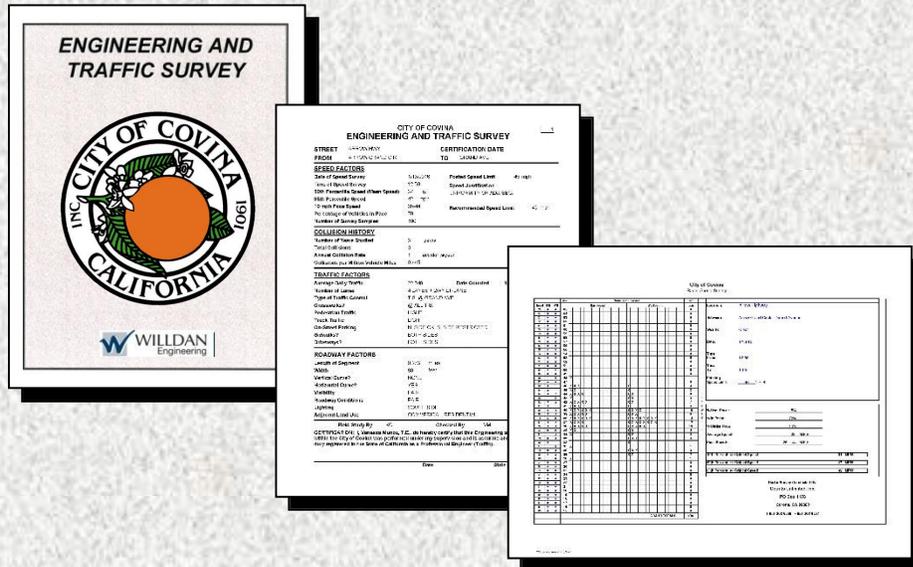


Engineering and Traffic Survey

March 2016



FOR THE CITY OF



COVINA

Prepared by:



March 14, 2016

Ms. Siobhan Foster
Director of Public Works
City of Covina
125 E. College Street
Covina, CA 91723

Subject: 2016 Engineering and Traffic Survey

Dear Ms. Foster:

As requested, Willdan has completed an Engineering and Traffic Survey to justify and update the posted speed limits along 77 street segments in the City of Covina. These segments were last surveyed in 2011, and require an update to comply with the 5-year limitation without any extension 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 Manual on Uniform Traffic Control Devices (California MUTCD) dated November 2014, and as required by Section 627 of the California Vehicle Code. 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.

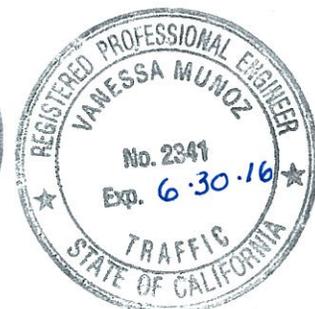
We appreciate the opportunity to serve the City of Covina and the assistance and cooperation afforded to us during the course of this study.

Very truly yours,

WILLDAN



Vanessa Munoz, P.E., T.E., P.T.O.E.
Traffic Engineer



Enclosure

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1-2
Elements of the Engineering and Traffic Survey	2-3
SURVEY CONDITIONS	4
Survey Locations.....	4
Data Collection.....	4
Speed Data	4
Collision Data	5
Field Review Data	5
ANALYSIS	6
Criteria.....	6
Results and Recommendations	6-7
Table 1-Street Segments With Recommended Speed Changes.....	7
Table 2-Summary of Recommendations.....	8-13
Segments with Special Conditions.....	14-20
LEGISLATIVE REFERENCES	21
Applicable Sections of California Vehicle Code	21-26
 APPENDIX A - Segment Data	
Street Segment Sheets	
Radar Speed Distribution Forms	
 APPENDIX B - Collision Rates	
 APPENDIX C - Survey Equipment Used	
 APPENDIX D – Recommended Speed Limit Map	

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 Covina. This Engineering and Traffic Survey presents recommended speed limits for 77 street segments in the City of Covina. 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 or 7 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 Manual on Uniform Traffic Control Devices (California MUTCD) dated November 2014.

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 California Manual on Uniform Traffic Control Devices (California MUTCD) dated November 2014 and as required by Section 627 of the California Vehicle Code. The Code further describes three elements of an engineering and traffic survey:

1. Measurement of prevailing speed;
2. Accident history; and
3. Roadway characteristics not 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.

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 California Manual on Uniform Traffic Control Devices (California MUTCD) dated November 2014 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 speed limit is established at the nearest 5-mile per hour (mph) increment to the 85th percentile speed, except as shown in the two options below.

Options:

1. The posted speed may be reduced by 5 mph from the nearest 5 mph increment of the 85th-percentile speed, in compliance with CVC Section 627 and 22358.5.
2. For cases in which the nearest 5 mph increment of the 85th-percentile speed would require a rounding up, then the speed limit may be rounded down to the nearest 5 mph increment below the 85th percentile speed, if no further reduction is used. Refer to CVC Section 21400(b).

If the speed limit to be posted has had the 5 mph reduction applied, then an E&TS shall document in writing the conditions and justification for the lower speed limit. The reasons for the lower speed limit shall be in compliance with CVC Section 627 and 22358.5

The following examples are provided to explain the application of these speed limit criteria:

- A. Using Option 1 above and first step is to round down: If the 85th percentile speed in a speed survey for a location was 37 mph, then the speed limit would be established at 35 mph since it is the closest 5 mph increment to the 37 mph speed. As indicated by the option, this 35 mph established speed limit could be reduced by 5 mph to 30 mph if conditions and justification for using this lower speed limit are documented in the E&TS.
- B. Using Option 1 above and first step is to round up: If the 85th percentile speed in a speed survey for a location was 33 mph, then the speed limit would be established at 35 mph since it is the closest 5 mph increment to the 33 mph speed. As indicated by the option, this 35 mph speed limit could be reduced by 5 mph to 30 mph if the conditions and justification for using this lower speed limit are documented in the E&TS.
- C. Using Option 2 above and first step is to round up: If the 85th percentile speed in a speed survey for a location was 33 mph, instead of rounding up to 35 mph, the speed limit can be established at 30 mph, but no further reduction can be applied.

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 77 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 5 mph or more below the basic speed limit. It is important to note that The California Manual on Uniform Traffic Control Devices (California MUTCD) dated November 2014 recommends exercising great care when establishing speed limits 5 mph or more below the basic speed limit.

SURVEY CONDITIONS

SURVEY LOCATIONS

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

1. Minimum stop sign and traffic signal influence.
2. Minimum visibility restrictions.
3. 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 77 locations during the months of January and March 2016.

Speed Data

Radar speed measurements were conducted at 77 locations during January 2016 and March 2016. 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.

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, 2012 to December 31, 2014. The collision rates for the 77 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:

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

- A = Number of midblock collisions over time period
- R = Collision Rate (accidents/million vehicle miles)
- t = Time Period Covered (in years)
- l = Length of Segment (miles)
- v = Traffic Volume (average daily traffic)

The segment collision rate was then compared to the average statewide collision rate. The average statewide collision rates were obtained from 2012 Collision Data on California State Highways published by Caltrans.

Field Review Data

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

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

ANALYSIS

CRITERIA

Survey data was compiled and analyzed to determine the recommended speed limit in accordance with several criteria contained in The California Manual on Uniform Traffic Control Devices (California MUTCD) dated November 2014. 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. The "basic speed limit" is the nearest 5 mph increment to the 85th percentile speed.
- 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 Covina.

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 a collision rate significantly higher than expected was discovered or roadway conditions not readily apparent to the driver were identified. Any segments with recommended speed limits 5 mph or more below the basic speed limit 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.

Table 1 identifies the street segments with recommended changes in posted speed limits and Table 2 summarizes the recommendations for all surveyed segments.

**TABLE 1
STREET SEGMENTS WITH RECOMMENDED SPEED CHANGES**

No	STREET	FROM	TO	EXISTING	NEW
3	AZUSA AVENUE	SOUTH CITY LIMITS	SAN BERNARDINO ROAD	35	40
15	BARRANCA AVENUE	PUENTE STREET	SAN BERNARDINO ROAD	35	40
16	BARRANCA AVENUE	SAN BERNARDINO ROAD	COVINA BLVD	35	40
19	CIENEGA AVENUE	ARROWAY AVENUE	IVESCREST AVENUE	35	40
28	COVINA BLVD	GRAND AVENUE	RIMHURST AVENUE	35	40
30	COVINA HILLS ROAD	GRAND AVENUE	RANCHO LA CARLOTA ROAD	35	30
33	CYPRESS STREET	CITRUS AVENUE	BARRANCA AVENUE	35	40
36	CYPRESS STREET	GLENDORA AVENUE	BONNIE COVE AVENUE	35	40
42	GRAND AVENUE	WALNUT CREEK ROAD	PUENTE STREET	45	40
56	PUENTE STREET	GRAND AVENUE	GLENDORA AVENUE	40	35
61	REEDER AVENUE	BADILLO STREET	CYPRESS STREET	30	35
63	ROWLAND AVENUE	CITRUS AVENUE	BARRANCA AVENUE	35	40

Table 2

Summary of Recommendations

No. Street	From	To	Posted Speed Limit	Critical Speed	Recommended Speed Limit	Comments	
1	ARROW HIGHWAY	ARROW GRAND CIR	GRAND AVENUE	45	42	45	*
2	ARROW HIGHWAY	GRAND AVENUE	1000' EASTERLY	45	43	45	CLOSEST TO 85 TH SPEED
3	AZUSA AVENUE	SOUTH CITY LIMITS	SAN BERNARDINO ROAD	35	43	40	CALIFORNIA MUTCD OPTION 2
4	AZUSA AVENUE	SAN BERNARDINO ROAD	CYPRESS ST	40	41	40**	CLOSEST TO 85 TH SPEED
5	AZUSA AVENUE	CYPRESS STREET	ARROW HIGHWAY	40	37	40	*
6	BADILLO STREET	LARK ELLEN AVENUE	HOLLENBECK AVENUE	40	45	40	*
7	BADILLO STREET	HOLLENBECK AVENUE	4 TH AVENUE	40	42	40	CLOSEST TO 85 TH SPEED
8	BADILLO STREET	4 TH AVENUE	2 ND AVENUE	30	33	30	CALIFORNIA MUTCD OPTION 2
9	BADILLO STREET	2 ND AVENUE	BARRANCA AVENUE	40	47	40	*
10	BADILLO STREET	BARRANCA AVENUE	GRAND AVENUE	40	47	40	*
11	BADILLO STREET	GRAND AVENUE	GLENDORA AVENUE	45	48	45**	CALIFORNIA MUTCD OPTION 2
12	BADILLO STREET	GLENDORA AVENUE	REEDER AVENUE	45	49	45	CALIFORNIA MUTCD OPTION 2
13	BADILLO STREET	REEDER AVENUE	EAST CITY LIMITS	45	48	45	CALIFORNIA MUTCD OPTION 2
14	BARRANCA AVENUE	SOUTH CITY LIMITS	PUENTE STREET	40	41	40**	CLOSEST TO 85 TH SPEED

* See "Segments with Special Conditions" Section for Comments

** = 25 mph when children are present

Table 2

Summary of Recommendations

No. Street	From	To	Posted Speed Limit	Critical Speed	Recommended Speed Limit	Comments
15 BARRANCA AVENUE	PUENTE STREET	SAN BERNARDINO ROAD	35	42	40**	CLOSEST TO 85 TH SPEED
16 BARRANCA AVENUE	SAN BERNARDINO ROAD	COVINA BLVD	35	43	40**	CALIFORNIA MUTCD OPTION 2
17 BARRANCA AVENUE	COVINA BLVD	NORTH CITY LIMITS	40	42	40	CLOSEST TO 85 TH SPEED
18 CIENEGA AVENUE	BARRANCA AVENUE	GRAND AVENUE	40	42	40	CLOSEST TO 85 TH SPEED
19 CIENEGA AVENUE	ARROWAY AVENUE	IVESCREST AVENUE	35	43	40**	CALIFORNIA MUTCD OPTION 2
20 CITRUS AVENUE	WORKMAN AVENUE	ROWLAND AVENUE	40	35	40	*
21 CITRUS AVENUE	ROWLAND AVENUE	PUENTE STREET	40	38	40	CLOSEST TO 85 TH SPEED
22 CITRUS AVENUE	PUENTE STREET	BADILLO STREET	35	33	35	CLOSEST TO 85 TH SPEED
23 CITRUS AVENUE	BADILLO STREET	SAN BERNARDINO ROAD	25	27	25	CLOSEST TO 85 TH SPEED
24 CITRUS AVENUE	SAN BERNARDINO ROAD	COVINA BLVD	35	41	35	*
25 CITRUS AVENUE	COVINA BLVD	ARROW HIGHWAY	40	45	40	*
26 COVINA BLVD	FIRCROFT AVENUE	CITRUS AVENUE	40	41	40	CLOSEST TO 85 TH SPEED
27 COVINA BLVD	CITRUS AVENUE	GRAND AVENUE	40	41	40**	CLOSEST TO 85 TH SPEED
28 COVINA BLVD	GRAND AVENUE	RIMHURST AVENUE	35	43	40**	CALIFORNIA MUTCD OPTION 2

* See "Segments with Special Conditions" Section for Comments

** = 25 mph when children are present

Table 2

Summary of Recommendations

No. Street	From	To	Posted Speed Limit	Critical Speed	Recommended Speed Limit	Comments
29 COVINA BLVD	BONNIE COVE AVE	SUNFLOWER AVENUE	40	43	40**	CALIFORNIA MUTCD OPTION 2
30 COVINA HILLS ROAD	GRAND AVENUE	RANCHO LA CARLOTA ROAD	35	35	30	*
31 CYPRESS STREET	LEAF AVENUE	HOLLENBECK AVENUE	40	41	40**	CLOSEST TO 85 TH SPEED
32 CYPRESS STREET	HOLLENBECK AVENUE	CITRUS AVENUE	40	40	40**	CLOSEST TO 85 TH SPEED
33 CYPRESS STREET	CITRUS AVENUE	BARRANCA AVENUE	35	42	40	CLOSEST TO 85 TH SPEED
34 CYPRESS STREET	BARRANCA AVENUE	GRAND AVENUE	40	46	40	*
35 CYPRESS STREET	GRAND AVENUE	GLENDORA AVENUE	40	42	40	CLOSEST TO 85 TH SPEED
36 CYPRESS STREET	GLENDORA AVENUE	BONNIE COVE AVENUE	35	42	40**	CLOSEST TO 85 TH SPEED
37 CYPRESS STREET	BONNIE COVE AVENUE	SUNFLOWER AVENUE	40	42	40	CLOSEST TO 85 TH SPEED
38 GLENDORA AVENUE	PUENTE STREET	RUDDOCK STREET	35	40	35**	*
39 GLENDORA AVENUE	RUDDOCK STREET	CYPRESS STREET	35	41	35	*
40 GLENDORA AVENUE	CYPRESS STREET	COVINA BLVD	35	40	35	*
41 GLENDORA AVENUE	COVINA BLVD	CIENEGA AVENUE	35	42	35**	*
42 GRAND AVENUE	WALNUT CREEK ROAD	PUENTE STREET	45	39	40	CLOSEST TO 85 TH SPEED

* See "Segments with Special Conditions" Section for Comments

** = 25 mph when children are present

Table 2

Summary of Recommendations

No. Street	From	To	Posted Speed Limit	Critical Speed	Recommended Speed Limit	Comments
43 GRAND AVENUE	PUENTE STREET	SAN BERNARDINO ROAD	40	41	40**	CLOSEST TO 85 TH SPEED
44 GRAND AVENUE	SAN BERNARDINO ROAD	COVINA BLVD	40	42	40	CLOSEST TO 85 TH SPEED
45 GRAND AVENUE	COVINA BLVD	ARROW HIGHWAY	40	42	40	CLOSEST TO 85 TH SPEED
46 HOLLENBECK AVENUE	SOUTH CITY LIMITS	ROWLAND AVENUE	35	42	35	*
47 HOLLENBECK AVENUE	ROWLAND AVENUE	BADILLO STREET	35	42	35**	*
48 HOLLENBECK AVENUE	BADILLO STREET	EDNA PLACE	35	38	35	CALIFORNIA MUTCD OPTION 2
49 HOLLENBECK AVENUE	COVINA BLVD	ARROW HIGHWAY	40	44	40	CALIFORNIA MUTCD OPTION 2
50 HOLT AVENUE	I-10 FREEWAY	VIA VERDE STREET	45	41	45	*
51 LARK ELLEN AVENUE	GROVECENTER STREET	EDNA PLACE	40	41	40**	CLOSEST TO 85 TH SPEED
52 PUENTE STREET	ARMEL DRIVE	HOLLENBECK AVENUE	35	39	35**	CALIFORNIA MUTCD OPTION 2
53 PUENTE STREET	HOLLENBECK AVENUE	CITRUS AVENUE	35	41	35	*
54 PUENTE STREET	CITRUS AVENUE	BARRANCA AVENUE	30	35	30	*
55 PUENTE STREET	BARRANCA AVENUE	GRAND AVENUE	40	43	40**	CALIFORNIA MUTCD OPTION 2
56 PUENTE STREET	GRAND AVENUE	GLENDORA AVENUE	40	40	35**	*

* See "Segments with Special Conditions" Section for Comments

** = 25 mph when children are present

Table 2

Summary of Recommendations

No. Street	From	To	Posted Speed Limit	Critical Speed	Recommended Speed Limit	Comments
57 PUENTE STREET	GLENDORA AVENUE	SHOUSE AVENUE	25	32	25	*
58 PUENTE STREET	REEDER AVENUE	RANCHO CORTO DRIVE	45	47	45	CLOSEST TO 85 TH SPEED
59 REEDER AVENUE	OLD BADILLO STREET	PUENTE STREET	35	35	35	CLOSEST TO 85 TH SPEED
60 REEDER AVENUE	OLD BADILLO STREET	BADILLO STREET	30	37	30**	*
61 REEDER AVENUE	BADILLO STREET	CYPRESS STREET	30	40	35	*
62 ROWLAND AVENUE	ARMEL DRIVE	CITRUS AVENUE	40	40	40	CLOSEST TO 85 TH SPEED
63 ROWLAND AVENUE	CITRUS AVENUE	BARRANCA AVENUE	35	41	40	CLOSEST TO 85 TH SPEED
64 ROWLAND AVENUE	BARRANCA AVENUE	FORESTDALE AVENUE	40	46	40	*
65 SAN BERNARDINO ROAD	VINCENT AVENUE	LARK ELLEN AVENUE	40	45	40	*
66 SAN BERNARDINO ROAD	LARK ELLEN AVENUE	AZUSA AVENUE	35	38	35	CALIFORNIA MUTCD OPTION 2
67 SAN BERNARDINO ROAD	AZUSA AVENUE	HOLLENBECK AVENUE	35	42	35**	*
68 SAN BERNARDINO ROAD	HOLLENBECK AVENUE	CITRUS AVENUE	30	36	30	*
69 SAN BERNARDINO ROAD	CITRUS AVENUE	BARRANCA AVENUE	35	39	35	CALIFORNIA MUTCD OPTION 2
70 SAN BERNARDINO ROAD	BARRANCA AVENUE	GRAND AVENUE	35	40	35	*

* See "Segments with Special Conditions" Section for Comments

** = 25 mph when children are present

Table 2

Summary of Recommendations

No. Street	From	To	Posted Speed Limit	Critical Speed	Recommended Speed Limit	Comments
71 SECOND AVENUE	ROWLAND AVENUE	BADILLO STREET	35	41	35	*
72 SECOND AVENUE	BADILLO STREET	FRONT STREET	30	37	30	*
73 SUNFLOWER AVENUE	CYPRESS STREET	CIENEGA AVENUE	35	38	35**	CALIFORNIA MUTCD OPTION 2
74 VINCENT AVENUE	BADILLOS STREET	EDNA PLACE	35	39	35	CALIFORNIA MUTCD OPTION 2
75 WORKMAN AVENUE	WEST CITY LIMIT	EAST CITY LIMIT W/O CITRUS	35	35	35**	CLOSEST TO 85 TH SPEED
76 WORKMAN AVENUE	CITRUS AVENUE	BARRANCA AVENUE	35	39	35	CALIFORNIA MUTCD OPTION 2
77 WORKMAN AVENUE	BARRANCA AVENUE	EASTERLY END OF ROAD	30	34	30	CALIFORNIA MUTCD OPTION 2

* See "Segments with Special Conditions" Section for Comments

** = 25 mph when children are present

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 – Arrow Highway – Arrow Grand Circle to Grand Ave

This segment currently posted at 45 mph and has 2 through lanes in each direction with an ADT of 22,549 vehicles per day. The adjacent land use is commercial and residential. The critical speed is 42 mph and would normally justify a 40 mph posted speed limit. However, in order to maintain uniformity among adjacent street segments, a higher speed limit is prudent. It is recommended that the speed limit remain at 45 mph for the above reasons.

Segment #5 – Azusa Avenue – Cypress Street to Arrow Highway

This segment currently posted at 40 mph and has 2 through lanes in each direction with an ADT of 23,067 vehicles per day. The adjacent land use is commercial. The critical speed is 37 mph and would normally justify a 35 mph posted speed limit. However, in order to maintain uniformity among adjacent street segments, a higher speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

Segment #6 – Badillo Street – Lark Ellen Avenue to Hollenbeck Avenue

This segment currently posted at 40 mph and has 2 through lanes in each direction with an ADT of 18,074 vehicles per day. The adjacent land use is residential and commercial with a hospital. The critical speed is 45 mph and would normally justify a 45 mph posted speed limit. However, due to high turnover of on-street parking, and various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

Segment #9 – Badillo Street – 2nd Avenue to Barranca Avenue

This segment currently posted at 40 mph and has 2 through lanes in each direction with an ADT of 18,699 vehicles per day. The adjacent land use is commercial and residential. The critical speed is 47 mph and would normally justify a 45 mph posted speed limit. However, due to high turnover of on-street parking and various hidden driveways that may not be apparent to unfamiliar drivers, and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

Segment #10 – Badillo Street – Barranca Avenue to Grand Avenue

This segment currently posted at 40 mph and has 2 through lanes in each direction with an ADT of 17,731 vehicles per day. The adjacent land use is commercial and residential. The critical speed is 47 mph and would normally justify a 45 mph posted speed limit. However, due to various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

Segment #20 – Citrus Avenue – Workman Avenue to Rowland Avenue

This segment currently posted at 40 mph and has 2 through lanes in each direction with an ADT of 26,930 vehicles per day. The adjacent land use is commercial. The critical speed is 35 mph and would normally justify a 35 mph posted speed limit. However, in order to maintain uniformity among adjacent street segments, a higher speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

Segment #24 – Citrus Avenue – San Bernardino Road to Covina Boulevard

This segment currently posted at 35 mph and has 2 through lanes in each direction with an ADT of 16,696 vehicles per day. The adjacent land use is commercial and residential. The critical speed is 41 mph and would normally justify a 40 mph posted speed limit. However, due to a vertical curve, uncontrolled crosswalks, heavy pedestrian traffic and various hidden driveways that may not be apparent to unfamiliar drivers, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #25 – Citrus Avenue – Covina Boulevard to Arrow Highway

This segment currently posted at 40 mph and has 2 through lanes in each direction with an ADT of 17,785 vehicles per day. The adjacent land use is commercial and residential. The critical speed is 45 mph and would normally justify a 45 mph posted speed limit. However, due to moderate pedestrian traffic and various hidden driveways that may not be apparent to unfamiliar drivers, a lower speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

Segment #30 – Covina Hills Road – Grand Avenue to Rancho La Carlota Road

This segment currently posted at 35 mph and has 1 through lane in each direction with an ADT of 3,546 vehicles per day. The adjacent land use is residential. The critical speed is 35 mph and would normally justify a 35 mph posted speed limit. However, due to horizontal and vertical curves and various hidden driveways that may not be apparent to unfamiliar drivers, a lower speed limit is prudent. It is recommended that the speed limit be posted at 30 mph for the above reasons.

Segment #34 – Cypress Street – Barranca Avenue to Grand Avenue

This segment currently posted at 40 mph and has 2 through lanes in each direction with an ADT of 9,136 vehicles per day. The adjacent land use is residential. The critical speed is 46 mph and would normally justify a 45 mph posted speed limit. However, due to various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

Segment #38 – Glendora Avenue – Puente Street to Ruddock Street

This segment currently posted at 35 mph and has 2 through lanes in each direction with an ADT of 8,258 vehicles per day. The adjacent land use is residential with a school. The critical speed is 40 mph and would normally justify a 40 mph posted speed limit. However, due to a vertical curve, moderate pedestrian traffic, and various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #39 – Glendora Avenue – Ruddock Street to Cypress Street

This segment currently posted at 35 mph and has 2 through lanes in each direction with an ADT of 9,536 vehicles per day. The adjacent land use is commercial and residential with a park. The critical speed is 41 mph and would normally justify a 40 mph posted speed limit. However, due to a vertical curve, uncontrolled crosswalks and various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #40 – Glendora Avenue – Cypress Street to Covina Boulevard

This segment currently posted at 35 mph and has 2 through lanes in each direction with an ADT of 9,647 vehicles per day. The adjacent land use is commercial and residential with a church. The critical speed is 40 mph and would normally justify a 40 mph posted speed limit. However, due to moderate pedestrian traffic and various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #41 – Glendora Avenue –Covina Boulevard to Cienega Avenue

This segment currently posted at 35 mph and has 2 through lanes in each direction with an ADT of 10,846 vehicles per day. The adjacent land use is residential with a school. The critical speed is 42 mph and would normally justify a 40 mph posted speed limit. However, due to moderate pedestrian traffic and various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #46 – Hollenbeck Avenue – South City Limits to Rowland Avenue

This segment currently posted at 35 mph and has 2 through lanes in each direction with an ADT of 15,288 vehicles per day. The adjacent land use is residential. The critical speed is 42 mph and would normally justify a 40 mph posted speed limit. However, due to various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #47 – Hollenbeck Avenue – Rowland Avenue to Badillo Street

This segment currently posted at 35 mph and has 2 through lanes in each direction with an ADT of 17,085 vehicles per day. The adjacent land use is residential with a school. The critical speed is 42 mph and would normally justify a 40 mph posted speed limit. However, due to heavy pedestrian traffic and various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #50 – Holt Avenue – I-10 Freeway to Via Verde Street

This segment currently posted at 45 mph and has 1 through lane in each direction with an ADT of 3,929 vehicles per day. The adjacent land use is commercial and residential. The critical speed is 41 mph and would normally justify a 40 mph posted speed limit. However, in order to maintain uniformity among adjacent street segments, a higher speed limit is prudent. It is recommended that the speed limit remain at 45 mph for the above reasons.

Segment #53 – Puente Street – Hollenbeck Avenue to Citrus Avenue

This segment currently posted at 35 mph and has 1 through lane in each direction with an ADT of 8,632 vehicles per day. The adjacent land use is residential with a high school stadium. The critical speed is 41 mph and would normally justify a 40 mph posted speed limit. However, due to moderate pedestrian traffic and various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #54 – Puente Street – Citrus Avenue to Barranca Avenue

This segment currently posted at 30 mph and has 1 through lane in each direction with an ADT of 5,379 vehicles per day. The adjacent land use is residential. The critical speed is 35 mph and would normally justify a 35 mph posted speed limit. However, due to a vertical curve and various hidden driveways that may not be apparent to unfamiliar driver, a lower speed limit is prudent. It is recommended that the speed limit remain at 30 mph for the above reasons.

Segment #56 – Puente Street – Grand Avenue to Glendora Avenue

This segment currently posted at 40 mph and has 2 through lanes in each direction with an ADT of 5,699 vehicles per day. The adjacent land use is residential with a school. The critical speed is 40 mph and would normally justify a 40 mph posted speed limit. However, due to a vertical curve, moderate pedestrian traffic and various hidden driveways that may not be apparent to unfamiliar driver, a lower speed limit is prudent. It is recommended that the speed limit be posted at 35 mph for the above reasons.

Segment #57 – Puente Street – Glendora Avenue to Shouse Avenue

This segment currently posted at 25 mph and has 1 through lane in each direction with an ADT of 1,478 vehicles per day. The adjacent land use is residential. The critical speed is 32 mph and would normally justify a 30 mph posted speed limit. However, due to a vertical curve and various hidden driveways that may not be apparent to unfamiliar drivers, a lower speed limit is prudent. It is recommended that the speed limit remain at 25 mph for the above reasons.

