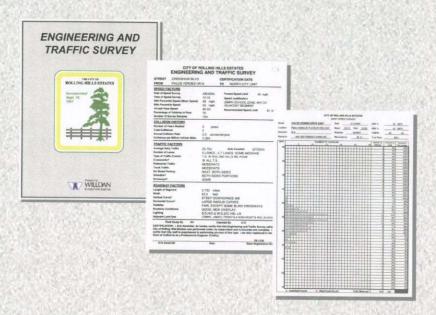
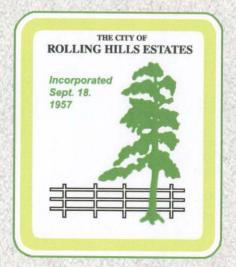
ENGINEERING AND TRAFFIC SURVEY JULY 2004





FOR THE CITY OF
ROLLING
HILLS
ESTATES







July 23, 2004

Mr. Sam Wise Assistant City Engineer City of Rolling Hills Estates 4045 Palos Verdes Drive North Rolling Hills Estates, CA 90274

Subject:

2004 Engineering and Traffic Survey for Speed Zoning

Dear Mr. Wise,

As requested, Willdan has completed Engineering and Traffic Surveys to justify and update the posted speed limits along 15 street segments in the City of Rolling Hills Estates. These segments were last surveyed in 1997, and require an update to comply with the 7-year limitation set forth in the California Vehicle Code (CVC).

We are pleased to submit the enclosed Report that describes the E&T survey procedures and contains recommendations for posted speed limits on the City's arterial and collector street system. A summary of these recommendations is included in the Analysis. Supporting documentation for each speed zone recommendation is provided in the Appendices.

The Report was conducted in accordance with applicable provisions of the CVC, following procedures outlined in the California Department of Transportation (Caltrans) Traffic Manual. The Report is intended to satisfy the requirements of Section 40802 of the CVC to enable the continued use of radar for traffic speed enforcement.

We appreciate the opportunity to serve the City of Rolling Hills Estates and the assistance and cooperation afforded to us during the course of this study.

Very truly yours,

WILLDAN

Erik Zandvliet T.E. Traffic Engineer

Enclosure

EZ:mhjmk (06-160) E:14019/3005/R01 Rolling Hills Est E&T

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INTRODUCTION

This Engineering and Traffic Survey is intended to be the basis for the establishment, revision, and enforcement of speed limits for selected streets within the City of Rolling Hills Estates. This Engineering and Traffic Survey presents recommended speed limits for 15 street segments in the City of Rolling Hills Estates. Engineering and Traffic Surveys are required by the State of California to establish intermediate speed limits on local streets and to enforce those limits using radar or other speed measuring devices. These surveys must be updated every 5,7 or 10 years to ensure the speeds reflect current conditions as dictated by the California Vehicle Code (CVC). The CVC also requires that the surveys be conducted based on the methodology required by the California Department of Transportation (Caltrans).

The survey was requested by the City for the proper posting of speed limits and to enable the Police Department to utilize radar or other electronic speed measuring devices for speed enforcement. CVC Sections 40801 and 40802 require Engineering and Traffic Surveys that verify the prima facie speed limit before enforcement by such a device is legal. The law further specifies that these surveys be conducted every 5 years. The surveys can be extended to 7 years provided the City's police officer(s) have completed a 24-hour radar operator course [CVC 40802(c)(2)(B)(i)(I)]. Additionally, some surveys may be extended to 10 years if a traffic engineer certifies that no changes in roadway or traffic conditions have occurred [CVC 40802 (c)(2)(B)(i)(II)]. These provisions assure that posted speed limits are kept reasonably current.

The Engineering and Traffic Surveys for the City were conducted in accordance with procedures outlined in the Caltrans Traffic Manual, as required by Section 627 of the California Vehicle Code. The Code further describes three elements of an engineering and traffic survey:

- Measurement of prevailing speed;
- Accident history; and
- Roadway characteristics <u>not</u> readily apparent to the motorist.

Posted speed limits are established primarily to protect the general public from the reckless and unpredictable behavior of dangerous drivers. They provide law enforcement with a clearly understood method to identify and apprehend violators of the basic speed law (CVC Section 22350). This law states that "No person shall drive a vehicle on a highway at a speed greater than is reasonable or prudent having due regard for weather, visibility, the traffic on, and the surface and width of the highway, and in no event at a speed which endangers the safety of persons or property." The posted speed limit gives motorists a clear warning of the maximum speed that is reasonable and prudent under typical driving conditions.

1

The basic fundamentals for establishing speed limits recognize that the majority of drivers behave in a safe and reasonable manner, and therefore, the normally careful and competent actions of a reasonable driver should be considered legal. Speed limits established on these fundamentals conform to the consensus that those who drive the highway determine what speed is reasonable and safe, not on the judgment of one or a few individuals. A radar speed study is usually used to record the prevailing speed of reasonable drivers.

Speed limits are also established to advise drivers of conditions which may not be readily apparent to a reasonable driver. For this reason, accident history, roadway conditions, traffic characteristics, and land use must also be analyzed before determining speed limits. Speed limit changes are usually made in coordination with physical changes in roadway conditions or roadside developments. Unusually short zones of less than one-half mile in length should be avoided to reduce driver confusion.

Additionally, it is generally accepted that speed limits cannot be successfully enforced without voluntary compliance by a majority of drivers. Consequently, only the driver whose behavior is clearly out of line with the normal flow of traffic is usually targeted for enforcement.

ELEMENTS OF THE ENGINEERING AND TRAFFIC SURVEY

The Caltrans Traffic Manual specifies the methodology to be used for completing Engineering and Traffic Surveys. This methodology includes an evaluation of current vehicle speeds, accident history and conditions not readily apparent to motorists. The basic elements of the Engineering and Traffic Survey are discussed in more detail as follows:

Speed Sampling

Existing vehicle speeds are surveyed by a certified radar operator with a calibrated radar unit in an unmarked vehicle. Speed samples are taken for each segment representing a statistically significant sample of current traffic. This data is then evaluated to identify the distribution of speeds. A key element in the evaluation is the identification of the 85th percentile speed. The 85th percentile speed is the speed at or below which 85 percent of the traffic travels. This threshold represents what is historically found to be a safe and reasonable speed for most drivers based on common roadway conditions. Therefore, a "basic speed limit" is established at the nearest 5-mile per hour (mph) increment at or below the 85th percentile speed. For example, if the 85th percentile speed is 48 mph, the basic speed limit is 45 mph. If the 85th percentile speed is 50 mph, the basic speed limit is 50 mph.

Collision History

Reported collisions are reviewed for each street segment to determine if there is a higher than average rate of collisions. A segment that has an above-average collision rate typically suggests conditions that are not readily apparent to motorists.

A summary of the collision rates for the 18 surveyed street segments is provided in Appendix B.

Conditions Not Readily Apparent To Motorists

Each street segment is field inspected to identify roadway conditions that may not be readily apparent to motorists. A determination is made whether any conditions are significant and warrant the recommendation of the speed limit lower than 5 mph below the basic speed limit. It is important to note that the State of California recommends exercising great care when establishing speed limits lower than 5 mph below the 85th percentile speed.

SURVEY CONDITIONS

SURVEY LOCATIONS

The procedures described below describe the criteria and methods used to survey selected streets within the City of Rolling Hills Estates. The specific location of the radar speed survey for each street segment was selected after considering the following:

- Minimum stop sign and traffic signal influence.
- Minimum visibility restrictions.
- Non-congested traffic flow away from intersections and driveways.
- 4. Minimum influence from curves or other roadway conditions that would affect the normal operation of a vehicle.

DATA COLLECTION

Data of existing conditions was obtained including prevailing speed of vehicles, traffic collisions, visibility restrictions, and roadway conditions within the community. Speed data and field reviews were conducted at 18 locations during the month of March 2004.

Speed Data

Radar speed measurements were conducted at 18 locations during March. All surveys were conducted in good weather conditions, during off-peak hours on weekdays. The radar unit was operated from an unmarked vehicle to minimize any influence on driver behavior. Typically, a minimum sample size of 100 vehicles or the total samples during a maximum period of 2 hours were obtained for each segment. Traffic speeds in both directions were recorded for individual segments and separate surveys were made for divided roadways.

Collision Data

Collision data was obtained from the City's SWITRS electronic collision database. For this study, collision data was used from the latest 3 years of reported accidents from January 1, 1999 to December 31, 2001. The collision rates for the 15 segments are expressed in accidents per million vehicle miles (A/MVM). To calculate these rates, 24-hour traffic volumes were collected for each street segment. This information was then entered into the following formula to determine the collision rate:

$$R = \frac{Ax1,000,000}{tx365 \frac{days}{year} xlxv}$$

A = Number of midblock collisions over time period

R = Collision Rate (accidents/million vehicle miles)

t = Time Period Covered (in years)

/= Length of Segment (miles)

v = Traffic Volume (average daily traffic)

The segment collision rate was then compared to the average statewide collision rate.

Field Review Data

A field review was conducted for each of the selected street segments in the City with consideration for the following factors:

- Street width and alignment (design speed);
- 2. Pedestrian activity and traffic flow characteristics;
- Number of lanes and other channelization and striping patterns;
- 4. Frequency of intersections, driveways, and on-street parking;
- Location of stop signs and other regulatory traffic control devices;
- Visibility obstructions;
- 7. Land use and proximity to schools;
- Pedestrian and bicycle usage;
- 9. Uniformity with existing speed zones and those in adjacent jurisdictions; and
- Any other unusual condition not readily apparent to the driver.

