X X X X X X X X	11%	57% P
30	X X X X X X X	X X X X X X X X X X	9%	46% A
29	X X X X X X X	X X X X X X X X X X	9%	37% C
28	X X X X X X X	X X X X X X X X	9%	28% E
27	X X X X X X	X	4%	19% *
26	X X X X X	X X X X X X	6%	16% *
25	X X	X X X X X	4%	10% *
24	X X X X X	X X	4%	7%
23	X	X	1%	3%
22	X X		1%	2%
21			0%	1%
20			0%	1%
19	X		1%	1%
18			0%	1%
17	X		1%	1%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: EL CAMINO REAL
Avenida Estacion to Calle De Los Molinos

ROAD CHARACTERISTICS:
 Width (ft): 56 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at Ave. Pico, and at Los Molinos

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 14,000 **SEGMENT LENGTH (ft):** 1,584

ACCIDENTS 3-YR TOTAL: 19 **ACCIDENT RATE:** 4.13 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	<u>35</u> MPH	10 MPH PACE:	<u>25 - 34</u> MPH
50TH %:	<u>30</u> MPH	% IN PACE:	<u>76%</u>
15TH %:	<u>26</u> MPH	% OVER PACE:	<u>18%</u>
AVERAGE SPEED:	<u>31</u> MPH	% UNDER PACE:	<u>7%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street, high volume of bicyclists, Metrolink nearby, high density of commercial business and the speed survey, it is recommended to post a speed limit on this segment of El Camino Real at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/10/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/10/14 TIME START: 9:45 AM TIME STOP: 10:30 AM
 DAY OF WEEK: Friday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45		X	0%	100%
44			0%	100%
43		X	0%	100%
42		X	0%	99%
41	X	X X	1%	99%
40	X	X	1%	97%
39	X	X X	1%	96%
38	X X X X X X X X X	X X X X X X X	8%	95% *
37	X X X X X X	X X X X X X	6%	87% *
36	X X X X X X X X X	X X X X X X X X	8%	81% *
35	X X X X X X	X X X X X X X X X X X X X	9%	72% P
34	X X X X X X X X	X X X X X X X X X X X	8%	63% A
33	X X X X X	X X X X X X	5%	54% C
32	X X X X X X X X X X	X X X X X X X X X X X X	10%	49% E
31	X X X X X X X X X X X X	X X X X X X	8%	39% *
30	X X X X X X X X X X X X X X	X X X X X X X X X	10%	31% *
29	X X X X X X X X	X X X X X X	6%	21% *
28	X X X X X X X	X X X X X	5%	15% *
27	X X X X X X X	X X X X	4%	10% *
26	X	X X	1%	6% *
25	X	X	1%	4% *
24	X X X	X	2%	3% *
23			0%	1% *
22	X	X	1%	1% *
21			0%	0% *
20	X		0%	0% *
19			0%	0% *
18			0%	0% *
17			0%	0% *
16			0%	0% *
15			0%	0% *
TOTAL NUMBER OF VEHICLES = 201			100%	

LOCATION: EL CAMINO REAL
Calle De Los Molinos to El Portal

ROAD CHARACTERISTICS:
 Width (ft): 56 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at Los Molinos and at El Portal

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 15,500 **SEGMENT LENGTH (ft):** 2,377

ACCIDENTS 3-YR TOTAL: 24 **ACCIDENT RATE:** 3.14 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	<u>36</u> MPH	10 MPH PACE:	<u>29 - 38</u> MPH
50TH %:	<u>32</u> MPH	% IN PACE:	<u>79%</u>
15TH %:	<u>28</u> MPH	% OVER PACE:	<u>5%</u>
AVERAGE SPEED:	<u>33</u> MPH	% UNDER PACE:	<u>15%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the high volume of bicyclists sharing the road, access nearby to the Metrolink train station and the density of commercial business, it is recommended to post a speed limit on this segment of El Camino Real at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/10/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/10/14 TIME START: 10:35 AM TIME STOP: 11:20 AM

DAY OF WEEK: Friday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42		X	0%	100%
41		X	0%	100%
40			0%	99%
39		X	0%	99%
38	X		0%	99%
37	X X X		2%	98%
36	X		0%	96%
35	X X X	X X X	3%	96%
34	X X	X	1%	93%
33	X X X X	X X X X X	4%	91%
32	X X X X X X X X X X	X X X X X X	8%	87%
31	X X X X X X X X X X	X X X X X X	8%	79%
30	X X X X X X X X X X	X X X X X X X X	9%	71%
29	X X X X X	X X X X X X X X X	7%	62%
28	X X X X X X	X X X X X X X	6%	55%
27	X X X X X X X X	X X X X X X X X X	8%	48%
26	X X X X X X X X X X	X X X X X X X	8%	40%
25	X X	X X X X X X X X X	5%	31%
24	X X X X X	X X X X X X X	6%	26%
23	X X X X X	X X X	4%	20%
22	X X X X X X X	X X X X X X X X X X	8%	16%
21	X X X X X X	X X X	4%	7%
20	X X	X X X X	3%	3%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%

TOTAL NUMBER OF VEHICLES = 201 **100%**

LOCATION: EL CAMINO REAL
El Portal to Avenida Palizada

ROAD CHARACTERISTICS:
 Width (ft): 56 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at El Portal, Mariposa, Palizada

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 17,000 **SEGMENT LENGTH (ft):** 1,800

ACCIDENTS 3-YR TOTAL: 53 **ACCIDENT RATE:** 8.35 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

85TH %:	<u>31</u>	MPH	10 MPH PACE:	<u>24 - 33</u>	MPH
50TH %:	<u>27</u>	MPH	% IN PACE:	<u>71%</u>	
15TH %:	<u>22</u>	MPH	% OVER PACE:	<u>9%</u>	
AVERAGE SPEED:	<u>28</u>	MPH	% UNDER PACE:	<u>20%</u>	