Segment #60 – Reeder Avenue – Old Badillo Street to Badillo Street

This segment currently posted at 30 mph and has 2 through lanes in northbound direction and 1 through lane in southbound direction with an ADT of 4,888 vehicles per day. The adjacent land use is residential with a school. The critical speed is 37 mph and would normally justify a 35 mph posted speed limit. However, due to a vertical curve and moderate pedestrian traffic and hidden driveways that may not be apparent to unfamiliar drivers, a lower speed limit is prudent. It is recommended that the speed limit remain at 30 mph for the above reasons.

Segment #61 – Reeder Avenue –Badillo Street to Cypress Street

This segment currently posted at 30 mph and has 1 through lane in each direction with an ADT of 2,499 vehicles per day. The adjacent land use is residential. The critical speed is 40 mph and would normally justify a 40 mph posted speed limit. However, due to a vertical curve, high turnover of on-street parking and hidden driveways that may not be apparent to unfamiliar drivers, a lower speed limit is prudent. It is recommended that the speed limit be posted at 35 mph for the above reasons.

Segment #64 – Rowland Avenue – Barranca Avenue to Forestdale Avenue

This segment currently posted at 40 mph and has 2 through lanes in each direction with an ADT of 9,101 vehicles per day. The adjacent land use is residential. The critical speed is 46 mph and would normally justify a 45 mph posted speed limit. However, due to various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

Segment #65 – San Bernardino Road – Vincent Avenue to Lark Ellen Avenue

This segment currently posted at 40 mph and has 2 through lanes in each direction with an ADT of 15,929 vehicles per day. The adjacent land use is commercial and residential. The critical speed is 45 mph and would normally justify a 45 mph posted speed limit. However, due to a horizontal curve, high turnover of on-street parking and various hidden driveways that may not be apparent to unfamiliar drivers, a lower speed limit is prudent. It is recommended that the speed limit remain at 40 mph for the above reasons.

Segment #67 – San Bernardino Road – Azusa Avenue to Hollenbeck Avenue

This segment currently posted at 35 mph and has 2 through lanes in each direction with an ADT of 14,984 vehicles per day. The adjacent land use is residential with a school. The critical speed is 42 mph and would normally justify a 40 mph posted speed limit. However, due to moderate pedestrian traffic, uncontrolled crosswalks and various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #68 – San Bernardino Road –Hollenbeck Avenue to Citrus Avenue

This segment currently posted at 30 mph and has 1 through lane in each direction with an ADT of 11,838 vehicles per day. The adjacent land use is residential with a park and hospital. The critical speed is 36 mph and would normally justify a 35 mph posted speed limit. However, due to uncontrolled crosswalks, moderate pedestrian traffic and various hidden driveways that may not be apparent to unfamiliar drivers, a lower speed limit is prudent. It is recommended that the speed limit remain at 30 mph for the above reasons.

Segment #70 – San Bernardino Road – Barranca Avenue to Grand Avenue

This segment currently posted at 35 mph and has 2 through lanes in each direction with an ADT of 9,514 vehicles per day. The adjacent land use is commercial and residential. The critical speed is 40 mph and would normally justify a 40 mph posted speed limit. However, due to vertical and horizontal curves and various hidden driveways that may not be apparent to unfamiliar drivers and to maintain uniformity among adjacent street segments, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #71 – Second Avenue – Rowland Avenue to Badillo Street

This segment currently posted at 35 mph and has 2 through lanes in each direction with an ADT of 8,443 vehicles per day. The adjacent land use is commercial and residential. The critical speed is 41 mph and would normally justify a 40 mph posted speed limit. However, due to high turnover of on-street parking, uncontrolled crosswalks and various hidden driveways that may not be apparent to unfamiliar, a lower speed limit is prudent. It is recommended that the speed limit remain at 35 mph for the above reasons.

Segment #72 – Second Avenue – Badillo Street to Front Street

This segment currently posted at 30 mph and has 2 through lanes in each direction with an ADT of 7,579 vehicles per day. The adjacent land use is commercial with the Civic Center. The critical speed is 37 mph and would normally justify a 35 mph posted speed limit. However, due to uncontrolled crosswalks, moderate pedestrian traffic and various hidden driveways that may not be apparent to unfamiliar drivers, a lower speed limit is prudent. It is recommended that the speed limit remain at 30 mph for the above reasons.

LEGISLATIVE REFERENCES

APPLICABLE SECTIONS OF CALIFORNIA VEHICLE CODE

SECTION 1. Section 627 of the Vehicle Code:

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, if any of the following conditions exist on the particular portion of highway and the property contiguous thereto, other than a business district:
 - a. Upon one side of the highway, within a distance of a quarter of a mile, the contiguous property fronting thereon is occupied by 13 or more separate dwelling houses of business structures.
 - b. Upon both sides of the highway, collectively, within a distance of a quarter of a mile, the contiguous property fronting thereon is occupied by 16 or more separate dwelling houses or business structures.
 - c. The portion of highway is longer than one-quarter of a mile but has the ratio of separate dwelling houses or business structures to the length of the highway described in either subparagraph (A) or (B).
 - (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.

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:

(a) Fifteen miles per hour:

(1) When traversing a railway grade crossing, if during the last 100 feet of the approach to the crossing the driver does not have a 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.

(2) When traversing any intersection of highways, if during the last 100 feet of the driver's 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 those highways, except at an intersection protected by stop signs or yield right-of-way signs or controlled by official traffic control signals.

(3) On any alley.

(b) Twenty-five miles per hour:

(1) 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.

(2) 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.

(3) 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 may erect a sign pursuant to this paragraph when the local agency makes a determination that the proposed signing should be implemented. A local authority may request grant funding from the Pedestrian Safety Account pursuant to Section 894.7 of the Streets and Highways Code, or any other grant funding available to it, and use that grant funding to pay for the erection of those signs, or may utilize any other funds available to it to pay for the erection of those signs, including, but not limited to, donations from private sources.

Increase of Local Speed Limits to 65 Miles Per Hour

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 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 miles per hour, the local authority may by ordinance determine and declare a prima facie speed limit of 30, 35, 40, 45, 50, 55 or 60 miles per hour or a maximum speed limit of 65 miles per hour, 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 mile per hour 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.

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.

Speed Trap 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 speed trap be used in securing evidence as to the speed of any vehicle for the purpose of an arrest or prosecution under this code.

Speed Trap

Section 40802.

- (a) A "speed trap" 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 five 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 one that is functionally classified as "local" on the "California Road System Maps," that are approved by the Federal Highway Administration and maintained by the Department of Transportation. When a street or road does not appear on the "California Road System Maps," it may be defined as a "local street or road" if it 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 of a mile of uninterrupted length. Interruptions shall include official traffic control signals 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 approaching or passing a school building or the grounds thereof that is contiguous to a highway and on which is posted a standard "SCHOOL" warning sign, while children are going to or leaving the school either during school hours or during the noon recess period. "School zone" also includes the area approaching or passing any school grounds that are not separated from the highway by a fence, gate, or other physical barrier while the grounds are in use by children if that highway is posted with a standard "SCHOOL" warning sign.
- (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 arresting officer 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 arresting officer has successfully completed the training required in subparagraph (A) and an additional training course of not less than two hours approved and certified by the Commission on Peace Officer Standards and Training.

- (C)(i) The prosecution proved that the arresting 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 arresting officer established 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 conditions 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 three years prior to the date of the alleged violation by an independent certified laser or radar repair and testing or calibration facility.
- (2) A “speed trap” 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:
 - (I) Except as specified in subclause (II), seven years.
 - (II) If an engineering and traffic survey was conducted more than seven 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 conditions 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.

Speed Trap 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 speed trap 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 five 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 speed trap as defined in paragraph (2) subdivision (a) of Section 40802.

APPENDIX A

Street Segment Data

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET ARROW HWY
FROM GRAND AVE

CERTIFICATION DATE 3/14/16
TO 1000' EASTERLY

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	45 mph
Time of Speed Survey	13:10	Speed Justification	
50th Percentile Speed (Mean Speed)	38 mph	CLOSEST TO 85TH SPEED	
85th Percentile Speed	43 mph		
Average Speed	40 mph		
10 mph Pace Speed	35-44	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	81		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

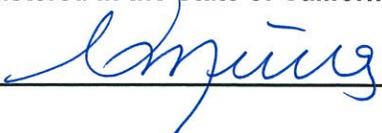
Average Daily Traffic	24,392	Date Counted	1/20/2016
Number of Lanes	4 LANES + 2WY LT-LANE		
Type of Traffic Control	@ GRAND		
Crosswalks?	@ T.S. , MID BLOCK @255 ARROW HWY		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	YES		

ROADWAY FACTORS

Length of Segment	0.189	miles
Width	84	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	NORTH SIDE	
Adjacent Land Use	COMMERCIAL, INDUSTRIAL	

Field Study By KC **Checked By** VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

 3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET AZUSA AVE
FROM CYPRESS ST

CERTIFICATION DATE 3/14/16
TO ARROW HWY

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	40 mph
Time of Speed Survey	12:15	Speed Justification	UNIFORMITY W/ ADJ. SEG.
50th Percentile Speed (Mean Speed)	33 mph		
85th Percentile Speed	37 mph		
Average Speed	34 mph		
10 mph Pace Speed	29-38	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	87		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	2	accidents/year
Annual Collision Rate	0.667	
Collisions per Million Vehicle Miles	0.102	

TRAFFIC FACTORS

Average Daily Traffic	23,067	Date Counted	1/26/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ARROW, MRKT PL, GRONDAHL, COVINA, CYPRESS		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

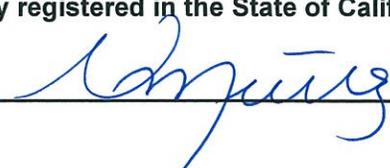
ROADWAY FACTORS

Length of Segment	0.773	miles
Width	84	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

Field Study By KC

Checked By VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

6

STREET BADILLO ST
FROM LARK ELLEN AVE

CERTIFICATION DATE 3/14/16
TO HOLLENBECK AVE

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	40 mph
Time of Speed Survey	10:55	Speed Justification	
50th Percentile Speed (Mean Speed)	41 mph	HIGH PARKING TURNOVER, HIDDEN DWYS,	
85th Percentile Speed	45 mph	UNIFORMITY W/ ADJ. SEG.	
Average Speed	42 mph		
10 mph Pace Speed	37-46	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	80		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	2	accidents/year
Annual Collision Rate	0.667	
Collisions per Million Vehicle Miles	0.093	

TRAFFIC FACTORS

Average Daily Traffic	18,074	Date Counted	1/26/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ LARK ELLEN, RIMSDALE, AZUSA, HOLLENBECK		
Crosswalks?	@ ALL T.S. , ARMEL		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	1.091	miles
Width	88	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERICAL, RESIDENTIAL, HOSPITAL	

Field Study By KC

Checked By VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

7

STREET BADILLO ST
FROM HOLLENBECK AVE

CERTIFICATION DATE 3/14/16
TO 4TH AVENUE

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	40 mph
Time of Speed Survey	10:25	Speed Justification	CLOSEST TO 85TH SPEED
50th Percentile Speed (Mean Speed)	38 mph		
85th Percentile Speed	42 mph		
Average Speed	39 mph		
10 mph Pace Speed	35-44	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	80		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	18,948	Date Counted	1/26/2016
Number of Lanes	4 LANES + 2WY LT-LANE		
Type of Traffic Control	T.S. @ HOLLENBECK		
Crosswalks?	@ T.S. AND 4TH AVE		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.273	miles
Width	84	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, HOSPITAL, PARK	

Field Study By KC

Checked By VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA ENGINEERING AND TRAFFIC SURVEY

8

STREET BADILLO ST
FROM 4TH AVENUE

CERTIFICATION DATE 3/14/16
TO 2ND AVENUE

SPEED FACTORS

Date of Speed Survey	3/9/2016	Posted Speed Limit	30 mph
Time of Speed Survey	14:50	Speed Justification	
50th Percentile Speed (Mean Speed)	29 mph	CALIFORNIA MUTCD OPTION 2	
85th Percentile Speed	33 mph		
Average Speed	31 mph		
10 mph Pace Speed	27-36	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	84		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	18,213	Date Counted	1/26/2016
Number of Lanes	2 LANES + 2WY LT-LANE		
Type of Traffic Control	T.S. @ CITRUS, SECOND		
Crosswalks?	@ ALL T.S. AND 4TH, 3RD		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES - RESTRICTED		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.364	miles
Width	66	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL, PARK	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET BADILLO ST
FROM BARRANCA AVE

CERTIFICATION DATE 3/14/16
TO GRAND AVE

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	40 mph
Time of Speed Survey	9:25	Speed Justification	
50th Percentile Speed (Mean Speed)	42 mph	HIDDEN DWYS, UNIFORMITY W/ ADJ. SEG.	
85th Percentile Speed	47 mph		
Average Speed	43 mph		
10 mph Pace Speed	40-49	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	71		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	17,731	Date Counted	1/28/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ BARRANCA, GRAND		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

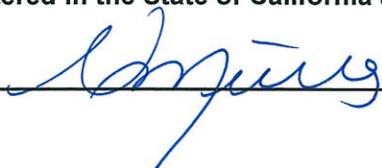
ROADWAY FACTORS

Length of Segment	0.500	miles
Width	83	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, COMMERCIAL	

Field Study By KC

Checked By VM

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Date 3/14/16

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET BADILLO ST
FROM GRAND AVE

CERTIFICATION DATE 3/14/16
TO GLENDORA AVE

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	45 mph
Time of Speed Survey	9:05	Speed Justification	
50th Percentile Speed (Mean Speed)	43 mph	CALIFORNIA MUTCD OPTION 2	
85th Percentile Speed	48 mph		
Average Speed	44 mph		
10 mph Pace Speed	41-50	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	70		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	2	accidents/year
Annual Collision Rate	0.667	
Collisions per Million Vehicle Miles	0.230	

TRAFFIC FACTORS

Average Daily Traffic	15,898	Date Counted	1/26/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ GRAND, GLENDORA		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	SOUTH SIDE		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	84	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	POOR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, COMMERCIAL, SCHOOL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

12

STREET BADILLO ST
FROM GLENDORA AVE

CERTIFICATION DATE 3/14/16
TO REEDER AVE

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	45 mph
Time of Speed Survey	13:20	Speed Justification	CALIFORNIA MUTCD OPTION 2
50th Percentile Speed (Mean Speed)	44 mph		
85th Percentile Speed	49 mph		
Average Speed	45 mph		
10 mph Pace Speed	41-50	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	69		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	2	accidents/year
Annual Collision Rate	0.667	
Collisions per Million Vehicle Miles	0.143	

TRAFFIC FACTORS

Average Daily Traffic	20,104	Date Counted	1/28/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ GLENDORA, BANNA, REEDER		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

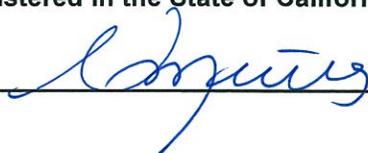
ROADWAY FACTORS

Length of Segment	0.636	miles
Width	84	feet
Vertical Curve?	YES	
Horizontal Curve?	YES	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	ON MEDIAN	
Adjacent Land Use	RESIDENTIAL	

Field Study By KC

Checked By VM

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Date 3/14/16

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET BADILLO ST
FROM REEDER AVE

CERTIFICATION DATE 3/14/16
TO EAST CITY LIMITS

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	45 mph
Time of Speed Survey	13:50	Speed Justification	
50th Percentile Speed (Mean Speed)	44 mph	CALIFORNIA MUTCD OPTION 2	
85th Percentile Speed	48 mph		
Average Speed	45 mph		
10 mph Pace Speed	41-50	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	74		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	17,599	Date Counted	1/26/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ REEDER, SUNLFLOWER		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.455	miles
Width	84	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	ON MEDIAN	
Adjacent Land Use	RESIDENTIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET BARRANCA AVE
FROM PUENTE ST

CERTIFICATION DATE 3/14/16
TO SAN BERNARDINO RD

SPEED FACTORS

Date of Speed Survey	1/14/2016	Posted Speed Limit	35 mph
Time of Speed Survey	9:45	Speed Justification	
50th Percentile Speed (Mean Speed)	37 mph	CLOSEST TO 85TH SPEED	
85th Percentile Speed	42 mph		
Average Speed	39 mph		
10 mph Pace Speed	36-45	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	83		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	18,801	Date Counted	1/20/2016
Number of Lanes	4 LANES + 2WY LT-LANE		
Type of Traffic Control	T.S. @ BADILLO, PUENTE, SAN BERARDINO		
Crosswalks?	@ ALL T.S. , ITALIA		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.545	miles
Width	58	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, SCHOOL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA ENGINEERING AND TRAFFIC SURVEY

16

STREET BARRANCA AVE
FROM SAN BERNARDINO RD

CERTIFICATION DATE 3/14/16
TO COVINA BLVD

SPEED FACTORS

Date of Speed Survey	1/14/2016	Posted Speed Limit	35 mph
Time of Speed Survey	9:25	Speed Justification	
50th Percentile Speed (Mean Speed)	36 mph	CALIFORNIA MUTCD OPTION 2	
85th Percentile Speed	43 mph		
Average Speed	38 mph		
10 mph Pace Speed	35-44	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	75		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	1	accidents/year
Annual Collision Rate	0.333	
Collisions per Million Vehicle Miles	0.074	

TRAFFIC FACTORS

Average Daily Traffic	20,930	Date Counted	1/20/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ CYPRESS, SAN BERNARDINO, COVINA		
Crosswalks?	@ ALL T.S. , BENWOOD, HURST		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.591	miles
Width	60	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	EAST SIDE	
Adjacent Land Use	RESIDENTIAL, COMMERCIAL, SCHOOL, PARK	

Field Study By KC

Checked By VM

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Date

3/14/16

TE 2341

State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET CITRUS AVE
FROM PUENTE ST

CERTIFICATION DATE 3/14/16
TO BADILLO ST

SPEED FACTORS

Date of Speed Survey	1/14/2016	Posted Speed Limit	35 mph
Time of Speed Survey	11:10	Speed Justification	CLOSEST TO 85TH SPEED
50th Percentile Speed (Mean Speed)	30 mph		
85th Percentile Speed	33 mph		
Average Speed	31 mph		
10 mph Pace Speed	26-35	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	91		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	17,731	Date Counted	1/28/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BADILLO, PUENTE		
Crosswalks?	@ ALL T.S. , DEXTER, CENTER		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

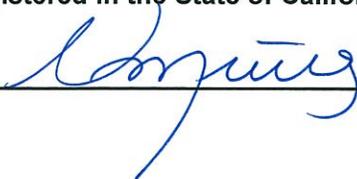
ROADWAY FACTORS

Length of Segment	0.227	miles
Width	64	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA ENGINEERING AND TRAFFIC SURVEY

23

STREET CITRUS AVE
FROM BADILLO ST

CERTIFICATION DATE 3/14/16
TO SAN BERNARDINO RD

SPEED FACTORS

Date of Speed Survey	1/14/2016	Posted Speed Limit	25 mph
Time of Speed Survey	11:30	Speed Justification	CLOSEST TO 85TH SPEED
50th Percentile Speed (Mean Speed)	23 mph		
85th Percentile Speed	27 mph		
Average Speed	24 mph		
10 mph Pace Speed	20-29	Recommended Speed Limit	25 mph
Percentage of Vehicles in Pace	92		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	12,471	Date Counted	1/28/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BADILLO, COLLEGE, SAN BERNARDINO		
Crosswalks?	@ ALL T.S., ORANGE, ITALIA, MIDBLOCK		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.273	miles
Width	56	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET CITRUS AVE
FROM SAN BERNARDINO RD

CERTIFICATION DATE 3/14/16
TO COVINA BLVD

SPEED FACTORS

Date of Speed Survey	1/14/2016	Posted Speed Limit	35 mph
Time of Speed Survey	11:55	Speed Justification	
50th Percentile Speed (Mean Speed)	37 mph	VERT. CURVE, HIDDEN DWYS, PED.	
85th Percentile Speed	41 mph	TRAFFIC, UNC. XWALKS	
Average Speed	38 mph		
10 mph Pace Speed	33-42	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	83		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	16,696	Date Counted	1/28/2016
Number of Lanes	4 LANES + BIKE LANE - DIVIDED, 2WY LT-LANE		
Type of Traffic Control	T.S.@ SAN BERN., FRONT, METRO, CYPRESS, COVINA		
Crosswalks?	@ ALL T.S., UNCONTROLLED @ BENBOW, GENEVA		
Pedestrian Traffic	HEAVY		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.636	miles
Width	84	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL, RESIDENTIAL	

Field Study By KC

Checked By VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



Date

3/14/16

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET CITRUS AVE
FROM COVINA BLVD

CERTIFICATION DATE 3/14/16
TO ARROW HWY

SPEED FACTORS

Date of Speed Survey	1/14/2016	Posted Speed Limit	40 mph
Time of Speed Survey	12:20	Speed Justification	HIDDEN DWYS, PED. TRAFFIC
50th Percentile Speed (Mean Speed)	41 mph		
85th Percentile Speed	45 mph		
Average Speed	41 mph		
10 mph Pace Speed	37-46	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	84		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	17,785	Date Counted	1/28/2016
Number of Lanes	4 LANES + 2WY LT-LANE		
Type of Traffic Control	T.S. @ COVINA, ARROW, SHOPPING CTR		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	HEAVY		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	80	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL, RESIDENTIAL	

Field Study By KC

Checked By VM

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 3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET COVINA BLVD
FROM CITRUS AVE

CERTIFICATION DATE 3/14/16
TO GRAND AVE

SPEED FACTORS

Date of Speed Survey	1/14/2016	Posted Speed Limit	40 mph
Time of Speed Survey	13:25	Speed Justification	
50th Percentile Speed (Mean Speed)	37 mph	CLOSEST TO 85TH SPEED	
85th Percentile Speed	41 mph		
Average Speed	38 mph		
10 mph Pace Speed	34-43	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	80		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	2	accidents/year
Annual Collision Rate	0.667	
Collisions per Million Vehicle Miles	0.180	

TRAFFIC FACTORS

Average Daily Traffic	10,120	Date Counted	1/28/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ CITRUS, BARRANCA, GRAND		
Crosswalks?	@ALL T.S., FAIRVALLEY, PROSPERO, DEL LANA		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	NONE		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

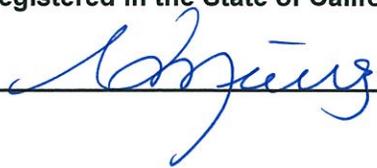
ROADWAY FACTORS

Length of Segment	1.000	miles
Width	58	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL, RESIDENTIAL, SCHOOLS	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET COVINA HILLS RD
FROM GRAND AVE

CERTIFICATION DATE 3/14/16
TO RANCHO LA CARLOTA RD

SPEED FACTORS

Date of Speed Survey	3/9/2016	Posted Speed Limit	35 mph
Time of Speed Survey	14:00	Speed Justification	
50th Percentile Speed (Mean Speed)	31 mph		VERT. AND HORIZ. CURVE, HIDDEN DWYS
85th Percentile Speed	35 mph		
Average Speed	31 mph		
10 mph Pace Speed	28-37	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	80		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	1	accidents/year
Annual Collision Rate	0.333	
Collisions per Million Vehicle Miles	0.258	

TRAFFIC FACTORS

Average Daily Traffic	3,546	Date Counted	1/26/2016
Number of Lanes	2 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ GRAND ; STOP @ OAK CANYON		
Crosswalks?	@ T.S. AND STOP		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	NONE		
Sidwalks?	SOUTH SIDE		
Driveways?	BOTH SIDES		

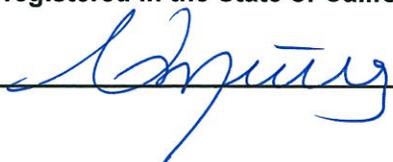
ROADWAY FACTORS

Length of Segment	1.000	miles
Width	22	feet
Vertical Curve?	YES	
Horizontal Curve?	YES	
Visibility	FAIR	
Roadway Conditions	POOR	
Lighting	SOUTH SIDE	
Adjacent Land Use	RESIDENTIAL	

Field Study By KC

Checked By VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET CYPRESS ST
FROM LEAF AVE

CERTIFICATION DATE 3/14/16
TO HOLLENBECK AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	40 mph
Time of Speed Survey	12:20	Speed Justification	
50th Percentile Speed (Mean Speed)	36 mph	CLOSEST TO 85TH SPEED	
85th Percentile Speed	41 mph		
Average Speed	37 mph		
10 mph Pace Speed	32-41	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	75		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	1	accidents/year
Annual Collision Rate	0.333	
Collisions per Million Vehicle Miles	0.066	

TRAFFIC FACTORS

Average Daily Traffic	15,171	Date Counted	1/28/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ AZUSA, HOMEREST, HOLLENBECK		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.909	miles
Width	62	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	SOUTH SIDE	
Adjacent Land Use	RESIDENTIAL, SCHOOL	

Field Study By KC

Checked By VM

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3/14/15
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET CYPRESS ST
FROM HOLLENBECK AVE

CERTIFICATION DATE 3/14/16
TO CITRUS AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	40 mph
Time of Speed Survey	12:00	Speed Justification	CLOSEST TO 85TH SPEED
50th Percentile Speed (Mean Speed)	37 mph		
85th Percentile Speed	40 mph		
Average Speed	38 mph		
10 mph Pace Speed	33-42	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	84		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	13,466	Date Counted	1/28/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ CITRUS, HOLLENBECK		
Crosswalks?	@ ALL T.S. , FOURTH		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	60	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	SOUTH SIDE	
Adjacent Land Use	RESIDENTIAL, SCHOOL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET CYPRESS ST
FROM CITRUS AVE

CERTIFICATION DATE 3/14/16
TO BARRANCA AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	35 mph
Time of Speed Survey	11:40	Speed Justification	
50th Percentile Speed (Mean Speed)	37 mph	CLOSEST TO 85TH SPEED	
85th Percentile Speed	42 mph		
Average Speed	38 mph		
10 mph Pace Speed	34-43	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	73		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	10,346	Date Counted	1/28/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BARRANCA, CITRUS; STOP@ 1ST ST		
Crosswalks?	@ ALL T.S. AND STOPS		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	60	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET CYPRESS ST
FROM GRAND AVE

CERTIFICATION DATE 3/14/16
TO GLENDORA AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	40 mph
Time of Speed Survey	10:40	Speed Justification	
50th Percentile Speed (Mean Speed)	38 mph	CLOSEST TO 85TH SPEED	
85th Percentile Speed	42 mph		
Average Speed	39 mph		
10 mph Pace Speed	35-44	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	79		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	9,670	Date Counted	1/28/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ GLENDORA, GRAND		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	58	feet
Vertical Curve?	NONE	
Horizontal Curve?	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, COMMERCIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET GLENDORA AVE
FROM RUDDOCK ST

CERTIFICATION DATE 3/14/16
TO CYPRESS ST

SPEED FACTORS

Date of Speed Survey	1/19/2016	Posted Speed Limit	35 mph
Time of Speed Survey	13:20	Speed Justification	
50th Percentile Speed (Mean Speed)	37 mph	VERT. CURVE, HIDDEN DWYS, UNIFORMITY	
85th Percentile Speed	41 mph	ADJ. SEG., UNC. XWALKS	
Average Speed	38 mph		
10 mph Pace Speed	35-44	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	90		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	9,536	Date Counted	1/20/2016
Number of Lanes	4 LANES - UNDIVIDED + BIKE LANES		
Type of Traffic Control	T.S. @ CYPRESS; STOP @ RUDDOCK		
Crosswalks?	@ T.S. AND STOP, WINGATE, COLVER		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES - RESTRICTED		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.409	miles
Width	60	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, COMMERCIAL, PARK	

Field Study By KC

Checked By VM

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 3/14/15
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET GLENDORA AVE
FROM CYPRESS ST

CERTIFICATION DATE 3/14/16
TO COVINA BLVD

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	35 mph
Time of Speed Survey	10:15	Speed Justification	
50th Percentile Speed (Mean Speed)	37 mph	HIDDEN DWYS, UNIFORMITY W/ ADJ. SEG.,	
85th Percentile Speed	40 mph	PED. TRAFFIC	
Average Speed	37 mph		
10 mph Pace Speed	32-41	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	81		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	9,647	Date Counted	1/20/2016
Number of Lanes	4 LANES - UNDIVIDED + BIKE LANES		
Type of Traffic Control	T.S. @ COVINA, CYPRESS		
Crosswalks?	@ T.S.		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES - RESTRICTED		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.250	miles
Width	64	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	WEST SIDE	
Adjacent Land Use	RESIDENTIAL, COMMERCIAL, CHURCH	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA ENGINEERING AND TRAFFIC SURVEY