ANALYSIS

CRITERIA

Survey data was complied and analyzed to determine the recommended speed limit in accordance with several criteria contained in the Caltrans Traffic Manual. Some of the criteria used are:

- A. The critical speed or 85th percentile speed is that speed at or below which 85 percent of the traffic is moving. This speed is the baseline value in determining what the majority of drivers believe is safe and reasonable. Speed limits set higher than the critical speed are not considered reasonable and safe. Speed limits set lower than the critical speed make a large number of reasonable drivers "unlawful," and do not facilitate the orderly flow of traffic.
- B. The 10 mile per hour (mph) pace speed is the 10 mph increment that contains the highest percentage of vehicles. It is a measure of the dispersion of speeds across the range of the samples surveyed. An accepted practice is to keep the speed limit within the 10 mph pace while considering the critical speed and other factors that might require a speed lower than the critical speed.
- C. The collision rate for each street segment is compared to average collision rates that can be reasonably expected to occur on streets and highways in other jurisdictions, in proportion to the volume of traffic per lane mile. These average collision rates have been developed by the State of California and are considered reasonable for use in the City of Rolling Hills Estates.

RESULTS AND RECOMMENDATIONS

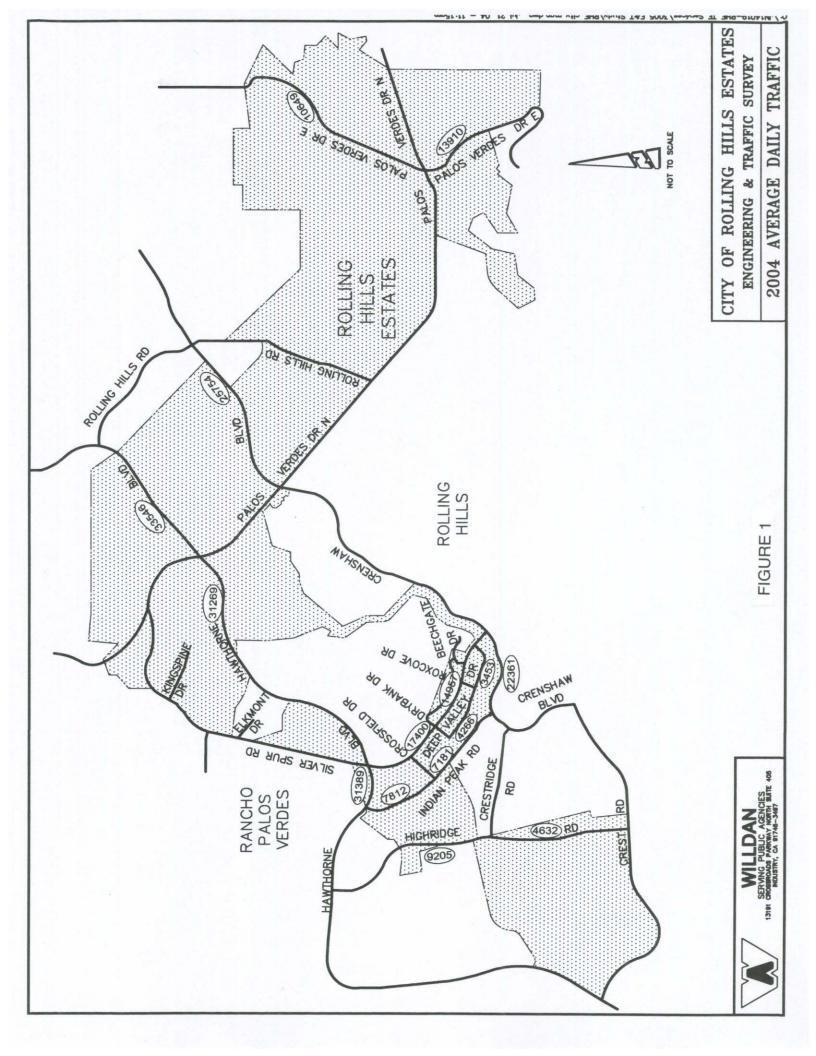
The Engineering and Traffic Survey Forms, presented in Appendix A, illustrate results of a thorough evaluation of the available data and recommend a speed limit for each street segment surveyed. A complete summary of all recommendations is shown in Table 2. In each case, the recommended speed limit was consistent with the prevailing behavior as demonstrated by the radar speed measurements. Typically, a speed limit in the upper range of the 10-mile pace was selected unless an accident rate significantly higher than expected was discovered or roadway conditions not readily apparent to the driver were identified. Any segments with recommended speed limits greater than 5 mph below the critical speed are fully explained later in this report.

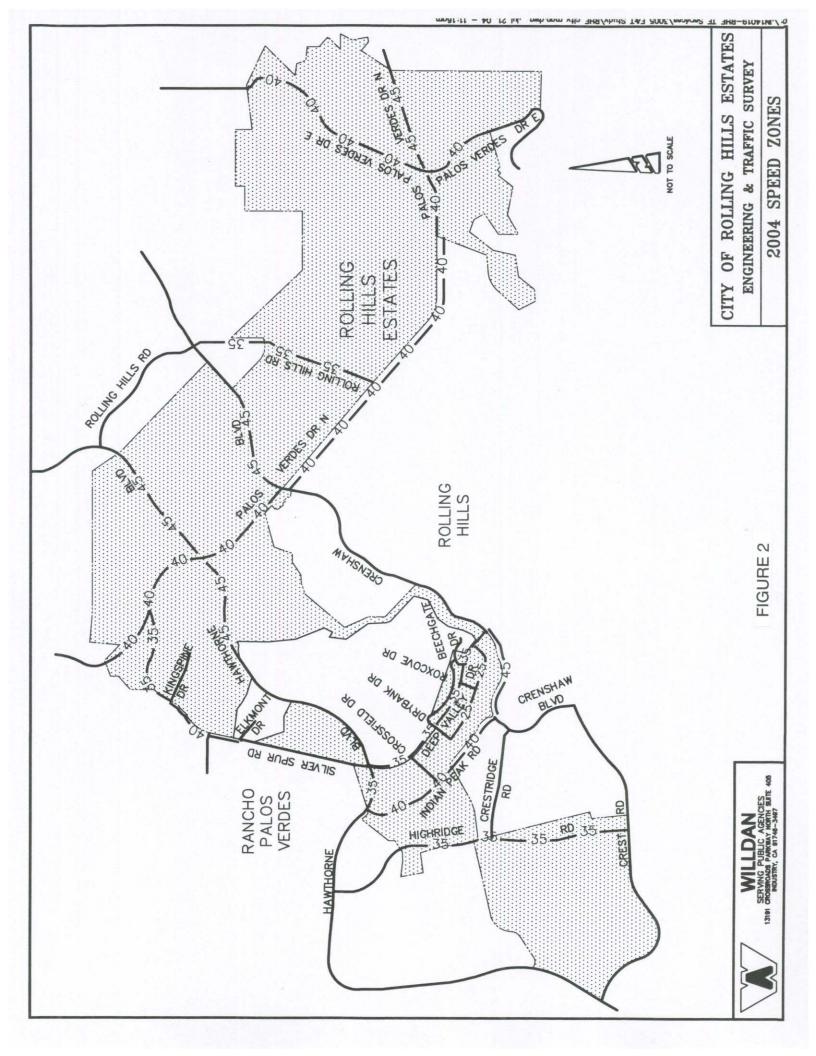
The Legislature, in adopting Section 22358.5 of the California Vehicle Code (CVC), has made it clear that physical conditions, such as width, curvature, grade and surface conditions, or any other condition readily apparent to a driver, in the absence of other factors, would not be the basis for special downward speed zoning. In these cases, the basic speed law (CVC Section 22350) is sufficient to regulate such conditions.

The recommendations contained in this Report are intended to establish prima facie speed limits. They are not intended to be absolute for all prevailing conditions. All prima facie speed violations are actually violations of the basic speed law (Section 22350 of California Vehicle Code). This statute states that a person shall not drive a vehicle at a speed greater than is safe having regard for traffic, roadway, and weather conditions. A prima facie limit is intended to establish a maximum safe speed under normal conditions.

		Tak	Table 2			Design of the second se
		Summary of Recommendations	commo	endation	SL	
			Posted Speed	Critical	Recommended	nol ii an nol ii
No. Street	From	То	Limit	Speed	Speed Limit	Comments
1 CRENSHAW BLVD	PALOS VERDES DR N	NORTH CITY LIMIT	45	53	45	*
2 CRENSHAW BLVD	INDIAN PEAK ROAD	SILVER SPUR ROAD	45	47	45	1ST INCREMENT BELOW 85TH
3 DEEP VALLEY DRIVE	DRY BANK DRIVE	ROXCOVE DRIVE	25	30	25	*
4 DEEP VALLEY DRIVE	ROXCOVE DRIVE	SILVER SPUR ROAD	. 25	31	25	*
5 HAWTHORNE BLVD	INDIAN PEAK ROAD	SILVER SPUR ROAD	35	34	35	INCREMENT CLOSEST TO 85TH
6 HAWTHORNE BLVD	SOUTH CITY LIMIT	PALOS VERDES DR N	45	53	45	*
7 HAWTHORNE BLVD	PALOS VERDES DR N	NORTH CITY LIMIT	45	52	45	*
8 HIGHRIDGE ROAD	CREST ROAD	CRESTRIDGE ROAD	35	44	35	*
9 HIGHRIDGE ROAD	CRESTRIDGE ROAD	NORTH CITY LIMIT	35	40	35	*
10 INDIAN PEAK ROAD	CRENSHAW BLVD	CROSSFIELD DRIVE	40	46	40	*
11 INDIAN PEAK ROAD	CROSSFIELD DRIVE	HAWTHORNE BLVD	40	39	40	INCREMENT CLOSEST TO 85TH
12 SILVER SPUR ROAD	HAWTHORNE BLVD	DRY BANK DRIVE	35	38	35	1ST INCREMENT BELOW 85TH
13 SILVER SPUR ROAD	DRY BANK DRIVE	CRENSHAW BLVD	35	44	35	*
14 PALOS VERDES DR E SOUTH CITY LIMIT	SOUTH CITY LIMIT	PALOS VERDES DR N	40	46	40	*
15 PALOS VERDES DR E PALOS VERDES DR N	PALOS VERDES DR N	NORTH CITY LIMIT	40	42	40	1ST INCREMENT BELOW 85TH

^{*} See "Segments with Special Conditions" Section for Comments





SEGMENTS WITH SPECIAL CONDITIONS

The following segments surveyed had recommended speed limits that were 5 miles per hour (mph) or more below the critical speed due to conditions not readily apparent to the driver. Each segment is discussed below.