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the high volume of pedestrians and bicyclists, high density of commercial businesses, high accident rate and speed survey, it is recommended to post a speed limit on this segment of El Camino Real at 30 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/10/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/10/14 TIME START: 11:25 AM TIME STOP: 12:00 PM
 DAY OF WEEK: Friday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37			0%	100%
36			0%	100%
35	X		1%	100%
34	X	X	1%	100%
33			0%	99%
32	X X	X	2%	99%
31	X X X		2%	97%
30	X X X	X X	3%	96%
29	X	X X X X	3%	93%
28	X X X	X X X X X X X	6%	91%
27	X X X	X X X X X X X	6%	85%
26	X X X X X X X X X X	X X X X X X X X X X	11%	80%
25	X X X X X X X X X X	X X X X X X X X X X	10%	69%
24	X X X X X X X X X X	X X X X X X X X X X	11%	59%
23	X X X X X X X X X X X X	X X X X X X X X X X X X	14%	48%
22	X X X X X X X X X X X X X	X X X X X X X X X X X X	15%	34%
21	X X X X X X X X X X	X X X X X X X	9%	19%
20	X X X X X X X	X X X X X	6%	11%
19	X X X X	X	3%	5%
18	X	X X	2%	2%
17		X	1%	1%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: EL CAMINO REAL
Avenida Palizada to Avenida Presidio

ROAD CHARACTERISTICS:
 Width (ft): 56 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at Palizada, Del Mar, Victoria

ROADWAY CONDITIONS:
 Lateral Visibility: limited Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 18,500 **SEGMENT LENGTH (ft):** 2,112

ACCIDENTS 3-YR TOTAL: 57 **ACCIDENT RATE:** 7.03 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

85TH %:	<u>27</u> MPH	10 MPH PACE:	<u>20 - 29</u> MPH
50TH %:	<u>23</u> MPH	% IN PACE:	<u>89%</u>
15TH %:	<u>20</u> MPH	% OVER PACE:	<u>7%</u>
AVERAGE SPEED:	<u>24</u> MPH	% UNDER PACE:	<u>5%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the high volume of pedestrians, density of commercial businesses and the high number of accidents occurred, it is recommended to post a speed limit on this segment of El Camino Real at 30 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/10/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/10/14 TIME START: 12:05 PM TIME STOP: 12:40 PM

DAY OF WEEK: Friday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41	X	X X	1%	100%
40		X X	1%	99%
39		X	0%	98%
38	X X	X X X	2%	97%
37	X	X X	1%	95%
36	X	X X	1%	93%
35	X	X X X	2%	92%
34	X X X X X X	X X X	4%	90%
33	X X X	X X X X X X X X	6%	85%
32	X X X	X X X X X X X X X X	7%	79%
31	X X X X X X X X X X	X X X X X X	8%	72%
30	X X X X X	X X X X X X X X X X	7%	63%
29	X X X X X X X X X X X	X X X X X X X X X X X X	13%	56%
28	X X X X X X X X X X X	X X X X X X X X X X	10%	43%
27	X X X X X X X X X X	X X X	6%	32%
26	X X X X X X X X	X X X X X X	7%	26%
25	X X X	X X	2%	19%
24	X X X X X X X X X X	X X X X X	7%	16%
23	X X X X X	X	3%	9%
22	X X X X		2%	6%
21	X X	X X	2%	4%
20	X X	X	1%	2%
19	X X		1%	1%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 201			100%	

LOCATION: EL CAMINO REAL
Avenida Presidio to Avenida Valencia

ROAD CHARACTERISTICS:
 Width (ft): 56 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at Barcelona & Valencia

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 16,000 **SEGMENT LENGTH (ft):** 3,168

ACCIDENTS 3-YR TOTAL: 60 **ACCIDENT RATE:** 5.71 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

85TH %:	33	MPH	10 MPH PACE:	<u>24 - 33</u>	MPH
50TH %:	<u>28</u>	MPH	% IN PACE:	<u>76%</u>	
15TH %:	<u>23</u>	MPH	% OVER PACE:	<u>15%</u>	
AVERAGE SPEED:	<u>29</u>	MPH	% UNDER PACE:	<u>9%</u>	

COMMENTS AND/OR RECOMMENDATIONS:

Based on the high volume of pedestrians, density of commercial businesses fronting the street, and high accident rate, it is recommended to post a speed limit on this segment of El Camino Real at 30 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/10/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/10/14 TIME START: 12:45 PM TIME STOP: 1:30 PM

DAY OF WEEK: Friday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47		X X	1%	100%
46			0%	99%
45		X	1%	99%
44	X		1%	99%
43	X	X X	2%	98%
42		X	1%	97%
41	X X X X		2%	96%
40	X	X	1%	94%
39	X X X	X X X	3%	93%
38	X X X	X X X X X X X X X	7%	90%*
37	X X X X X X	X X X X X X	7%	84%*
36	X X X X X	X X X X X	5%	77%*
35	X X X X X X X X X X X X X X	X X X X X X X	11%	72% P
34	X X X X X X X	X X X X X X	7%	62% A
33	X X X X X X	X X X X X X X X X X	8%	55% C
32	X X X X X X X X X X X	X X X X X X X X X	10%	48% E
31	X X X X X X X	X X X X X X X X X X X X X X	11%	38%*
30	X X X X X X	X X X X X X	6%	27%*
29	X X X X X X X	X X X	5%	21%*
28	X X X X X X	X X X X	5%	16%
27	X X X X	X X	3%	11%
26	X X X		2%	8%
25	X	X X X	2%	6%
24	X	X	1%	4%
23	X		1%	3%
22			0%	3%
21	X X		1%	3%
20	X	X X	2%	2%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: EL CAMINO REAL
Avenida Valencia to Calle Del Comercio

ROAD CHARACTERISTICS:
 Width (ft): 56 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at Valencia, San Juan, San Gabriel, Fwy. overpass & San Luis Rey

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 12,500 **SEGMENT LENGTH (ft):** 4,752

ACCIDENTS 3-YR TOTAL: 45 **ACCIDENT RATE:** 3.65 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %: <u>37</u> MPH	10 MPH PACE: <u>29 - 38</u> MPH
50TH %: <u>32</u> MPH	% IN PACE: <u>75%</u>
15TH %: <u>28</u> MPH	% OVER PACE: <u>10%</u>
AVERAGE SPEED: <u>33</u> MPH	% UNDER PACE: <u>16%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the speed survey, high density of driveways fronting the street and elementary school and church nearby, it is recommended to post a speed limit on this segment of El Camino Real at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/10/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/10/14 TIME START: 1:35 PM TIME STOP: 2:10 PM