41

STREET GLENDORA AVE
FROM COVINA BLVD

CERTIFICATION DATE 3/14/16
TO CIENEGA AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	35 mph
Time of Speed Survey	9:55	Speed Justification	
50th Percentile Speed (Mean Speed)	36 mph	HIDDEN DWYS, UNIFORMITY W/ ADJ. SEG.,	
85th Percentile Speed	42 mph	PED. TRAFFIC	
Average Speed	37 mph		
10 mph Pace Speed	34-43	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	76		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years	
Total Collisions	0	accidents/year	
Annual Collision Rate	0		
Collisions per Million Vehicle Miles	0.000		

TRAFFIC FACTORS

Average Daily Traffic	10,846	Date Counted	1/20/2016
Number of Lanes	4 LANES - UNDIVIDED + BIKE LANES		
Type of Traffic Control	T.S. @ COVINA, CIENEGA		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES - RESTRICTED		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

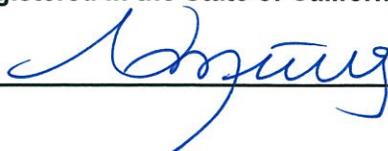
ROADWAY FACTORS

Length of Segment	0.273	miles
Width	60	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	EAST SIDE	
Adjacent Land Use	RESIDENTIAL, SCHOOL	

Field Study By KC

Checked By VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



Date

3/14/16

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET GRAND AVE
FROM PUENTE ST

CERTIFICATION DATE 3/14/16
TO SAN BERNARDINO RD

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	40 mph
Time of Speed Survey	14:30	Speed Justification	CLOSEST TO 85TH SPEED
50th Percentile Speed (Mean Speed)	36 mph		
85th Percentile Speed	41 mph		
Average Speed	37 mph		
10 mph Pace Speed	35-44	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	71		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	3	accidents/year
Annual Collision Rate	1	
Collisions per Million Vehicle Miles	0.170	

TRAFFIC FACTORS

Average Daily Traffic	27,270	Date Counted	1/20/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ PUENTE, BADILLO, SAN BERNARDINO RD		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.591	miles
Width	80	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, COMMERCIAL, SCHOOL	

Field Study By KC **Checked By** VM

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 3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET GRAND AVE
FROM SAN BERNARDINO RD

CERTIFICATION DATE 3/14/16
TO COVINA BLVD

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	40 mph
Time of Speed Survey	15:30	Speed Justification	CLOSEST TO 85TH SPEED
50th Percentile Speed (Mean Speed)	37 mph		
85th Percentile Speed	42 mph		
Average Speed	38 mph		
10 mph Pace Speed	34-43	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	80		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	4	accidents/year
Annual Collision Rate	1.333	
Collisions per Million Vehicle Miles	0.232	

TRAFFIC FACTORS

Average Daily Traffic	28,913	Date Counted	1/20/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ SAN BERNARDINO, EDNA, CYPRESS, COVINA		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.545	miles
Width	69	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	POOR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, COMMERCIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET GRAND AVE
FROM COVINA BLVD

CERTIFICATION DATE 3/14/16
TO ARROW HWY

SPEED FACTORS

Date of Speed Survey	1/13/2016	Posted Speed Limit	40 mph
Time of Speed Survey	14:10	Speed Justification	CLOSEST TO 85TH SPEED
50th Percentile Speed (Mean Speed)	38 mph		
85th Percentile Speed	42 mph		
Average Speed	39 mph		
10 mph Pace Speed	35-44	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	81		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	25,922	Date Counted	1/20/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ COVINA, CIENEGA, ARROW		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.455	miles
Width	84	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, COMMERCIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET HOLLENBECK AVE
FROM SOUTH CITY LIMITS

CERTIFICATION DATE 3/14/16
TO ROWLAND AVE

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	35 mph
Time of Speed Survey	10:00	Speed Justification	
50th Percentile Speed (Mean Speed)	37 mph		HIDDEN DWYS, UNIFORMITY W/ ADJ. SEG.
85th Percentile Speed	42 mph		
Average Speed	38 mph		
10 mph Pace Speed	34-43	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	80		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	15,288	Date Counted	1/20/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ ROWLAND, WORKMAN		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	EAST SIDE		

ROADWAY FACTORS

Length of Segment	0.273	miles
Width	60	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET HOLLENBECK AVE
FROM ROWLAND AVE

CERTIFICATION DATE 3/14/16
TO BADILLO ST

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	35 mph
Time of Speed Survey	9:40	Speed Justification	
50th Percentile Speed (Mean Speed)	37 mph	HIDDEN DWYS, UNIFORMITY W/ ADJ. SEG.,	
85th Percentile Speed	42 mph	PED. TRAFFIC	
Average Speed	38 mph		
10 mph Pace Speed	36-45	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	83		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	17,085	Date Counted	1/20/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ ROWLAND, PUENTE, BADILLO		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	HEAVY		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	60	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	EAST SIDE	
Adjacent Land Use	RESIDENTIAL, SCHOOL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET HOLLENBECK AVE
FROM COVINA BLVD

CERTIFICATION DATE 3/14/16
TO ARROW HWY

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	40 mph
Time of Speed Survey	9:00	Speed Justification	CALIFORNIA MUTCD OPTION 2
50th Percentile Speed (Mean Speed)	40 mph		
85th Percentile Speed	44 mph		
Average Speed	40 mph		
10 mph Pace Speed	36-45	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	75		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	1	accidents/year
Annual Collision Rate	0.333	
Collisions per Million Vehicle Miles	0.130	

TRAFFIC FACTORS

Average Daily Traffic	14,085	Date Counted	1/20/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ COVINA , GROVERDALE, ARROW		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

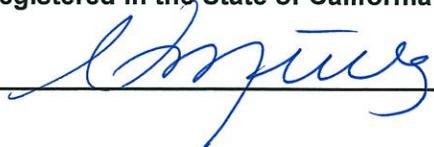
ROADWAY FACTORS

Length of Segment	0.500	miles
Width	60	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, PARK	

Field Study By KC

Checked By VM

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Date 3/14/16

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET HOLT AVE
FROM I-10 FREEWAY

CERTIFICATION DATE 3/14/16
TO VIA VERDE ST

SPEED FACTORS

Date of Speed Survey	1/19/2016	Posted Speed Limit	45 mph
Time of Speed Survey	11:35	Speed Justification	
50th Percentile Speed (Mean Speed)	35 mph	UNIFORMITY W/ ADJ. SEG.	
85th Percentile Speed	41 mph		
Average Speed	36 mph		
10 mph Pace Speed	32-41	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	69		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	3,929	Date Counted	1/20/2016
Number of Lanes	2 LANES - UNDIVIDED		
Type of Traffic Control	NONE		
Crosswalks?	@ PARK VIEW		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	NONE		

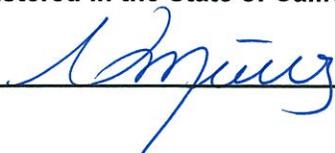
ROADWAY FACTORS

Length of Segment	0.318	miles
Width	64	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	POOR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL, RESIDENTIAL	

Field Study By KC

Checked By VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET LARK ELLEN AVE
FROM GROVECENTER ST

CERTIFICATION DATE 3/14/16
TO EDNA PL

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	40 mph
Time of Speed Survey	13:20	Speed Justification	CLOSEST TO 85TH SPEED
50th Percentile Speed (Mean Speed)	35 mph		
85th Percentile Speed	41 mph		
Average Speed	37 mph		
10 mph Pace Speed	31-40	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	72		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	16,475	Date Counted	1/26/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BADILLO, SAN BERNARDINO		
Crosswalks?	@ ALL T.S. , GROVE CENTER		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	60	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	SCHOOL, COMMERCIAL, HOSPITAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET PUENTE ST
FROM ARMEL DR

CERTIFICATION DATE 3/14/16
TO HOLLENBECK AVE

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	35 mph
Time of Speed Survey	10:25	Speed Justification	CALIFORNIA MUTCD OPTION 2
50th Percentile Speed (Mean Speed)	35 mph		
85th Percentile Speed	39 mph		
Average Speed	36 mph		
10 mph Pace Speed	32-41	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	79		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	1	accidents/year
Annual Collision Rate	0.333	
Collisions per Million Vehicle Miles	0.441	

TRAFFIC FACTORS

Average Daily Traffic	9,132	Date Counted	1/26/2016
Number of Lanes	2 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ HOLLENBECK		
Crosswalks?	@ T.S., ARMEL, HEATHDALE		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	BOTH SIDES; S. SIDE - RESTR.		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.227	miles
Width	42	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	SOUTH SIDE	
Adjacent Land Use	RESIDENTIAL, SCHOOL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET PUENTE ST
FROM HOLLENBECK AVE

CERTIFICATION DATE 3/14/16
TO CITRUS AVE

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	35 mph
Time of Speed Survey	10:45	Speed Justification	
50th Percentile Speed (Mean Speed)	34 mph	HIDDEN DWYS, UNIFORMITY W/ ADJ. SEG.,	
85th Percentile Speed	41 mph	PED. TRAFFIC	
Average Speed	36 mph		
10 mph Pace Speed	30-39	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	76		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	8,632	Date Counted	1/26/2016
Number of Lanes	2 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ HOLLENBECK, CITRUS		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	42	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, HIGH SCHOOL STADIUM	

Field Study By KC **Checked By** VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET PUENTE ST
FROM BARRANCA AVE

CERTIFICATION DATE 3/14/16
TO GRAND AVE

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	40 mph
Time of Speed Survey	11:35	Speed Justification	CALIFORNIA MUTCD OPTION 2
50th Percentile Speed (Mean Speed)	37 mph		
85th Percentile Speed	43 mph		
Average Speed	38 mph		
10 mph Pace Speed	33-42	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	68		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	5,603	Date Counted	1/26/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BARRANCA, GRAND		
Crosswalks?	@ ALL T.S., MONTE VISTA, DE LAY		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	64	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, SCHOOL	

Field Study By KC **Checked By** VM

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 3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET PUENTE ST
FROM GRAND AVE

CERTIFICATION DATE 3/14/16
TO GLENDORA AVE

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	40 mph
Time of Speed Survey	12:10	Speed Justification	
50th Percentile Speed (Mean Speed)	36 mph	HIDDEN DWYS, VERT. CURVE, PED.	
85th Percentile Speed	40 mph	TRAFFIC	
Average Speed	36 mph		
10 mph Pace Speed	33-42	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	75		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	5,699	Date Counted	1/26/2016
Number of Lanes	4 - UNDIVIDED		
Type of Traffic Control	T.S. @ GRAND ; STOP @ FARBER, GLENDORA		
Crosswalks?	@ ALL T.S. & STOPS		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	NORTH SIDE		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	60	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, SCHOOL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET PUENTE ST
FROM GLENDORA AVE

CERTIFICATION DATE 3/14/16
TO SHOUSE AVE

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	25 mph
Time of Speed Survey	12:35	Speed Justification	
50th Percentile Speed (Mean Speed)	28 mph	HIDDEN DWYS, VERT. CURVE	
85th Percentile Speed	32 mph		
Average Speed	29 mph		
10 mph Pace Speed	25-34	Recommended Speed Limit	25 mph
Percentage of Vehicles in Pace	77		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	1,478	Date Counted	1/26/2016
Number of Lanes	2 LANES - UNDIVIDED		
Type of Traffic Control	STOP @ GLENDORA		
Crosswalks?	@ GLENDORA		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.114	miles
Width	48	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	NORTH SIDE	
Adjacent Land Use	RESIDENTIAL	

Field Study By KC

Checked By VM

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Date 3/14/16

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET PUENTE ST
FROM REEDER AVE

CERTIFICATION DATE 3/14/16
TO RANCHO CORTO DR

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	45 mph
Time of Speed Survey	13:45	Speed Justification	CLOSEST TO 85TH SPEED
50th Percentile Speed (Mean Speed)	41 mph		
85th Percentile Speed	47 mph		
Average Speed	42 mph		
10 mph Pace Speed	37-46	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	72		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	4,729	Date Counted	1/20/2016
Number of Lanes	2 LANES + 2WY LT-LANE		
Type of Traffic Control	STOP @ REEDER		
Crosswalks?	@ ALL STOPS		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	SOUTH SIDE		
Driveways?	NORTH SIDE		

ROADWAY FACTORS

Length of Segment	0.636	miles
Width	64	feet
Vertical Curve?	YES	
Horizontal Curve?	YES	
Visibility	FAIR	
Roadway Conditions	POOR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, GOLF COURSE	

Field Study By KC

Checked By VM

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 3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET REEDER AVE
FROM PUENTE ST

CERTIFICATION DATE 3/14/16
TO OLD BADILLO ST

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	35 mph
Time of Speed Survey	14:30	Speed Justification	
50th Percentile Speed (Mean Speed)	31 mph	CLOSEST TO 85TH SPEED	
85th Percentile Speed	35 mph		
Average Speed	32 mph		
10 mph Pace Speed	27-36	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	81		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	1	accidents/year
Annual Collision Rate	0.333	
Collisions per Million Vehicle Miles	0.806	

TRAFFIC FACTORS

Average Daily Traffic	4,992	Date Counted	1/20/2016
Number of Lanes	2 LANES - UNDIVIDED		
Type of Traffic Control	STOP @ OLD BADILLO, PUENTE		
Crosswalks?	@ ALL STOPS		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	NO		
Sidwalks?	EAST SIDE		
Driveways?	EAST SIDE		

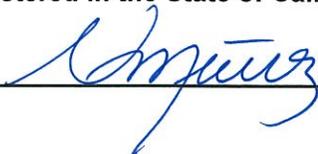
ROADWAY FACTORS

Length of Segment	0.227	miles
Width	32	feet
Vertical Curve?	YES	
Horizontal Curve?	YES	
Visibility	BAD	
Roadway Conditions	POOR	
Lighting	EAST SIDE	
Adjacent Land Use	RESIDENTIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET REEDER AVE
FROM OLD BADILLO ST

CERTIFICATION DATE 3/14/16
TO BADILLO ST

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	30 mph
Time of Speed Survey	14:10	Speed Justification	
50th Percentile Speed (Mean Speed)	33 mph		VERT. CURVE, PED. TRAFFIC
85th Percentile Speed	37 mph		
Average Speed	34 mph		
10 mph Pace Speed	29-38	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	75		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	1	accidents/year
Annual Collision Rate	0.333	
Collisions per Million Vehicle Miles	0.823	

TRAFFIC FACTORS

Average Daily Traffic	4,888	Date Counted	1/21/2016
Number of Lanes	3 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BADILLO ; STOP @ OLD BADILLO		
Crosswalks?	@ ALL T.S. AND STOP		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	WEST SIDE - RESTRICTED		
Sidwalks?	BOTH SIDES		
Driveways?	NONE		

ROADWAY FACTORS

Length of Segment	0.227	miles
Width	50	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	EAST SIDE	
Adjacent Land Use	RESIDENTIAL, SCHOOL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET REEDER AVE
FROM BADILLO ST

CERTIFICATION DATE 3/14/16
TO CYPRESS ST

SPEED FACTORS

Date of Speed Survey	1/20/2016	Posted Speed Limit	30 mph
Time of Speed Survey	14:50	Speed Justification	
50th Percentile Speed (Mean Speed)	35 mph	HIDDEN DWYS, VERT. CURVE, HIGH	
85th Percentile Speed	40 mph	PARKING TURNOVER	
Average Speed	37 mph		
10 mph Pace Speed	32-41	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	73		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	2,499	Date Counted	1/20/2016
Number of Lanes	2 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BADILLO , STOP @ CYPRESS		
Crosswalks?	@ ALL T.S. AND STOP		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	EAST SIDE		
Driveways?	BOTH SIDES		

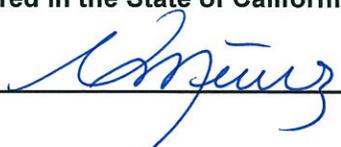
ROADWAY FACTORS

Length of Segment	0.455	miles
Width	42	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	EAST SIDE	
Adjacent Land Use	RESIDENTIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET ROWLAND AVE
FROM ARMEL DR

CERTIFICATION DATE 3/14/16
TO CITRUS AVE

SPEED FACTORS

Date of Speed Survey	1/19/2016	Posted Speed Limit	40 mph
Time of Speed Survey	9:25	Speed Justification	
50th Percentile Speed (Mean Speed)	36 mph	CLOSEST TO 85TH SPEED	
85th Percentile Speed	40 mph		
Average Speed	36 mph		
10 mph Pace Speed	32-41	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	73		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	13,997	Date Counted	1/26/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ HOLLENBECK, CITRUS		
Crosswalks?	@ ALL T.S. , ARMEL		
Pedestrian Traffic	HEAVY		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

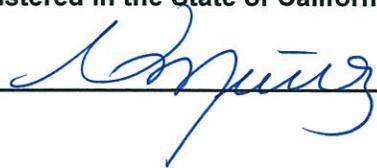
ROADWAY FACTORS

Length of Segment	0.727	miles
Width	75	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	POOR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, MEDICAL CENTERS	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET ROWLAND AVE
FROM CITRUS AVE

CERTIFICATION DATE 3/14/16
TO BARRANCA AVE

SPEED FACTORS

Date of Speed Survey	1/19/2016	Posted Speed Limit	35 mph
Time of Speed Survey	9:00	Speed Justification	
50th Percentile Speed (Mean Speed)	36 mph	CLOSEST TO 85TH SPEED	
85th Percentile Speed	41 mph		
Average Speed	37 mph		
10 mph Pace Speed	34-43	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	70		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	12,943	Date Counted	1/26/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BARRANCA, SECOND, CITRUS		
Crosswalks?	@ ALL T.S., FIRST, EREMLAND		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	75	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET ROWLAND AVE
FROM BARRANCA AVE

CERTIFICATION DATE 3/14/16
TO FORESTDALE AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	40 mph
Time of Speed Survey	15:15	Speed Justification	
50th Percentile Speed (Mean Speed)	40 mph	HIDDEN DWYS, UNIFORMITY W/ ADJ. SEG.	
85th Percentile Speed	46 mph		
Average Speed	41 mph		
10 mph Pace Speed	36-45	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	72		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	9,101	Date Counted	1/28/2016
Number of Lanes	4 LANES + 2WY LT-LANE		
Type of Traffic Control	T.S. @ BARRANCA		
Crosswalks?	@ BARRANCA		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

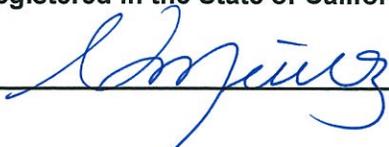
ROADWAY FACTORS

Length of Segment	0.273	miles
Width	77	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET SAN BERNARDINO RD
FROM VINCENT AVE

CERTIFICATION DATE 3/14/16
TO LARK ELLEN AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	40 mph
Time of Speed Survey	12:45	Speed Justification	
50th Percentile Speed (Mean Speed)	40 mph	HIDDEN DWYS, HORIZ. CURVE, HIGH	
85th Percentile Speed	45 mph	PARKING TURNOVER	
Average Speed	41 mph		
10 mph Pace Speed	38-47	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	80		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years	
Total Collisions	1	accidents/year	
Annual Collision Rate	0.333		
Collisions per Million Vehicle Miles	0.115		

TRAFFIC FACTORS

Average Daily Traffic	15,929	Date Counted	1/28/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ VINCENT, LARK ELLEN		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles	
Width	64	feet	
Vertical Curve?	NONE		
Horizontal Curve?	YES		
Visibility	FAIR		
Roadway Conditions	FAIR		
Lighting	BOTH SIDES		
Adjacent Land Use	RESIDENTIAL, COMMERCIAL		

Field Study By KC Checked By VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

Vanessa Munoz

3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET SAN BERNARDINO RD
FROM LARK ELLEN AVE

CERTIFICATION DATE 3/14/16
TO AZUSA AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	35 mph
Time of Speed Survey	13:40	Speed Justification	CALIFORNIA MUTCD OPTION 2
50th Percentile Speed (Mean Speed)	33 mph		
85th Percentile Speed	38 mph		
Average Speed	34 mph		
10 mph Pace Speed	31-40	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	73		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	2	accidents/year
Annual Collision Rate	0.667	
Collisions per Million Vehicle Miles	0.200	

TRAFFIC FACTORS

Average Daily Traffic	18,225	Date Counted	1/28/2016
Number of Lanes	4 LANES + 2WY LT-LANE		
Type of Traffic Control	T.S. @ LARK ELLEN, RIMSDALE, AZUSA		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

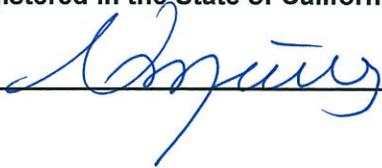
ROADWAY FACTORS

Length of Segment	0.500	miles
Width	64	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL, RESIDENTIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET SAN BERNARDINO RD
FROM HOLLENBECK AVE

CERTIFICATION DATE 3/14/16
TO CITRUS AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	30 mph
Time of Speed Survey	14:15	Speed Justification	
50th Percentile Speed (Mean Speed)	31 mph	HIDDEN DWYS, UNC. XWALKS, PED.	
85th Percentile Speed	36 mph	TRAFFIC	
Average Speed	32 mph		
10 mph Pace Speed	27-36	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	80		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	11,838	Date Counted	1/28/2016
Number of Lanes	2 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ HOLLENBECK, CITRUS, 3RD		
Crosswalks?	@ ALL T.S., VALENCIA., 4TH		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	NONE		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

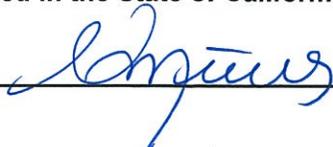
ROADWAY FACTORS

Length of Segment	0.500	miles
Width	42	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	NORTH SIDE	
Adjacent Land Use	RESIDENTIAL, HOSPITAL, PARK	

Field Study By KC

Checked By VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA ENGINEERING AND TRAFFIC SURVEY

69

STREET SAN BERNARDINO RD
FROM CITRUS AVE

CERTIFICATION DATE 3/14/16
TO BARRANCA AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	35 mph
Time of Speed Survey	14:35	Speed Justification	
50th Percentile Speed (Mean Speed)	35 mph	CALIFORNIA MUTCD OPTION 2	
85th Percentile Speed	39 mph		
Average Speed	36 mph		
10 mph Pace Speed	33-42	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	82		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	11,780	Date Counted	1/28/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ CITRUS, 2ND, BARRANCA		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	64	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	POOR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

Field Study By KC

Checked By VM

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Date

3/14/16

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET SAN BERNARDINO RD
FROM BARRANCA AVE

CERTIFICATION DATE 3/14/16
TO GRAND AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	35 mph
Time of Speed Survey	14:55	Speed Justification	
50th Percentile Speed (Mean Speed)	36 mph	HIDDEN DWYS, UNIFORMITY W/ ADJ. SEG.,	
85th Percentile Speed	40 mph	VERT. AND HORIZ. CURVE	
Average Speed	37 mph		
10 mph Pace Speed	34-43	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	80		
Number of Survey Samples	100		

COLLISION HISTORY

		years
Number of Years Studied	3	
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

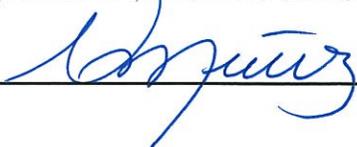
Average Daily Traffic	9,514	Date Counted	1/28/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BARRANCA, GRAND		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	60	feet
Vertical Curve?	YES	
Horizontal Curve?	YES	
Visibility	FAIR	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL, RESIDENTIAL	

Field Study By KC **Checked By** VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA ENGINEERING AND TRAFFIC SURVEY

71

STREET SECOND AVE
FROM ROWLAND AVE

CERTIFICATION DATE 3/14/16
TO BADILLO ST

SPEED FACTORS

Date of Speed Survey	1/19/2016	Posted Speed Limit	35 mph
Time of Speed Survey	10:20	Speed Justification	
50th Percentile Speed (Mean Speed)	35 mph	HIDDEN DWYS, UNC. XWALKS, HIGH PARKING TURNOVER	
85th Percentile Speed	41 mph		
Average Speed	37 mph		
10 mph Pace Speed	32-41	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	79		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years	
Total Collisions	1	accidents/year	
Annual Collision Rate	0.333		
Collisions per Million Vehicle Miles	0.216		

TRAFFIC FACTORS

Average Daily Traffic	8,443	Date Counted	1/20/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BADILLO, PUENTE, ROWLAND		
Crosswalks?	@ ALL T.S., CENTER, DEXTER		
Pedestrian Traffic	LIGHT		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles	
Width	62	feet	
Vertical Curve?	NONE		
Horizontal Curve?	NONE		
Visibility	FAIR		
Roadway Conditions	FAIR		
Lighting	BOTH SIDES, MANY		
Adjacent Land Use	RESIDENTIAL, COMMERCIAL		

Field Study By KC Checked By VM

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Vanessa Munoz

3/14/16

Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET SECOND AVE
FROM BADILLO ST

CERTIFICATION DATE 3/14/16
TO FRONT ST

SPEED FACTORS

Date of Speed Survey	1/19/2016	Posted Speed Limit	30 mph
Time of Speed Survey	10:40	Speed Justification	
50th Percentile Speed (Mean Speed)	33 mph	HIDDEN DWYS, UNC. XWALKS, PED.	
85th Percentile Speed	37 mph	TRAFFIC	
Average Speed	34 mph		
10 mph Pace Speed	28-37	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	78		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	7,579	Date Counted	1/20/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ BADILLO, SAN BERNARDINO, COLLEGE; STOP @ FRONT		
Crosswalks?	@ ALL T.S. AND STOPS, ITALIA, SCHOOL		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.364	miles
Width	78	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL, CIVIC CENTER	

Field Study By KC

Checked By VM

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Date

3/14/16

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET SUNFLOWER AVE
FROM CYPRESS ST

CERTIFICATION DATE 3/14/16
TO CIENEGA AVE

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	35 mph
Time of Speed Survey	9:00	Speed Justification	CALIFORNIA MUTCD OPTION 2
50th Percentile Speed (Mean Speed)	35 mph		
85th Percentile Speed	38 mph		
Average Speed	36 mph		
10 mph Pace Speed	32-41	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	85		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	1	accidents/year
Annual Collision Rate	0.333	
Collisions per Million Vehicle Miles	0.192	

TRAFFIC FACTORS

Average Daily Traffic	9,503	Date Counted	1/20/2016
Number of Lanes	4 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ CIENEGA; STOP @ SUNFLOWER, COVINA		
Crosswalks?	@ ALL T.S., STOPS, BENWOOD		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, BOTH SIDES		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	64	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDENTIAL, SCHOOL	

Field Study By KC

Checked By VM

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 3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET VINCENT AVE
FROM BADILLO ST

CERTIFICATION DATE 3/14/16
TO EDNA PL

SPEED FACTORS

Date of Speed Survey	1/21/2016	Posted Speed Limit	35 mph
Time of Speed Survey	13:00	Speed Justification	
50th Percentile Speed (Mean Speed)	34 mph	CALIFORNIA MUTCD OPTION 2	
85th Percentile Speed	39 mph		
Average Speed	36 mph		
10 mph Pace Speed	30-39	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	72		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

Average Daily Traffic	18,871	Date Counted	1/26/2016
Number of Lanes	4 LANES - DIVIDED		
Type of Traffic Control	T.S. @ BADILLO, SAN BERNARDINO		
Crosswalks?	@ ALL T.S.		
Pedestrian Traffic	LIGHT		
Truck Traffic	MODERATE		
On-Street Parking	YES, BOTH SIDES		
Sidewalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

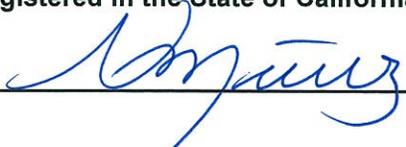
ROADWAY FACTORS

Length of Segment	0.455	miles
Width	80	feet
Vertical Curve?	NONE	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	POOR	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL, INDUSTRIAL	

Field Study By KC

Checked By VM

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3/14/16
Date

TE 2341
State Registration Number

CITY OF COVINA
ENGINEERING AND TRAFFIC SURVEY

STREET WORKMAN AVE
FROM CITRUS AVE

CERTIFICATION DATE 3/14/16
TO BARRANCA AVE

SPEED FACTORS

Date of Speed Survey	1/19/2016	Posted Speed Limit	35 mph
Time of Speed Survey	10:00	Speed Justification	
50th Percentile Speed (Mean Speed)	34 mph	CALIFORNIA MUTCD OPTION 2	
85th Percentile Speed	39 mph		
Average Speed	35 mph		
10 mph Pace Speed	31-40	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	71		
Number of Survey Samples	100		

COLLISION HISTORY

Number of Years Studied	3	years
Total Collisions	0	accidents/year
Annual Collision Rate	0	
Collisions per Million Vehicle Miles	0.000	

TRAFFIC FACTORS

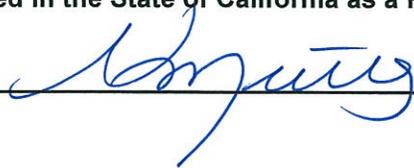
Average Daily Traffic	11,144	Date Counted	1/26/2016
Number of Lanes	2 LANES - UNDIVIDED		
Type of Traffic Control	T.S. @ CITRUS, BARRANCA		
Crosswalks?	@ ALL T.S., SAN ANTONIO, SECOND, PALMETTO		
Pedestrian Traffic	MODERATE		
Truck Traffic	LIGHT		
On-Street Parking	YES, NORTH SIDE		
Sidwalks?	BOTH SIDES		
Driveways?	BOTH SIDES		

ROADWAY FACTORS

Length of Segment	0.500	miles
Width	50	feet
Vertical Curve?	YES	
Horizontal Curve?	NONE	
Visibility	GOOD	
Roadway Conditions	FAIR	
Lighting	SOUTH SIDE	
Adjacent Land Use	COMMERCIAL, RESIDENTIAL	

Field Study By KC **Checked By** VM

CERTIFICATION: I, Vanessa Munoz, T.E., do hereby certify that this Engineering and Traffic Survey within the City of Covina was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

 3/14/16
Date

TE 2341
State Registration Number

Radar Speed Distribution Forms

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Eastbound								Westbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	0	0	51																			0
50	0	0	50																			0
49	0	0	49																			0
48	1	0	48	X																		1
47	0	0	47																			0
46	3	1	46	X	X	X								X								4
45	2	1	45	X	X	X								X								3
44	4	2	44	X	X	X	X							X	X							6
43	1	2	43	X										X	X							3
42	5	2	42	X	X	X	X	X						X	X							7
41	3	1	41	X	X	X								X								4
40	6	4	40	X	X	X	X	X	X					X	X	X	X					10
39	5	3	39	X	X	X	X	X						X	X	X						8
38	6	8	38	X	X	X	X	X	X					X	X	X	X	X	X			14
37	4	8	37	X	X	X	X							X	X	X	X	X	X			12
36	5	5	36	X	X	X	X	X						X	X	X	X					10
35	2	2	35	X	X									X	X							4
34	1	2	34	X										X	X							3
33	0	3	33											X	X	X						3
32	0	1	32											X								1
31	1	0	31	X																		1
30	0	3	30											X	X	X						3
29	0	2	29											X	X							2
28	1	0	28	X																		1
27	0	0	27																			0
26	0	0	26																			0
25	0	0	25																			0
24	0	0	24																			0
23	0	0	23																			0
22	0	0	22																			0
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: Arrow Highway
 Between: Arrow Grand Circle - Grand Avenue
 Weather: Clear
 Date: 1/13/16
 Time From: 12:50
 Time To: 1:05
 Existing Speed Limit: 45 M. P. H.