Segment #1 - Crenshaw Blvd - Palos Verdes Drive North to North City Limit

This segment is currently posted at 45 mph and has three through lanes in each direction with an ADT of 25,754 vehicles per day. The adjacent land use is rural, fronting & non-fronting residential, school zone, and commercial properties. During the field review, light to moderate pedestrian activity from the adjacent school as well as moderate truck traffic were observed. The critical speed is 53 mph and would normally justify a 50 mph posted speed limit. However, due to the high collision rates, as well as the blind driveways and the school pedestrian traffic that may not be readily apparent to unfamiliar drivers as well as to maintain consistency with the posted speed limit in the adjacent segment to the south, the lower speed limit is prudent. It is recommended that the speed limit remain at 45 mph for the above reasons.

Segment #3 - Deep Valley Drive - Dry Bank Drive to Roxcove Drive

This segment is currently posted at 25 mph and has one through lane in each direction with an ADT of 4,266 vehicles per day. The adjacent land use is commercial properties. During the field review, heavy pedestrian traffic surrounding the adjacent shops and a public library were observed. The critical speed is 30 mph and would normally justify a 30 mph posted speed limit. However, due to the shopping and library pedestrian traffic, as well as the blind driveways that may not be apparent to unfamiliar drivers, the lower speed limit is prudent. It is recommended that the speed limit remain at 25 mph for the above reasons.

Segment #4 - Deep Valley Drive - Roxcove Drive to Silver Spur Road

This segment is currently posted at 25 mph and has one through lane in each direction with an ADT of 3,453 vehicles per day. The adjacent land use is commercial properties. During the field review, heavy pedestrian activity from the adjacent shops and post office, as well as unexpected blind driveways were observed that may not be readily apparent to the driver The critical speed is 31 mph and would normally justify a 30 mph posted speed limit. However, due to the shopping and postal pedestrian traffic, as well as the blind driveways that may not be apparent to unfamiliar drivers, the lower speed limit is prudent. It is recommended that the speed limit remain at 25 mph for the above reasons.

Segment #6 - Hawthorne Blvd - South City Limit to Palos Verdes Drive North

This segment is currently posted at 45 mph and has two through lanes in each direction with an ADT of 31,269 vehicles per day. The adjacent land use is undeveloped & non-fronting residential properties. During the field review, a steep downgrade with a runaway truck ramp was observed. The critical speed is 53 mph and would normally justify a 50 mph posted speed limit. However, due to the steep decline as well as to maintain consistency with the posted speed limit in the adjacent segment, the lower speed limit is prudent. It is recommended that the speed limit remain at 45 mph for the above reasons.

Segment #7 - Hawthorne Blvd - Palos Verdes Drive North to North City Limit

This segment is currently posted at 45 mph and has two through lanes in each direction with an ADT of 33,546 vehicles per day. The adjacent land use is equestrian, botanical gardens, undeveloped & non-fronting residential properties. During the field review, a steep downgrade and a park zone was observed. The critical speed is 52 mph and would normally justify a 50 mph posted speed limit. However, due to the steep decline as well as to maintain consistency with the posted speed limit in the adjacent segment, the lower speed limit is prudent. It is recommended that the speed limit remain at 45 mph for the above reasons.

Segment #8 - Highridge Road - Crest Road to Crestridge Road

This segment is currently posted at 35 mph and has two through lanes in each direction with an ADT of 4,632 vehicles per day. The adjacent land use is non-fronting residential properties with school and park zones. During the field review, a concrete path was observed on the west side of the roadway for pedestrians and bicycles. The critical speed is 44 mph and would normally justify a 40 mph posted speed limit. However, due to the proximity to school and park uses, pedestrian and bicycle traffic as well as to maintain consistency with the posted speed limit in the adjacent segment, the lower speed limit is prudent. It is recommended that the speed remain at 35 mph for the above reasons.

Segment #9 - Highridge Road - Crestridge Road to North City Limit

This segment is currently posted at 35 mph and has two through lanes in each direction with an ADT of 9,205 vehicles per day. The adjacent land use is non-fronting residential properties. During the field review, a park zone was observed as well as a concrete path for pedestrians and bicycles on the west side of the roadway. The critical speed is 40 mph and would normally justify a 40 mph posted speed limit. However, due to the proximity to school and park uses, pedestrian and bicycle traffic as well as to maintain consistency with the posted speed limit in the adjacent segment, the lower speed limit is prudent. It is recommended that the speed limit be remain at 35 mph for the above reasons.

Segment #10 - Indian Peak Road - Crenshaw Blvd to Crossfield Drive

This segment is currently posted at 40 mph and has one through lane in each direction with an ADT of 7,181 vehicles per day. The adjacent land use is commercial and undeveloped properties. During the field review, angled on-street parking was observed that requires drivers to back into the through lane to exit the parking spaces. The critical speed is 46 mph and would normally justify a 45 mph posted speed limit. However, due to the increased caution needed to back out of the angled parking spaces, the lower speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

Segment #13 - Silver Spur Road - Dry Bank Drive to Crenshaw Blvd

This segment is currently posted at 35 mph and has two through lanes in each direction with an ADT of 14,957 vehicles per day. The adjacent land use is commercial property. During the field review, a moderate pedestrian traffic, the existence of a landscaped divider, and several driveways were observed. The critical speed is 44 mph and would normally justify a 40 mph posted speed limit. However, due to high pedestrian use, numerous blind driveways, uncontrolled turning movements as well as to maintain consistency with the posted speed limit in the adjacent segment, the lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #14 – Palos Verdes Drive Ea. – South City Limit to Palos Verdes Drive No.

This segment is currently posted at 40 mph and has one to two through lanes in each direction with an ADT of 13,910 vehicles per day. The adjacent land use is rural, fronting residential properties. During the field review, a winding roadway with dirt shoulders, and blind driveways were observed that may not be readily apparent to the driver. The critical speed is 46 mph and would normally justify a 45 mph posted speed limit. However, due to the blind driveways and the narrow road with reduced visibility that may not be apparent to unfamiliar drivers, the lower speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

LEGISLATIVE REFERENCES

APPLICABLE SECTIONS OF CALIFORNIA VEHICLE CODE

SECTION 1. Section 627 of the Vehicle Code is amended to read:

Section 627.

- (a) "Engineering and traffic survey," as used in this code, means a survey of highway and traffic conditions in accordance with methods determined by the Department of Transportation for use by state and local authorities.
- (b) An engineering and traffic survey shall include, among other requirements deemed necessary by the department, consideration of all of the following:
 - (1) Prevailing speeds as determined by traffic engineering measurements.
 - (2) Accident records.
 - (3) Highway, traffic, and roadside conditions not readily apparent to the driver.
- (c) When conducting an engineering and traffic survey, local authorities, in addition to the factors set forth in paragraphs (1) to (3), inclusive, of subdivision (b) may consider all of the following:
 - (1) Residential density.
 - (2) Pedestrian and bicyclist safety.

Basic Speed Law

22350. No person shall drive a vehicle upon a highway at a speed greater than is reasonable or prudent having due regard for weather, visibility, the traffic on, and the surface and width of, the highway, and in no event at a speed which endangers the safety of persons or property.

Speed Law Violations

Section 22351.

- (a) The speed of any vehicle upon a highway not in excess of the limits specified in Section 22352 or established as authorized in this code is lawful unless clearly proved to be in violation of the basic speed law.
- (b) The speed of any vehicle upon a highway in excess of the prima facie speed limits in Section 22352 or established as authorized in this code is prima facie unlawful unless the defendant establishes by competent evidence that the speed in excess of said limits did not constitute a violation of the basic speed law at the time, place and under the conditions then existing.

Prima Facie Speed Limits

Section 22352.

- (a) The prima facie limits are as follows and shall be applicable unless changed as authorized in this code and, if so changed, only when signs have been erected giving notice thereof:
 - (1) Fifteen mph
 - A) When traversing a railway grade crossing, if during the last 100 feet of the approach to the crossing the driver does not have clear and unobstructed view of the crossing and of any traffic on the railway for a distance of 400 feet in both directions along such railway. This subdivision does not apply in the case of any railway grade crossing where a human flagman is on duty or a clearly visible electrical or mechanical railway crossing signal device is installed but does not then indicate the immediate approach of a railway train or car.
 - B) When traversing any intersection of highways, if during the last 100 feet of his approach to the intersection, the driver does not have a clear and unobstructed view of the intersection and of any traffic upon all of the highways entering the intersection for a distance of 100 feet along all such highways, except at an intersection protected by stop signs or yield right-of-way signs or controlled by official traffic control signals.
 - C) On any alley.

(2) Twenty-five mph

- A) On any highway other than a state highway, in any business or residence district unless a different speed is determined by local authority under procedures set forth in this code.
- (B) When approaching or passing a school building or the grounds thereof, contiguous to a highway and posted with a standard "SCHOOL" warning sign, while children are going to or leaving the school either during school hours or during the noon recess period. The prima facie limit shall also apply when approaching or passing any school grounds which are not separated from the highway by a fence, gate or other physical barrier while the grounds are in use by children and the highway is posted with a standard "SCHOOL" warning sign. For purposes of this subparagraph, standard "SCHOOL" warning signs may be placed at any distance up to 500 feet away from school grounds.
- (C) When passing a senior center or other facility primarily used by senior citizens, contiguous to a street other than a state highway and posted with a standard "SENIOR" warning sign. A local authority is not required to erect any sign pursuant to this paragraph until donations from private sources covering those costs are received and the local agency makes a determination that the proposed signing should be implemented. A local authority may, however, utilize any other funds available to it to pay for the erection of those signs.
- (3) Thirty-five miles per hour on any highway, other than a state highway, in any moderate density residential district, as defined in subdivision (b) of Section 22352.1, when posted with a sign giving notice of that speed limit, unless a different speed is determined by local authority under procedures set forth in this code. (applies to Town of Apple Valley only)

Increase of Local Limits

Section 22357.