DAY OF WEEK: Friday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54	X		1%	100%
53		X	1%	100%
52			0%	99%
51		X	1%	99%
50	X		1%	99%
49	X	X	1%	98%
48	X	X	1%	97%
47		X X X X	2%	96%
46		X X X X	2%	94%
45	X	X X	2%	92%
44	X X X	X X X X	4%	91%
43	X X X X	X X X X X X	5%	87%
42	X X X X X X X X	X X X X X X X X	8%	82%
41	X X X	X X X X X	5%	74%
40	X X X X	X X X X X	5%	70%
39	X X X X X X X	X X X X X X X X X	9%	65%
38	X X X X X	X X X X X X X X X X X X	9%	57%
37	X X X X X X X	X X X X X X	7%	48%
36	X X X X X X X X X X	X X X X X X X	9%	41%
35	X X X X X X X X X X X X X X X X	X X X	10%	32%
34	X X X X X	X X X X X X	6%	22%
33	X X X X X X X X	X	5%	17%
32	X X X	X X X X X X	5%	12%
31	X X	X X	2%	8%
30	X X	X	2%	6%
29	X X X	X	2%	4%
28	X		1%	2%
27	X		1%	2%
26	X	X	1%	1%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: EL CAMINO REAL
Calle Del Comercio to South City Limit

ROAD CHARACTERISTICS:
 Width (ft): 56 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at San Luis Rey; 9 stops between Del Comercio and Avenida Santa Margarita.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 6,000 **SEGMENT LENGTH (ft):** 4,224

ACCIDENTS 3-YR TOTAL: 18 **ACCIDENT RATE:** 3.42 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	<u>42</u> MPH	10 MPH PACE:	<u>34 - 43</u> MPH
50TH %:	<u>37</u> MPH	% IN PACE:	<u>71%</u>
15TH %:	<u>32</u> MPH	% OVER PACE:	<u>13%</u>
AVERAGE SPEED:	<u>38</u> MPH	% UNDER PACE:	<u>17%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the location of this street segment closes to elementary school and State park, high volume of pedestrian and bicyclist traffic, it is recommended to post a speed limit on this segment of El Camino Real at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/10/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/8/14 TIME START: 12:03 PM TIME STOP: 1:30 PM

DAY OF WEEK: Wednesday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54		X	1%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47		X	1%	100%
46		X	1%	99%
45			0%	99%
44		X X X X X	3%	99%
43	X		1%	96%
42		X X X X X	3%	96%
41	X X X X	X X X X X X X X	7%	93%*
40	X X X X	X X X X X X X X	6%	87%*
39	X X X X X X X X X X	X X X X X X	8%	81%*
38	X X X X X X X X X X	X X X X X	8%	73%*
37	X X X X X X X	X X X X X X X X	8%	65%*
36	X X X X X X X	X X X X X X X	7%	58%*
35	X X X X X X X X X X X	X X X X X X	9%	51%*
34	X X X X X X X X X	X X X X X X	7%	42%*
33	X X X X X X X	X X X X X X	6%	35%*
32	X X X X X X X X	X X X X X X	6%	30%*
31	X X X X X X	X X X X	4%	24%*
30	X X X X X	X X X X X X	5%	20%*
29	X X X X X X X	X X X X	5%	15%*
28	X X X X X	X X X X	4%	11%*
27	X X X X	X X X X	3%	7%*
26	X X X X		2%	4%*
25		X X X X	2%	3%*
24		X	1%	1%*
23		X	1%	1%*
22			0%	0%*
21			0%	0%*
20			0%	0%*
19			0%	0%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: CALLE SALUDA
Avenida La Pata to Avenida Fresas

ROAD CHARACTERISTICS:

Width (ft): <u>44</u>	Sidewalks/Driveways: <u>yes</u>
No. of Lanes for Both Directions: <u>4</u>	On-Street Parking: <u>no</u>
Horizontal Alignment Design Speed: <u>50 MPH</u>	Crosswalks: <u>yes</u>
Vertical Alignment Design Speed: <u>55 MPH</u>	Traffic Controls: <u>signalized at Ave Fresas and Ave La Pata.</u>

ROADWAY CONDITIONS:

Lateral Visibility: <u>good</u>	Driveway Density: <u>low</u>
Surface Condition: <u>good</u>	Ped. & Bicycle Activity: <u>low</u>

AVERAGE DAILY TRAFFIC: 5,000 **SEGMENT LENGTH (ft):** 1,750

ACCIDENTS 3-YR TOTAL: 0 **ACCIDENT RATE:** 0.00 accidents per million
(1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %: <u>39</u> MPH	10 MPH PACE: <u>32 - 41</u> MPH
50TH %: <u>35</u> MPH	% IN PACE: <u>70%</u>
15TH %: <u>29</u> MPH	% OVER PACE: <u>7%</u>
AVERAGE SPEED: <u>35</u> MPH	% UNDER PACE: <u>24%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the geometric of the street with direct access to residential tracts and golf courses, it is recommended to post the speed limit on Calle Saluda at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/8/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/8/14 TIME START: 1:34 PM TIME STOP: 3:00 PM

DAY OF WEEK: Wednesday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44		X X X X X	3%	100%
43		X X X X X X X	4%	98%
42	X X X X X X	X X X X X X X X X	8%	94%
41	X X X X X X X X X X	X X X X X X	8%	87%
40	X X X X X X X X X X	X X X X X X X X	9%	79%
39	X X X X X X X X	X X X X X X X X	7%	70%
38	X X X X X X X X X	X X X X X X X X X	8%	63%
37	X X X X X X X X X X X	X X X X X X X X X	10%	55%
36	X X X X X X X X X X X X	X X X X X X X X X	10%	46%
35	X X X X X X X X	X X X X X X X X X	8%	36%
34	X X X X X X X X X X X X	X X X X X X X	9%	29%
33	X X X X X X X X	X X	5%	20%
32	X X X X X X	X X X X X	5%	16%
31	X X X X	X X X X X	4%	11%
30	X X X X X	X X	3%	8%
29	X	X X X X X X	3%	5%
28		X X X X	2%	2%
27			0%	0%
26			0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: CALLE SALUDA
Avenida Fresas to Avenida Talega