% Over Pace: 8%
 % In Pace: 78%
 % Under Pace: 14%
 Average Speed: 38 M.P.H.
 Pace Speed: 35 - 44 M.P.H.

15th Percentile / Critical Speed:	34 MPH
50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	42 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	1	0	51	X		1
50	0	0	50			0
49	1	0	49	X		1
48	0	0	48			0
47	0	1	47		X	1
46	1	2	46	X	X X	3
45	3	2	45	X X X	X X	5
44	1	2	44	X	X X	3
43	5	3	43	X X X X X	X X X	8
42	6	2	42	X X X X X X	X X	8
41	8	2	41	X X X X X X X X	X X	10
40	6	2	40	X X X X X X	X X	8
39	6	3	39	X X X X X X	X X X	9
38	3	6	38	X X X	X X X X X X	9
37	5	7	37	X X X X X	X X X X X X X	12
36	2	8	36	X X	X X X X X X X X	10
35	2	3	35	X X	X X X	5
34	0	5	34		X X X X X	5
33	0	1	33		X	1
32	0	1	32		X	1
31	0	0	31			0
30	0	0	30			0
29	0	0	29			0
28	0	0	28			0
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Azusa Avenue

Between: South City Limits - San Bernardino Road

Weather: Clear

Date: 1/13/16

Time From: 11:20

Time To: 11:45

Existing Speed Limit: 35 M. P. H.

P A C E	% Over Pace:	14%
	% In Pace:	84%
	% Under Pace:	2%
	Average Speed:	40 M.P.H.
	Pace Speed:	34 - 43 M.P.H.
	15th Percentile / Critical Speed:	35 MPH
	50th Percentile / Critical Speed:	38 MPH
85th Percentile / Critical Speed:	43 MPH	

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Northbound								Southbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	1	0	51	X																	1
50	0	0	50																		0
49	1	0	49	X																	1
48	0	0	48																		0
47	1	0	47	X																	1
46	0	0	46																		0
45	2	0	45	X	X																2
44	3	0	44	X	X	X															3
43	2	3	43	X	X					X	X	X									5
42	4	1	42	X	X	X	X			X											5
41	6	1	41	X	X	X	X	X	X	X											7
40	6	4	40	X	X	X	X	X	X	X	X	X									10
39	4	3	39	X	X	X	X			X	X	X									7
38	7	10	38	X	X	X	X	X	X	X	X	X	X	X	X	X					17
37	3	8	37	X	X	X				X	X	X	X	X	X	X					11
36	2	8	36	X	X					X	X	X	X	X	X	X					10
35	4	4	35	X	X	X	X			X	X	X	X								8
34	3	3	34	X	X	X				X	X	X									6
33	0	1	33							X											1
32	0	0	32																		0
31	1	2	31	X						X	X										3
30	0	0	30																		0
29	0	0	29																		0
28	0	1	28							X											1
27	0	1	27							X											1
26	0	0	26																		0
25	0	0	25																		0
24	0	0	24																		0
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: Azusa Avenue

Between: San Bernardino Road - Cypress Street

Weather: Clear

Date: 1/13/16

Time From: 11:45

Time To: 12:10

Existing Speed Limit: 40 M. P. H.

P A C E	% Over Pace:	8%
	% In Pace:	86%
	% Under Pace:	6%
	Average Speed:	38 M.P.H.
	Pace Speed:	34 - 43 M.P.H.
	15th Percentile / Critical Speed:	34 MPH
	50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	41 MPH	

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Northbound								Southbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	0	0	51																			0
50	0	0	50																			0
49	0	0	49																			0
48	0	0	48																			0
47	0	0	47																			0
46	0	0	46																			0
45	0	0	45																			0
44	0	0	44																			0
43	1	0	43	X																		1
42	0	1	42								X											1
41	1	1	41	X							X											2
40	1	3	40	X							X	X	X									4
39	0	0	39																			0
38	4	7	38	X	X	X	X				X	X	X	X	X	X	X					11
37	7	1	37	X	X	X	X	X	X		X											8
36	4	6	36	X	X	X	X				X	X	X	X	X	X						10
35	5	6	35	X	X	X	X				X	X	X	X	X	X						11
34	9	5	34	X	X	X	X	X	X	X	X	X	X	X								14
33	3	3	33	X	X	X					X	X	X									6
32	4	5	32	X	X	X	X				X	X	X	X	X							9
31	8	5	31	X	X	X	X	X	X	X	X	X	X	X								13
30	1	0	30	X																		1
29	0	4	29								X	X	X	X								4
28	1	1	28	X							X											2
27	1	0	27	X																		1
26	0	2	26								X	X										2
25	0	0	25																			0
24	0	0	24																			0
23	0	0	23																			0
22	0	0	22																			0
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: Azusa Avenue

Between: Cypress Street - Arrow Highway

Weather: Clear

Date: 1/13/16

Time From: 12:15

Time To: 12:40

Existing Speed Limit: 40 M. P. H.

% Over Pace:	8%
% In Pace:	87%
% Under Pace:	5%
Average Speed:	34 M.P.H.
Pace Speed:	29 - 38 M.P.H.
15th Percentile / Critical Speed:	30 MPH
50th Percentile / Critical Speed:	33 MPH
85th Percentile / Critical Speed:	37 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	1	0	50	X		1
49	0	0	49			0
48	2	0	48	X X		2
47	0	0	47			0
46	3	1	46	X X X	X	4
45	2	0	45	X X		2
44	2	2	44	X X	X X	4
43	1	4	43	X	X X X X	5
42	4	3	42	X X X X	X X X	7
41	6	5	41	X X X X X X	X X X X X	11
40	2	4	40	X X	X X X X	6
39	2	6	39	X X	X X X X X X	8
38	10	4	38	X X X X X X X X X X X	X X X X	14
37	6	3	37	X X X X X X	X X X	9
36	3	6	36	X X X	X X X X X X	9
35	4	3	35	X X X X	X X X	7
34	1	2	34	X	X X	3
33	0	1	33		X	1
32	0	3	32		X X X	3
31	0	1	31		X	1
30	1	1	30	X	X	2
29	0	1	29		X	1
28	0	0	28			0
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Badillo Street

Between: Hollenbeck Avenue - 4th Avenue

Weather: Clear

Date: 1/13/16

Time From: 10:25

Time To: 10:55

Existing Speed Limit: 40 M. P. H.

% Over Pace:	9%
% In Pace:	80%
% Under Pace:	11%
Average Speed:	39 M.P.H.
Pace Speed:	35 - 44 M.P.H.
15th Percentile / Critical Speed:	34 MPH
50th Percentile / Critical Speed:	38 MPH
85th Percentile / Critical Speed:	42 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Eastbound								Westbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	0	0	51																			0
50	0	0	50																			0
49	0	0	49																			0
48	0	0	48																			0
47	0	0	47																			0
46	0	0	46																			0
45	0	0	45																			0
44	0	0	44																			0
43	0	1	43																			1
42	1	0	42	X																		1
41	1	0	41	X																		1
40	0	0	40																			0
39	1	0	39	X																		1
38	0	1	38																			1
37	0	1	37																			1
36	2	1	36	X	X																	3
35	3	2	35	X	X	X																5
34	1	3	34	X																		4
33	7	3	33	X	X	X	X	X	X													10
32	2	3	32	X	X																	5
31	8	6	31	X	X	X	X	X	X	X	X											14
30	6	7	30	X	X	X	X	X														13
29	5	1	29	X	X	X	X															6
28	7	8	28	X	X	X	X	X	X	X	X	X										15
27	5	4	27	X	X	X	X															9
26	0	2	26																			2
25	1	4	25	X																		5
24	0	2	24																			2
23	0	0	23																			0
22	0	1	22																			1
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: Badillo Street

Between: 4th Avenue - 2nd Avenue

Weather: Clear

Date: 3/9/16

Time From: 2:50

Time To: 3:30

Existing Speed Limit: 30 M. P. H.

% Over Pace:	<u>6%</u>
% In Pace:	<u>84%</u>
% Under Pace:	<u>10%</u>
Average Speed:	<u>31 M.P.H.</u>
Pace Speed:	<u>27 - 36 M.P.H.</u>
15th Percentile / Critical Speed:	<u>26 MPH</u>
50th Percentile / Critical Speed:	<u>29 MPH</u>
85th Percentile / Critical Speed:	<u>33 MPH</u>

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Eastbound								Westbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	1	54																X			1
53	0	0	53																			0
52	0	2	52																X	X		2
51	1	0	51	X																		1
50	1	1	50	X															X			2
49	0	2	49																X	X		2
48	3	3	48	X	X	X													X	X	X	6
47	1	4	47	X															X	X	X	5
46	2	1	46	X	X														X			3
45	5	3	45	X	X	X	X	X											X	X	X	8
44	2	5	44	X	X														X	X	X	7
43	5	6	43	X	X	X	X	X											X	X	X	11
42	6	2	42	X	X	X	X	X	X										X	X		8
41	5	2	41	X	X	X	X	X											X	X		7
40	3	3	40	X	X	X													X	X	X	6
39	3	4	39	X	X	X													X	X	X	7
38	3	4	38	X	X	X													X	X	X	7
37	3	4	37	X	X	X													X	X	X	7
36	6	0	36	X	X	X	X	X	X										X			6
35	1	1	35	X															X			2
34	0	0	34																			0
33	0	0	33																			0
32	0	0	32																			0
31	0	1	31																X			1
30	0	0	30																			0
29	0	0	29																			0
28	0	0	28																			0
27	0	0	27																			0
26	0	1	26																X			1
25	0	0	25																			0
24	0	0	24																			0
23	0	0	23																			0
22	0	0	22																			0
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: **Badillo Street**

Between: **2nd Avenue - Barranca Avenue**

Weather: **Clear**

Date: **1/13/16**

Time From: **9:45**

Time To: **10:00**

Existing Speed Limit: 40 M. P. H.

% Over Pace:	22%
% In Pace:	74%
% Under Pace:	4%
Average Speed:	42 M.P.H.
Pace Speed:	36 - 45 M.P.H.
15th Percentile / Critical Speed:	36 MPH
50th Percentile / Critical Speed:	41 MPH
85th Percentile / Critical Speed:	47 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Eastbound								Westbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	1	56								X										1
55	0	0	55																		0
54	0	0	54																		0
53	2	1	53	X	X						X										3
52	0	0	52																		0
51	0	1	51								X										1
50	2	0	50	X	X																2
49	2	3	49	X	X						X	X	X								5
48	4	5	48	X	X	X	X				X	X	X	X	X						9
47	1	6	47	X							X	X	X	X	X	X					7
46	3	4	46	X	X	X					X	X	X	X							7
45	2	2	45	X	X						X	X									4
44	4	2	44	X	X	X	X				X	X									6
43	3	9	43	X	X	X					X	X	X	X	X	X	X	X			12
42	3	5	42	X	X	X					X	X	X	X	X						8
41	5	5	41	X	X	X	X	X			X	X	X	X							10
40	2	1	40	X	X						X										3
39	3	2	39	X	X	X					X	X									5
38	6	0	38	X	X	X	X	X	X												6
37	2	1	37	X	X						X										3
36	5	1	36	X	X	X	X	X			X										6
35	0	0	35																		0
34	1	1	34	X							X										2
33	0	0	33																		0
32	0	0	32																		0
31	0	0	31																		0
30	0	0	30																		0
29	0	0	29																		0
28	0	0	28																		0
27	0	0	27																		0
26	0	0	26																		0
25	0	0	25																		0
24	0	0	24																		0
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: Badillo Street

Between: Barranca Avenue - Grand Avenue

Weather: Clear

Date: 1/13/16

Time From: 9:25

Time To: 9:45

Existing Speed Limit: 40 M. P. H.

% Over Pace: 7%

% In Pace: 71%

% Under Pace: 22%

Average Speed: 43 M.P.H.

Pace Speed: 40 - 49 M.P.H.

15th Percentile / Critical Speed: 37 MPH

50th Percentile / Critical Speed: 42 MPH

85th Percentile / Critical Speed: 47 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	1	55		X	1
54	0	0	54			0
53	0	1	53		X	1
52	2	3	52	X X	X X X	5
51	1	1	51	X	X	2
50	1	2	50	X	X X	3
49	1	3	49	X	X X X	4
48	2	3	48	X X	X X X	5
47	2	5	47	X X	X X X X X	7
46	5	1	46	X X X X X	X	6
45	7	3	45	X X X X X X X	X X X	10
44	6	7	44	X X X X X X	X X X X X X X	13
43	2	4	43	X X	X X X X	6
42	6	4	42	X X X X X X	X X X X	10
41	2	4	41	X X	X X X X	6
40	2	0	40	X X		2
39	1	1	39	X	X	2
38	3	3	38	X X X	X X X	6
37	2	2	37	X X	X X	4
36	1	0	36	X		1
35	1	1	35	X	X	2
34	1	0	34	X		1
33	0	0	33			0
32	2	0	32	X X		2
31	0	0	31			0
30	0	0	30			0
29	0	0	29			0
28	0	1	28		X	1
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: **Badillo Street**
 Between: **Grand Avenue - Glendora Avenue**
 Weather: **Clear**
 Date: **1/13/16**
 Time From: **9:05**
 Time To: **9:25**
 Existing Speed Limit: **45** M. P. H.

% Over Pace: _____ 9%
 % In Pace: _____ 70%
 % Under Pace: _____ 21%
 Average Speed: _____ 44 M.P.H.
 Pace Speed: _____ 41 - 50 M.P.H.

15th Percentile / Critical Speed:	37 MPH
50th Percentile / Critical Speed:	43 MPH
85th Percentile / Critical Speed:	48 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	1	54		X	1
53	1	2	53	X	X X	3
52	2	1	52	X X	X	3
51	0	5	51		X X X X X	5
50	0	3	50		X X X	3
49	3	1	49	X X X	X	4
48	2	6	48	X X X	X X X X X X	8
47	3	10	47	X X X	X X X X X X X X X X	13
46	2	3	46	X X	X X X	5
45	7	6	45	X X X X X X X	X X X X X X	13
44	2	0	44	X X		2
43	6	4	43	X X X X X X	X X X X	10
42	2	2	42	X X	X X	4
41	6	1	41	X X X X X X	X	7
40	2	1	40	X X	X	3
39	3	1	39	X X X	X	4
38	3	2	38	X X X	X X	5
37	3	0	37	X X X		3
36	1	1	36	X	X	2
35	1	0	35	X		1
34	1	0	34	X		1
33	0	0	33			0
32	0	0	32			0
31	0	0	31			0
30	0	0	30			0
29	0	0	29			0
28	0	0	28			0
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS	100	

Location: Badillo Street

Between: Glendora Avenue - Reeder Avenue

Weather: Clear

Date: 1/13/16

Time From: 1:20

Time To: 1:50

*
*
* Existing Speed Limit: 45 M. P. H.

% Over Pace: _____ 12%

% In Pace: _____ 69%

% Under Pace: _____ 19%

Average Speed: _____ 45 M.P.H.

Pace Speed: _____ 41 - 50 M.P.H.

15th Percentile / Critical Speed:	38 MPH
50th Percentile / Critical Speed:	44 MPH
85th Percentile / Critical Speed:	49 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92880

T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	1	56		X	1
55	0	2	55		X X	2
54	0	0	54			0
53	0	2	53		X X	2
52	0	1	52		X	1
51	3	0	51	X X X		3
50	1	4	50	X	X X X X	5
49	2	3	49	X X	X X X	5
48	3	7	48	X X X	X X X X X X X	10
47	2	8	47	X X	X X X X X X X X	10
46	4	2	46	X X X X	X X	6
45	3	3	45	X X X	X X X	6
44	3	4	44	X X X	X X X X	7
43	5	6	43	X X X X X	X X X X X X X	11
42	4	2	42	X X X X	X X	6
41	7	1	41	X X X X X X X	X	8
40	2	2	40	X X	X X	4
39	3	1	39	X X X	X	4
38	4	1	38	X X X X	X	5
37	2	0	37	X X		2
36	1	0	36	X		1
35	0	0	35			0
34	1	0	34	X		1
33	0	0	33			0
32	0	0	32			0
31	0	0	31			0
30	0	0	30			0
29	0	0	29			0
28	0	0	28			0
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS	100	

Location: **Badillo Street**
 Between: **Reeder Avenue - East City Limits**
 Weather: **Clear**
 Date: **1/13/16**
 Time From: **1:50**
 Time To: **2:10**
 Existing Speed Limit: **45** M. P. H.

% Over Pace: _____ 9%
 % In Pace: _____ 74%
 % Under Pace: _____ 17%
 Average Speed: _____ 45 M.P.H.
 Pace Speed: _____ 41 - 50 M.P.H.

15th Percentile / Critical Speed:	39 MPH
50th Percentile / Critical Speed:	44 MPH
85th Percentile / Critical Speed:	48 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	1	50		X	1
49	0	0	49			0
48	1	1	48	X	X	2
47	0	0	47			0
46	0	0	46			0
45	1	0	45	X		1
44	2	2	44	X X	X X	4
43	1	2	43	X	X X	3
42	0	3	42		X X X	3
41	2	6	41	X X	X X X X X X	8
40	2	5	40	X X	X X X X X	7
39	5	5	39	X X X X X	X X X X X	10
38	5	7	38	X X X X X	X X X X X X X	12
37	8	5	37	X X X X X X X X	X X X X X	13
36	7	4	36	X X X X X X X	X X X X	11
35	6	4	35	X X X X X X	X X X X	10
34	6	4	34	X X X X X X	X X X X	10
33	2	1	33	X X	X	3
32	0	0	32			0
31	0	0	31			0
30	0	0	30			0
29	2	0	29	X X		2
28	0	0	28			0
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Barranca Avenue

Between: South City Limits - Puente Street

Weather: Clear

Date: 1/14/16

Time From: 10:15

Time To: 10:35

Existing Speed Limit: 40 M. P. H.

P A C E	% Over Pace:	8%
	% In Pace:	87%
	% Under Pace:	5%
	Average Speed:	38 M.P.H.
Pace Speed:		34 - 43 M.P.H.
15th Percentile / Critical Speed:		33 MPH
50th Percentile / Critical Speed:		37 MPH
85th Percentile / Critical Speed:		41 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	1	0	48	X		1
47	0	0	47			0
46	1	0	46	X		1
45	1	5	45	X	X X X X X	6
44	0	3	44		X X X	3
43	3	2	43	X X X	X X	5
42	2	1	42	X X	X	3
41	2	6	41	X X	X X X X X X	8
40	5	4	40	X X X X X	X X X X	9
39	4	9	39	X X X X	X X X X X X X X X	13
38	4	9	38	X X X X	X X X X X X X X X	13
37	9	5	37	X X X X X X X X X X	X X X X X	14
36	7	2	36	X X X X X X X	X X	9
35	4	1	35	X X X X	X	5
34	2	2	34	X X	X X	4
33	1	0	33	X		1
32	1	1	32	X	X	2
31	2	0	31	X X		2
30	0	0	30			0
29	1	0	29	X		1
28	0	0	28			0
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Barranca Avenue
 Between: Puente Street - San Bernardino Road
 Weather: Clear
 Date: 1/14/16
 Time From: 9:45
 Time To: 10:15
 Existing Speed Limit: 35 M. P. H.

% Over Pace: 2%
 % In Pace: 83%
 % Under Pace: 15%
 Average Speed: 39 M.P.H.
 Pace Speed: 36 - 45 M.P.H.

15th Percentile / Critical Speed:	34 MPH
50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	42 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Northbound								Southbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	1	49																	X	1
48	0	0	48																		0
47	2	3	47	X	X							X	X	X							5
46	0	1	46																	X	1
45	0	0	45																		0
44	3	6	44	X	X	X						X	X	X	X	X	X				9
43	1	3	43	X								X	X	X							4
42	0	3	42									X	X	X							3
41	1	3	41	X								X	X	X							4
40	7	1	40	X	X	X	X	X	X	X		X									8
39	5	3	39	X	X	X	X	X				X	X	X							8
38	2	4	38	X	X							X	X	X							6
37	8	8	37	X	X	X	X	X	X	X	X	X	X	X	X	X	X				16
36	7	2	36	X	X	X	X	X	X	X		X	X								9
35	5	3	35	X	X	X	X	X				X	X	X							8
34	3	3	34	X	X	X						X	X	X							6
33	1	1	33	X								X									2
32	2	1	32	X	X							X									3
31	1	3	31	X								X	X	X							4
30	1	1	30	X								X									2
29	0	0	29																		0
28	0	0	28																		0
27	1	0	27	X																	1
26	0	0	26																		0
25	0	0	25																		0
24	0	0	24																		0
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: Barranca Avenue

Between: San Bernardino Road - Covina Boulevard

Weather: Clear

Date: 1/14/16

Time From: 9:25

Time To: 9:45

Existing Speed Limit: 35 M. P. H.

% Over Pace:	<u>7%</u>
% In Pace:	<u>75%</u>
% Under Pace:	<u>18%</u>
Average Speed:	<u>38 M.P.H.</u>
Pace Speed:	<u>35 - 44 M.P.H.</u>
15th Percentile / Critical Speed:	<u>33 MPH</u>
50th Percentile / Critical Speed:	<u>36 MPH</u>
85th Percentile / Critical Speed:	<u>43 MPH</u>

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	1	48		X	1
47	0	0	47			0
46	2	0	46	X X		2
45	1	4	45	X	X X X X	5
44	1	4	44	X	X X X X	5
43	1	1	43	X	X	2
42	6	5	42	X X X X X X	X X X X X	11
41	7	5	41	X X X X X X X	X X X X X	12
40	4	6	40	X X X X	X X X X X X	10
39	5	9	39	X X X X X	X X X X X X X X X	14
38	9	5	38	X X X X X X X X X	X X X X X	14
37	8	5	37	X X X X X X X X X	X X X X X	13
36	2	1	36	X X	X	3
35	3	2	35	X X X	X X	5
34	0	2	34		X X	2
33	0	0	33			0
32	1	0	32	X		1
31	0	0	31			0
30	0	0	30			0
29	0	0	29			0
28	0	0	28			0
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Barranca Avenue
 Between: Covina Boulevard - North City Limits
 Weather: Clear
 Date: 1/14/16
 Time From: 9:00
 Time To: 9:25
 Existing Speed Limit: 40 M. P. H.

% Over Pace: 3%
 % In Pace: 89%
 % Under Pace: 8%
 Average Speed: 40 M.P.H.
 Pace Speed: 36 - 45 M.P.H.

15th Percentile / Critical Speed:	36 MPH
50th Percentile / Critical Speed:	38 MPH
85th Percentile / Critical Speed:	42 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Eastbound								Westbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	1	49														X				1
48	0	0	48																		0
47	0	2	47														X	X			2
46	0	3	46														X	X	X		3
45	0	2	45														X	X			2
44	2	4	44	X	X												X	X	X	X	6
43	1	3	43	X													X	X	X		4
42	1	4	42	X													X	X	X	X	5
41	4	4	41	X	X	X	X										X	X	X	X	8
40	4	5	40	X	X	X	X										X	X	X	X	9
39	7	3	39	X	X	X	X	X	X								X	X	X		10
38	5	5	38	X	X	X	X	X									X	X	X	X	10
37	5	1	37	X	X	X	X	X									X				6
36	1	5	36	X													X	X	X	X	6
35	5	3	35	X	X	X	X	X									X	X	X		8
34	1	0	34	X																	1
33	4	2	33	X	X	X	X										X	X			6
32	2	2	32	X	X												X	X			4
31	2	1	31	X	X												X				3
30	3	0	30	X	X	X															3
29	1	0	29	X																	1
28	1	0	28	X																	1
27	0	0	27																		0
26	1	0	26	X																	1
25	0	0	25																		0
24	0	0	24																		0
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: **Cienega Avenue**

Between: **Arroway Avenue - Ivescrest Avenue**

Weather: **Clear**

Date: **1/21/16**

Time From: **9:05**

Time To: **9:20**

Existing Speed Limit: 35 M. P. H.

% Over Pace:	8%
% In Pace:	72%
% Under Pace:	20%
Average Speed:	38 M.P.H.
Pace Speed:	35 - 44 M.P.H.
15th Percentile / Critical Speed:	32 MPH
50th Percentile / Critical Speed:	38 MPH
85th Percentile / Critical Speed:	43 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Northbound								Southbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	0	0	51																			0
50	0	0	50																			0
49	0	0	49																			0
48	0	0	48																			0
47	0	0	47																			0
46	0	0	46																			0
45	0	0	45																			0
44	0	0	44																			0
43	0	0	43																			0
42	1	0	42	X																		1
41	0	0	41																			0
40	2	0	40	X	X																	2
39	0	0	39																			0
38	0	1	38																		X	1
37	7	1	37	X	X	X	X	X	X	X											X	8
36	5	3	36	X	X	X	X	X													X	8
35	4	3	35	X	X	X	X														X	7
34	5	5	34	X	X	X	X	X													X	10
33	5	5	33	X	X	X	X	X													X	10
32	6	7	32	X	X	X	X	X	X												X	13
31	5	0	31	X	X	X	X	X													X	5
30	2	5	30	X	X																X	7
29	3	6	29	X	X	X															X	9
28	2	5	28	X	X																X	7
27	0	4	27																		X	4
26	2	3	26	X	X																X	5
25	0	1	25																		X	1
24	1	0	24	X																		1
23	0	0	23																			0
22	0	1	22																		X	1
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: Citrus Avenue
Between: Workman Avenue - Rowland Avenue
Weather: Clear
Date: 1/14/16
Time From: 10:35
Time To: 10:50
Existing Speed Limit: 40 M. P. H.