- (a) Whenever a local authority determines upon the basis of an engineering and traffic survey that a speed greater than 25 miles per hour (mph) would facilitate the orderly movement of vehicular traffic and would be reasonable and safe upon any street other than a state highway otherwise subject to a prima facie limit of 25 mph, the local authority may by ordinance determine and declare a prima facie speed limit of 30, 35, 40, 45, 50, 55 or 60 mph or a maximum speed limit of 65 mph, whichever is found most appropriate to facilitate the orderly movement of traffic and is reasonable and safe. The declared prima facie or maximum speed limit shall be effective when appropriate signs giving notice thereof are erected upon the street and shall not thereafter be revised except upon the basis of an engineering and traffic survey. This section does not apply to any 25 mph prima facie limit, which is applicable when passing a school building or the grounds thereof or when passing a senior center or other facility primarily used by senior citizens.
- (b) This section shall become operative on the date specified in subdivision (c) of Section 22366.

If over 55 mph Maximum Speed for Designated Vehicles

Section 22406.

- (a) No person may drive any of the following vehicles on a highway at a speed in excess of 55 mph:
 - (1) A motortruck or truck tractor having three or more axles or any motortruck or truck tractor drawing any other vehicle.
 - (2) A passenger vehicle or bus drawing any other vehicle.
 - (3) A school bus transporting any school pupil.
 - (4) A farm labor vehicle when transporting passengers.
 - (5) A vehicle transporting explosives.
 - (6) A trailer bus, as defined in Section 636.
- (b) Any person who operates a commercial motor vehicle, as defined in Section 15210, upon a highway at a speed exceeding a maximum speed limit established under this code by 15 mph or more, is guilty of a misdemeanor. A violation of this subdivision shall be considered a "serious traffic violation," as defined in subdivision (i) of Section 15210, and shall be subject to the sanctions provided under Section 15306 or 15308, in addition to any other penalty provided by law.

Downward Speed Zoning

Section 22358.5.

It is the intent of the Legislature that physical conditions such as width, curvature, grade and surface conditions, or any other condition readily apparent to a driver, in the absence of other factors, would not require special downward speed zoning, as the basic rule of Section 22350 is sufficient regulation as to such conditions.

Boundary Line Streets

Section 22359.

With respect to boundary line streets and highways where portions thereof are within different jurisdictions, no ordinance adopted under Sections 22357 and 22358 shall be effective as to any such portion until all authorities having jurisdiction of the portions of the street concerned have approved the same. This section shall not apply in the case of boundary line streets consisting of separate roadways within different jurisdictions.

Speedtrap Prohibition

Section 40801.

No peace officer or other person shall use a speedtrap in arresting, or participating or assisting in the arrest of, any person for any alleged violation of this code nor shall any speedtrap be used in securing evidence as to the speed of any vehicle for the purpose of an arrest or prosecution under this code.

Speedtrap

Section 40802.

- (a) A "speedtrap" is either of the following:
 - (1) A particular section of a highway measured as to distance and with boundaries marked, designated, or otherwise determined in order that the speed of a vehicle may be calculated by securing the time it takes the vehicle to travel the known distance.
 - (2) A particular section of a highway with a prima facie speed limit that is provided by this code or by local ordinance under subparagraph (A) of paragraph (2) of subdivision (a) of Section 22352, or established under Section 22354, 22357, 22358, or 22358.3, if that prima facie speed limit is not justified by an engineering and traffic survey conducted within 5 years prior to the date of the alleged violation, and enforcement of the speed limit involves the use of radar or any other electronic device that measures the speed of moving object. This paragraph does not apply to a local street, road, or school zone.
- (b)(1) For purposes of this section, a local street or road is defined by the latest functional usage and federal-aid system maps submitted to the federal Highway Administration, except that when these maps have not been submitted, or when the street or road is not shown on the maps, a "local street or road" means a street or road that primarily provides access to abutting residential property and meets the following three conditions:
 - (A) Roadway width of not more than 40 feet.
 - (B) Not more than one-half mile of a uninterrupted length. Interruptions shall include official traffic control devices as defined in Section 445.
 - (C) Not more than one traffic lane in each direction.

- (2) For purposes of this section "School Zone" means that area of road contiguous to a school building or the grounds thereof, and on which is posted a standard "SCHOOL" warning sign, while children are going to or leaving the school wither during school hours or during the noon recess period.
- (c)(1) When all the following criteria are met, paragraph (2) of this subdivision shall be applicable and subdivision (a) shall not be applicable:
 - (A) When radar is used, the officer issuing the citation has successfully completed a radar operator course of not less than 24 hours on the use of police traffic radar, and the course was approved and certified by the Commission on Peace Officer Standards and Training.
 - (B) When laser or any other electronic device is used to measure the speed of moving objects, the officer issuing the notice to appear has successfully completed the training required in subparagraph (A) and an additional training course of not less than 2 hours approved and certified by the Commission on Peace Officer Standards and Training.
 - (C)(i) The prosecution proved that the officer complied with subparagraphs (A) and (B) and that an engineering and traffic survey has been conducted in accordance with subparagraph (B) of paragraph (2). The prosecution proved that, prior to the officer issuing the notice to appear, the officer establish that the radar, laser, or other electronic device conformed to the requirements of subparagraph (D).
 - (ii) The prosecution proved the speed of the accused was unsafe for the condition present at the time of alleged violation unless the citation was for a violation of Section 22349, 22356, or 22406.
 - (D) The radar, laser, or other electronic device used to measure the speed of the accused meets or exceeds the minimal operational standards of the National Traffic Highway Safety Administration, and has been calibrated within the 3 years prior to the date of the alleged violation by an independent certified laser or radar repair and testing or calibration facility.
 - (2) A "speedtrap" is either of the following:
 - (A) A particular section of a highway measured as to distance and with boundaries marked, designated, or otherwise determined in order that the speed of a vehicle may be calculated by securing the time it takes the vehicle to travel the known distance.
 - (B)(i) A particular section of a highway or state highway with a prima facie speed limit that is provided by this code or by local ordinance under subparagraph (A) of paragraph (2) of subdivision (a) of Section 22352, or established under Section 22354, 22357, 22358, or 22358.3, if that prima facie speed limit is not justified by an engineering and traffic survey conducted within one of the following time periods, prior to the date of the alleged violation, and enforcement of speed limit involves the use of radar or any other electronic device that measures the speed of moving objects:
 - Except as specified in subclause (II), 7 years.
 - (II) If an engineering and traffic survey was conducted more than 7 years prior to the date of the alleged violation, and a registered engineer evaluates the

section of the highway and determines that no significant changes in roadway or traffic condition have occurred including, but not limited to, changes in adjoining property or land use, roadway width, or traffic volume, 10 years.

(ii) This subparagraph does not apply to a local street, road, or school zone.

Speedtrap Evidence

Section 40803.

- (a) No evidence as to the speed of a vehicle upon a highway shall be admitted in any court upon the trial of any person in any prosecution under this code upon a charge involving the speed of a vehicle when the evidence is based upon or obtained from or by the maintenance or use of a speedtrap.
- (b) In any prosecution under this code of a charge involving the speed of a vehicle, where enforcement involves the use of radar or other electronic devices which measure the speed of moving objects, the prosecution shall establish, as part of its prima facie case, that the evidence or testimony presented is not based upon a speedtrap as defined in paragraph (2) of subdivision (a) of Section 40802.
- (c) When a traffic and engineering survey is required pursuant to paragraph (2) of subdivision (a) of Section 40802, evidence that a traffic and engineering survey has been conducted within 5 years of the date of the alleged violation or evidence that the offense was committed on a local street or road as defined in paragraph (2) of subdivision (a) of Section 40802 shall constitute a prima facie case that the evidence or testimony is not based upon a speedtrap as defined in paragraph (2) subdivision (a) of Section 40802.

APPENDIX A

Street Segment Data

1

STREET CRENSHAW BLVD

CERTIFICATION DATE

Speed Justification

FROM

PALOS VERDES DR N

TO NORTH CITY LIMIT

SPEED FACTORS

Date of Speed Survey 4/8/2004 Time of Speed Survey 10:15

Posted Speed Limit 45 mph

50th Percentile Speed (Mean Speed)

49 mph

25MPH SCHOOL ZONE, MATCH

85th Percentile Speed

53 mph 45-54 ADJACENT SEGMENT

10 mph Pace Speed
Percentage of Vehicles in Pace

75

104

Recommended Speed Limit 45 mph

Number of Survey Samples
COLLISION HISTORY

Number of Years Studied

2 years

Total Collisions

5

Annual Collision Rate

2.5 accidents/year

Collisions per Million Vehicle Miles

0.364

TRAFFIC FACTORS

Average Daily Traffic

25,754

Date Counted

5/7/2004

Number of Lanes

6 LANES, +LT LANES, SOME MEDIANS

Type of Traffic Control

T.S. @ ROLLING HILLS RD, PVDN

Crosswalks?
Pedestrian Traffic

@ ALL T.S. MODERATE

Truck Traffic

MODERATE NSAT, BOTH SIDES

On-Street Parking Sidwalks?

BOTH SIDES PORTIONS

Driveways?

SOME

ROADWAY FACTORS

Length of Segment Width

0.730 miles 83.5 feet

Vertical Curve?

STEEP DOWNGRADE N/B

Horizontal Curve?