ROAD CHARACTERISTICS:

Width (ft): <u>44</u>	Sidewalks/Driveways: <u>yes</u>
No. of Lanes for Both Directions: <u>4</u>	On-Street Parking: <u>no</u>
Horizontal Alignment Design Speed: <u>50 MPH</u>	Crosswalks: <u>yes</u>
Vertical Alignment Design Speed: <u>55 MPH</u>	Traffic Controls: <u>signalized at Ave La Pata and at Liberty park entrance</u>

ROADWAY CONDITIONS:

Lateral Visibility: <u>good</u>	Driveway Density: <u>low</u>
Surface Condition: <u>good</u>	Ped. & Bicycle Activity: <u>low</u>

AVERAGE DAILY TRAFFIC: 4,900 **SEGMENT LENGTH (ft):** 1,750

ACCIDENTS 3-YR TOTAL: 1 **ACCIDENT RATE:** 0.56 accidents per million
(1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %: <u>40</u> MPH	10 MPH PACE: <u>33 - 42</u> MPH
50TH %: <u>36</u> MPH	% IN PACE: <u>79%</u>
15TH %: <u>32</u> MPH	% OVER PACE: <u>6%</u>
AVERAGE SPEED: <u>37</u> MPH	% UNDER PACE: <u>16%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the geometric of the street with direct access to residential tracts and Liberty park, it is recommended to post the speed limit on Calle Saluda at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/8/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 3/25/14 TIME START: 9:00 AM TIME STOP: 10:30 AM

DAY OF WEEK: Tuesday WEATHER: Foggy

SPEED (MPH)	VEHICLES SURVEYED (near 800 Avenida Salvador)		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37	X		1%	100%
36	X X		3%	99%
35	X	X	3%	96%
34			0%	93%
33	X	X X	4%	93%
32	X X	X X X	7%	89%
31	X X X	X	5%	83%*
30	X X	X X X	7%	77%*
29	X X X X X X	X X	11%	71%*
28	X X	X X X X X	9%	60%*
27	X X X X	X X X X	11%	51%*
26	X		1%	40%*
25	X X X X X	X X	9%	39%*
24		X	1%	29%*
23	X X X X	X X	8%	28%*
22	X X X	X X X X	9%	20%*
21	X	X	3%	11%*
20	X	X X	4%	8%*
19	X X X		4%	4%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 75			100%	

LOCATION: AVENIDA SALVADOR
Avenida Presidio to Avenida San Pablo

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 25 MPH Traffic Controls: Stop signs at 7 intersections along Salvador.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 2,000 **SEGMENT LENGTH (ft):** 9,510

ACCIDENTS 3-YR TOTAL: 7 **ACCIDENT RATE:** 1.77 accidents per million vehicles miles
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	31	MPH	10 MPH PACE:	<u>22 - 31</u>	MPH
50TH %:	<u>27</u>	MPH	% IN PACE:	<u>72%</u>	
15TH %:	<u>21</u>	MPH	% OVER PACE:	<u>17%</u>	
AVERAGE SPEED:	<u>27</u>	MPH	% UNDER PACE:	<u>11%</u>	

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street and density of residential driveways directly fronting the street, it is recommended to post a speed limit on this segment of Avenida Salvador at 25 MPH.

OBSERVED BY: Edell Braucksiek, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 3/25/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/17/14 TIME START: 2:00 PM TIME STOP: 4:00 PM

DAY OF WEEK: Friday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37			0%	100%
36			0%	100%
35			0%	100%
34			0%	100%
33			0%	100%
32			0%	100%
31			0%	100%
30			0%	100%
29			0%	100%
28			0%	100%
27			0%	100%
26		X	2%	100%
25		X X X X	8%	98%*
24		X X X X X	12%	90%*
23		X X X X X	10%	78%*
22		X X X X	8%	68%*
21		X X X	6%	60%*
20		X X X X	8%	54%*
19		X X X X X	12%	46%*
18		X X X	6%	34%*
17		X X X X	8%	28%*
16		X X X X X	10%	20%*
15		X X X X X	10%	10%*
TOTAL NUMBER OF VEHICLES = 50			100%	

LOCATION: AVENIDA SAN PABLO
San Gabriel to El Camino Real (WB one-way)

ROAD CHARACTERISTICS:
 Width (ft): 28 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 1 On-Street Parking: yes
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 25 MPH Traffic Controls: Stop sign at the intersection with Avenida San Gabriel

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 1,500 **SEGMENT LENGTH (ft):** 528

ACCIDENTS 3-YR TOTAL: 0 **ACCIDENT RATE:** 0.00 accidents per million vehicles miles
(1/1/2011 - 12/31/2013)

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	<u>23</u> MPH	10 MPH PACE:	<u>16 - 25</u> MPH
50TH %:	<u>19</u> MPH	% IN PACE:	<u>88%</u>
15TH %:	<u>15</u> MPH	% OVER PACE:	<u>2%</u>
AVERAGE SPEED:	<u>20</u> MPH	% UNDER PACE:	<u>10%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street, density of residential driveways directly fronting the street and the speed survey, it is recommended to post a speed limit on this segment of Avenida San Pablo at 25 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/17/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/17/14 TIME START: 1:00 PM TIME STOP: 2:00 PM

DAY OF WEEK: Friday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38			0%	100%
37		X	1%	100%
36		X	1%	99%
35	X X X	X	4%	98%
34	X	X	2%	94%
33	X X	X X	4%	92%
32		X X X X X	5%	88%
31	X	X X X X X	6%	83%
30	X	X X X	4%	77%
29	X	X X X X X X	8%	73%
28	X X X X X X	X X X X X	11%	65%
27	X X X	X X X X X	9%	54%
26	X X X X X X X X	X X X X X	13%	46%
25	X X	X	3%	33%
24	X X X X X	X X	7%	30%
23	X X	X X X X	6%	23%
22	X X X X X	X X	7%	17%
21	X X		2%	10%
20	X X X		3%	8%
19	X		1%	5%
18	X		1%	4%
17			0%	3%
16	X X		2%	3%
15	X		1%	1%
TOTAL NUMBER OF VEHICLES = 101			100%	