% Over Pace:	4%
% In Pace:	84%
% Under Pace:	12%
Average Speed:	32 M.P.H.
Pace Speed:	28 - 37 M.P.H.
15th Percentile / Critical Speed:	27 MPH
50th Percentile / Critical Speed:	31 MPH
85th Percentile / Critical Speed:	35 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.
				Northbound								Southbound								
65	0	0	65																0	
64	0	0	64																0	
63	0	0	63																0	
62	0	0	62																0	
61	0	0	61																0	
60	0	0	60																0	
59	0	0	59																0	
58	0	0	58																0	
57	0	0	57																0	
56	0	0	56																0	
55	0	0	55																0	
54	0	0	54																0	
53	0	0	53																0	
52	0	0	52																0	
51	0	0	51																0	
50	0	0	50																0	
49	0	0	49																0	
48	0	0	48																0	
47	0	0	47																0	
46	1	0	46	X															1	
45	0	1	45							X									1	
44	1	1	44	X						X									2	
43	0	1	43							X									1	
42	1	2	42	X						X	X								3	
41	3	1	41	X	X	X				X									4	
40	1	1	40	X						X									2	
39	5	0	39	X	X	X	X	X											5	
38	6	4	38	X	X	X	X	X	X	X	X	X							10	
37	8	5	37	X	X	X	X	X	X	X	X	X	X						13	
36	4	2	36	X	X	X	X			X	X								6	
35	6	7	35	X	X	X	X	X	X	X	X	X	X	X					13	
34	4	8	34	X	X	X	X			X	X	X	X	X	X	X			12	
33	3	4	33	X	X	X				X	X	X							7	
32	2	3	32	X	X					X	X	X							5	
31	3	3	31	X	X	X				X	X	X							6	
30	0	1	30							X									1	
29	0	1	29							X									1	
28	1	3	28	X						X	X	X							4	
27	1	1	27	X						X									2	
26	0	1	26							X									1	
25	0	0	25																0	
24	0	0	24																0	
23	0	0	23																0	
22	0	0	22																0	
21	0	0	21																0	
20	0	0	20																0	
19	0	0	19																0	
18	0	0	18																0	
17	0	0	17																0	
16	0	0	16																0	
15	0	0	15																0	
				GRAND TOTALS																100

Location:	Citrus Avenue
Between:	Rowland Avenue - Puente Street
Weather:	Clear
Date:	1/14/16
Time From:	10:50
Time To:	11:10
Existing Speed Limit:	<u>40</u> M. P. H.

* % Over Pace:	12%
* % In Pace:	79%
* % Under Pace:	9%
Average Speed:	36 M.P.H.
* Pace Speed:	31 - 40 M.P.H.
15th Percentile / Critical Speed:	31 MPH
50th Percentile / Critical Speed:	34 MPH
85th Percentile / Critical Speed:	38 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.
				Northbound								Southbound								
65	0	0	65																0	
64	0	0	64																0	
63	0	0	63																0	
62	0	0	62																0	
61	0	0	61																0	
60	0	0	60																0	
59	0	0	59																0	
58	0	0	58																0	
57	0	0	57																0	
56	0	0	56																0	
55	0	0	55																0	
54	0	0	54																0	
53	0	0	53																0	
52	0	0	52																0	
51	0	0	51																0	
50	0	0	50																0	
49	0	0	49																0	
48	0	0	48																0	
47	0	0	47																0	
46	0	0	46																0	
45	0	0	45																0	
44	0	0	44																0	
43	0	0	43																0	
42	0	0	42																0	
41	0	0	41																0	
40	1	1	40	X						X									2	
39	0	0	39																0	
38	1	0	38	X															1	
37	2	0	37	X	X														2	
36	1	2	36	X						X	X								3	
35	2	2	35	X	X					X	X								4	
34	6	2	34	X	X	X	X	X	X	X	X								8	
33	6	3	33	X	X	X	X	X	X	X	X								9	
32	7	4	32	X	X	X	X	X	X	X	X	X							11	
31	6	5	31	X	X	X	X	X	X	X	X	X							11	
30	4	6	30	X	X	X	X			X	X	X	X	X					10	
29	6	6	29	X	X	X	X	X	X	X	X	X	X						12	
28	7	9	28	X	X	X	X	X	X	X	X	X	X	X	X				16	
27	1	5	27	X						X	X	X	X						6	
26	0	4	26							X	X	X	X						4	
25	0	0	25																0	
24	0	0	24																0	
23	0	0	23																0	
22	0	1	22							X									1	
21	0	0	21																0	
20	0	0	20																0	
19	0	0	19																0	
18	0	0	18																0	
17	0	0	17																0	
16	0	0	16																0	
15	0	0	15																0	
				GRAND TOTALS																100

Location: Citrus Avenue

Between: Puente Street - Badillo Street

Weather: Clear

Date: 1/14/16

Time From: 11:10

Time To: 11:30

Existing Speed Limit: 35 M. P. H.

% Over Pace:	8%
% In Pace:	91%
% Under Pace:	1%
Average Speed:	31 M.P.H.
Pace Speed:	26 - 35 M.P.H.
15th Percentile / Critical Speed:	27 MPH
50th Percentile / Critical Speed:	30 MPH
85th Percentile / Critical Speed:	33 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Northbound								Southbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	0	0	51																			0
50	0	0	50																			0
49	0	0	49																			0
48	0	0	48																			0
47	0	0	47																			0
46	0	0	46																			0
45	0	0	45																			0
44	0	0	44																			0
43	0	0	43																			0
42	0	0	42																			0
41	0	0	41																			0
40	0	0	40																			0
39	0	0	39																			0
38	0	0	38																			0
37	0	0	37																			0
36	0	0	36																			0
35	0	0	35																			0
34	0	0	34																			0
33	0	0	33																			0
32	0	3	32								X	X	X									3
31	0	0	31																			0
30	0	2	30								X	X										2
29	2	3	29	X	X						X	X	X									5
28	3	3	28	X	X	X					X	X	X									6
27	1	8	27	X							X	X	X	X	X	X	X					9
26	5	3	26	X	X	X	X				X	X	X									8
25	4	8	25	X	X	X	X				X	X	X	X	X	X	X					12
24	8	9	24	X	X	X	X	X	X		X	X	X	X	X	X	X					17
23	8	6	23	X	X	X	X	X	X	X	X	X	X	X	X							14
22	5	2	22	X	X	X	X				X	X										7
21	5	2	21	X	X	X	X				X	X										7
20	7	0	20	X	X	X	X	X	X													7
19	0	1	19								X											1
18	1	0	18	X																		1
17	0	0	17																			0
16	1	0	16	X																		1
15	0	0	15																			0
				GRAND TOTALS																100		

Location: Citrus Avenue

Between: Badillo Street - San Bernardino Road

Weather: Clear

Date: 1/14/16

Time From: 11:30

Time To: 11:55

Existing Speed Limit: 25 M. P. H.

% Over Pace:	5%
% In Pace:	92%
% Under Pace:	3%
Average Speed:	24 M.P.H.
Pace Speed:	20 - 29 M.P.H.
15th Percentile / Critical Speed:	20 MPH
50th Percentile / Critical Speed:	23 MPH
85th Percentile / Critical Speed:	27 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Northbound								Southbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	0	49																		0
48	1	0	48	X																	1
47	0	0	47																		0
46	0	0	46																		0
45	1	0	45	X																	1
44	1	0	44	X																	1
43	3	2	43	X	X	X				X	X										5
42	6	1	42	X	X	X	X	X		X											7
41	6	3	41	X	X	X	X	X		X	X	X									9
40	5	7	40	X	X	X	X	X		X	X	X	X	X	X						12
39	6	1	39	X	X	X	X	X		X											7
38	5	3	38	X	X	X	X			X	X	X									8
37	4	7	37	X	X	X	X			X	X	X	X	X	X						11
36	5	5	36	X	X	X	X	X		X	X	X	X								10
35	1	7	35	X						X	X	X	X	X	X						8
34	1	4	34	X						X	X	X	X								5
33	2	4	33	X	X					X	X	X	X								6
32	1	3	32	X						X	X	X									4
31	1	2	31	X						X	X										3
30	0	1	30							X											1
29	0	0	29																		0
28	0	0	28																		0
27	1	0	27	X																	1
26	0	0	26																		0
25	0	0	25																		0
24	0	0	24																		0
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: Citrus Avenue
 Between: San Bernardino Road - Covina Boulevard
 Weather: Clear
 Date: 1/14/16
 Time From: 11:55
 Time To: 12:20
 Existing Speed Limit: 35 M. P. H.

% Over Pace:	8%
% In Pace:	83%
% Under Pace:	9%
Average Speed:	38 M.P.H.
Pace Speed:	33 - 42 M.P.H.
15th Percentile / Critical Speed:	33 MPH
50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	41 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Northbound								Southbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	2	49									X	X								2
48	0	2	48									X	X								2
47	0	4	47									X	X	X	X						4
46	2	5	46	X	X							X	X	X	X	X					7
45	2	2	45	X	X							X	X								4
44	3	5	44	X	X	X						X	X	X	X	X					8
43	3	8	43	X	X	X						X	X	X	X	X	X	X			11
42	6	8	42	X	X	X	X	X				X	X	X	X	X	X	X			14
41	3	2	41	X	X	X						X	X								5
40	6	6	40	X	X	X	X	X	X			X	X	X	X	X	X				12
39	5	2	39	X	X	X	X	X				X	X								7
38	7	2	38	X	X	X	X	X	X	X		X	X								9
37	6	1	37	X	X	X	X	X	X			X									7
36	2	1	36	X	X							X									3
35	4	0	35	X	X	X	X														4
34	1	0	34	X																	1
33	0	0	33																		0
32	0	0	32																		0
31	0	0	31																		0
30	0	0	30																		0
29	0	0	29																		0
28	0	0	28																		0
27	0	0	27																		0
26	0	0	26																		0
25	0	0	25																		0
24	0	0	24																		0
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: Citrus Avenue
 Between: Covina Boulevard - Arrow Highway
 Weather: Clear
 Date: 1/14/16
 Time From: 12:20
 Time To: 12:50
 Existing Speed Limit: 40 M. P. H.

% Over Pace:	8%
% In Pace:	84%
% Under Pace:	8%
Average Speed:	41 M.P.H.
Pace Speed:	37 - 46 M.P.H.
15th Percentile / Critical Speed:	36 MPH
50th Percentile / Critical Speed:	41 MPH
85th Percentile / Critical Speed:	45 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	1	0	47	X		1
46	2	0	46	X X		2
45	0	0	45			0
44	0	0	44			0
43	5	1	43	X X X X X	X	6
42	5	1	42	X X X X X	X	6
41	4	3	41	X X X X	X X X	7
40	5	0	40	X X X X X		5
39	8	3	39	X X X X X X X X	X X X	11
38	8	6	38	X X X X X X X X	X X X X X X	14
37	3	5	37	X X X	X X X X X	8
36	4	11	36	X X X X	X X X X X X X X X X	15
35	3	11	35	X X X	X X X X X X X X X X	14
34	1	4	34	X	X X X X	5
33	0	1	33		X	1
32	0	2	32		X X	2
31	0	0	31			0
30	1	1	30	X	X	2
29	0	0	29			0
28	0	0	28			0
27	0	1	27		X	1
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Covina Boulevard

Between: Fircroft Avenue - Citrus Avenue

Weather: Clear

Date: 1/14/16

Time From: 12:50

Time To: 1:20

Existing Speed Limit: 40 M. P. H.

P A C E * * * * *	% Over Pace:	3%
	% In Pace:	91%
	% Under Pace:	6%
	Average Speed:	38 M.P.H.
	Pace Speed:	34 - 43 M.P.H.
	15th Percentile / Critical Speed:	34 MPH
	50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	41 MPH	

Radar Survey Conducted By:
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	2	46		X X	2
45	2	1	45	X X	X	3
44	2	1	44	X X	X	3
43	4	1	43	X X X X	X	5
42	3	1	42	X X X	X	4
41	5	4	41	X X X X X	X X X X	9
40	3	7	40	X X X	X X X X X X X	10
39	5	7	39	X X X X X	X X X X X X X	12
38	7	6	38	X X X X X X X	X X X X X X	13
37	2	5	37	X X	X X X X X	7
36	3	6	36	X X X	X X X X X X	9
35	3	2	35	X X X	X X	5
34	3	3	34	X X X	X X X	6
33	3	1	33	X X X	X	4
32	3	1	32	X X X	X	4
31	1	2	31	X	X X	3
30	0	0	30			0
29	0	0	29			0
28	1	0	28	X		1
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Covina Boulevard

Between: Citrus Avenue - Grand Avenue

Weather: Clear

Date: 1/14/16

Time From: 1:25

Time To: 1:50

Existing Speed Limit: 40 M. P. H.

P A C E	% Over Pace:	8%
	% In Pace:	80%
	% Under Pace:	12%
	Average Speed:	38 M.P.H.
	Pace Speed:	34 - 43 M.P.H.
	15th Percentile / Critical Speed:	33 MPH
	50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	41 MPH	

Radar Survey Conducted By:
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Eastbound								Westbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	0	0	51																			0
50	1	0	50	X																		1
49	1	1	49	X						X												2
48	2	0	48	X	X																	2
47	1	0	47	X																		1
46	1	0	46	X																		1
45	0	1	45							X												1
44	4	2	44	X	X	X	X			X	X											6
43	2	6	43	X	X					X	X	X	X	X	X							8
42	2	3	42	X	X					X	X	X										5
41	5	2	41	X	X	X	X	X		X	X											7
40	7	7	40	X	X	X	X	X	X	X	X	X	X	X	X							14
39	0	6	39							X	X	X	X	X								6
38	8	6	38	X	X	X	X	X	X	X	X	X	X	X								14
37	4	1	37	X	X	X	X			X	X	X	X									5
36	6	6	36	X	X	X	X	X		X	X	X	X	X								12
35	1	2	35	X						X	X											3
34	0	2	34							X	X											2
33	1	1	33	X						X												2
32	2	2	32	X	X					X	X											4
31	1	1	31	X						X												2
30	0	1	30							X												1
29	1	0	29	X																		1
28	0	0	28																			0
27	0	0	27																			0
26	0	0	26																			0
25	0	0	25																			0
24	0	0	24																			0
23	0	0	23																			0
22	0	0	22																			0
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: Covina Boulevard

Between: Grand Avenue - Rimhurst Avenue

Weather: Clear

Date: 1/14/16

Time From: 1:50

Time To: 2:30

Existing Speed Limit: 35 M. P. H.

% Over Pace:	8%
% In Pace:	80%
% Under Pace:	12%
Average Speed:	39 M.P.H.
Pace Speed:	35 - 44 M.P.H.
15th Percentile / Critical Speed:	34 MPH
50th Percentile / Critical Speed:	38 MPH
85th Percentile / Critical Speed:	43 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Eastbound								Westbound									VEH.	
65	0	0	65																		0	
64	0	0	64																		0	
63	0	0	63																		0	
62	0	0	62																		0	
61	0	0	61																		0	
60	0	0	60																		0	
59	0	0	59																		0	
58	0	0	58																		0	
57	0	0	57																		0	
56	0	0	56																		0	
55	0	0	55																		0	
54	0	0	54																		0	
53	0	0	53																		0	
52	0	0	52																		0	
51	0	0	51																		0	
50	1	1	50	X												X					2	
49	0	0	49																		0	
48	0	0	48																		0	
47	0	1	47													X					1	
46	1	1	46	X												X					2	
45	3	4	45	X	X	X										X	X	X	X		7	
44	4	8	44	X	X	X	X									X	X	X	X	X	X	12
43	7	2	43	X	X	X	X	X	X							X	X					9
42	6	5	42	X	X	X	X	X	X							X	X	X	X			11
41	6	6	41	X	X	X	X	X	X							X	X	X	X	X		12
40	5	5	40	X	X	X	X	X								X	X	X	X			10
39	3	3	39	X	X	X										X	X	X				6
38	5	1	38	X	X	X	X	X								X						6
37	5	1	37	X	X	X	X	X								X						6
36	2	2	36	X	X											X	X					4
35	1	4	35	X												X	X	X	X			5
34	0	2	34													X	X					2
33	1	1	33	X												X						2
32	0	2	32													X	X					2
31	0	0	31																			0
30	0	1	30													X						1
29	0	0	29																			0
28	0	0	28																			0
27	0	0	27																			0
26	0	0	26																			0
25	0	0	25																			0
24	0	0	24																			0
23	0	0	23																			0
22	0	0	22																			0
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: Covina Boulevard

Between: Bonnie Cove Avenue - Sunflower Avenue

Weather: Clear

Date: 1/14/16

Time From: 2:30

Time To: 3:05

Existing Speed Limit: 40 M. P. H.

% Over Pace:	5%
% In Pace:	83%
% Under Pace:	12%
Average Speed:	41 M.P.H.
Pace Speed:	36 - 45 M.P.H.
15th Percentile / Critical Speed:	35 MPH
50th Percentile / Critical Speed:	40 MPH
85th Percentile / Critical Speed:	43 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.
				Eastbound								Westbound								
65	0	0	65																	0
64	0	0	64																	0
63	0	0	63																	0
62	0	0	62																	0
61	0	0	61																	0
60	0	0	60																	0
59	0	0	59																	0
58	0	0	58																	0
57	0	0	57																	0
56	0	0	56																	0
55	0	0	55																	0
54	0	0	54																	0
53	0	0	53																	0
52	0	0	52																	0
51	0	0	51																	0
50	0	0	50																	0
49	0	0	49																	0
48	0	0	48																	0
47	0	0	47																	0
46	0	0	46																	0
45	0	0	45																	0
44	0	0	44																	0
43	0	0	43																	0
42	0	0	42																	0
41	0	0	41																	0
40	1	0	40	X																1
39	0	1	39							X										1
38	1	0	38	X																1
37	3	4	37	X	X	X				X	X	X	X							7
36	2	2	36	X	X					X	X									4
35	5	7	35	X	X	X	X	X		X	X	X	X	X	X	X				12
34	6	3	34	X	X	X	X	X	X	X	X									9
33	3	4	33	X	X	X				X	X	X								7
32	4	6	32	X	X	X	X			X	X	X	X	X						10
31	2	3	31	X	X					X	X	X								5
30	4	2	30	X	X	X	X			X	X									6
29	5	8	29	X	X	X	X	X		X	X	X	X	X	X	X				13
28	3	4	28	X	X	X				X	X	X								7
27	4	3	27	X	X	X	X			X	X	X								7
26	1	1	26	X						X										2
25	5	0	25	X	X	X	X	X												5
24	0	1	24							X										1
23	0	0	23																	0
22	0	1	22							X										1
21	0	0	21																	0
20	1	0	20	X																1
19	0	0	19																	0
18	0	0	18																	0
17	0	0	17																	0
16	0	0	16																	0
15	0	0	15																	0
				GRAND TOTALS																100

Location: Covina Hills Road

Between: Grand Avenue - Rancho La Carlota Road

Weather: Clear

Date: 3/9/16

Time From: 2:00

Time To: 2:45

Existing Speed Limit: 35 M. P. H.

% Over Pace:	3%
% In Pace:	80%
% Under Pace:	17%
Average Speed:	31 M.P.H.
Pace Speed:	28 - 37 M.P.H.
15th Percentile / Critical Speed:	26 MPH
50th Percentile / Critical Speed:	31 MPH
85th Percentile / Critical Speed:	35 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	1	1	46	X	X	2
45	2	1	45	X X	X	3
44	2	0	44	X X		2
43	2	1	43	X X	X	3
42	0	4	42		X X X X	4
41	2	6	41	X X	X X X X X X	8
40	4	3	40	X X X X	X X X	7
39	2	6	39	X X	X X X X X X	8
38	4	5	38	X X X X	X X X X X	9
37	6	9	37	X X X X X X X	X X X X X X X X X X	15
36	4	7	36	X X X X	X X X X X X X	11
35	3	3	35	X X X	X X X	6
34	2	0	34	X X		2
33	3	1	33	X X X	X	4
32	4	1	32	X X X X	X	5
31	5	1	31	X X X X X	X	6
30	0	0	30			0
29	2	0	29	X X		2
28	0	1	28		X	1
27	2	0	27	X X		2
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Cypress Street

Between: Leaf Avenue - Hollenbeck Avenue

Weather: Clear

Date: 1/21/16

Time From: 12:20

Time To: 12:35

Existing Speed Limit: 40 M. P. H.

* % Over Pace:	14%
* % In Pace:	75%
* % Under Pace:	11%
* Average Speed:	37 M.P.H.
* Pace Speed:	32 - 41 M.P.H.
15th Percentile / Critical Speed:	31 MPH
50th Percentile / Critical Speed:	36 MPH
85th Percentile / Critical Speed:	41 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Eastbound								Westbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	1	0	51	X																		1
50	0	0	50																			0
49	1	1	49	X						X												2
48	0	0	48																			0
47	0	0	47																			0
46	0	0	46																			0
45	0	0	45																			0
44	1	1	44	X						X												2
43	1	0	43	X																		1
42	2	2	42	X	X					X	X											4
41	4	5	41	X	X	X	X			X	X	X	X									9
40	3	8	40	X	X	X				X	X	X	X	X	X	X						11
39	4	7	39	X	X	X	X			X	X	X	X	X	X							11
38	7	4	38	X	X	X	X	X	X	X	X	X										11
37	6	6	37	X	X	X	X	X	X	X	X	X	X									12
36	6	3	36	X	X	X	X	X	X	X	X											9
35	5	3	35	X	X	X	X	X		X	X	X										8
34	2	4	34	X	X					X	X	X	X									6
33	1	2	33	X						X	X											3
32	2	1	32	X	X					X												3
31	1	1	31	X						X												2
30	0	0	30																			0
29	2	2	29	X	X					X	X											4
28	0	0	28																			0
27	1	0	27	X																		1
26	0	0	26																			0
25	0	0	25																			0
24	0	0	24																			0
23	0	0	23																			0
22	0	0	22																			0
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: Cypress Street

Between: Hollenbeck Avenue - Citrus Avenue

Weather: Clear

Date: 1/21/16

Time From: 12:00

Time To: 12:15

Existing Speed Limit: 40 M. P. H.

% Over Pace:	6%
% In Pace:	84%
% Under Pace:	10%
Average Speed:	38 M.P.H.
Pace Speed:	33 - 42 M.P.H.
15th Percentile / Critical Speed:	33 MPH
50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	40 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Eastbound								Westbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	0	0	51																			0
50	0	1	50																		X	1
49	0	2	49																		X X	2
48	0	1	48																		X	1
47	0	2	47																		X X	2
46	0	1	46																		X	1
45	0	1	45																		X	1
44	3	2	44	X	X	X															X X	5
43	1	2	43	X																	X X	3
42	4	4	42	X	X	X	X														X X X X	8
41	2	2	41	X	X																X X	4
40	2	4	40	X	X																X X X X	6
39	4	4	39	X	X	X	X														X X X X	8
38	7	7	38	X	X	X	X	X	X												X X X X X X X	14
37	6	0	37	X	X	X	X	X	X												X X X X X	6
36	6	3	36	X	X	X	X	X	X												X X X	9
35	5	4	35	X	X	X	X	X													X X X X	9
34	2	4	34	X	X																X X X X	6
33	1	2	33	X																	X X	3
32	4	3	32	X	X	X	X														X X X	7
31	0	1	31																		X	1
30	1	0	30	X																		1
29	1	0	29	X																		1
28	1	0	28	X																		1
27	0	0	27																			0
26	0	0	26																			0
25	0	0	25																			0
24	0	0	24																			0
23	0	0	23																			0
22	0	0	22																			0
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: **Cypress Street**

Between: **Citrus Avenue - Barranca Avenue**

Weather: **Clear**

Date: **1/21/16**

Time From: **11:40**

Time To: **12:00**

Existing Speed Limit: 35 M. P. H.

P A C E	% Over Pace:	13%
	% In Pace:	73%
	% Under Pace:	14%
	Average Speed:	38 M.P.H.
	Pace Speed:	34 - 43 M.P.H.
	15th Percentile / Critical Speed:	33 MPH
	50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	42 MPH	

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Eastbound								Westbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	1	0	53	X																	1
52	0	0	52																		0
51	0	0	51																		0
50	0	2	50							X	X										2
49	1	1	49	X						X											2
48	1	1	48	X						X											2
47	6	2	47	X	X	X	X	X	X	X	X										8
46	0	1	46																		1
45	4	1	45	X	X	X	X			X											5
44	2	5	44	X	X					X	X	X	X	X							7
43	2	6	43	X	X					X	X	X	X	X	X						8
42	4	8	42	X	X	X	X			X	X	X	X	X	X	X	X				12
41	3	5	41	X	X	X				X	X	X	X	X							8
40	5	4	40	X	X	X	X	X		X	X	X	X								9
39	3	2	39	X	X	X				X	X										5
38	3	5	38	X	X	X				X	X	X	X								8
37	4	4	37	X	X	X	X			X	X	X	X								8
36	3	2	36	X	X	X				X	X										5
35	2	1	35	X	X					X											3
34	3	0	34	X	X	X															3
33	0	0	33																		0
32	1	0	32	X																	1
31	1	0	31	X																	1
30	0	0	30																		0
29	1	0	29	X																	1
28	0	0	28																		0
27	0	0	27																		0
26	0	0	26																		0
25	0	0	25																		0
24	0	0	24																		0
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: **Cypress Street**
 Between: **Barranca Avenue - Grand Avenue**
 Weather: **Clear**
 Date: **1/21/16**
 Time From: **11:20**
 Time To: **11:35**
 Existing Speed Limit: 40 M. P. H.

% Over Pace: _____ 16%
 % In Pace: _____ 75%
 % Under Pace: _____ 9%
 Average Speed: _____ 41 M.P.H.
 Pace Speed: _____ 36 - 45 M.P.H.

15th Percentile / Critical Speed:	36 MPH
50th Percentile / Critical Speed:	40 MPH
85th Percentile / Critical Speed:	46 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	1	48		X	1
47	0	0	47			0
46	1	0	46	X		1
45	1	3	45	X	X X X	4
44	2	3	44	X X	X X X	5
43	3	7	43	X X X	X X X X X X X	10
42	7	2	42	X X X X X X X	X X	9
41	2	3	41	X X	X X X	5
40	1	4	40	X	X X X X	5
39	2	10	39	X X	X X X X X X X X X	12
38	5	8	38	X X X X X	X X X X X X X X	13
37	6	4	37	X X X X X X	X X X X	10
36	4	1	36	X X X X	X	5
35	3	2	35	X X X	X X	5
34	0	1	34		X	1
33	2	0	33	X X		2
32	5	1	32	X X X X X	X	6
31	2	0	31	X X		2
30	1	0	30	X		1
29	3	0	29	X X X		3
28	0	0	28			0
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Cypress Street

Between: Grand Avenue - Glendora Avenue

Weather: Clear

Date: 1/21/16

Time From: 10:40

Time To: 11:15

Existing Speed Limit: 40 M. P. H.

% Over Pace:	6%
% In Pace:	79%
% Under Pace:	15%
Average Speed:	39 M.P.H.
Pace Speed:	35 - 44 M.P.H.
15th Percentile / Critical Speed:	34 MPH
50th Percentile / Critical Speed:	38 MPH
85th Percentile / Critical Speed:	42 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	1	0	49	X		1
48	0	0	48			0
47	1	0	47	X		1
46	1	0	46	X		1
45	2	1	45	X X	X	3
44	2	2	44	X X	X X	4
43	3	3	43	X X X	X X X	6
42	1	4	42	X	X X X X	5
41	4	4	41	X X X X	X X X X	8
40	7	2	40	X X X X X X X	X X	9
39	9	3	39	X X X X X X X X X	X X X	12
38	6	8	38	X X X X X X X	X X X X X X X X	14
37	5	7	37	X X X X X	X X X X X X X	12
36	3	3	36	X X X	X X X	6
35	3	4	35	X X X	X X X X	7
34	1	3	34	X	X X X	4
33	0	1	33		X	1
32	0	1	32		X	1
31	1	1	31	X	X	2
30	0	2	30		X X	2
29	0	0	29			0
28	0	1	28		X	1
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Cypress Street
 Between: Glendora Avenue - Bonnie Cove Avenue
 Weather: Clear
 Date: 1/14/16
 Time From: 3:35
 Time To: 3:50
 Existing Speed Limit: 35 M. P. H.