LARGE RADIUS CURVES

Visibility

Lighting

FAIR, EXCEPT SOME BLIND DRIVEWAYS

Roadway Conditions

GOOD, NEW OVERLAY E/S,N/O & W/S,S/O HID. LN

Adjacent Land Use

COMM'L, UNDEV, FRONT'G & NON-FRONT'G RES, SCHOOL

Field Study By

МН

Checked By

EHZ

CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traffic Survey within the City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

Erik Zandvliet

7/23/

TE 1775

State Registration Number

2

STREET	CRENSHAW BLVD	CERTIFICATION DATE
FROM	INDIAN PEAK ROAD	TO SILVER SPUR ROAD
SPEED FAC	CTORS	
Date of Speed Time of Speed 50th Percentil 85th Percentil 10 mph Pace Percentage of	d Survey d Survey le Speed (Mean Speed) le Speed Speed f Vehicles in Pace urvey Samples I HISTORY ears Studied	4/8/2004 Posted Speed Limit 45 mph 11:10 Speed Justification 42 mph 1ST INCREMENT BELOW 85TH 47 mph 38-47 Recommended Speed Limit 45 mph 67 103
	r Million Vehicle Miles	0 accidents/year 0.000
TRAFFIC FA Average Daily Number of La Type of Traffic Crosswalks? Pedestrian Tra Truck Traffic On-Street Par Sidwalks? Driveways?	Traffic nes c Control affic king	22,361 Date Counted 5/6/2004 4 LANES, DIVIDED BY K-RAIL T.S. @ INDIAN PEAK, SILVER SPUR @ SILVER SPUR RD. LIGHT LIGHT NSAT W/S, NPAT E/S E/S ONLY, NONE W/S NONE
ROADWAY Length of Seg Width Vertical Curve Horizontal Cu Visibility Roadway Con Lighting Adjacent Land	rve?	0.380 miles 83.5 feet STEEP DOWNGRADE N/B MODERATE RADIUS CURVES FAIR GOOD @ SILVER SPUR RD INT ONLY UNDEVELOPED, NON-FRONT'G RESIDENTIAL, NURSERY SCHO

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Erik Zandvliet

Date

TE 1775

State Registration Number

CITY OF ROLLING HILLS ESTATES ENGINEERING AND TRAFFIC SURVEY

DEEP VALLEY DRIVE STREET **CERTIFICATION DATE FROM** DRY BANK DRIVE **ROXCOVE DRIVE** TO SPEED FACTORS **Date of Speed Survey** 4/8/2004 **Posted Speed Limit** 25 mph **Time of Speed Survey** 16:45 Speed Justification 50th Percentile Speed (Mean Speed) 26 mph BLIND DRIVEWAYS. 85th Percentile Speed 30 mph LIBRARY/BUSINESS PEDESTRIAN 10 mph Pace Speed 22-31 **Recommended Speed Limit** 25 mph Percentage of Vehicles in Pace 85 **Number of Survey Samples** 103 **COLLISION HISTORY Number of Years Studied** 2 years **Total Collisions** 1 **Annual Collision Rate** 0.5 accidents/year Collisions per Million Vehicle Miles 1.235 TRAFFIC FACTORS **Average Daily Traffic** 4.266 **Date Counted** 5/6/2004 **Number of Lanes** 2 LANES, UNDIVIDED Type of Traffic Control YIELD @ DRY BANK Crosswalks? @ ROXCOVE, MDWAY, DRY BNK **Pedestrian Traffic** HEAVY **Truck Traffic** NONE **On-Street Parking** ON STREET, TIME LIMIT Sidwalks? **BOTH SIDES Driveways?** MANY **ROADWAY FACTORS** Length of Segment 0.260 miles Width 34-40 feet **Vertical Curve?** MODERATE DOWNGRADE E/B **Horizontal Curve?** SLIGHT CURVE Visibility FAIR **Roadway Conditions** FAIR Lighting AT INTERSECTION, MIDBLOCK Adjacent Land Use COMMERCIAL BOTH SIDES MH Field Study By Checked By **EHZ** CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traffic Survey within the

City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

and Employent 7/23/04

TE 1775

Erik Zandvliet

Date

State Registration Number

4

	DEEP VALLEY DRIV	/E CERTIFICATION DATE TO SILVER SPUR ROAD
85th Percentile 10 mph Pace Sp	Survey Survey Speed (Mean Speed) Speed peed /ehicles in Pace	4/8/2004 Posted Speed Limit 25 mph 16:00 Speed Justification 28 mph BLIND DRIVEWAYS, BUSINESS 31 mph PEDESTRIAN CROSSINGS 24-33 Recommended Speed Limit 25 mph 86 100
COLLISION I Number of Year Total Collisions Annual Collisio Collisions per I	rs Studied	2 years 3 1.5 accidents/year 4.959
TRAFFIC FAC Average Daily T Number of Land Type of Traffic Crosswalks? Pedestrian Traf Truck Traffic On-Street Parki Sidwalks? Driveways?	Traffic es Control	3,453 Date Counted 5/6/2004 2 LANES, UNDIVIDED NONE @ ROXCOVE HEAVY NONE ON STREET, TIME LIMIT BOTH SIDES MANY
ROADWAY F Length of Segme Width Vertical Curve? Horizontal Curve Visibility Roadway Cond Lighting Adjacent Land	ve?	0.240 miles 40 feet NONE SHARP CURVE EAST END GOOD FAIR AT INTERSECTION, MIDBLOCK COMMERCIAL BOTH SIDES

CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traffic Survey within the City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

State Registration Number

TE 1775

5

STREET HAWTHORNE BLVD CERTIFICATION DATE INDIAN PEAK ROAD **FROM** TO SILVER SPUR ROAD SPEED FACTORS **Date of Speed Survey** 4/14/2004 **Posted Speed Limit** 35 mph Time of Speed Survey 10:35 Speed Justification 50th Percentile Speed (Mean Speed) 30 mph **CLOSEST TO 85TH** 85th Percentile Speed 34 mph 10 mph Pace Speed 25-34 **Recommended Speed Limit** 35 mph Percentage of Vehicles in Pace 84 **Number of Survey Samples** 100 COLLISION HISTORY Number of Years Studied 2 years **Total Collisions** 11 **Annual Collision Rate** 5.5 accidents/year Collisions per Million Vehicle Miles 2.182 TRAFFIC FACTORS Average Daily Traffic 31,389 **Date Counted** 5/7/2004 **Number of Lanes** 4 LANES. WITH MEDIAN AND LT LANES Type of Traffic Control T.S. @ INDIAN PEAK, SILVER SPUR Crosswalks? @ ALL T.S. **Pedestrian Traffic** HEAVY **Truck Traffic** MODERATE **On-Street Parking** ON STREET, TIME LIMIT Sidwalks? **BOTH SIDES** Driveways? MANY ROADWAY FACTORS **Length of Segment** 0.220 miles Width 80 feet **Vertical Curve?** NONE **Horizontal Curve?** LARGE RADIUS CURVE Visibility GOOD **Roadway Conditions** GOOD Lighting ON SOUTH SIDE ONLY **Adjacent Land Use** COMMERCIAL, HIGH SCHOOL NEARBY Field Study By MH Checked By EHZ

CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traffic Survey within the City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

Erik Zandvliet

Date

TE 1775

State Registration Number

6

STREET HAWTHORNE BLVD CERTIFICATION DATE **FROM** SOUTH CITY LIMIT PALOS VERDES DR N TO SPEED FACTORS **Date of Speed Survey Posted Speed Limit** 4/14/2004 45 mph **Time of Speed Survey** 09:25 Speed Justification 50th Percentile Speed (Mean Speed) 46 mph STEEP GRADE, MATCH ADJACENT 85th Percentile Speed 53 mph SEGMENT 10 mph Pace Speed 44-53 **Recommended Speed Limit** 45 mph Percentage of Vehicles in Pace 61 **Number of Survey Samples** 107 **COLLISION HISTORY Number of Years Studied** 2 years **Total Collisions** 5 **Annual Collision Rate** 2.5 accidents/year Collisions per Million Vehicle Miles 0.359 TRAFFIC FACTORS **Average Daily Traffic** 31.269 **Date Counted** 5/7/2004 **Number of Lanes** 4 LANES. WITH MEDIAN AND LT LANES Type of Traffic Control T.S. @ PALOS VERDES DR N Crosswalks? @ PALOS VERDES DR N **Pedestrian Traffic** NONE **Truck Traffic** MODERATE **On-Street Parking** ON STREET, TIME LIMIT, RED CB Sidwalks? NONE Driveways? **FEW** ROADWAY FACTORS **Length of Segment** 0.610 miles Width 80 feet **Vertical Curve?** STEEP DOWNGRADE N/B **Horizontal Curve?** LARGE RADIUS CURVES Visibility GOOD **Roadway Conditions** GOOD Lighting AT PVDN INTERSECTION ONLY **Adjacent Land Use** UNDEVELOPED SUBURBAN Field Study By MH Checked By FH_Z

CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traffic Survey within the City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the

State of California as a Professional Engineer (Traffic).