LOCATION: AVENIDA SAN PABLO
Avenida San Gabriel to Avenida Acapulco

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: Stop sign at the intersection with Avenida San Gabriel

ROADWAY CONDITIONS:
 Lateral Visibility: limited Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 2,500 **SEGMENT LENGTH (ft):** 1,390

ACCIDENTS 3-YR TOTAL: 5 **ACCIDENT RATE:** 6.94 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

85TH %:	31 MPH	10 MPH PACE:	<u>22 - 31</u> MPH
50TH %:	<u>26</u> MPH	% IN PACE:	<u>73%</u>
15TH %:	<u>21</u> MPH	% OVER PACE:	<u>17%</u>
AVERAGE SPEED:	<u>27</u> MPH	% UNDER PACE:	<u>10%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street, density of residential driveways directly fronting the street and nearby church and school, it is recommended to post a speed limit on this segment of Avenida San Pablo at 25 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/17/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/17/14 TIME START: 12:00 PM TIME STOP: 1:00 PM

DAY OF WEEK: Friday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60		X	1%	100%
59			0%	99%
58			0%	99%
57			0%	99%
56			0%	99%
55		X	1%	99%
54			0%	98%
53			0%	98%
52	X		1%	98%
51			0%	97%
50		X	1%	97%
49		X	1%	96%
48			0%	95%
47		X	1%	95%
46			0%	94%
45	X		1%	94%
44		X	1%	93%
43		X X	2%	92%
42	X X X X	X	5%	90%
41	X X X	X X X	6%	86% *
40	X	X X X X	5%	80% *
39	X X X	X X X X X X	9%	75% *
38	X X	X X	4%	67% *
37	X X X	X X	5%	63% *
36	X X	X X	4%	58% *
35	X X X X X	X X X	8%	54% *
34	X X X X	X X X	7%	47% *
33	X X	X X	4%	40% *
32	X X X X X	X	6%	36% *
31	X X X	X	4%	30% *
30	X X	X	3%	27% *
29	X X	X	3%	24% *
28	X X X	X X	5%	21% *
27	X X X	X X X X	7%	16% *
26	X X	X X	4%	10% *
25	X	X	2%	6% *
24	X	X	2%	4% *
23	X		1%	2% *
22	X		1%	1% *
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 105			100%	

LOCATION: AVENIDA SAN PABLO
Avenida Acapulco to northerly terminus

ROAD CHARACTERISTICS:
 Width (ft): 64 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: n/a Crosswalks: yes
 Vertical Alignment Design Speed: n/a Traffic Controls: Stop signs at nine intersections along Avenida San Pablo.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 1,500 **SEGMENT LENGTH (ft):** 3,800

ACCIDENTS 3-YR TOTAL: 1 **ACCIDENT RATE:** 0.85 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	41	MPH	10 MPH PACE:	<u>32 - 41</u>	MPH
50TH %:	<u>34</u>	MPH	% IN PACE:	<u>55%</u>	
15TH %:	<u>26</u>	MPH	% OVER PACE:	<u>14%</u>	
AVERAGE SPEED:	<u>35</u>	MPH	% UNDER PACE:	<u>30%</u>	

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street with access to residential tracts and retirement community, it is recommended to post a speed limit on this segment of Avenida San Pablo at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/17/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/19/14 TIME START: 1:30 PM TIME STOP: 2:05 PM

DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39		X	1%	100%
38			0%	99%
37			0%	99%
36		X	1%	99%
35			0%	98%
34			0%	98%
33		X	1%	98%
32		X X X	2%	98%
31	X X X	X X X	5%	95%*
30	X X X X X	X X	6%	90%*
29	X X X	X X X	5%	85%*
28	X X X X X X X	X X X X X X	10%	80%*
27	X X X X X X X X X	X X	10%	70%*
26	X X X X X X X	X X X X X X	10%	60%*
25	X X X X X X X X X	X X X X X X	13%	50%*
24	X X X	X X X X X X X	8%	37%*
23	X	X X X X X X	6%	29%*
22	X X X X X X X	X X X X	9%	23%*
21	X	X X X	3%	14%*
20	X X	X X X X	5%	11%*
19		X X X	2%	6%*
18	X X		2%	4%*
17	X	X	2%	2%*
16	X		1%	1%*
15			0%	0%*

TOTAL NUMBER OF VEHICLES = 125 100%

LOCATION: SARMENTOSO
Camino Vera Cruz to Camino Del Rio

ROAD CHARACTERISTICS:
 Width (ft): 40 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: Signalized at the intersection with Camino Vera Cruz

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 2,000 SEGMENT LENGTH (ft): 4,425

ACCIDENTS 3-YR TOTAL: 2 ACCIDENT RATE: 1.09 accidents per million vehicles miles
 (1/1/2010 - 12/31/2013) Avg. Accident Rate in District 12: 1.32

EXISTING SPEED LIMIT: 30 MPH APPROVED SPEED LIMIT: 30 MPH

85TH %:	<u>29</u> MPH	10 MPH PACE:	<u>22 - 31</u> MPH
50TH %:	<u>25</u> MPH	% IN PACE:	<u>81%</u>
15TH %:	<u>21</u> MPH	% OVER PACE:	<u>5%</u>
AVERAGE SPEED:	<u>26</u> MPH	% UNDER PACE:	<u>14%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the speed survey and geometric design of the street with direct access to an elementary school and park, mid-block crosswalks fronting the school and park, it is recommended to post a speed limit on Sarmentoso at 30 mph.