% Over Pace:	6%
% In Pace:	83%
% Under Pace:	11%
Average Speed:	39 M.P.H.
Pace Speed:	35 - 44 M.P.H.
15th Percentile / Critical Speed:	34 MPH
50th Percentile / Critical Speed:	38 MPH
85th Percentile / Critical Speed:	42 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Eastbound								Westbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	0	49																		0
48	0	3	48								X	X	X								3
47	0	3	47								X	X	X								3
46	1	0	46	X																	1
45	0	2	45								X	X									2
44	2	3	44	X	X						X	X	X								5
43	4	2	43	X	X	X	X				X	X									6
42	6	3	42	X	X	X	X	X	X		X	X	X								9
41	4	3	41	X	X	X	X				X	X	X								7
40	2	5	40	X	X						X	X	X	X	X						7
39	5	3	39	X	X	X	X	X			X	X	X								8
38	7	1	38	X	X	X	X	X	X	X	X										8
37	2	7	37	X	X						X	X	X	X	X	X					9
36	2	2	36	X	X						X	X									4
35	5	2	35	X	X	X	X	X			X	X									7
34	1	4	34	X							X	X	X	X							5
33	3	2	33	X	X	X					X	X									5
32	3	1	32	X	X	X					X										4
31	3	1	31	X	X	X					X										4
30	0	2	30								X	X									2
29	0	0	29																		0
28	0	0	28																		0
27	0	0	27																		0
26	0	0	26																		0
25	0	0	25																		0
24	0	1	24								X										1
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: **Cypress Street**

Between: **Bonnie Cove Avenue - Sunflower Avenue**

Weather: **Clear**

Date: **1/14/16**

Time From: **3:10**

Time To: **3:30**

Existing Speed Limit: 40 M. P. H.

% Over Pace:	9%
% In Pace:	70%
% Under Pace:	21%
Average Speed:	39 M.P.H.
Pace Speed:	35 - 44 M.P.H.
15th Percentile / Critical Speed:	32 MPH
50th Percentile / Critical Speed:	38 MPH
85th Percentile / Critical Speed:	42 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	0	46			0
45	2	1	45	X X	X	3
44	3	1	44	X X X	X	4
43	4	0	43	X X X X		4
42	1	1	42	X	X	2
41	10	5	41	X X X X X X X X X X	X X X X X	15
40	3	2	40	X X X	X X	5
39	6	5	39	X X X X X X	X X X X X	11
38	6	6	38	X X X X X X	X X X X X X	12
37	6	6	37	X X X X X X	X X X X X X	12
36	2	8	36	X X	X X X X X X X X	10
35	0	6	35		X X X X X X	6
34	1	2	34	X	X X	3
33	0	0	33			0
32	2	1	32	X X	X	3
31	4	3	31	X X X X	X X X	7
30	0	2	30		X X	2
29	0	0	29			0
28	0	0	28			0
27	0	1	27		X	1
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Glendora Avenue

Between: Puente Street - Ruddock Street

Weather: Clear

Date: 1/19/16

Time From: 1:00

Time To: 1:20

Existing Speed Limit: 35 M. P. H.

% Over Pace:	3%
% In Pace:	81%
% Under Pace:	16%
Average Speed:	38 M.P.H.
Pace Speed:	35 - 44 M.P.H.
15th Percentile / Critical Speed:	33 MPH
50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	40 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	0	46			0
45	1	0	45	X		1
44	2	1	44	X X	X	3
43	1	2	43	X	X X	3
42	5	4	42	X X X X X	X X X X	9
41	6	0	41	X X X X X X		6
40	8	2	40	X X X X X X X X	X X	10
39	4	6	39	X X X X	X X X X X X	10
38	9	9	38	X X X X X X X X X X	X X X X X X X X X X	18
37	6	10	37	X X X X X X X	X X X X X X X X X X X	16
36	2	3	36	X X	X X X	5
35	4	6	35	X X X X	X X X X X X	10
34	0	3	34		X X X	3
33	0	0	33			0
32	0	1	32		X	1
31	2	2	31	X X	X X	4
30	0	1	30		X	1
29	0	0	29			0
28	0	0	28			0
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Glendora Avenue

Between: Ruddock Street - Cypress Street

Weather: Clear

Date: 1/19/16

Time From: 1:20

Time To: 1:40

Existing Speed Limit: 35 M. P. H.

% Over Pace:	1%
% In Pace:	90%
% Under Pace:	9%
Average Speed:	38 M.P.H.
Pace Speed:	35 - 44 M.P.H.
15th Percentile / Critical Speed:	34 MPH
50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	41 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	1	47		X	1
46	1	1	46	X	X	2
45	1	2	45	X	X X	3
44	4	0	44	X X X X		4
43	0	2	43		X X	2
42	1	0	42	X		1
41	2	4	41	X X	X X X X	6
40	6	3	40	X X X X X X X	X X X	9
39	5	6	39	X X X X X X	X X X X X X	11
38	5	7	38	X X X X X X	X X X X X X X	12
37	3	9	37	X X X	X X X X X X X X X	12
36	4	3	36	X X X X	X X X	7
35	4	3	35	X X X X	X X X	7
34	3	6	34	X X X	X X X X X X X	9
33	3	1	33	X X X	X	4
32	2	2	32	X X	X X	4
31	2	0	31	X X		2
30	0	0	30			0
29	0	0	29			0
28	1	0	28	X		1
27	3	0	27	X X X		3
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS	100	

Location: Glendora Avenue

Between: Cypress Street - Covina Boulevard

Weather: Clear

Date: 1/21/16

Time From: 10:15

Time To: 10:35

Existing Speed Limit: 35 M. P. H.

* % Over Pace:	13%
* % In Pace:	81%
* % Under Pace:	6%
* Average Speed:	37 M.P.H.
* Pace Speed:	32 - 41 M.P.H.
15th Percentile / Critical Speed:	33 MPH
50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	40 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	1	0	47	X		1
46	0	1	46		X	1
45	1	0	45	X		1
44	3	1	44	X X X		4
43	5	2	43	X X X X X		7
42	1	4	42	X	X X X X	5
41	2	3	41	X X	X X X	5
40	3	5	40	X X X	X X X X X	8
39	3	3	39	X X X	X X X	6
38	5	6	38	X X X X X	X X X X X X	11
37	8	3	37	X X X X X X X X X	X X X	11
36	2	3	36	X X	X X X	5
35	4	4	35	X X X X	X X X X	8
34	5	5	34	X X X X X	X X X X X	10
33	3	2	33	X X X	X X	5
32	0	1	32		X	1
31	3	0	31	X X X		3
30	0	2	30		X X	2
29	1	3	29	X	X X X	4
28	0	0	28			0
27	0	2	27		X X	2
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Glendora Avenue

Between: Covina Boulevard - Cienega Avenue

Weather: Clear

Date: 1/21/16

Time From: 9:55

Time To: 10:15

Existing Speed Limit: 35 M. P. H.

P A C E	% Over Pace:	<u>7%</u>
	% In Pace:	<u>76%</u>
	% Under Pace:	<u>17%</u>
	Average Speed:	<u>37 M.P.H.</u>
	Pace Speed:	<u>34 - 43 M.P.H.</u>
	15th Percentile / Critical Speed:	<u>32 MPH</u>
	50th Percentile / Critical Speed:	<u>36 MPH</u>
85th Percentile / Critical Speed:	<u>42 MPH</u>	

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	1	0	46	X		1
45	0	0	45			0
44	1	0	44	X		1
43	1	0	43	X		1
42	2	1	42	X X	X	3
41	3	1	41	X X X	X	4
40	7	2	40	X X X X X X X	X X	9
39	11	1	39	X X X X X X X X X X	X	12
38	9	1	38	X X X X X X X X	X	10
37	4	5	37	X X X X	X X X X X	9
36	5	2	36	X X X X X	X X	7
35	2	8	35	X X	X X X X X X X X	10
34	2	3	34	X X	X X X	5
33	1	3	33	X	X X X	4
32	1	6	32	X	X X X X X X	7
31	0	4	31		X X X X	4
30	0	1	30		X	1
29	0	2	29		X X	2
28	0	3	28		X X X	3
27	0	6	27		X X X X X X	6
26	0	1	26		X	1
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Grand Avenue
Between: Walnut Creek Road - Puente Street
Weather: Clear
Date: 1/13/16
Time From: 2:55
Time To: 3:30
Existing Speed Limit: 45 M. P. H.

* % Over Pace:	6%
* % In Pace:	77%
* % Under Pace:	17%
* Average Speed:	36 M.P.H.
* Pace Speed:	32 - 41 M.P.H.
* P * A * C * E	
15th Percentile / Critical Speed:	30 MPH
50th Percentile / Critical Speed:	36 MPH
85th Percentile / Critical Speed:	39 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	0	46			0
45	0	2	45		X X	2
44	1	2	44	X	X X	3
43	0	5	43		X X X X X	5
42	1	6	42	X	X X X X X X	7
41	2	6	41	X X	X X X X X X	8
40	1	6	40	X	X X X X X X	7
39	1	3	39	X	X X X	4
38	6	5	38	X X X X X X X	X X X X X	11
37	5	3	37	X X X X X	X X X	8
36	8	4	36	X X X X X X X X	X X X X	12
35	4	2	35	X X X X	X X	6
34	2	1	34	X X	X	3
33	1	0	33	X		1
32	3	2	32	X X X	X X	5
31	4	1	31	X X X X	X	5
30	1	0	30	X		1
29	2	1	29	X X	X	3
28	4	0	28	X X X X		4
27	2	1	27	X X	X	3
26	2	0	26	X X		2
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Grand Avenue

Between: Puente Street - San Bernardino Road

Weather: Clear

Date: 1/13/16

Time From: 2:30

Time To: 2:45

Existing Speed Limit: 40 M. P. H.

% Over Pace:	2%
% In Pace:	71%
% Under Pace:	27%
Average Speed:	37 M.P.H.
Pace Speed:	35 - 44 M.P.H.
15th Percentile / Critical Speed:	30 MPH
50th Percentile / Critical Speed:	36 MPH
85th Percentile / Critical Speed:	41 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	1	1	46	X	X	2
45	1	1	45	X	X	2
44	2	1	44	X X	X	3
43	0	8	43		X X X X X X X X	8
42	0	6	42		X X X X X X	6
41	1	3	41	X	X X X	4
40	1	5	40	X	X X X X X	6
39	0	9	39		X X X X X X X X X	9
38	5	5	38	X X X X X	X X X X X	10
37	6	5	37	X X X X X X	X X X X X	11
36	6	3	36	X X X X X X	X X X	9
35	8	1	35	X X X X X X X X	X	9
34	6	2	34	X X X X X X	X X	8
33	2	0	33	X X		2
32	3	0	32	X X X		3
31	4	0	31	X X X X		4
30	1	0	30	X		1
29	2	0	29	X X		2
28	1	0	28	X		1
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Grand Avenue

Between: San Bernardino Road - Covina Boulevard

Weather: Clear

Date: 1/13/16

Time From: 3:30

Time To: 4:00

Existing Speed Limit: 40 M. P. H.

P A C E * * * * *	% Over Pace:	7%
	% In Pace:	80%
	% Under Pace:	13%
	Average Speed:	38 M.P.H.
	Pace Speed:	34 - 43 M.P.H.
	15th Percentile / Critical Speed:	33 MPH
	50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	42 MPH	

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	1	47		X	1
46	0	6	46		X X X X X X	6
45	0	2	45		X X	2
44	1	3	44	X	X X X	4
43	1	5	43	X	X X X X X	6
42	2	6	42	X X	X X X X X X	8
41	3	5	41	X X X	X X X X X	8
40	4	5	40	X X X X	X X X X X	9
39	3	5	39	X X X	X X X X X	8
38	7	5	38	X X X X X X X X	X X X X X	12
37	6	3	37	X X X X X X X	X X X	9
36	8	1	36	X X X X X X X X X	X	9
35	5	3	35	X X X X X	X X X	8
34	1	0	34	X		1
33	2	0	33	X X		2
32	2	0	32	X X		2
31	2	0	31	X X		2
30	0	0	30			0
29	1	0	29	X		1
28	2	0	28	X X		2
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Grand Avenue
 Between: Covina Boulevard - Arrow Highway
 Weather: Clear
 Date: 1/13/16
 Time From: 2:10
 Time To: 2:30
 Existing Speed Limit: 40 M. P. H.

% Over Pace:	9%
% In Pace:	81%
% Under Pace:	10%
Average Speed:	39 M.P.H.
Pace Speed:	35 - 44 M.P.H.
15th Percentile / Critical Speed:	34 MPH
50th Percentile / Critical Speed:	38 MPH
85th Percentile / Critical Speed:	42 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	2	46		X X	2
45	2	1	45	X X	X	3
44	2	2	44	X X	X X	4
43	2	3	43	X X	X X X	5
42	1	2	42	X	X X	3
41	3	2	41	X X X	X X	5
40	2	6	40	X X	X X X X X X	8
39	3	8	39	X X X	X X X X X X X	11
38	7	7	38	X X X X X X X X	X X X X X X X	14
37	4	8	37	X X X X	X X X X X X X X	12
36	6	3	36	X X X X X X	X X X	9
35	4	2	35	X X X X	X X	6
34	6	1	34	X X X X X X	X	7
33	1	0	33	X		1
32	4	1	32	X X X X	X	5
31	1	1	31	X	X	2
30	1	0	30	X		1
29	0	1	29		X	1
28	1	0	28	X		1
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Hollenbeck Avenue

Between: South City Limits - Rowland Avenue

Weather: Clear

Date: 1/20/16

Time From: 10:00

Time To: 10:20

Existing Speed Limit: 35 M. P. H.

P A C E * * * * *	% Over Pace:	9%
	% In Pace:	80%
	% Under Pace:	11%
	Average Speed:	38 M.P.H.
	Pace Speed:	34 - 43 M.P.H.
	15th Percentile / Critical Speed:	33 MPH
	50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	42 MPH	

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	4	46		X X X X	4
45	2	2	45	X X	X X X	4
44	0	3	44		X X X	3
43	2	3	43	X X	X X X	5
42	0	3	42		X X X	3
41	3	4	41	X X X	X X X X	7
40	1	7	40	X	X X X X X X X	8
39	9	5	39	X X X X X X X X X	X X X X X	14
38	4	6	38	X X X X	X X X X X X	10
37	11	9	37	X X X X X X X X X X X X	X X X X X X X X X X	20
36	6	3	36	X X X X X X	X X X	9
35	4	0	35	X X X X		4
34	0	1	34		X	1
33	2	0	33	X X		2
32	1	0	32	X		1
31	1	0	31	X		1
30	1	0	30	X		1
29	0	0	29			0
28	0	0	28			0
27	3	0	27	X X X		3
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Hollenbeck Avenue

Between: Rowland Avenue - Badillo Street

Weather: Clear

Date: 1/20/16

Time From: 9:40

Time To: 10:00

Existing Speed Limit: 35 M. P. H.

% Over Pace:	4%
% In Pace:	83%
% Under Pace:	13%
Average Speed:	38 M.P.H.
Pace Speed:	36 - 45 M.P.H.
15th Percentile / Critical Speed:	35 MPH
50th Percentile / Critical Speed:	37 MPH
85th Percentile / Critical Speed:	42 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	0	46			0
45	0	0	45			0
44	0	0	44			0
43	0	2	43		X X	2
42	0	0	42			0
41	1	3	41	X	X X X	4
40	2	2	40	X X	X X	4
39	2	3	39	X X	X X X	5
38	3	3	38	X X X	X X X	6
37	7	6	37	X X X X X X X X	X X X X X X X	13
36	8	6	36	X X X X X X X X X	X X X X X X X	14
35	7	5	35	X X X X X X X X	X X X X X X	12
34	3	4	34	X X X	X X X X	7
33	2	2	33	X X	X X	4
32	3	7	32	X X X	X X X X X X X X	10
31	4	1	31	X X X X	X	5
30	4	3	30	X X X X	X X X	7
29	0	2	29		X X	2
28	2	1	28	X X	X	3
27	2	0	27	X X		2
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Hollenbeck Avenue

Between: Badillo Street - Edna Place

Weather: Clear

Date: 1/20/16

Time From: 9:25

Time To: 9:40

Existing Speed Limit: 35 M. P. H.

% Over Pace:	10%
% In Pace:	83%
% Under Pace:	7%
Average Speed:	35 M.P.H.
Pace Speed:	30 - 39 M.P.H.
15th Percentile / Critical Speed:	30 MPH
50th Percentile / Critical Speed:	34 MPH
85th Percentile / Critical Speed:	38 MPH

Radar Survey Conducted By:
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Corona, CA 92880
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	1	54		X	1
53	0	0	53			0
52	0	0	52			0
51	0	1	51		X	1
50	0	0	50			0
49	0	3	49		X X X	3
48	0	0	48			0
47	1	1	47	X	X	2
46	1	3	46	X	X X X	4
45	2	4	45	X X	X X X X	6
44	2	3	44	X X	X X X	5
43	4	5	43	X X X X	X X X X X	9
42	6	8	42	X X X X X X	X X X X X X X X	14
41	6	5	41	X X X X X X	X X X X X	11
40	2	1	40	X X	X	3
39	4	4	39	X X X X	X X X X	8
38	5	5	38	X X X X X	X X X X X	10
37	3	1	37	X X X	X	4
36	5	0	36	X X X X X		5
35	1	1	35	X	X	2
34	4	0	34	X X X X		4
33	1	0	33	X		1
32	2	1	32	X X	X	3
31	0	1	31		X	1
30	0	1	30		X	1
29	1	0	29	X		1
28	0	0	28			0
27	0	1	27		X	1
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS	100	

Location: Hollenbeck Avenue

Between: Covina Boulevard - Arrow Highway

Weather: Clear

Date: 1/20/16

Time From: 9:00

Time To: 9:25

Existing Speed Limit: 40 M. P. H.

% Over Pace:	11%
% In Pace:	75%
% Under Pace:	14%
Average Speed:	40 M.P.H.
Pace Speed:	36 - 45 M.P.H.
15th Percentile / Critical Speed:	35 MPH
50th Percentile / Critical Speed:	40 MPH
85th Percentile / Critical Speed:	44 MPH

Radar Survey Conducted By:
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T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	2	46		X X	2
45	2	1	45	X X	X	3
44	1	3	44	X	X X X	4
43	1	1	43	X	X	2
42	2	2	42	X X	X X	4
41	3	1	41	X X X	X	4
40	3	5	40	X X X	X X X X X	8
39	2	2	39	X X	X X	4
38	4	3	38	X X X X	X X X	7
37	4	5	37	X X X X	X X X X X	9
36	5	3	36	X X X X X	X X X	8
35	8	2	35	X X X X X X X X	X X	10
34	3	6	34	X X X	X X X X X X	9
33	2	2	33	X X	X X	4
32	3	3	32	X X X	X X X	6
31	1	3	31	X	X X X	4
30	2	1	30	X X	X	3
29	1	2	29	X	X X	3
28	1	0	28	X		1
27	1	2	27	X	X X	3
26	1	1	26	X	X	2
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Holt Avenue

Between: Interstate 10 - Via Verde

Weather: Clear

Date: 1/19/16

Time From: 11:35

Time To: 12:05

Existing Speed Limit: 45 M. P. H.

* % Over Pace:	15%
* % In Pace:	69%
* % Under Pace:	16%
* Average Speed:	36 M.P.H.
* Pace Speed:	32 - 41 M.P.H.
15th Percentile / Critical Speed:	30 MPH
50th Percentile / Critical Speed:	35 MPH
85th Percentile / Critical Speed:	41 MPH

Radar Survey Conducted By:
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	0	46			0
45	2	2	45	X X	X X	4
44	2	0	44	X X		2
43	7	0	43	X X X X X X X		7
42	3	1	42	X X X	X	4
41	0	3	41		X X X	3
40	3	2	40	X X X	X X	5
39	1	8	39	X	X X X X X X X X	9
38	3	2	38	X X X	X X	5
37	8	2	37	X X X X X X X X	X X	10
36	5	6	36	X X X X X	X X X X X X	11
35	2	7	35	X X	X X X X X X X	9
34	3	5	34	X X X	X X X X X	8
33	2	3	33	X X	X X X	5
32	4	2	32	X X X X	X X	6
31	2	2	31	X X	X X	4
30	2	0	30	X X		2
29	0	1	29		X	1
28	0	1	28		X	1
27	1	1	27	X	X	2
26	0	1	26		X	1
25	0	1	25		X	1
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Lark Ellen Avenue

Between: Grovecenter Street - Edna Place

Weather: Clear

Date: 1/21/16

Time From: 1:20

Time To: 1:35

Existing Speed Limit: 40 M. P. H.

* % Over Pace:	20%
* % In Pace:	72%
* % Under Pace:	8%
* Average Speed:	37 M.P.H.
* Pace Speed:	31 - 40 M.P.H.
* * * * *	
15th Percentile / Critical Speed:	31 MPH
50th Percentile / Critical Speed:	35 MPH
85th Percentile / Critical Speed:	41 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	1	48		X	1
47	1	1	47	X	X	2
46	0	0	46			0
45	0	0	45			0
44	3	1	44	X X X	X	4
43	2	1	43	X X	X	3
42	1	4	42	X	X X X X	5
41	1	0	41	X		1
40	2	1	40	X X	X	3
39	2	1	39	X X	X	3
38	6	4	38	X X X X X X	X X X X	10
37	7	1	37	X X X X X X X	X	8
36	1	6	36	X	X X X X X X	7
35	9	6	35	X X X X X X X X X	X X X X X X	15
34	2	6	34	X X	X X X X X X	8
33	3	6	33	X X X	X X X X X X	9
32	2	5	32	X X	X X X X X	7
31	4	0	31	X X X X		4
30	0	4	30		X X X X	4
29	2	1	29	X X	X	3
28	1	0	28	X		1
27	0	1	27		X	1
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		99

Location:	Puente Street
Between:	Hollenbeck Avenue - Citrus Avenue
Weather:	Clear
Date:	1/20/16
Time From:	10:45
Time To:	11:10
Existing Speed Limit:	<u>35</u> M. P. H.

% Over Pace:	19%
% In Pace:	76%
% Under Pace:	5%
Average Speed:	36 M.P.H.
Pace Speed:	30 - 39 M.P.H.
15th Percentile / Critical Speed:	31 MPH
50th Percentile / Critical Speed:	34 MPH
85th Percentile / Critical Speed:	41 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Eastbound								Westbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	0	49																		0
48	0	0	48																		0
47	0	0	47																		0
46	0	0	46																		0
45	0	0	45																		0
44	1	0	44	X																	1
43	0	0	43																		0
42	1	1	42	X						X											2
41	1	1	41	X						X											2
40	1	1	40	X						X											2
39	0	0	39																		0
38	2	2	38	X	X					X	X										4
37	1	2	37	X						X	X										3
36	2	4	36	X	X					X	X	X									6
35	2	3	35	X	X					X	X	X									5
34	3	4	34	X	X	X				X	X	X	X								7
33	6	2	33	X	X	X	X	X	X	X	X										8
32	5	7	32	X	X	X	X	X	X	X	X	X	X	X							12
31	5	5	31	X	X	X	X	X		X	X	X	X								10
30	4	5	30	X	X	X	X			X	X	X	X								9
29	7	6	29	X	X	X	X	X	X	X	X	X	X	X							13
28	2	3	28	X	X					X	X	X									5
27	3	3	27	X	X	X				X	X	X									6
26	1	1	26	X						X											2
25	1	0	25	X																	1
24	2	0	24	X	X																2
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: **Puente Street**

Between: **Citrus Avenue - Barranca Avenue**

Weather: **Clear**

Date: **1/20/16**

Time From: **11:10**

Time To: **11:35**

Existing Speed Limit: 30 M. P. H.

% Over Pace:	14%
% In Pace:	81%
% Under Pace:	5%
Average Speed:	32 M.P.H.
Pace Speed:	27 - 36 M.P.H.
15th Percentile / Critical Speed:	27 MPH
50th Percentile / Critical Speed:	31 MPH
85th Percentile / Critical Speed:	35 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	0	46			0
45	0	0	45			0
44	0	0	44			0
43	0	0	43			0
42	0	0	42			0
41	0	0	41			0
40	0	0	40			0
39	0	0	39			0
38	1	0	38	X		1
37	0	1	37		X	1
36	1	2	36	X	X X	3
35	2	1	35	X X	X	3
34	2	2	34	X X	X X	4
33	3	1	33	X X X	X	4
32	2	9	32	X X X	X X X X X X X X X	11
31	8	1	31	X X X X X X X X X	X	9
30	6	2	30	X X X X X X X	X X	8
29	5	6	29	X X X X X X	X X X X X X X	11
28	6	5	28	X X X X X X X	X X X X X X	11
27	3	3	27	X X X	X X X	6
26	3	5	26	X X X	X X X X X	8
25	4	1	25	X X X X	X	5
24	2	1	24	X X	X	3
23	2	2	23	X X	X X	4
22	0	3	22		X X X	3
21	0	3	21		X X X	3
20	0	2	20		X X	2
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Puente Street

Between: Glendora Avenue - Shouse Avenue

Weather: Clear

Date: 1/20/16

Time From: 12:35

Time To: 1:45

Existing Speed Limit: 25 M. P. H.

% Over Pace:	8%
% In Pace:	77%
% Under Pace:	15%
Average Speed:	29 M.P.H.
Pace Speed:	25 - 34 M.P.H.
15th Percentile / Critical Speed: 24 MPH	
50th Percentile / Critical Speed: 28 MPH	
85th Percentile / Critical Speed: 32 MPH	

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Eastbound								Westbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	3	2	50	X	X	X					X	X									5
49	3	3	49	X	X	X					X	X	X								6
48	1	2	48	X							X	X									3
47	3	1	47	X	X	X					X										4
46	4	4	46	X	X	X	X				X	X	X	X							8
45	3	1	45	X	X	X					X										4
44	6	5	44	X	X	X	X	X	X		X	X	X	X	X						11
43	5	3	43	X	X	X	X	X			X	X	X								8
42	1	6	42	X							X	X	X	X	X	X					7
41	0	5	41								X	X	X	X	X						5
40	4	3	40	X	X	X	X				X	X	X								7
39	2	3	39	X	X						X	X	X								5
38	6	5	38	X	X	X	X	X	X		X	X	X	X	X						11
37	3	3	37	X	X	X					X	X	X								6
36	2	1	36	X	X						X										3
35	3	2	35	X	X	X					X	X									5
34	0	0	34																		0
33	0	1	33								X										1
32	0	0	32																		0
31	1	0	31	X																	1
30	0	0	30																		0
29	0	0	29																		0
28	0	0	28																		0
27	0	0	27																		0
26	0	0	26																		0
25	0	0	25																		0
24	0	0	24																		0
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: **Puente Street**
 Between: **Reeder Avenue - Rancho Corto Drive**
 Weather: **Clear**
 Date: **1/20/16**
 Time From: **1:45**
 Time To: **2:20**
 Existing Speed Limit: 45 M. P. H.

*
*
*
P
A
C
E
*

% Over Pace: _____ 18%
 % In Pace: _____ 72%
 % Under Pace: _____ 10%
 Average Speed: _____ 42 M.P.H.
 Pace Speed: _____ 37 - 46 M.P.H.

15th Percentile / Critical Speed:	36 MPH
50th Percentile / Critical Speed:	41 MPH
85th Percentile / Critical Speed:	47 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Northbound								Southbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	0	49																		0
48	0	0	48																		0
47	0	0	47																		0
46	0	0	46																		0
45	0	0	45																		0
44	0	0	44																		0
43	0	0	43																		0
42	1	0	42	X																	1
41	1	0	41	X																	1
40	0	1	40						X												1
39	1	0	39	X																	1
38	2	2	38	X	X					X	X										4
37	2	1	37	X	X					X											3
36	2	4	36	X	X					X	X	X									6
35	8	5	35	X	X	X	X	X	X	X	X	X									13
34	2	5	34	X	X					X	X	X	X								7
33	3	4	33	X	X	X				X	X	X									7
32	10	8	32	X	X	X	X	X	X	X	X	X	X	X	X						18
31	3	1	31	X	X	X				X											4
30	4	2	30	X	X	X	X			X	X										6
29	1	4	29	X						X	X	X									5
28	4	5	28	X	X	X	X			X	X	X	X								9
27	3	3	27	X	X	X				X	X	X									6
26	2	4	26	X	X					X	X	X	X								6
25	1	0	25	X																	1
24	0	1	24							X											1
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: Reeder Avenue

Between: Puente Street - Old Badillo Street

Weather: Clear

Date: 1/20/16

Time From: 2:30

Time To: 2:50

Existing Speed Limit: 35 M. P. H.