Erik Zandvliet Date State Registration Number

STREET	HAWTHORNE BLV	CERTIFICATION DATE
FROM	PALOS VERDES DE	R N TO NORTH CITY LIMIT
SPEED FA	CTORS	
85th Percent 10 mph Pace Percentage of	ed Survey ile Speed (Mean Speed) ile Speed	4/14/2004 Posted Speed Limit 45 mph 08:20 Speed Justification 48 mph STEEP DECLINE, MATCH ADJACENT 52 mph SEGMENT 43-52 Recommended Speed Limit 45 mph 71 119
Number of You Total Collision Annual Collis	ons	2 years 8 4 accidents/year 0.510
Average Daily Number of La Type of Traff Crosswalks? Pedestrian Truck Traffic	edestrian Traffic ruck Traffic MODERATE, 25MPH SPEED LMT ON STREET dwalks? W/S N OF HOWLETT PARK	
ROADWAY Length of Segwidth Vertical Curve Horizontal Curve Visibility Roadway Cor Lighting Adjacent Lan	gment e? urve?	0.640 miles 80 feet STEEP DOWNGRADE N/B NONE GOOD GOOD AT INTERSECTIONS ONLY SUBURB, NON-FRONTING RESIDENTIAL

Field Study By MH Checked By

CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traffic Survey within the City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

TE 1775

State Registration Number

EHZ

8

STREET	HIGHRIDGE ROAD	CERTIFICATION DATE	
FROM	CREST ROAD	TO CRESTRIDGE ROAD	
85th Percentil 10 mph Pace Percentage of	d Survey d Survey le Speed (Mean Speed) le Speed Speed f Vehicles in Pace urvey Samples I HISTORY ears Studied	6/2/2004 Posted Speed Limit 35 mph 17:00 Speed Justification 39 mph SCHOOL/PARK PEDS AND BIKES, 44 mph MATCH ADJ. SEGMENT 35-44 Recommended Speed Limit 35 mph 65 106	
Annual Collis Collisions per	ion Rate r Million Vehicle Miles	0 accidents/year 0.000	
Average Daily Number of La Type of Traffic Crosswalks? Pedestrian Track Traffic On-Street Par Sidwalks? Driveways?	Traffic nes c Control	4,632 Date Counted 5/6/2004 4 LANES, UNDIVIDED, WITH LT LANES T.S. @ CREST; STOP: CRESTRIDGE, WHITLEY COLLINS @ ALL T.S. AND STOPS HEAVY NONE NSAT; TIM LMT B/S, SCHL LOAD'G Y E/S; W/S CONC BIKE PATH NONE	
ROADWAY Length of Seg Width Vertical Curve Horizontal Cu Visibility Roadway Con Lighting Adjacent Lance	gment ?? rve? ditions	0.640 miles 54 feet MODERATE DOWNGRADES N-S/B NONE GOOD GOOD SOME @ INTER'S, MIDBLOCK NON-FRONTING RESIDENTIAL, SCHOOL, PARK	
	d Study By MH DN: I, Erik Zandvliet, do h	Checked By EHZ nereby certify that this Engineering and Traffic Survey within the	

CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traffic Survey within the City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

e of California as a Professional Engineer (Traffic).

TE 1775

Erik Zandvliet Date

State Registration Number

CITY OF ROLLING HILLS ESTATES ENGINEERING AND TRAFFIC SURVEY

HIGHRIDGE ROAD STREET CERTIFICATION DATE CRESTRIDGE ROAD FROM NORTH CITY LIMIT TO SPEED FACTORS **Date of Speed Survey** 4/14/2004 Posted Speed Limit 35 mph **Time of Speed Survey** 13:40 Speed Justification 50th Percentile Speed (Mean Speed) 36 mph SCHOOL/PARK PEDS AND BIKES. 85th Percentile Speed 40 mph MATCH ADJ. SEGMENT 10 mph Pace Speed 32-41 Recommended Speed Limit 35 mph Percentage of Vehicles in Pace 79 **Number of Survey Samples** 104 **COLLISION HISTORY Number of Years Studied** 2 years **Total Collisions** 1 **Annual Collision Rate** 0.5 accidents/vear Collisions per Million Vehicle Miles 0.354 TRAFFIC FACTORS **Average Daily Traffic** 9.205 **Date Counted** 5/7/2004 **Number of Lanes** 4 LANES, UNDIVIDED, WITH LT LANES Type of Traffic Control STOP @ TERRACE DR, CRESTRIDGE Crosswalks? @ ALL STOPS **Pedestrian Traffic** MODERATE **Truck Traffic** NONE **On-Street Parking** NSAT E/S, TIME LIMIT W/S Sidwalks? Y E/S; W/S CONC BIKE PATH **Driveways?** NONE **ROADWAY FACTORS** Length of Segment 0.420 miles Width 54-82 feet **Vertical Curve?** MODERATE DOWNGRADE S/B **Horizontal Curve?** LARGE RADIUS CURVES Visibility GOOD **Roadway Conditions** GOOD Lighting SOME @ INTER'S, MIDBLOCK **Adjacent Land Use** NON-FRONTING RESIDENTIAL MH Field Study By Checked By **EHZ**

CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traffic Survey within the City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

Erik Zandvliet Date State Registration Number

CITY OF ROLLING HILLS ESTATES ENGINEERING AND TRAFFIC SURVEY

STREET	INDIAN PEAK ROAD	OZITIII TOATION DATE
	CRENSHAW BLVD	TO CROSSFIELD DRIVE
85th Percentil 10 mph Pace Percentage of	d Survey d Survey le Speed (Mean Speed) le Speed	4/8/2004 Posted Speed Limit 40 mph 12:25 Speed Justification 40 mph ANGLED PARKING BACKING INTO 46 mph STREET, MATCH ADJ. SEGMENT 35-44 Recommended Speed Limit 40 mph 70 106
COLLISION Number of Ye Total Collision Annual Collisi Collisions per	ears Studied	2 years 1 0.5 accidents/year 0.454
TRAFFIC FA Average Daily Number of La Type of Traffic Crosswalks? Pedestrian Tra Truck Traffic On-Street Part Sidwalks? Driveways?	Traffic nes c Control	7,181 Date Counted 5/7/2004 2 LANES, + 2WY LT LANES, SOME MEDIANS T.S. @ CRENSHAW, CROSSFIELD, THEATER PKG LOT @ ALL T.S. MODERATE MODERATE NSAT SS; ANG'L N/S,E/O CRSSFLD S/S CONC BIKE; N/S WO PKG (1) EACH SIDE
ROADWAY Length of Seg Width Vertical Curve Horizontal Cur Visibility Roadway Con Lighting Adjacent Land	rve?	0.420 miles 38-60 feet STEEP DOWNGRADE W/B LARGE RADIUS CURVE GOOD GOOD AT INTERSECTIONS ONLY UNDEVELOPED S/S, COMMERCIAL N/S, NURSERY SCHOOL
CERTIFICATIO	d Study By MH DN: I, Erik Zandvliet, do h Hills Estates was perfor	Checked By EHZ nereby certify that this Engineering and Traffic Survey within the med under my supervision and is accurate and complete. I

City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

Yul Zurthlin 7/23/04 TE 1775
Erik Zandvliet Date State Registration Number

CITY OF ROLLING HILLS ESTATES ENGINEERING AND TRAFFIC SURVEY

FROM CROSSFIELD DRIVE TO HAWTHORNE BLVD SPEED FACTORS Date of Speed Survey 13:10 Speed Justification 50th Percentile Speed (Mean Speed) 35 mph CLOSEST TO 85TH 85th Percentile Speed 39 mph 10 mph Pace Speed 29-38 Recommended Speed Limit 40 mph Percentage of Vehicles in Pace 83 Number of Survey Samples 103 COLLISION HISTORY Number of Years Studied 2 years Total Collisions 4 Annual Collision Rate 2 accidents/year Collisions per Million Vehicle Miles 1.754 TRAFFIC FACTORS Average Daily Traffic 7,812 Date Counted 5/6/2004 Number of Lanes 4 LANES, + 2WY LT LANES Type of Traffic Control T.S. @ CROSSFIELD, HAWTHORNE Crosswalks? @ ALL T.S. Pedestrian Traffic MODERATE LIGHT On-Street Parking N/S LIMITED, NSAT; S/S NSAT Sidwalks? YES N/S; 500' EO HWTH S/S Driveways? FEW S/S; SEVERAL N/S ROADWAY FACTORS Length of Segment 0.400 miles Width 60 feet Vertical Curve? SLIGHT DOWNGRADE W/B Horizontal Curve? SLIGHT CURVE Visibility GOOD Roadway Conditions ON SOUTHSIDE ONLY	STREET	INDIAN PEAK ROAD	CERTIFICATION DATE
Date of Speed Survey 13:10 Speed Justification 50th Percentile Speed (Mean Speed) 35 mph CLOSEST TO 85TH 85th Percentile Speed 39 mph 10 mph Pace Speed 29-38 Recommended Speed Limit 40 mph Percentage of Vehicles in Pace 83 Number of Survey Samples 103 COLLISION HISTORY Number of Years Studied 2 years Total Collisions 4 Annual Collision Rate 2 accidents/year Collisions per Million Vehicle Miles 1.754 TRAFFIC FACTORS Average Daily Traffic 7,812 Date Counted 5/6/2004 Number of Lanes 4 LANES, + 2WY LT LANES Type of Traffic Control T.S. @ CROSSFIELD, HAWTHORNE Crosswalks? @ ALL T.S. Pedestrian Traffic MODERATE Truck Traffic LIGHT On-Street Parking N/S LIMITED, NSAT; S/S NSAT Sidwalks? YES N/S; 500' EO HWTH S/S Priveways? FEW S/S; SEVERAL N/S ROADWAY FACTORS Length of Segment Width 60 feet Vertical Curve? Visibility GOOD Roadway Conditions	FROM	CROSSFIELD DRIVE	E TO HAWTHORNE BLVD
TRAFFIC FACTORS Average Daily Traffic 7,812 Date Counted 5/6/2004 Number of Lanes 4 LANES, + 2WY LT LANES Type of Traffic Control T.S. @ CROSSFIELD, HAWTHORNE Crosswalks? @ ALL T.S. Pedestrian Traffic MODERATE Truck Traffic LIGHT On-Street Parking N/S LIMITED, NSAT; S/S NSAT Sidwalks? YES N/S; 500' EO HWTH S/S Driveways? FEW S/S; SEVERAL N/S ROADWAY FACTORS Length of Segment 0.400 miles Width 60 feet Vertical Curve? SLIGHT DOWNGRADE W/B Horizontal Curve? SLIGHT CURVE Visibility GOOD Roadway Conditions	Date of Speed Time of Speed 50th Percential 10 mph Pace Percentage of Number of Science Collision Annual Collision Total Collision Annual Collision Time 1 me 1	d Survey d Survey de Survey de Speed (Mean Speed) de Speed Speed of Vehicles in Pace durvey Samples N HISTORY dears Studied dears design Rate	13:10 Speed Justification 35 mph CLOSEST TO 85TH 39 mph 29-38 Recommended Speed Limit 40 mph 83 103 2 years 4 2 accidents/year
Length of Segment Width 60 feet Vertical Curve? SLIGHT DOWNGRADE W/B Horizontal Curve? SLIGHT CURVE Visibility GOOD Roadway Conditions GOOD	TRAFFIC F Average Daily Number of La Type of Traffi Crosswalks? Pedestrian Tr Truck Traffic On-Street Par Sidwalks?	ACTORS y Traffic anes ic Control	7,812 Date Counted 5/6/2004 4 LANES, + 2WY LT LANES T.S. @ CROSSFIELD, HAWTHORNE @ ALL T.S. MODERATE LIGHT N/S LIMITED, NSAT; S/S NSAT YES N/S; 500' EO HWTH S/S
Adjacent Land Use UNDEVELOPED S/S, COMMERCIAL N/S Field Study By MH Checked By EHZ	Length of Seg Width Vertical Curv Horizontal Cu Visibility Roadway Cou Lighting Adjacent Lan	gment e? urve? nditions d Use	60 feet SLIGHT DOWNGRADE W/B SLIGHT CURVE GOOD GOOD ON SOUTHSIDE ONLY UNDEVELOPED S/S, COMMERCIAL N/S