OBSERVED BY: Edell Braucksiek, Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 2/19/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/19/14 TIME START: 12:30 PM TIME STOP: 1:10 PM

DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46	X	X	1%	100%
45		X	1%	99%
44	X	X X	2%	98%
43		X X X	2%	96%
42	X X	X X	3%	93%
41	X	X X X	3%	91%
40	X	X X X X X X	6%	88%
39	X X	X X X	4%	82%
38	X X	X X X	4%	78%
37	X X	X X X X X X	6%	75%
36	X X	X X X X X	6%	69%
35	X X X X X	X X X X	7%	63%
34	X X X X X X X X	X X X X X	10%	57%
33	X X X X X X X	X X X X X	9%	46%
32	X X X X X X	X X X X	7%	38%
31	X X X	X X	4%	30%
30	X X X X X	X X X X X	7%	27%
29	X X	X X X	4%	20%
28		X X X	2%	16%
27	X X X X X	X X X	6%	14%
26	X X X	X X	4%	8%
25	X X		1%	4%
24	X		1%	3%
23		X	1%	2%
22	X X		1%	1%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 138			100%	

LOCATION: AVENIDA TALEGA
Avenida Vista Hermosa to Calle Saludá

ROAD CHARACTERISTICS:
 Width (ft): 78
 No. of Lanes for Both Directions: 4
 Horizontal Alignment Design Speed: 60 MPH
 Vertical Alignment Design Speed: 60 MPH
 Sidewalks/Driveways: yes
 On-Street Parking: no
 Crosswalks: yes
 Traffic Controls: Traffic signal at the intersections of Avenida Vista Hermosa and Calle Portofino

ROADWAY CONDITIONS:
 Lateral Visibility: good
 Surface Condition: good
 Driveway Density: low
 Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 10,000 **SEGMENT LENGTH (ft)** 3,050

ACCIDENTS 3-YR TOTAL: 5 **ACCIDENT RATE:** 0.79 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %: <u>39</u> MPH	10 MPH PACE: <u>30 - 39</u> MPH
50TH %: <u>33</u> MPH	% IN PACE: <u>62%</u>
15TH %: <u>28</u> MPH	% OVER PACE: <u>18%</u>
AVERAGE SPEED: <u>34</u> MPH	% UNDER PACE: <u>20%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the geometric design of the street with direct access to Vista Del Mar elementary school, residential tracts and shopping center, it is recommended to post a speed limit on this segment of Avenida Talega at 35 MPH.

OBSERVED BY: Edell Braucksiek, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 2/19/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/7/14 TIME START: 11:20 AM TIME STOP: 12:00 PM
 DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58		X	0%	100%
57			0%	100%
56			0%	100%
55		X	0%	100%
54			0%	99%
53			0%	99%
52		X	0%	99%
51		X	0%	99%
50	X	X X X X	2%	98%
49		X X	1%	96%
48	X X		1%	95%
47		X X X X X X	3%	94%
46	X	X X X X X X	3%	91%
45		X X X X	2%	87%
44	X X X X	X X X X X X X	5%	85% *
43	X X X X	X X X X X X X X	6%	80% *
42	X X X X	X X X X X	4%	74% *
41	X X X X X	X X X X X X X	6%	70% P
40	X X X X	X X X X X X X	5%	64% A
39	X X X X X X X X	X X X X X X X	7%	59% C
38	X X X X X	X X X X X X X X X	7%	51% E
37	X X X X	X X X X X X	5%	44% *
36	X X X X X X X X	X X X X X	6%	40% *
35	X X X X X X X	X X X X X	6%	33% *
34	X X X X X	X X X X X	5%	27%
33	X X X X X X	X X X	4%	22%
32	X X X X X X		3%	18%
31	X X X X X		2%	15%
30	X X X X	X	2%	13%
29	X X X		1%	10%
28	X X X X	X	2%	9%
27	X		0%	6%
26	X X X	X	2%	6%
25	X X X X		2%	4%
24	X X X		1%	2%
23			0%	0%
22			0%	0%
21			0%	0%
20	X		0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 205			100%	

LOCATION: AVENIDA TALEGA
Calle Saluda to East City Limit

ROAD CHARACTERISTICS:
 Width (ft): 78 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 60 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 60 MPH Traffic Controls: Traffic signal at the intersection of Calle Saluda, Cm Viento Fuerte East, Cm Viento Fuerte West

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 8,000 **SEGMENT LENGTH (ft):** 6,500

ACCIDENTS 3-YR TOTAL: 4 **ACCIDENT RATE:** 0.37 accidents per million vehicles miles
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81

EXISTING SPEED LIMIT: 40 MPH **APPROVED SPEED LIMIT:** 40 MPH

85TH %:	44 MPH	10 MPH PACE:	<u>35 - 44</u> MPH
50TH %:	<u>37</u> MPH	% IN PACE:	<u>58%</u>
15TH %:	<u>31</u> MPH	% OVER PACE:	<u>15%</u>
AVERAGE SPEED:	<u>38</u> MPH	% UNDER PACE:	<u>27%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on geometric design of the street, access to Vista Del Mar school, Talega park and golf courses, it is recommended to post a speed limit on this segment of Avenida Talega at 40 mph.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/7/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/6/2014 TIME START: 1:20 PM TIME STOP: 2:00 PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43	X	X	1%	100%
42	X	X	1%	99%
41	X X	X X X	2%	98%
40	X X	X X	2%	96%
39	X	X X X	2%	94%
38	X X X X X	X X X X	5%	92%*
37	X X X X X	X X X X X X X X	7%	87%*
36	X X X X X	X X X X X	5%	79%*
35	X X X X X	X X X X X X	6%	74%*
34	X X X X X X X X X X X X X X	X X X X X X X X X X X	13%	67%*
33	X X X X X X X	X X X X X X X	8%	54%*
32	X X X X X X X X X X X X	X X X X X X X	10%	46%*
31	X X X	X X X X X X X X	5%	36%*
30	X X X X X X X	X X X X X X X X X X	9%	30%*
29	X X X X X X X	X X X X X X	6%	21%*
28	X X X X	X X X X X X	5%	15%*
27	X X X X	X	2%	10%*
26		X X X	1%	7%*
25	X	X	1%	6%*
24	X X X		1%	5%*
23	X X	X	1%	3%*
22	X		0%	2%*
21			0%	1%*
20	X	X	1%	1%*
19	X		0%	0%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 201			100%	