% Over Pace:	11%
% In Pace:	81%
% Under Pace:	8%
Average Speed:	32 M.P.H.
Pace Speed:	27 - 36 M.P.H.
15th Percentile / Critical Speed:	27 MPH
50th Percentile / Critical Speed:	31 MPH
85th Percentile / Critical Speed:	35 MPH

Radar Survey Conducted By:
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City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Northbound								Southbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	0	49																		0
48	0	0	48																		0
47	0	0	47																		0
46	0	0	46																		0
45	0	0	45																		0
44	0	0	44																		0
43	0	0	43																		0
42	0	1	42																	X	1
41	1	3	41	X																X X X	4
40	1	2	40	X																X X	3
39	1	2	39	X																X X	3
38	6	3	38	X	X	X	X	X	X											X X X	9
37	4	7	37	X	X	X	X													X X X X X X X	11
36	4	0	36	X	X	X	X														4
35	4	7	35	X	X	X	X													X X X X X X X	11
34	6	6	34	X	X	X	X	X	X											X X X X X X X	12
33	1	2	33	X																X X	3
32	4	3	32	X	X	X	X													X X X	7
31	3	2	31	X	X	X														X X	5
30	3	3	30	X	X	X														X X X	6
29	3	3	29	X	X	X														X X X	6
28	1	4	28	X																X X X X	5
27	3	1	27	X	X	X														X	4
26	3	0	26	X	X	X															3
25	1	0	25	X																	1
24	0	0	24																		0
23	1	0	23	X																	1
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																99	

Location: Reeder Avenue

Between: Old Badillo Street - Badillo Street

Weather: Clear

Date: 1/20/16

Time From: 2:10

Time To: 2:30

Existing Speed Limit: 30 M. P. H.

% Over Pace:	11%
% In Pace:	75%
% Under Pace:	14%
Average Speed:	34 M.P.H.
Pace Speed:	29 - 38 M.P.H.
15th Percentile / Critical Speed:	28 MPH
50th Percentile / Critical Speed:	33 MPH
85th Percentile / Critical Speed:	37 MPH

Radar Survey Conducted By:
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T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Northbound								Southbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	0	49																		0
48	0	0	48																		0
47	4	1	47	X	X	X	X									X					5
46	0	1	46													X					1
45	0	0	45																		0
44	2	0	44	X	X																2
43	1	2	43	X												X	X				3
42	2	1	42	X	X											X					3
41	5	2	41	X	X	X	X	X								X	X				7
40	1	4	40	X												X	X	X	X		5
39	2	1	39	X	X											X					3
38	3	5	38	X	X	X										X	X	X	X	X	8
37	4	6	37	X	X	X	X									X	X	X	X	X	10
36	5	9	36	X	X	X	X	X								X	X	X	X	X	14
35	5	3	35	X	X	X	X	X								X	X				8
34	5	4	34	X	X	X	X	X								X	X	X	X		9
33	1	0	33	X																	1
32	3	5	32	X	X	X										X	X	X	X	X	8
31	2	2	31	X	X											X	X				4
30	1	2	30	X												X	X				3
29	2	0	29	X	X																2
28	0	0	28																		0
27	2	0	27	X	X																2
26	0	1	26																		1
25	0	1	25													X					1
24	0	0	24																		0
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: Reeder Avenue

Between: Badillo Street - Cypress Street

Weather: Clear

Date: 1/20/16

Time From: 2:50

Time To: 3:35

Existing Speed Limit: 30 M. P. H.

* % Over Pace:	14%
* % In Pace:	73%
* % Under Pace:	13%
* Average Speed:	37 M.P.H.
* Pace Speed:	32 - 41 M.P.H.
15th Percentile / Critical Speed:	31 MPH
50th Percentile / Critical Speed:	35 MPH
85th Percentile / Critical Speed:	40 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	1	48		X	1
47	0	1	47		X	1
46	0	2	46		X X	2
45	0	2	45		X X	2
44	0	2	44		X X	2
43	1	0	43	X		1
42	0	3	42		X X X	3
41	2	3	41	X X	X X X	5
40	2	6	40	X X	X X X X X X	8
39	2	3	39	X X	X X X	5
38	4	8	38	X X X X	X X X X X X X X	12
37	4	5	37	X X X X	X X X X X	9
36	7	1	36	X X X X X X X X	X	8
35	5	3	35	X X X X X	X X X	8
34	4	4	34	X X X X	X X X X	8
33	3	2	33	X X X	X X	5
32	4	1	32	X X X X	X	5
31	1	2	31	X	X X	3
30	1	0	30	X		1
29	2	0	29	X X		2
28	2	0	28	X X		2
27	3	1	27	X X X	X	4
26	2	0	26	X X		2
25	0	0	25			0
24	1	0	24	X		1
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS	100	

Location: Rowland Avenue

Between: Arnel Drive - Citrus Avenue

Weather: Clear

Date: 1/19/16

Time From: 9:25

Time To: 9:45

Existing Speed Limit: 40 M. P. H.

* % Over Pace:	12%
* % In Pace:	73%
* % Under Pace:	15%
* Average Speed:	36 M.P.H.
* Pace Speed:	32 - 41 M.P.H.
15th Percentile / Critical Speed: 30 MPH	
50th Percentile / Critical Speed: 36 MPH	
85th Percentile / Critical Speed: 40 MPH	

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.
				Eastbound								Westbound								
65	0	0	65															0		
64	0	0	64															0		
63	0	0	63															0		
62	0	0	62															0		
61	0	0	61															0		
60	0	0	60															0		
59	0	0	59															0		
58	0	0	58															0		
57	0	0	57															0		
56	0	0	56															0		
55	0	0	55															0		
54	0	0	54															0		
53	0	0	53															0		
52	0	0	52															0		
51	2	0	51	X	X													2		
50	1	0	50	X														1		
49	1	4	49	X					X	X	X	X						5		
48	0	4	48						X	X	X	X						4		
47	1	2	47	X					X	X								3		
46	2	2	46	X	X				X	X								4		
45	2	2	45	X	X				X	X								4		
44	1	4	44	X					X	X	X	X						5		
43	3	5	43	X	X	X			X	X	X	X	X					8		
42	6	5	42	X	X	X	X	X	X	X	X	X	X					11		
41	6	4	41	X	X	X	X	X	X	X	X	X						10		
40	5	4	40	X	X	X	X	X	X	X	X							9		
39	5	4	39	X	X	X	X	X	X	X	X							9		
38	4	1	38	X	X	X	X		X									5		
37	4	2	37	X	X	X	X		X	X								6		
36	3	2	36	X	X	X			X	X								5		
35	2	1	35	X	X				X									3		
34	0	3	34						X	X	X							3		
33	0	0	33															0		
32	1	1	32	X					X									2		
31	0	0	31															0		
30	0	0	30															0		
29	1	0	29	X														1		
28	0	0	28															0		
27	0	0	27															0		
26	0	0	26															0		
25	0	0	25															0		
24	0	0	24															0		
23	0	0	23															0		
22	0	0	22															0		
21	0	0	21															0		
20	0	0	20															0		
19	0	0	19															0		
18	0	0	18															0		
17	0	0	17															0		
16	0	0	16															0		
15	0	0	15															0		
				GRAND TOTALS																100

Location: Rowland Avenue

Between: Barranca Avenue - Forestdale Avenue

Weather: Clear

Date: 1/21/16

Time From: 3:15

Time To: 3:40

Existing Speed Limit: 40 M. P. H.

% Over Pace:	19%
% In Pace:	72%
% Under Pace:	9%
Average Speed:	41 M.P.H.
Pace Speed:	36 - 45 M.P.H.
15th Percentile / Critical Speed:	36 MPH
50th Percentile / Critical Speed:	40 MPH
85th Percentile / Critical Speed:	46 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	1	51		X	1
50	0	2	50		X X	2
49	0	1	49		X	1
48	1	0	48	X		1
47	2	1	47	X X	X	3
46	2	5	46	X X	X X X X X	7
45	6	2	45	X X X X X X X	X X X X X	8
44	3	4	44	X X X	X X X X	7
43	3	2	43	X X X	X X	5
42	3	7	42	X X X	X X X X X X X X	10
41	7	6	41	X X X X X X X X	X X X X X X X	13
40	4	4	40	X X X X	X X X X	8
39	8	7	39	X X X X X X X X X	X X X X X X X X	15
38	3	1	38	X X X	X	4
37	2	0	37	X X		2
36	3	2	36	X X X	X X	5
35	1	0	35	X		1
34	2	4	34	X X	X X X X	6
33	0	0	33			0
32	0	0	32			0
31	0	0	31			0
30	0	1	30		X	1
29	0	0	29			0
28	0	0	28			0
27	0	0	27			0
26	0	0	26			0
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: San Bernardino Road
 Between: Vincent Avenue - Lark Ellen Avenue
 Weather: Clear
 Date: 1/21/16
 Time From: 12:45
 Time To: 1:00
 Existing Speed Limit: 40 M. P. H.

*
*
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P
A
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E
*

% Over Pace: 5%
 % In Pace: 80%
 % Under Pace: 15%
 Average Speed: 41 M.P.H.
 Pace Speed: 38 - 47 M.P.H.

15th Percentile / Critical Speed:	37 MPH
50th Percentile / Critical Speed:	40 MPH
85th Percentile / Critical Speed:	45 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Eastbound	Westbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	0	46			0
45	0	0	45			0
44	0	0	44			0
43	1	1	43	X	X	2
42	1	1	42	X	X	2
41	2	2	41	X X	X X	4
40	6	0	40	X X X X X X		6
39	1	4	39	X	X X X X	5
38	2	4	38	X X	X X X X	6
37	1	2	37	X	X X	3
36	3	6	36	X X X	X X X X X X	9
35	3	6	35	X X X	X X X X X X	9
34	6	4	34	X X X X X X X	X X X X	10
33	2	2	33	X X	X X	4
32	8	5	32	X X X X X X X X	X X X X X X	13
31	3	5	31	X X X	X X X X X	8
30	2	1	30	X X	X	3
29	1	1	29	X	X	2
28	2	2	28	X X	X X	4
27	3	1	27	X X X	X	4
26	3	2	26	X X X	X X	5
25	0	1	25		X	1
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: San Bernardino Road

Between: Lark Ellen Avenue - Azusa Avenue

Weather: Clear

Date: 1/21/16

Time From: 1:40

Time To: 2:00

Existing Speed Limit: 35 M. P. H.

* % Over Pace:	8%
* % In Pace:	73%
* % Under Pace:	19%
Average Speed:	34 M.P.H.
* Pace Speed:	31 - 40 M.P.H.
15th Percentile / Critical Speed:	28 MPH
50th Percentile / Critical Speed:	33 MPH
85th Percentile / Critical Speed:	38 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Eastbound								Westbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	0	0	51																			0
50	0	1	50													X						1
49	1	0	49	X																		1
48	0	0	48																			0
47	0	1	47													X						1
46	2	0	46	X	X																	2
45	2	0	45	X	X																	2
44	3	1	44	X	X	X										X						4
43	5	2	43	X	X	X	X	X								X	X					7
42	3	1	42	X	X	X										X						4
41	5	5	41	X	X	X	X	X								X	X	X	X	X		10
40	5	6	40	X	X	X	X	X								X	X	X	X	X		11
39	5	5	39	X	X	X	X	X								X	X	X	X			10
38	6	8	38	X	X	X	X	X	X							X	X	X	X	X	X	14
37	1	10	37	X												X	X	X	X	X	X	11
36	2	4	36	X	X											X	X	X				6
35	2	4	35	X	X											X	X	X				6
34	0	1	34													X						1
33	3	0	33	X	X	X																3
32	1	0	32	X																		1
31	2	0	31	X	X																	2
30	1	0	30	X																		1
29	1	0	29	X																		1
28	0	1	28													X						1
27	0	0	27																			0
26	0	0	26																			0
25	0	0	25																			0
24	0	0	24																			0
23	0	0	23																			0
22	0	0	22																			0
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: San Bernardino Road

Between: Azusa Avenue - Hollenbeck Avenue

Weather: Clear

Date: 1/21/16

Time From: 2:00

Time To: 2:15

Existing Speed Limit: 35 M. P. H.

% Over Pace:	<u>7%</u>
% In Pace:	<u>83%</u>
% Under Pace:	<u>10%</u>
Average Speed:	<u>39 M.P.H.</u>
Pace Speed:	<u>35 - 44 M.P.H.</u>
15th Percentile / Critical Speed:	<u>34 MPH</u>
50th Percentile / Critical Speed:	<u>38 MPH</u>
85th Percentile / Critical Speed:	<u>42 MPH</u>

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Eastbound								Westbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	0	49																		0
48	0	0	48																		0
47	0	0	47																		0
46	1	0	46	X																	1
45	0	0	45																		0
44	1	0	44	X																	1
43	0	1	43							X											1
42	1	0	42	X																	1
41	0	0	41																		0
40	0	0	40																		0
39	0	1	39							X											1
38	4	2	38	X	X	X	X			X	X										6
37	1	2	37	X						X	X										3
36	3	4	36	X	X	X				X	X	X									7
35	4	4	35	X	X	X	X			X	X	X	X								8
34	4	5	34	X	X	X	X			X	X	X	X	X							9
33	5	4	33	X	X	X	X	X		X	X	X	X								9
32	7	2	32	X	X	X	X	X	X	X	X										9
31	3	7	31	X	X	X				X	X	X	X	X	X						10
30	5	3	30	X	X	X	X	X		X	X	X									8
29	2	2	29	X	X					X	X										4
28	3	6	28	X	X	X				X	X	X	X	X							9
27	3	4	27	X	X	X				X	X	X	X								7
26	2	0	26	X	X					X	X										2
25	1	2	25	X						X	X										3
24	0	0	24																		0
23	0	1	23							X											1
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: San Bernardino Road

Between: Hollenbeck Avenue - Citrus Avenue

Weather: Clear

Date: 1/21/16

Time From: 2:15

Time To: 2:30

Existing Speed Limit: 30 M. P. H.

% Over Pace:	14%
% In Pace:	80%
% Under Pace:	6%
Average Speed:	32 M.P.H.
Pace Speed:	27 - 36 M.P.H.
15th Percentile / Critical Speed:	27 MPH
50th Percentile / Critical Speed:	31 MPH
85th Percentile / Critical Speed:	36 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.
				Eastbound								Westbound								
65	0	0	65																	0
64	0	0	64																	0
63	0	0	63																	0
62	0	0	62																	0
61	0	0	61																	0
60	0	0	60																	0
59	0	0	59																	0
58	0	0	58																	0
57	0	0	57																	0
56	0	0	56																	0
55	0	0	55																	0
54	0	0	54																	0
53	0	0	53																	0
52	0	0	52																	0
51	0	0	51																	0
50	0	0	50																	0
49	0	0	49																	0
48	0	0	48																	0
47	0	0	47																	0
46	0	2	46								X	X								2
45	0	0	45																	0
44	1	0	44	X																1
43	4	2	43	X	X	X	X				X	X								6
42	2	2	42	X	X	X	X				X	X								4
41	4	4	41	X	X	X	X				X	X	X	X						8
40	2	0	40	X	X															2
39	5	2	39	X	X	X	X	X			X	X								7
38	4	6	38	X	X	X	X				X	X	X	X	X					10
37	7	8	37	X	X	X	X	X	X	X	X	X	X	X	X	X				15
36	6	6	36	X	X	X	X	X	X		X	X	X	X	X					12
35	4	5	35	X	X	X	X				X	X	X	X						9
34	5	2	34	X	X	X	X	X			X	X								7
33	1	2	33	X							X	X								3
32	2	2	32	X	X						X	X								4
31	1	0	31	X																1
30	1	1	30	X							X									2
29	1	2	29	X							X	X								3
28	0	3	28								X	X	X							3
27	0	0	27																	0
26	0	0	26																	0
25	0	0	25																	0
24	0	0	24																	0
23	0	1	23								X									1
22	0	0	22																	0
21	0	0	21																	0
20	0	0	20																	0
19	0	0	19																	0
18	0	0	18																	0
17	0	0	17																	0
16	0	0	16																	0
15	0	0	15																	0
				GRAND TOTALS																100

Location: San Bernardino Road

Between: Barranca Avenue - Grand Avenue

Weather: Clear

Date: 1/21/16

Time From: 2:55

Time To: 3:10

Existing Speed Limit: 35 M. P. H.

P A C E * * * * *	% Over Pace:	3%
	% In Pace:	80%
	% Under Pace:	17%
	Average Speed:	37 M.P.H.
	Pace Speed:	34 - 43 M.P.H.
	15th Percentile / Critical Speed:	32 MPH
	50th Percentile / Critical Speed:	36 MPH
85th Percentile / Critical Speed:	40 MPH	

Radar Survey Conducted By:
Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92880
 T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Northbound								Southbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	0	0	51																			0
50	0	0	50																			0
49	0	0	49																			0
48	0	0	48																			0
47	0	0	47																			0
46	1	0	46	X																		1
45	1	3	45	X						X	X	X										4
44	0	0	44																			0
43	1	2	43	X						X	X											3
42	1	7	42	X						X	X	X	X	X	X	X						8
41	4	2	41	X	X	X	X			X	X											6
40	4	2	40	X	X	X	X			X	X											6
39	5	1	39	X	X	X	X	X		X												6
38	5	3	38	X	X	X	X	X		X	X	X										8
37	2	5	37	X	X					X	X	X	X	X								7
36	8	6	36	X	X	X	X	X	X	X	X	X	X	X								14
35	4	4	35	X	X	X	X			X	X	X	X									8
34	5	5	34	X	X	X	X	X		X	X	X	X	X								10
33	2	3	33	X	X					X	X	X										5
32	4	5	32	X	X	X	X			X	X	X	X	X								9
31	0	1	31							X												1
30	0	0	30																			0
29	0	0	29																			0
28	0	0	28																			0
27	1	1	27	X						X												2
26	0	0	26																			0
25	2	0	25	X	X																	2
24	0	0	24																			0
23	0	0	23																			0
22	0	0	22																			0
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location:	Second Avenue
Between:	Rowland Avenue - Badillo Street
Weather:	Clear
Date:	1/19/16
Time From:	10:20
Time To:	10:40
Existing Speed Limit:	<u>35</u> M. P. H.

* % Over Pace:	16%
* % In Pace:	79%
* % Under Pace:	5%
* Average Speed:	37 M.P.H.
* Pace Speed:	32 - 41 M.P.H.
15th Percentile / Critical Speed:	32 MPH
50th Percentile / Critical Speed:	35 MPH
85th Percentile / Critical Speed:	41 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	2	0	50	X X		2
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	0	46			0
45	0	0	45			0
44	0	0	44			0
43	0	0	43			0
42	1	2	42	X	X X	3
41	3	2	41	X X X	X X	5
40	1	0	40	X		1
39	1	1	39	X	X	2
38	3	0	38	X X X		3
37	2	4	37	X X	X X X X	6
36	2	4	36	X X	X X X X	6
35	5	9	35	X X X X X	X X X X X X X X X	14
34	7	5	34	X X X X X X X	X X X X X	12
33	2	4	33	X X	X X X X	6
32	9	6	32	X X X X X X X X X X	X X X X X X	15
31	6	2	31	X X X X X X X	X X	8
30	0	2	30		X X	2
29	2	3	29	X X	X X X	5
28	3	1	28	X X X	X	4
27	0	3	27		X X X	3
26	1	2	26	X	X X	3
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Second Avenue

Between: Badillo Street - Front Street

Weather: Clear

Date: 1/19/16

Time From: 10:40

Time To: 11:00

Existing Speed Limit: 30 M. P. H.

% Over Pace:	16%
% In Pace:	78%
% Under Pace:	6%
Average Speed:	34 M.P.H.
Pace Speed:	28 - 37 M.P.H.
15th Percentile / Critical Speed:	28 MPH
50th Percentile / Critical Speed:	33 MPH
85th Percentile / Critical Speed:	37 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed		TOT.
				Northbound	Southbound	
65	0	0	65			0
64	0	0	64			0
63	0	0	63			0
62	0	0	62			0
61	0	0	61			0
60	0	0	60			0
59	0	0	59			0
58	0	0	58			0
57	0	0	57			0
56	0	0	56			0
55	0	0	55			0
54	0	0	54			0
53	0	0	53			0
52	0	0	52			0
51	0	0	51			0
50	0	0	50			0
49	0	0	49			0
48	0	0	48			0
47	0	0	47			0
46	0	0	46			0
45	1	1	45	X	X	2
44	0	0	44			0
43	1	0	43	X		1
42	1	0	42	X		1
41	1	2	41	X	X X	3
40	2	4	40	X X	X X X X	6
39	0	7	39		X X X X X X X	7
38	4	5	38	X X X X	X X X X X	9
37	3	6	37	X X X	X X X X X X	9
36	8	6	36	X X X X X X X X	X X X X X X	14
35	5	7	35	X X X X X	X X X X X X X	12
34	6	4	34	X X X X X X	X X X X	10
33	7	3	33	X X X X X X X	X X X	10
32	4	1	32	X X X X	X	5
31	2	1	31	X X	X	3
30	1	1	30	X	X	2
29	3	1	29	X X X	X	4
28	0	0	28			0
27	0	1	27		X	1
26	1	0	26	X		1
25	0	0	25			0
24	0	0	24			0
23	0	0	23			0
22	0	0	22			0
21	0	0	21			0
20	0	0	20			0
19	0	0	19			0
18	0	0	18			0
17	0	0	17			0
16	0	0	16			0
15	0	0	15			0
				GRAND TOTALS		100

Location: Sunflower Avenue

Between: Cypress Street - Cienega Avenue

Weather: Clear

Date: 1/21/16

Time From: 9:00

Time To: 9:15

Existing Speed Limit: 35 M. P. H.

* % Over Pace:	4%
* % In Pace:	85%
* % Under Pace:	11%
* Average Speed:	36 M.P.H.
* Pace Speed:	32 - 41 M.P.H.
15th Percentile / Critical Speed:	31 MPH
50th Percentile / Critical Speed:	35 MPH
85th Percentile / Critical Speed:	38 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Northbound								Southbound									VEH.	
65	0	0	65																		0	
64	0	0	64																		0	
63	0	0	63																		0	
62	0	0	62																		0	
61	0	0	61																		0	
60	0	0	60																		0	
59	0	0	59																		0	
58	0	0	58																		0	
57	0	0	57																		0	
56	0	0	56																		0	
55	0	0	55																		0	
54	0	0	54																		0	
53	0	0	53																		0	
52	0	0	52																		0	
51	0	0	51																		0	
50	0	0	50																		0	
49	0	0	49																		0	
48	0	1	48														X				1	
47	0	1	47														X				1	
46	0	0	46																		0	
45	1	0	45	X																	1	
44	0	1	44														X				1	
43	0	4	43														X	X	X	X	4	
42	1	1	42	X													X				2	
41	1	1	41	X													X				2	
40	0	4	40														X	X	X	X	4	
39	0	7	39														X	X	X	X	X	7
38	4	5	38	X	X	X	X										X	X	X	X	9	
37	8	3	37	X	X	X	X	X	X	X							X	X	X		11	
36	3	3	36	X	X	X											X	X	X		6	
35	7	4	35	X	X	X	X	X	X	X							X	X	X	X	11	
34	4	4	34	X	X	X	X										X	X	X	X	8	
33	4	2	33	X	X	X	X										X	X			6	
32	6	1	32	X	X	X	X	X									X				7	
31	0	2	31														X	X			2	
30	4	1	30	X	X	X	X										X				5	
29	4	3	29	X	X	X	X										X	X	X		7	
28	2	2	28	X	X												X	X			4	
27	1	0	27	X																	1	
26	0	0	26																		0	
25	0	0	25																		0	
24	0	0	24																		0	
23	0	0	23																		0	
22	0	0	22																		0	
21	0	0	21																		0	
20	0	0	20																		0	
19	0	0	19																		0	
18	0	0	18																		0	
17	0	0	17																		0	
16	0	0	16																		0	
15	0	0	15																		0	
				GRAND TOTALS																100		

Location: Vincent Avenue

Between: Badillo Street - Edna Place

Weather: Clear

Date: 1/21/16

Time From: 1:00

Time To: 1:15

Existing Speed Limit: 35 M. P. H.

% Over Pace:	16%
% In Pace:	72%
% Under Pace:	12%
Average Speed:	36 M.P.H.
Pace Speed:	30 - 39 M.P.H.
15th Percentile / Critical Speed:	29 MPH
50th Percentile / Critical Speed:	34 MPH
85th Percentile / Critical Speed:	39 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.	
				Eastbound								Westbound									VEH.
65	0	0	65																		0
64	0	0	64																		0
63	0	0	63																		0
62	0	0	62																		0
61	0	0	61																		0
60	0	0	60																		0
59	0	0	59																		0
58	0	0	58																		0
57	0	0	57																		0
56	0	0	56																		0
55	0	0	55																		0
54	0	0	54																		0
53	0	0	53																		0
52	0	0	52																		0
51	0	0	51																		0
50	0	0	50																		0
49	0	0	49																		0
48	0	0	48																		0
47	0	0	47																		0
46	0	0	46																		0
45	0	0	45																		0
44	0	0	44																		0
43	0	0	43																		0
42	0	0	42																		0
41	0	0	41																		0
40	1	0	40	X																	1
39	1	0	39	X																	1
38	3	1	38	X	X	X						X									4
37	5	3	37	X	X	X	X	X				X	X	X							8
36	8	4	36	X	X	X	X	X	X	X		X	X	X							12
35	3	1	35	X	X	X						X									4
34	6	4	34	X	X	X	X	X	X			X	X	X							10
33	1	6	33	X								X	X	X	X	X					7
32	3	4	32	X	X	X						X	X	X							7
31	3	13	31	X	X	X						X	X	X	X	X	X	X	X	X	16
30	4	5	30	X	X	X	X					X	X	X	X						9
29	3	5	29	X	X	X						X	X	X	X						8
28	0	0	28																		0
27	6	3	27	X	X	X	X	X				X	X	X							9
26	3	1	26	X	X	X						X									4
25	0	0	25																		0
24	0	0	24																		0
23	0	0	23																		0
22	0	0	22																		0
21	0	0	21																		0
20	0	0	20																		0
19	0	0	19																		0
18	0	0	18																		0
17	0	0	17																		0
16	0	0	16																		0
15	0	0	15																		0
				GRAND TOTALS																100	

Location: Workman Avenue

Between: West City Limits - East City Limits W/ Citrus Avenue

Weather: Clear

Date: 1/19/16

Time From: 9:45

Time To: 10:00

Existing Speed Limit: 35 M. P. H.

% Over Pace:	2%
% In Pace:	85%
% Under Pace:	13%
Average Speed:	32 M.P.H.
Pace Speed:	29 - 38 M.P.H.
15th Percentile / Critical Speed:	28 MPH
50th Percentile / Critical Speed:	31 MPH
85th Percentile / Critical Speed:	35 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.		
				Eastbound								Westbound									VEH.	
65	0	0	65																		0	
64	0	0	64																			0
63	0	0	63																			0
62	0	0	62																			0
61	0	0	61																			0
60	0	0	60																			0
59	0	0	59																			0
58	0	0	58																			0
57	0	0	57																			0
56	0	0	56																			0
55	0	0	55																			0
54	0	0	54																			0
53	0	0	53																			0
52	0	0	52																			0
51	0	0	51																			0
50	0	0	50																			0
49	0	0	49																			0
48	0	0	48																			0
47	0	0	47																			0
46	0	0	46																			0
45	1	1	45	X												X						2
44	0	1	44													X						1
43	0	1	43													X						1
42	2	4	42	X	X											X	X	X	X			6
41	2	1	41	X	X											X						3
40	0	6	40													X	X	X	X	X	X	6
39	3	3	39	X	X	X										X	X	X				6
38	1	4	38	X												X	X	X	X			5
37	3	5	37	X	X	X										X	X	X	X	X		8
36	5	6	36	X	X	X	X	X								X	X	X	X	X	X	11
35	5	5	35	X	X	X	X	X								X	X	X	X	X		10
34	5	3	34	X	X	X	X	X								X	X	X				8
33	3	1	33	X	X	X										X						4
32	5	4	32	X	X	X	X	X								X	X	X	X			9
31	4	0	31	X	X	X	X									X	X	X				4
30	1	1	30	X												X						2
29	0	0	29																			0
28	4	3	28	X	X	X	X									X	X	X				7
27	3	1	27	X	X	X										X						4
26	2	0	26	X	X																	2
25	0	0	25																			0
24	1	0	24	X																		1
23	0	0	23																			0
22	0	0	22																			0
21	0	0	21																			0
20	0	0	20																			0
19	0	0	19																			0
18	0	0	18																			0
17	0	0	17																			0
16	0	0	16																			0
15	0	0	15																			0
				GRAND TOTALS																100		

Location: Workman Avenue

Between: Citrus Avenue - Barranca Avenue

Weather: Clear

Date: 1/19/16

Time From: 10:00

Time To: 10:20

Existing Speed Limit: 35 M. P. H.