City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

Erik Zandvliet Date State Registration Number

CITY OF ROLLING HILLS ESTATES ENGINEERING AND TRAFFIC SURVEY

STREET	SILVER SPUR ROA HAWTHORNE BLVI	OZINII IOANION DATE
SPEED FAC	CTORS	TO DITT DITTE
Date of Speed Time of Speed 50th Percentil 85th Percentil 10 mph Pace S	Survey d Survey e Speed (Mean Speed) e Speed Speed Vehicles in Pace	4/8/2004 Posted Speed Limit 35 mph 14:10 Speed Justification 34 mph 18T INCREMENT BELOW 85TH 38 mph 29-38 Recommended Speed Limit 35 mph 78 101
COLLISION Number of Yea Total Collision Annual Collisi Collisions per	ars Studied	2 years 1 0.5 accidents/year 0.207
TRAFFIC FA Average Daily Number of Lai Type of Traffic Crosswalks? Pedestrian Tra Truck Traffic On-Street Park Sidwalks? Driveways?	Traffic nes c Control	17,400 Date Counted 5/7/2004 4 LANES, WITH MEDIAN AND LT LANES T.S. @ CROSSFIELD, PENNINSULA CTR., HAWTHORNE @ ALL T.S. MODERATE LIGHT ON STREET, TIME LIMIT BOTH SIDES SEVERAL
ROADWAY Length of Segretary Width Vertical Curve Horizontal Curve Visibility Roadway Cond Lighting Adjacent Land	ment ? ve? ditions	0.380 miles 79 feet MODERATE DOWNGRADE E/B LARGE RADIUS CURVE GOOD GOOD ON CENTER DIVIDER MEDIAN COMMERCIAL BOTH SIDES, HIGH SCHOOL NEARBY
CERTIFICATIO	d Study By MH N: I, Erik Zandvliet, do I	Checked By EHZ hereby certify that this Engineering and Traffic Survey within the rmed under my supervision and is accurate and complete. I

City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

Erik Zandvliet Date State Registration Number

CITY OF ROLLING HILLS ESTATES ENGINEERING AND TRAFFIC SURVEY

SILVER SPUR ROAD STREET **CERTIFICATION DATE** FROM DRY BANK DRIVE CRENSHAW BLVD TO SPEED FACTORS **Date of Speed Survey** 4/8/2004 Posted Speed Limit 35 mph **Time of Speed Survey** 15:05 Speed Justification 50th Percentile Speed (Mean Speed) 38 mph HIGH PEDS, TURNING MVMTS, MATCH 85th Percentile Speed 44 mph ADJ. SEGMENT 10 mph Pace Speed 33-42 **Recommended Speed Limit** 35 mph Percentage of Vehicles in Pace 67 **Number of Survey Samples** 100 **COLLISION HISTORY Number of Years Studied** 2 years **Total Collisions** 5 Annual Collision Rate 2.5 accidents/year Collisions per Million Vehicle Miles 0.898 TRAFFIC FACTORS **Average Daily Traffic** 14,957 **Date Counted** 5/6/2004 **Number of Lanes** 4 LANES, WITH MEDIAN AND LT LANES Type of Traffic Control T.S. @ CRENSHAW, BEECHGATE, DRY BANK Crosswalks? @ ALL T.S. **Pedestrian Traffic** MODERATE **Truck Traffic MODERATE On-Street Parking** ON STREET, TIME LIMIT S/S Sidwalks? **BOTH SIDES** Driveways? **SEVERAL** ROADWAY FACTORS **Length of Segment** 0.510 miles Width 78 feet **Vertical Curve?** SLIGHT DOWNGRADE E/B **Horizontal Curve?** SLIGHT CURVE Visibility GOOD **Roadway Conditions** GOOD Lighting ON CENTER DIVIDER MEDIAN **Adjacent Land Use** COMMERCIAL BOTH SIDES MH Field Study By Checked By FH7 CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traffic Survey within the City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I

certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

Erik Zandvliet Date State Registration Number

CITY OF ROLLING HILLS ESTATES ENGINEERING AND TRAFFIC SURVEY

STREET	PALOS VERDES DE	RE CERTIFICATION DATE
FROM	SOUTH CITY LIMIT	TO PALOS VERDES DR N
85th Percenti 10 mph Pace Percentage o	d Survey ed Survey ile Speed (Mean Speed) ile Speed	4/14/2004 Posted Speed Limit 40 mph 14:30 Speed Justification 42 mph NARROW STREET, BLIND DRIVEWAYS, 46 mph REDUCED VISIBILITY 38-47 Recommended Speed Limit 40 mph 81 108
COLLISION Number of Ye Total Collision Annual Collis Collisions pe	ears Studied	2 years 0 0 accidents/year 0.000
TRAFFIC F Average Daily Number of La Type of Traffic Crosswalks? Pedestrian Tr Truck Traffic On-Street Par Sidwalks? Driveways?	y Traffic anes ic Control	13,910 Date Counted 5/7/2004 2-4 LANES, UNDIVIDED T.S. @ PVDN @ T.S.; 2-MIDBLOCK XINGS LIGHT LIGHT B/S ON DIRT SHOULDERS DIRT SHOULDERS MANY
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CERTIFICATION	Id Study By MH ON: I, Erik Zandvliet, do h	Checked By EHZ nereby certify that this Engineering and Traffic Survey within the med under my supervision and is accurate and complete. I

CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traffic Survey within the City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

Erik Zandvliet

TE 1775

Date

State Registration Number

CITY OF ROLLING HILLS ESTATES ENGINEERING AND TRAFFIC SURVEY

Number of Lanes Type of Traffic Control T.S. @ PVDN Crosswalks? Pedestrian Traffic Truck Traffic On-Street Parking Sidwalks? Driveways? Length of Segment Width Vertical Curve? Horizontal Curve? Number of Lanes 2-4 LANES, UNDIVIDED, MEDIAN AT T.S. @ PVDN TO S. W.	
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Visibility FAIR Roadway Conditions GOOD	
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Lighting AT PVDN INTERSECTION ONLY	
Adjacent Land Use SUBURB, NON-FRONTING RESIDENTIAL, O	COMMERCIAL, GOLF
Field Study By MH Checked By EHZ CERTIFICATION: I, Erik Zandvliet, do hereby certify that this Engineering and Traff	fic Survey within the

City of Rolling Hills Estates was performed under my supervision and is accurate and complete. I certify that City staff is experienced in performing surveys of this type. I am duly registered in the State of California as a Professional Engineer (Traffic).

Erik Zandvliet Date State Registration Number

Radar Speed Distribution Forms

													S	SPOT	SPE	EED SUR	VEY						
Street			CR	EN	SH	AW	BL	.VD)				_	Da	ate		4/8/20	04			50th %	49	MPH
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CRENSHAW BLVD	Date	4	1/8/2004	1	50th %	42	MPH
Indian Peak Rd to Silver Spur Rd	_ Begin _1	1:10	End	11:40	85th %	47	MPH
N-S	Weather		CLOUE	Y	10MPH	38	47
500' No of Indian Peak Rd	_ Recorded b	by _	M.	H.	% in Pace _	67	7%
	Indian Peak Rd to Silver Spur Rd N-S	Indian Peak Rd to Silver Spur Rd N-S Weather	Indian Peak Rd to Silver Spur Rd Begin 11:10 N-S Weather	Indian Peak Rd to Silver Spur Rd Begin 11:10 End N-S Weather CLOUD	Indian Peak Rd to Silver Spur Rd Begin 11:10 End 11:40 N-S Weather CLOUDY	Indian Peak Rd to Silver Spur Rd Begin 11:10 End 11:40 85th % N-S Weather CLOUDY 10MPH	Indian Peak Rd to Silver Spur Rd Begin 11:10 End 11:40 85th % 47 N-S Weather CLOUDY 10MPH 38

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Street	DEEP VALLEY ROAD	_ Date _		4/8/2004	1	50th %	26	MPH
Location	Dry Bank Drive to Roxcove Drive	Begin	16:45	End	17:15	85th %	30	MPH
Direction	E-W	Weather		CLOU	Y	10MPH	22	31
Remarks	200' W/O ROXCOVE DR	Recorded	by	M	Н	% in Pace	85	5%

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Street	DEEP VALLEY ROAD	Date _		4/8/2004	1	50th %	28	MPH
Location	Roxcove Drive to Silver Spur Rd	Begin _1	16:00	End	17:40	85th %	31	MPH
Direction	E-W	Weather		CLOUE	Y	10MPH	24	33
Remarks	Roxcove Drive crosswalk, E-leg	Recorded	by	M.	Н.	% in Pace	86	5%

marks																										_	% in Pace		5%
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Street	HAWTHORNE BOULEVARD	Date	4/14/2004	50th %	30	MPH
Location	Indian Peak Road to Silver Spur Road	Begin10:35	End 11:00	85th %	34	MPH
Direction	N-S	Weather	SUNNY	10MPH	25	34
Remarks	MIDWAY	Recorded by	M. H.	% in Pace	8	4%
MPH	NUMBER OF VEH 5 10 15	HICLES 20	25 3	Number of Vehicles	Percent of	Cumulative