LOCATION: AVENIDA VAQUERO
Calle Guadalajara to Calle Vista Torito

ROAD CHARACTERISTICS:
 Width (ft): 56 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: no
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: Stops at Torito, San Gorgonio & Guadalajara.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: high
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 4,200 **SEGMENT LENGTH (ft):** 3,200

ACCIDENTS 3-YR TOTAL: 5 **ACCIDENT RATE:** 1.79 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Orange County Rate (2010): 1.32 vehicles miles

EXISTING SPEED LIMIT: 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

85TH %:	36	MPH	10 MPH PACE:	<u>29 - 38</u>	MPH
50TH %:	<u>32</u>	MPH	% IN PACE:	<u>77%</u>	
15TH %:	<u>28</u>	MPH	% OVER PACE:	<u>8%</u>	
AVERAGE SPEED:	<u>33</u>	MPH	% UNDER PACE:	<u>15%</u>	

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the street geometric design, high accident rate, density of residential driveways directly fronting the street, access to Shorecliffs middle school and San Gorgonio park, it is recommended to post a speed limit on this segment of Avenida Vaquero at 30 MPH.

OBSERVED BY: Mike Almir, Transportation Studies Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/6/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/6/2014 TIME START: 1:20 PM TIME STOP: 2:47 PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49	X		0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43	X		0%	100%
42			0%	99%
41			0%	99%
40	X	X	1%	99%
39	X	X X	1%	98%
38	X	X	1%	97%
37		X X X	1%	96%
36	X X X X X	X X X X X X X X	7%	94%*
35	X X X X	X X X X X X X X X	7%	87%*
34	X X X X X X X X X	X X X X X X X X X X	10%	80%*
33	X X X X X X X X X X X	X X X X X X X X X X	11%	70%*
32	X X X X X X X X X X	X X X X X X X X X X	11%	58%*
31	X X X X X X X X X X	X X X X X X X X X	10%	48%*
30	X X X X X	X X X X X X X X	7%	37%*
29	X X X X X X X X X X X X	X X X	8%	30%*
28	X X X X X X X X X X	X X X	6%	22%*
27	X X X X X X	X X X X	5%	16%*
26	X X	X X	2%	11%*
25	X X X	X X X X X	4%	9%*
24	X	X X	1%	5%*
23			0%	3%*
22	X X X	X X	2%	3%*
21	X		0%	1%*
20	X		0%	0%*
19			0%	0%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 202			100%	

LOCATION: AVENIDA VAQUERO
Calle Vista Torito to Camino Capistrano

ROAD CHARACTERISTICS:
 Width (ft): 56 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 2 On-Street Parking: yes
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: Stops at Torito, Montecito, Grande Vista and Cascadita; Traffic signal at Capistrano.

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: medium
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 5,100 **SEGMENT LENGTH (ft):** 1,920

ACCIDENTS 3-YR TOTAL: 2 **ACCIDENT RATE:** 0.98 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Orange County Rate (2010): 1.32 vehicles miles

EXISTING SPEED LIMIT: 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

85TH %:	34 MPH	10 MPH PACE:	<u>27 - 36</u> MPH
50TH %:	<u>31</u> MPH	% IN PACE:	<u>83%</u>
15TH %:	<u>27</u> MPH	% OVER PACE:	<u>6%</u>
AVERAGE SPEED:	<u>31</u> MPH	% UNDER PACE:	<u>11%</u>

COMMENTS AND/OR RECOMMENDATIONS:

Based on the street geometric design, density of residential driveways directly fronting the street, access to Shorecliffs middle school and San Gorgonio park, it is recommended to post a speed limit on this segment of Avenida Vaquero at 30 MPH.

OBSERVED BY: Mike Almir, Transportation Studies Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/6/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/9/14 TIME START: 1:15 PM TIME STOP: 2:00 PM

DAY OF WEEK: Thursday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52	X		0%	100%
51		X	0%	100%
50			0%	99%
49	X		0%	99%
48	X	X X X	2%	99%
47		X X X X	2%	97%
46	X	X X X	2%	95%
45	X X	X X X X X X X X	5%	93%
44	X X X X X	X X X X X X	5%	87%*
43	X X X X X	X X X X X X X X X X	8%	82%*
42	X X X	X X X X X X X	5%	74%*
41	X X X X	X X X X X X X X X X X X	8%	69%*
40	X X X X X	X X X	4%	61%*
39	X X X X X X X X X X X	X X X X X X X X X	10%	57%*
38	X X X X X X X X X X X X	X X X X X X X	10%	47%*
37	X X X X X X X X X X X X X	X X X X X X X X	10%	37%*
36	X X X X X X X	X	4%	27%*
35	X X X X X X X X X X X	X X X X X	8%	23%*
34	X X X	X X X X X	4%	15%*
33	X X X	X X X	3%	11%*
32	X X X		1%	8%*
31	X X X X	X X	3%	7%*
30	X X		1%	4%*
29			0%	3%*
28	X		0%	3%*
27	X	X	1%	2%*
26	X		0%	1%*
25	X		0%	1%*
24		X	0%	0%*
23			0%	0%*
22			0%	0%*
21			0%	0%*
20			0%	0%*
19			0%	0%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
TOTAL NUMBER OF VEHICLES = 204			100%	

LOCATION: CAMINO VERA CRUZ
Avenida Pico to Avenida Vista Hermosa

ROAD CHARACTERISTICS:
 Width (ft): 64 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 65 MPH Traffic Controls: Traffic signals at Av Pico, Via Pacifica, Plaza Pacifica, CI Paradiso; Stop signs at Hermosa.