* % Over Pace:	13%
* % In Pace:	71%
* % Under Pace:	16%
Average Speed:	35 M.P.H.
* Pace Speed:	31 - 40 M.P.H.
15th Percentile / Critical Speed:	29 MPH
50th Percentile / Critical Speed:	34 MPH
85th Percentile / Critical Speed:	39 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

City of Covina
Radar Speed Survey

Speed	E/B	W/B	MPH	Vehicles Surveyed																TOT.				
				Eastbound								Westbound									VEH.			
65	0	0	65																		0			
64	0	0	64																		0			
63	0	0	63																		0			
62	0	0	62																		0			
61	0	0	61																		0			
60	0	0	60																		0			
59	0	0	59																		0			
58	0	0	58																		0			
57	0	0	57																		0			
56	0	0	56																		0			
55	0	0	55																		0			
54	0	0	54																		0			
53	0	0	53																		0			
52	0	0	52																		0			
51	0	0	51																		0			
50	0	0	50																		0			
49	0	0	49																		0			
48	0	0	48																		0			
47	0	0	47																		0			
46	0	1	46																	X	1			
45	0	1	45																	X	1			
44	0	0	44																		0			
43	0	1	43																	X	1			
42	0	0	42																		0			
41	0	0	41																		0			
40	0	0	40																		0			
39	2	2	39	X	X															X	X	4		
38	2	1	38	X	X																X	3		
37	1	0	37	X																		1		
36	1	1	36	X																	X	2		
35	0	2	35																		X	X	2	
34	4	2	34	X	X	X	X														X	X	6	
33	5	0	33	X	X	X	X	X															5	
32	4	2	32	X	X	X	X														X	X	6	
31	6	4	31	X	X	X	X	X	X												X	X	X	10
30	4	5	30	X	X	X	X														X	X	X	9
29	4	4	29	X	X	X	X														X	X	X	8
28	1	5	28	X																	X	X	X	6
27	6	3	27	X	X	X	X	X	X												X	X	X	9
26	4	3	26	X	X	X	X														X	X	X	7
25	2	4	25	X	X																X	X	X	6
24	2	2	24	X	X																X	X		4
23	2	1	23	X	X																X			3
22	0	2	22																		X	X		2
21	0	1	21																		X			1
20	0	3	20																		X	X	X	3
19	0	0	19																					0
18	0	0	18																					0
17	0	0	17																					0
16	0	0	16																					0
15	0	0	15																					0
				GRAND TOTALS																100				

Location: Workman Avenue

Between: Barranca Avenue - Easterly End of Road

Weather: Clear

Date: 1/19/16

Time From: 11:00

Time To: 11:45

Existing Speed Limit: 30 M. P. H.

% Over Pace:	15%
% In Pace:	72%
% Under Pace:	13%
Average Speed:	30 M.P.H.
Pace Speed:	25 - 34 M.P.H.
* P A C E	
15th Percentile / Critical Speed:	24 MPH
50th Percentile / Critical Speed:	29 MPH
85th Percentile / Critical Speed:	34 MPH

Radar Survey Conducted By:
Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92880
T 951-268-6268 F 951-268-6267

APPENDIX B

Collision Rates

**Table 3
Collision Rates**

No.	Street	From	To	Midblock Collisions (3 Years)	ADT*	Approx. Length of Segment (mi)	Calculated Accident Rate (Acc/MVM**)	Statewide Accident Rate*** (Acc/MVM)
1	ARROW HWY	ARROW GRAND CIR	GRAND AVE	3	22,549	0.273	0.45	1.45
2	ARROW HWY	GRAND AVE	1000' EASTERLY	0	24,392	0.189	0.00	1.45
3	AZUSA AVE	SOUTH CITY LIMITS	SAN BERNARDINO RD	1	26,874	0.182	0.19	2.22
4	AZUSA AVE	SAN BERNARDINO RD	CYPRESS ST	1	21,915	0.455	0.09	2.22
5	AZUSA AVE	CYPRESS ST	ARROW HWY	2	23,067	0.773	0.10	2.22
6	BADILLO ST	LARK ELLEN AVE	HOLLENBECK AVE	2	18,074	1.091	0.09	2.22
7	BADILLO ST	HOLLENBECK AVE	4TH AVENUE	0	18,948	0.273	0.00	2.22
8	BADILLO ST	4TH AVENUE	2ND AVENUE	0	18,213	0.364	0.00	2.21
9	BADILLO ST	2ND AVENUE	BARRANCA AVE	0	18,699	0.363	0.00	2.22
10	BADILLO ST	BARRANCA AVE	GRAND AVE	0	17,731	0.500	0.00	2.22
11	BADILLO ST	GRAND AVE	GLENDORA AVE	2	15,898	0.500	0.23	1.45
12	BADILLO ST	GLENDORA AVE	REEDER AVE	2	20,104	0.636	0.14	1.45
13	BADILLO ST	REEDER AVE	EAST CITY LIMITS	0	17,599	0.455	0.00	1.45
14	BARRANCA AVE	SOUTH CITY LIMITS	PUENTE ST	2	20,773	0.500	0.18	2.22
15	BARRANCA AVE	PUENTE ST	SAN BERNARDINO RD	0	18,801	0.545	0.00	2.22
16	BARRANCA AVE	SAN BERNARDINO RD	COVINA BLVD	1	20,930	0.591	0.07	2.04
17	BARRANCA AVE	COVINA BLVD	NORTH CITY LIMITS	1	17,274	0.500	0.11	2.22

**Table 3
Collision Rates**

No.	Street	From	To	Midblock Collisions (3 Years)	ADT*	Approx. Length of Segment (mi)	Calculated Accident Rate (Acc/MVM**)	Statewide Accident Rate*** (Acc/MVM)
18	CIENEGA AVE	BARRANCA AVE	GRAND AVE	0	3,920	0.500	0.00	2.21
19	CIENEGA AVE	ARROWAY AVE	IVESCREST AVE	0	5,899	0.182	0.00	2.21
20	CITRUS AVE	WORKMAN AVE	ROWLAND AVE	1	26,930	0.227	0.15	2.22
21	CITRUS AVE	ROWLAND AVE	PUENTE ST	0	21,736	0.227	0.00	2.22
22	CITRUS AVE	PUENTE ST	BADILLO ST	0	17,731	0.227	0.00	2.04
23	CITRUS AVE	BADILLO ST	SAN BERNARDINO RD	0	12,471	0.273	0.00	2.04
24	CITRUS AVE	SAN BERNARDINO RD	COVINA BLVD	0	16,696	0.636	0.00	2.22
25	CITRUS AVE	COVINA BLVD	ARROW HWY	0	17,785	0.500	0.00	2.22
26	COVINA BLVD	FIRCROFT AVE	CITRUS AVE	0	10,061	0.409	0.00	2.04
27	COVINA BLVD	CITRUS AVE	GRAND AVE	2	10,120	1.000	0.18	2.04
28	COVINA BLVD	GRAND AVE	RIMHURST AVE	0	9,360	0.682	0.00	2.04
29	COVINA BLVD	BONNIE COVE AVE	SUNFLOWER AVE	0	6,972	0.500	0.00	2.04
30	COVINA HILLS RD	GRAND AVE	RANCHO LA CARLOTA RD	1	3,546	1.000	0.26	2.21
31	CYPRESS ST	LEAF AVE	HOLLENBECK AVE	1	15,171	0.909	0.07	2.04
32	CYPRESS ST	HOLLENBECK AVE	CITRUS AVE	0	13,466	0.500	0.00	2.04
33	CYPRESS ST	CITRUS AVE	BARRANCA AVE	0	10,346	0.500	0.00	2.04
34	CYPRESS ST	BARRANCA AVE	GRAND AVE	0	9,136	0.500	0.00	2.04

**Table 3
Collision Rates**

No.	Street	From	To	Midblock Collisions (3 Years)	ADT*	Approx. Length of Segment (mi)	Calculated Accident Rate (Acc/MVM**)	Statewide Accident Rate*** (Acc/MVM)
35	CYPRESS ST	GRAND AVE	GLENDORA AVE	0	9,670	0.500	0.00	2.04
36	CYPRESS ST	GLENDORA AVE	BONNIE COVE AVE	0	8,773	0.500	0.00	2.04
37	CYPRESS ST	BONNIE COVE AVE	SUNFLOWER AVE	1	8,452	0.500	0.22	2.04
38	GLENDORA AVE	PUENTE ST	RUDDOCK ST	0	8,258	0.500	0.00	2.04
39	GLENDORA AVE	RUDDOCK ST	CYPRESS ST	0	9,536	0.409	0.00	2.04
40	GLENDORA AVE	CYPRESS ST	COVINA BLVD	0	9,647	0.250	0.00	2.04
41	GLENDORA AVE	COVINA BLVD	CIENEGA AVE	0	10,846	0.273	0.00	2.04
42	GRAND AVE	WALNUT CREEK RD	PUENTE ST	0	36,098	0.545	0.00	1.45
43	GRAND AVE	PUENTE ST	SAN BERNARDINO RD	3	27,270	0.591	0.17	2.22
44	GRAND AVE	SAN BERNARDINO RD	COVINA BLVD	4	28,913	0.545	0.24	2.22
45	GRAND AVE	COVINA BLVD	ARROW HWY	0	25,922	0.455	0.00	2.22
46	HOLLENBECK AVE	SOUTH CITY LIMITS	ROWLAND AVE	0	15,288	0.273	0.00	2.04
47	HOLLENBECK AVE	ROWLAND AVE	BADILLO ST	0	17,085	0.500	0.00	2.04
48	HOLLENBECK AVE	BADILLO ST	EDNA PL	0	18,408	0.455	0.00	2.21
49	HOLLENBECK AVE	COVINA BLVD	ARROW HWY	1	14,085	0.500	0.13	2.04
50	HOLT AVE	I-10 FREEWAY	VIA VERDE	0	3,929	0.318	0.00	1.29
51	LARK ELLEN AVE	GROVECENTER ST	EDNA PL	0	16,475	0.500	0.00	2.04

**Table 3
Collision Rates**

No.	Street	From	To	Midblock Collisions (3 Years)	ADT*	Approx. Length of Segment (mi)	Calculated Accident Rate (Acc/MVM**)	Statewide Accident Rate*** (Acc/MVM)
52	PUENTE ST	ARMEL DR	HOLLENBECK AVE	1	9,132	0.227	0.44	2.21
53	PUENTE ST	HOLLENBECK AVE	CITRUS AVE	0	8,632	0.500	0.00	2.21
54	PUENTE ST	CITRUS AVE	BARRANCA AVE	1	5,379	0.500	0.34	2.21
55	PUENTE ST	BARRANCA AVE	GRAND AVE	0	5,603	0.500	0.00	2.04
56	PUENTE ST	GRAND AVE	GLENDORA AVE	0	5,699	0.500	0.00	2.04
57	PUENTE ST	GLENDORA AVE	SHOUSE AVE	0	1,478	0.114	0.00	2.21
58	PUENTE ST	REEDER AVE	RANCHO CORTO DR	0	4,729	0.636	0.00	1.29
59	REEDER AVE	PUENTE ST	OLD BADILLO ST	1	4,992	0.227	0.81	2.21
60	REEDER AVE	OLD BADILLO ST	BADILLO ST	1	4,888	0.227	0.82	1.57
61	REEDER AVE	BADILLO ST	CYPRESS ST	0	2,499	0.455	0.00	2.21
62	ROWLAND AVE	ARMEL DR	CITRUS AVE	0	13,997	0.727	0.00	2.22
63	ROWLAND AVE	CITRUS AVE	BARRANCA AVE	0	12,943	0.500	0.00	2.04
64	ROWLAND AVE	BARRANCA AVE	FORESTDALE AVE	0	9,101	0.273	0.00	2.22
65	SAN BERNARDINO RD	VINCENT AVE	LARK ELLEN AVE	1	15,929	0.500	0.12	2.04
66	SAN BERNARDINO RD	LARK ELLEN AVE	AZUSA AVE	2	18,225	0.500	0.20	2.22
67	SAN BERNARDINO RD	AZUSA AVE	HOLLENBECK AVE	1	14,984	0.545	0.11	2.04
68	SAN BERNARDINO RD	HOLLENBECK AVE	CITRUS AVE	0	11,838	0.500	0.00	2.21

Table 3
Collision Rates

No.	Street	From	To	Midblock Collisions (3 Years)	ADT*	Approx. Length of Segment (mi)	Calculated Accident Rate (Acc/MVM**)	Statewide Accident Rate*** (Acc/MVM)
69	SAN BERNARDINO RD	CITRUS AVE	BARRANCA AVE	0	11,780	0.500	0.00	2.04
70	SAN BERNARDINO RD	BARRANCA AVE	GRAND AVE	0	9,514	0.500	0.00	2.04
71	SECOND AVE	ROWLAND AVE	BADILLO ST	1	8,443	0.500	0.22	2.04
72	SECOND AVE	BADILLO ST	FRONT ST	0	7,579	0.364	0.00	2.04
73	SUNFLOWER AVE	CYPRESS ST	CIENEGA AVE	1	9,503	0.500	0.19	2.04
74	VINCENT AVE	BADILLO ST	EDNA PL	0	18,871	0.455	0.00	2.22
75	WORKMAN AVE	WEST CITY LIMIT	EAST CITY LIMIT W/O CITRUS AVENUE	0	10,639	0.727	0.00	2.21
76	WORKMAN AVE	CITRUS AVE	BARRANCA AVE	0	11,144	0.500	0.00	2.21
77	WORKMAN AVE	BARRANCA AVE	EASTERLY END OF ROAD	0	2,599	0.364	0.00	2.04

APPENDIX C

Survey Equipment

SURVEY EQUIPMENT USED

The radar equipment used to collect speed measurements for this survey were Stalker Dual SL or Stalker DSR manufactured by Applied Concepts of Plano, Texas. The calibration of the units were checked before each series of measurements were taken. Tests of the unit were conducted in accordance with the manufacturer's specifications. The Stalker Dual SL or Stalker DSR radar guns were last calibrated on April 8, 2015 by RHF Inc.



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 4-8-15	Certification Number 68827					
2	DEVICE ID	Make Applied Concepts Counting unit S/N 040154	Model Stalker-Dual SL or DSR Antenna-1 S/N 034081	Type (1-IV) IV	Directional radar <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Same direction <input type="checkbox"/> Yes <input type="checkbox"/> No		
3	§ 2.4 / § 5.4 TUNING FORK CALIBRATION	Low speed fork S/N 212753 High speed fork S/N 318210	Last date calib.	Freq. (Hz)	Speed (mph) 25 40	Measured (Hz) 2614 4166	PASS FAIL	
4	§ 2.5 / § 5.5 RADAR DEVICE TUNING FORK TESTS	Stationary mode Fork speed (mph) 25 Disp. Speed (mph) 25	Lo fork 40 High fork 40	Moving mode Opposite Direction TARGET SPEED (Hi fork - Lo fork) Expected. (mph) 15	Displayed. (mph) 15	Moving mode Same Direction TARGET SPEED (Hi fork + Lo fork Hi fork - Lo fork) Expected. (mph) 65 15	Displayed. (mph) 65 15	PASS FAIL
5	§ 2.6.1 / § 5.6.1 TRANSMISSION FREQUENCY STABILITY	Standard supply Voltage (V) 13.6 V Standard supply Voltage - 20% (V) 10.8 V Standard supply voltage + 20% (V) 16.3 V	Antenna 1 Freq. GHz 34.745 Antenna 1 Freq. GHz 34.745 Antenna 1 Freq. GHz 34.745	Antenna 2 Freq. GHz Antenna 2 Freq. GHz Antenna 2 Freq. GHz/N/A			PASS FAIL	
6	§ 2.6.5 / § 5.6.5 POWER DENSITY	Mfg. Spec. (max mW/cm) ≤ 2	Antenna 1 Power (mW/cm) .55	Antenna 2 Power (mW/cm)			PASS FAIL	
7	§ 2.8 / § 5.8 LOW VOLTAGE	Mfg. spec. (V) ≤ 10.8	LVA activates (V) 8.0	LVA deactivates (V) 9.4			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. PASS	Test results PASS				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. 12 Hi speed spec. 200	Lo speed disp. 12 Hi speed disp. 200	Moving Mode target channel (mph) Low speed spec. 20 Hi speed spec. 200(C)	Lo speed disp. 20 Hi speed disp. 200	Moving Mode: patrol channel (mph) Low speed spec. 15 Hi speed spec. 79	Lo speed disp. 15 Hi speed disp. 79	PASS FAIL
12	§ 2.13 / § 5.13 RFI TEST						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:	Fred Bauman		Date:	4-8-15		
15	INVENTORY	<input type="checkbox"/> Fork Cert <input type="checkbox"/> Manual <input type="checkbox"/> 2 nd Ant. <input type="checkbox"/> Remote <input type="checkbox"/> Battery <input type="checkbox"/> Carrying Case <input type="checkbox"/> Other: (please list)						



16202 Keats Circle
Westminster, Calif. 92683

TRAFFIC RADAR CERTIFICATION

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(NHTSA) National Highway and Traffic Safety Administration.
(IACP) International Association of Chiefs of Police.

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

1	TEST ID	Date Received 4-8-15	Certification Number 68828				
2	DEVICE ID	Make Applied Concepts	Model Stalker-Dual SL or DSR	Type (1-IV) IV	Directional radar <input type="checkbox"/> Yes <input type="checkbox"/> No	Same direction <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		Counting unit S/N 040495	Antenna-1 S/N 031661	Antenna-2 S/N			
3	§ 2.4 / § 5.4 TUNING FORK CALIBRATION	Low speed fork S/N 213518	Last date calib.	Freq. (Hz)	Speed (mph) 25	Measured (Hz) 2617	(PASS) FAIL
		High speed fork S/N 318211	Last date calib.	Freq. (Hz)	Speed (mph) 40	Measured (Hz) 4184	
4	§ 2.5 / § 5.5 RADAR DEVICE TUNING FORK TESTS	Stationary mode		Lo fork	High fork		(PASS) FAIL
		Fork speed (mph)		25	40		
		Disp. Speed (mph)		25	40		
		Moving mode Opposite Direction	TARGET SPEED (Hi fork - Lo fork)	Expected. (mph) 15	Displayed. (mph) 15		
		Moving mode Same Direction	TARGET SPEED Hi fork + Lo fork Hi fork - Lo fork	Expected. (mph) 65 15	Displayed. (mph) 65 15		
5	§ 2.6.1 / § 5.6.1 TRANSMISSION FREQUENCY STABILITY	Standard supply Voltage (V) 13.6 V	Antenna 1 Freq. GHz 34.727	Antenna 2 Freq. GHz			(PASS) FAIL
		Standard supply Voltage - 20% (V) 10.8 V	Antenna 1 Freq. GHz 34.727	Antenna 2 Freq. GHz			
		Standard supply voltage + 20% (V) 16.3 V	Antenna 1 Freq. GHz 34.727	Antenna 2 Freq. GHz/N/A			
6	§ 2.6.5 / § 5.6.5 POWER DENSITY	Mfg. Spec. (max mW/cm) ≤ 2	Antenna 1 Power (mW/cm) 1.2	Antenna 2 Power (mW/cm)			(PASS) FAIL
7	§ 2.8 / § 5.8 LOW VOLTAGE	Mfg. spec. (V) ≤ 10.8	LVA activates (V) 7.9	LVA deactivates (V) 8.5			(PASS) FAIL
8	§ 2.9.1 / § 5.9.1 DOPPLER AUDIO	A. Audio tone correlates with received Doppler signal <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				(PASS) FAIL	
		B. Functioning audio volume-adjustment control <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
9	§ 2.12.4 / § 5.12.4 INTERNAL CIRCUIT	Mfg. Spec. PASS	Test results PASS				(PASS) FAIL
10	§ 2.12.6.5 / § 5.12.6.5 DIRECTIONAL	A. Selects only targets moving towards radar <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A.				(PASS) FAIL	
		B. Selects only targets moving away from radar <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A.					
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. 12	Lo speed disp. 12			(PASS) FAIL
			Hi speed spec. 200	Hi speed disp. 200			
		Moving Mode target channel (mph)	Low speed spec. 20	Lo speed disp. 20			
			Hi speed spec. 200(C)	Hi speed disp. 200			
		Moving Mode: patrol channel (mph)	Low speed spec. 15	Lo speed disp. 15			
			Hi speed spec. 79	Hi speed disp. 79			
12	§ 2.13 / § 5.13 RFI TEST						(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: <i>Fred Bauman</i>			Date: 4-8-15		
15	INVENTORY	<input type="checkbox"/> Fork Cert <input type="checkbox"/> Manual <input type="checkbox"/> 2 nd Ant. <input type="checkbox"/> Remote <input type="checkbox"/> Battery <input type="checkbox"/> Carrying Case <input type="checkbox"/> Other: (please list)					



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.

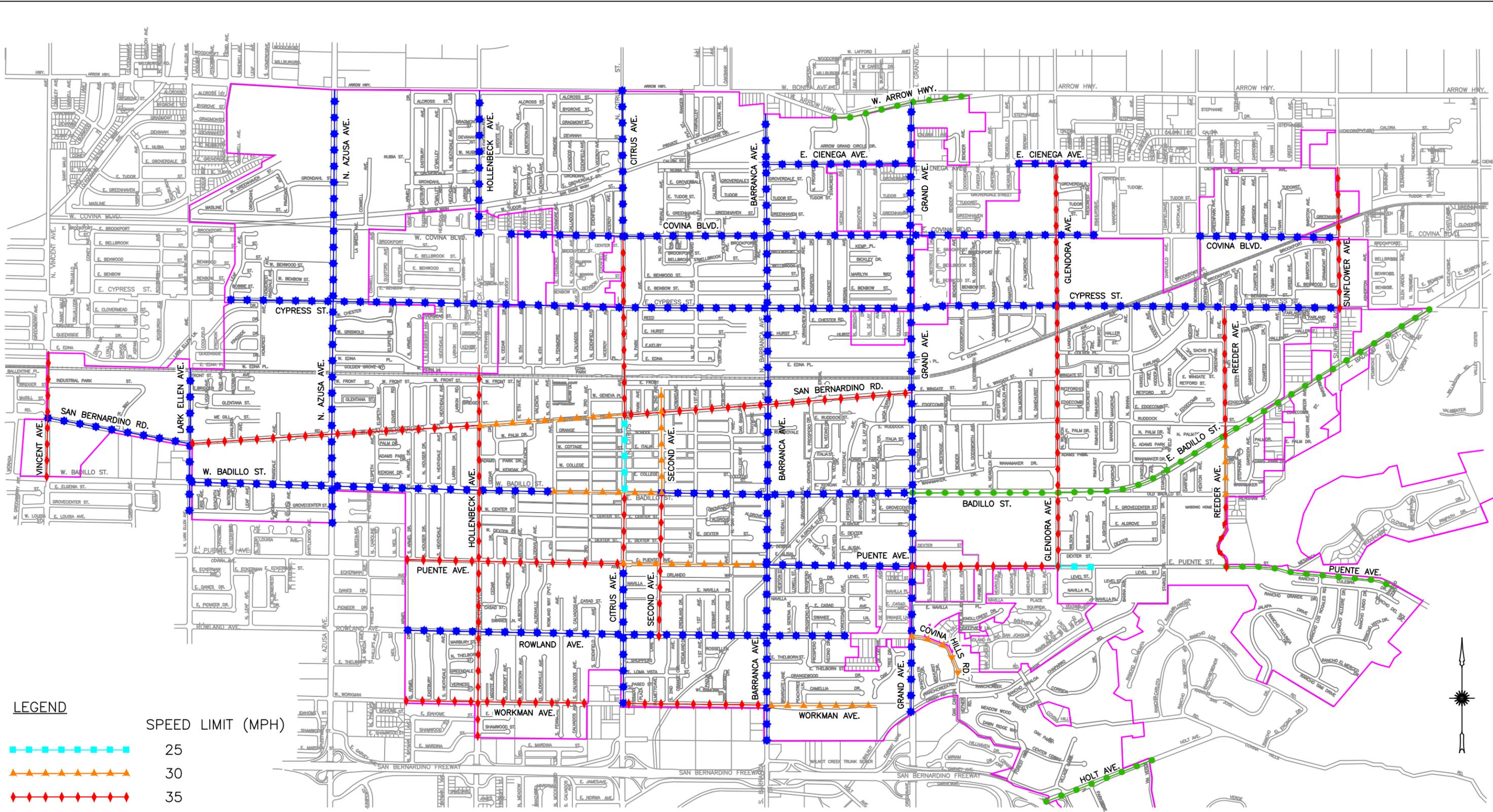
16202 Keats Circle
 Westminster, Calif. 92683

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

1	TEST ID	Date Received 4-8-15	Certification Number 68829					
2	DEVICE ID	Make Applied Concepts	Model Stalker-Dual SL or DSR	Type (I-IV) IV	Directional radar <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Same direction <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Counting unit S/N 040191	Antenna-1 S/N 031301	Antenna-2 S/N				
3	§ 2.4 / § 5.4 TUNING FORK CALIBRATION	Low speed fork S/N 213520	Last date calib.	Freq. (Hz)	Speed (mph) 25	Measured (Hz) 2616	(PASS) FAIL	
		High speed fork S/N 318209	Last date calib.	Freq. (Hz)	Speed (mph) 40	Measured (Hz) 4165		
4	§ 2.5 / § 5.5 RADAR DEVICE TUNING FORK TESTS			Lo fork	High fork			
	Stationary mode	Fork speed (mph)	25	40				
		Disp. Speed (mph)	25	40				
	Moving mode Opposite Direction	TARGET SPEED (Hi fork - Lo fork)	Expected. (mph) 15	Displayed. (mph) 15			(PASS) FAIL	
	Moving mode Same Direction	TARGET SPEED (Hi fork + Lo fork Hi fork - Lo fork)	Expected. (mph) 65 15	Displayed. (mph) 65 15				
5	§ 2.6.1. / § 5.6.1 TRANSMISSION FREQUENCY STABILITY	Standard supply Voltage (V) 13.6 V	Antenna 1 Freq. GHz 34.745	Antenna 2 Freq. GHz			(PASS) FAIL	
		Standard supply Voltage - 20% (V) 10.8 V	Antenna 1 Freq. GHz 34.745	Antenna 2 Freq. GHz				
		Standard supply voltage + 20% (V) 16.3 V	Antenna 1 Freq. GHz 34.745	Antenna 2 Freq. GHz N/A				
6	§ 2.6.5 / § 5.6.5 POWER DENSITY	Mfg. Spec. (max mW/cm) ≤ 2	Antenna 1 Power (mW/cm) 0.66	Antenna 2 Power (mW/cm)			(PASS) FAIL	
7	§ 2.8 / § 5.8 LOW VOLTAGE	Mfg. spec. (V) ≤ 10.8	LVA activates (V) 7.8	LVA deactivates (V) 9.1			(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. PASS	Test results PASS				(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. 12 Hi speed spec. 200	Lo speed disp. 12 Hi speed disp. 200			(PASS) FAIL	
		Moving Mode target channel (mph)	Low speed spec. 20 Hi speed spec. 200(C)	Lo speed disp. 20 Hi speed disp. 200				
		Moving Mode: patrol channel (mph)	Low speed spec. 15 Hi speed spec. 79	Lo speed disp. 15 Hi speed disp. 79				
12	§ 2.13 / § 5.13 RFI TEST						(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:	Fred Bauman		Date:	4-8-15		
15	INVENTORY	<input type="checkbox"/> Fork Cert	<input type="checkbox"/> Manual	<input type="checkbox"/> 2 nd Ant.	<input type="checkbox"/> Remote	<input type="checkbox"/> Battery		
		<input type="checkbox"/> Carrying Case	<input type="checkbox"/> Other: (please list)					

APPENDIX D

Recommended Speed Limit Map



LEGEND

	25
	30
	35
	40
	45
	CITY LIMITS

PLANS PREPARED BY:
WILLDAN Engineering
 13191 CROSSROADS PARKWAY NORTH
 SUITE 405 INDUSTRY, CA 91746-3497
 (562) 908-6200

CITY OF COVINA
 2016 ENGINEERING AND
 TRAFFIC SURVEY
 RECOMMENDED SPEED LIMIT MAP