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Street	HAWTHORNE BOULEVARD	Date		4/14/200	4	50th %	46	MPH
Location	So City Limit to Palos Verdes Dr N	Begin	9:25	End	10:15	85th %	53	MPH
Direction	N-S	Weathe	r	SUNN	Υ	10MPH	44	53
Remarks	MIDWAY	Recorde	ed by	M	. Н.	% in Pace	6	1%

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Street	HAWTHORNE BOULEVARD	Date	4/14/2004	50th %	48	MPH
Location	Palos Verdes Dr N to North City Limit	Begin 8:20	End 8:55	85th %	52	MPH
Direction	N-S	Weather	CLOUDY	10MPH	43	52
Remarks	150' NO OF HOWLETT PARK DWY	Recorded by	M. H.	% in Pace	7	1%

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Street	HIGHRIDGE ROAD	Date	6/2/2004	50th %	39	MPH
Location	Crest Road to Crestridge Road	Begin 17	7:00 End _18:20	85th %	44	MPH
Direction	N-S	Weather _	SUNNY	10MPH	35	44
Remarks	1500' S/O CRESTRIDGE DR	_ Recorded by	у М. Н.	% in Pace	6	5%
MDII	AU MARER CELV					

PH		_		_	_	_	_		_	_	N	UM	BEF	3 01	F VF	HIC	CLE	S	_	_			_			T	Number of	Percent of	Cumulativ
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Street	HIGHRIDGE ROAD	Date	4/14/2004	50th %	36	MPH
Location	Crestridge Road to North City Limit	Begin 13:40	End 14:05	85th %	40	MPH
Direction	N-S	Weather	SUNNY	10MPH	32	41
Remarks	1000' N/O CRESTRIDGE RD	Recorded by	M. H.	% in Pace	75	9%

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Direction	on		E-	W												W	eath	er _		CLOU	JD	Υ		10MPH	35	44
Remar	ks				ļ	500)' E	/0	CI	30	SS	FIE	ELD			Re	ecord	ded by		N	VI.	H.	_	% in Pace	70	0%
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Street	INDIAN PEA	K ROAD		Date		4/8/2004	4	į	50th %	35	MPH
Location	Crossfield Dr	to Hawthorne Blv	/d	Begin	13:10	End	13:40	8	85th %	39	MPH
Direction	E-W*			Weathe	r	CLOU	Y		10MPH	29	38
Remarks	E/O HAV	VTHORNE-MIDW	VAY	Recorde	ed by	M	. Н.	(% in Pace	83	3%
MPH		NUMBE	R OF VE	HICLES				Т	Number of	Percent of	Cumulative
	5	10	15	20		25		30	Vehicles	Total	Percentage

mar	NS		_	_ '	E/C	7 17	AV	VI	пС	יוויי	NE-	IVIII	DVV	AY		-	н	eco	rde	a by	-		IVI	. п.			% in Pace	83	3%
PH					5					10		UN	1BE)F V 15	EH	ICL		20			2	5			30	Number of Vehicles	Percent of Total	Cumulativ
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40	Х	0	0	0	0	Х	Х						П		\top	\top		П			\Box	\top	†	Н	\top	\forall	7	7%	94
			Х													\top					\Box	\top		\Box	\top	\vdash	4	4%	87
	0	X			Х	0										\top	T				\vdash			\Box		\forall	6	6%	83
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	0		Х				Х						П								\Box		\top	\Box	\top	Н	8	8%	67
35			_	_	Х	_	0	_	_	X	0			T	1	\top					\Box	\top	\top	\Box		Н	11	11%	59
		X					Х		X				П			\top	T					\top	\top	\Box		\forall	10	10%	49
	Х	X					0						П			\top	T				\Box	\top	\top	\Box		\vdash	9	9%	39
	Х						0						П			\top		П	\neg		\Box	\top	\top	\Box		\Box	10	10%	30
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Street	SILVER SPUR ROAD	Date	4/8/2004	50th %	34	MPH
Location	Dry Bank Drive to Hawthorne Blvd	Begin 14:1	0 End 14:50	85th %	38	MPH
Direction	E-W*	Weather	CLOUDY	10MPH	29	38
Remarks	N/O CROSSFIELD-MIDWAY	Recorded by	M. H.	% in Pace	7	8%

	(S		_	_	N/C) C	RC)S	SF	IEL	_D-	MII	DW	AY		_	F	Rec	ord	ed	by	-		VI.	Н.		,	% in Pace	78	3%
PH					5					10		UN	1BE)F V 15	'EH	HICL	ES	20)			25				30	Number of Vehicles	Percent of Total	Cumulativ
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Street	SILVER SPUR ROAD	Date		4/8/2004	1	50th %	38	MPH
Location	Dry Bank Drive to Crenshaw Blvd	Begin 1	5:05	End	15:45	85th %	44	MPH
Direction	E-W	Weather		CLOU	Y	10MPH	33	42
Remarks	400' w/o TWN&CNTRY/BEECHGATE	Recorded b	y	M.	Н.	% in Pace	67	7%

IPH					5					10		UM	BEI		F VI	EHI	CLE		20			0.5				30	Number of	Percent of	Cumulativ
65					3					10				T		T			-0		T	25				30	Vehicles 0	Total 0%	Percentag 100
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Street	PALOS VERDES DRIVE EAST	Date		1/14/200	14	50th %	42	MPH
Location	So City Limit to Palos Verdes Dr N	Begin	14:30	End	15:05	85th %	46	MPH
Direction	N-S	Weathe	r	SUNN	IY	10MPH	38	47
Remarks	ACROSS FROM HARBOR SIGHT DR	Recorde	ed by	М	. Н.	% in Pace	81	1%

mark				4Cr	10	33	rn	ON	/	AH	IDC	יחי	SIG	HI I	וטו	1	1	10	COIC	Jec	d by	_		IVI.	11.	-		% in Pace	8	1%
PH					5					10		UN	IBE		OF 15	VE	HIC	LE	S 2	0			25				30	Number of Vehicles	Percent of Total	Cumulativ
65					2															T								0	0%	100
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	0	0	X		X	O X	V	V							\vdash		+	+	+	+	+	+	+	-	+	+	\dashv	6	6%	79
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Street	PALOS VERDES DRIVE EAST	Date		/14/200	4	50th %	39	MPH
Location	Palos Verdes Dr N to North City Limit	Begin	15:15	End	15:50	85th %	42	MPH
Direction	N-S	Weather	r	SUNN	ΙΥ	10MPH	34	43
Remarks	500' S/O PENNSYLVANIA DR	Recorde	ed by	М	. Н.	% in Pace	86	6%

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APPENDIX B

Collision Rates

			Table 3	3				
			Collision Rates	Rates				
No	No. Street	From	To	Midblock Collisions (2 Years)	ADT*	Approx. Length of Segment (mi)	Calculated Accident Rate (Acc/MVM**)	Statewide Accident Rate*** (Acc/MVM)
-	CRENSHAW BLVD	PALOS VERDES DR N	NORTH CITY LIMIT	56	25,754	0.73	0.36	1.95
2	CRENSHAW BLVD	INDIAN PEAK ROAD	SILVER SPUR ROAD	19	22,361	0.38	00:00	2.10
က	DEEP VALLEY DRIVE	DRY BANK DRIVE	ROXCOVE DRIVE	10	4,266	0.26	1.24	3.05
4	DEEP VALLEY DRIVE	ROXCOVE DRIVE	SILVER SPUR ROAD	10	3,453	0.24	4.96	3.05
2	HAWTHORNE BLVD	INDIAN PEAK ROAD	SILVER SPUR ROAD	24	31,389	0.22	2.18	3.35
9	HAWTHORNE BLVD	SOUTH CITY LIMIT	PALOS VERDES DR N	10	31,269	0.61	0.36	1.85
7	HAWTHORNE BLVD	PALOS VERDES DR N	NORTH CITY LIMIT	5	33,546	0.64	0.51	1.85
ω	HIGHRIDGE ROAD	CREST ROAD	CRESTRIDGE ROAD	91	4,632	0.64	00.00	2.55
တ	HIGHRIDGE ROAD	CRESTRIDGE ROAD	NORTH CITY LIMIT	81	9,205	0.42	0.35	2.55
9	INDIAN PEAK ROAD	CRENSHAW BLVD	CROSSFIELD DRIVE	9	7,181	0.42	0.45	3.05
Ξ	INDIAN PEAK ROAD	CROSSFIELD DRIVE	HAWTHORNE BLVD	9	7,812	0.40	1.75	3.05
12	SILVER SPUR ROAD	HAWTHORNE BLVD	DRY BANK DRIVE	91	17,400	0.38	0.21	3.35
13	SILVER SPUR ROAD	DRY BANK DRIVE	CRENSHAW BLVD	16	14,957	0.51	06:0	3.35
4	PALOS VERDES DR E	SOUTH CITY LIMIT	PALOS VERDES DR N	2	13,910	0.62	0.00	3.05
15	PALOS VERDES DR E PALOS VERDES DR N	PALOS VERDES DR N	NORTH CITY LIMIT	165	10,649	1.01	0.00	3.05

Engineering and Traffic Survey City of Rolling Hills Estates

APPENDIX C Survey Equipment

SURVEY EQUIPMENT USED

The radar equipment models used to collect speed measurements for this survey is an MPH K15-K Hand-Held Traffic Radar manufactured by MPH Industries, Inc., of Owensboro, Kentucky and/or the Genesis VersaPak Hand-Held traffic Radar manufactured by Decatur Electronics, of Decatur, Illinois. The calibration of the unit was checked before each series of measurements were taken. Tests of the unit were conducted in accordance with the manufacturer's specifications. The MPH K15-K Hand-Held Traffic Radar was last calibrated on July 1, 2003, by R.H.F, Inc. and the Genesis VersaPak Hand Held Traffic Radar was last calibrated on December 27, 2003, by R.H. F, Inc.