ROADWAY CONDITIONS:
 Lateral Visibility: limited Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 10,500 **SEGMENT LENGTH (ft):** 3,474

ACCIDENTS 3-YR TOTAL: 9 **ACCIDENT RATE:** 1.19 accidents per million vehicles miles
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 1.81

EXISTING SPEED LIMIT: 40 MPH **APPROVED SPEED LIMIT:** 40 MPH

85TH %:	<u>43</u> MPH	10 MPH PACE:	<u>35 - 44</u> MPH
50TH %:	<u>38</u> MPH	% IN PACE:	<u>72%</u>
15TH %:	<u>34</u> MPH	% OVER PACE:	<u>13%</u>
AVERAGE SPEED:	<u>39</u> MPH	% UNDER PACE:	<u>15%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the geometric of the street with rolling grades, direct access to residential and commercial establishments, it is recommended to post a speed limit on this segment of Vera Cruz at 40 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/9/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/9/14 TIME START: 2:05 PM TIME STOP: 3:00 PM

DAY OF WEEK: Thursday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52	X	X	1%	100%
51			0%	99%
50	X		1%	99%
49	X		1%	99%
48	X X X		2%	98%
47	X X	X X X	3%	97%
46	X X X X	X	3%	94%
45	X X X X X X X	X X X X X	6%	92%
44	X X X	X X	3%	86%
43	X X X X X X X	X X X X X X X	7%	83%
42	X X X X X X X X X	X X X X X X	8%	76%
41	X X X X X X X	X X X X X X X X	8%	69%
40	X X X X X X	X X X X X	6%	61%
39	X X X X X X X	X X X X X X X X X	8%	56%
38	X X X X X X X X X	X X X X X	7%	48%
37	X X X X X X	X X X X X X X X X X X	9%	41%
36	X X X X X X	X X X X X X X X X X	8%	32%
35	X X X X	X X X X X X X X X	7%	24%
34	X X X	X X X X X X X	5%	17%
33	X	X X	2%	12%
32	X X X X	X X	3%	11%
31	X X X X X	X X	4%	8%
30			0%	4%
29	X X X		2%	4%
28	X X	X	2%	3%
27			0%	1%
26			0%	1%
25			0%	1%
24			0%	1%
23			0%	1%
22		X X	1%	1%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

LOCATION: **CAMINO VERA CRUZ**
Avenida Vista Hermosa to Via Blanco

ROAD CHARACTERISTICS:

Width (ft): 64 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 65 MPH Traffic Controls: Traffic signals at Colina Rodante, Ave Vista Hermosa, Cl De Los Arboles, and Ave Vista Hermosa.

ROADWAY CONDITIONS:

Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 17,000

SEGMENT LENGTH (ft): 3,250

ACCIDENTS 3-YR TOTAL: 10
(1/1/2011 - 12/31/2013)

ACCIDENT RATE: 0.87 accidents per million
 Avg. Orange County Rate (2010): 3.97 vehicles miles

EXISTING SPEED LIMIT: 40 MPH

APPROVED SPEED LIMIT: 40 MPH

85TH %: 44 **MPH**

10 MPH PACE: 34 - 43 MPH

50TH %: 38 MPH

% IN PACE: 71%

15TH %: 33 MPH

% OVER PACE: 17%

AVERAGE SPEED: 39 MPH

% UNDER PACE: 12%

COMMENTS AND/OR RECOMMENDATIONS:

Based on the geometric design of the street with rolling grades, Class 2 bicycle lanes are on both sides, and direct access to residential tracts, it is recommended to post a speed limit on this segment of Vera Cruz at 40 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/9/2019



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 1/9/14 TIME START: 3:05 PM TIME STOP: 4:00 PM

DAY OF WEEK: Thursday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57	X		0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53		X	0%	100%
52			0%	99%
51			0%	99%
50			0%	99%
49			0%	99%
48		X	0%	99%
47		X X	1%	99%
46	X		0%	98%
45	X		0%	97%
44	X	X X	1%	97%
43	X X X X	X X	3%	95%
42	X X X X X X X X	X X X X	6%	92%
41	X X X X X X X X	X X X X X	6%	86%
40	X X X X X X X X	X X X	5%	80%
39	X X X X X	X X	3%	74%
38	X X X X X X X	X X X X X X X X	8%	71%
37	X X X X X X X X	X X X	5%	63%
36	X X X X X X X X X X	X X X X X X X X X X	10%	57%
35	X X X X X X X X	X X X X X X X X X X X	9%	48%
34	X X X X X X X X	X X X X X X X X X X X	10%	38%
33	X X X X X	X X X X X X X X X X	7%	28%
32	X X X X X	X X X X X X X X X X	7%	21%
31	X X X X	X X X X	4%	14%
30	X X X X	X X X X	4%	10%
29	X	X X X	2%	6%
28	X	X	1%	4%
27		X	0%	3%
26			0%	2%
25	X		0%	2%
24		X	0%	2%
23	X X		1%	1%
22			0%	0%
21	X		0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 202			100%	

LOCATION: CAMINO VERA CRUZ
Via Blanco to Camino De Los Mares

ROAD CHARACTERISTICS:
 Width (ft): 64 Sidewalks/Driveways: yes
 No. of Lanes for Both Directions: 4 On-Street Parking: no
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes
 Vertical Alignment Design Speed: 50 MPH Traffic Controls: Traffic signal at Camino De Los Mares

ROADWAY CONDITIONS:
 Lateral Visibility: good Driveway Density: low
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 10,500 **SEGMENT LENGTH (ft):** 4,170

ACCIDENTS 3-YR TOTAL: 5 **ACCIDENT RATE:** 0.55 accidents per million
 (1/1/2011 - 12/31/2013) Avg. Accident Rate in District 12: 3.97 vehicles miles

EXISTING SPEED LIMIT: 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

85TH %:	<u>41</u> MPH	10 MPH PACE:	<u>32 - 41</u> MPH
50TH %:	<u>35</u> MPH	% IN PACE:	<u>72%</u>
15TH %:	<u>31</u> MPH	% OVER PACE:	<u>14%</u>
AVERAGE SPEED:	<u>36</u> MPH	% UNDER PACE:	<u>14%</u>

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the geometric of the street with steep vertical grade, mid-block crosswalk at the school, direct access to Truman Benedict school and Forster Ranch park, it is recommended to post a speed limit on this segment of Vera Cruz at 35 MPH.

OBSERVED BY: Mike Almir, Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

RECOMMENDATION APPROVED BY: Thomas Frank, P.E.

PER C.V.C. 40802, SURVEY EXPIRES: 1/9/2019