

October 9, 2015

Mr. Jesus "Freddie" Olmos ECORP CONSULTING, INC. 215 North 5th Street Redlands, CA 92374

SUBJECT: RIVER WILDERNESS PARK ENTRY IMPROVEMENTS FOCUSED TRAFFIC ASSESSMENT

Dear Mr. Jesus "Freddie" Olmos:

The firm of Urban Crossroads, Inc. is pleased to submit this Focused Traffic Assessment for the River Wilderness Park Entry Improvements (referred to as "Project"), which is located along State Route 39 (SR-39) on the northern boundary of the City of Azusa, as shown on Exhibit 1-A.

The purpose of this assessment is to provide trip generation estimates for the proposed Project and evaluate the proposed roundabout at the intersection of SR-39 and Old San Gabriel Canyon Road for Existing (2015), Existing plus Project (E+P), Opening Year (2021) and Opening Year (2028) Without and With Project traffic conditions. In addition, the intersection sight distance and stopping sight distance at the proposed roundabout has also been evaluated.

SUMMARY OF FINDINGS

The Project is anticipated to generate a total of 640 trips per day with approximately 26 AM peak hour trips and 52 PM peak hour trips.

Operations analysis has been performed for the proposed roundabout based on Existing (2015) and Existing plus Project peak hour traffic volumes using SIDRA Intersection 6 software using Highway Capacity Manual (HCM) 2010 methodology. In addition lane capacities were adjusted based on A and B factors per the Caltrans *Roundabout Geometric Design Guidance, Final Report* (June 2007). Based on the results of this analysis, the proposed roundabout is anticipated to operate at LOS "A" during both AM and PM peak hours for Existing (2015), Existing plus Project (E+P), Opening Year (2021) and Opening Year (2028) Without and With Project traffic conditions.

Intersection and stopping sight distance have been evaluated for the proposed roundabout based on guidance in Report 672 *Roundabouts: An Informational Guide (Second Edition)* published by the NCHRP and the FHWA. It is recommended that no more than the minimum required intersection sight distance be provided on each approach. Landscaping can be effective in restricting sight distance to the minimum requirements. Adequate visibility for vehicular and pedestrian traffic should be provided at the intersection by limiting sight obstructions within the limited use are. Any landscaping within the limited use area should not exceed 3.5 feet in height

Mr. Jesus "Freddie" Olmos ECORP CONSULTING, INC. October 9, 2015 Page 2 of 10

for intersection sight distance and 2 feet for stopping sight distance. The limited use area should be kept clear of any landscaping or any other obstructions that may impede the visibility of the driver.

PROJECT OVERVIEW

The Azusa River Wilderness Park (Park) is envisioned as an 89-acre park along State Route 39 (SR-39) on the northern boundary of the City of Azusa. The Park consists of several parcels acquired by the Water Conservation Authority (WCA) through agreements with the Rivers and Mountains Conservancy (RMC) and the City of Azusa, along SR-39 and the San Gabriel River. The Azusa River Wilderness Park area consists of five separate parcels (El Encanto Property, Taylor Property, Rainbow Ranch Equestrian Facility, Canyon Inn Property, and a private parcel south of the Canyon Inn Property). These parcels were acquired with the overall goal of developing them into a park resource that would help enhance flood protection, water supply, natural habitat, recreation, open space, and economic development.

In November of 2008, the WCA acquired the approximately 32-acre Canyon Inn Property as part of the Azusa River Wilderness Park. The Azusa River Wilderness Park would encompass the Canyon Inn Property as well as adjacent properties under WCA ownership and be developed with the intent to provide a better outdoor visitor experience while restoring natural habitats and increasing trail access and educational experiences. The proposed Project would involve improvements to the 32-acre Canyon Inn Property and would be part of the Canyon Inn River Wilderness Park Site Programming, Planning, & Concept Report (Report). The Proposed Project would help achieve the conceptual goals of the Report to expand and improve the existing facilities while restoring and reusing the area's natural features. The proposed Project would improve the entry to the Azusa River Wilderness Park within the 32-acre Canyon Inn Property as shown on Exhibit 1-B. The Project would include constructing a roundabout, extending the San Gabriel River Bike Trail and Old San Gabriel Canyon Road, installing new utility lines (water and sewer), and building new park amenities. The Project would provide a gateway into the Azusa River Wilderness Park that would be open to visitors of the San Gabriel Mountains and Angeles National Forest. The Project would also help serve as a regional connection to the Rio Hondo and the Los Angeles River in addition to serving as a local connection to the San Gabriel River Bike Trail, Fish Canyon Trail, Forest Service station, Robert Creek Trail, Garcia Trail, and Glendora Ridge Motorway. The Project amenities is anticipated to be added in phases. Opening Year 2021 (interim) and Opening Year 2028 (build-out) have been considered for the purposes of this traffic analysis.

EXISTING (2015) TRAFFIC VOLUMES

Manual AM and PM peak hour turning movement counts were conducted at the intersection of SR-39 / Old San Gabriel Canyon Road in May 2015. The raw manual peak hour turning movement



Mr. Jesus "Freddie" Olmos ECORP CONSULTING, INC. October 9, 2015 Page 3 of 10

and ADT traffic count data sheets are included in Attachment "A". Existing (2015) ADT, AM and PM peak hour intersection volumes are shown on Exhibit 2.

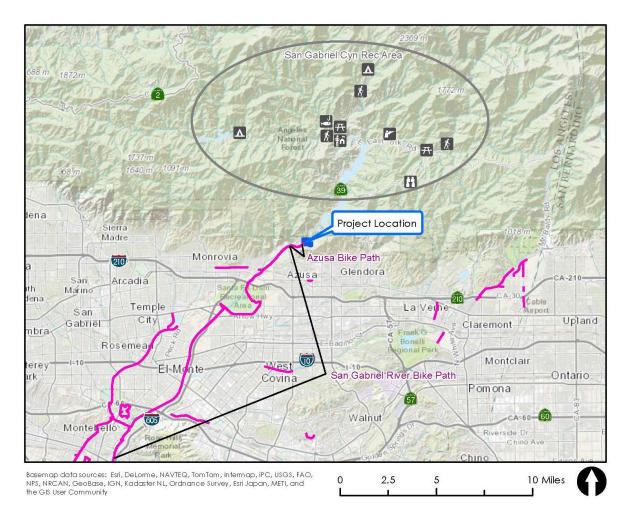


EXHIBIT 1-A LOCATION MAP



Mr. Jesus "Freddie" Olmos ECORP CONSULTING, INC. October 9, 2015 Page 4 of 10



EXHIBIT 1-B SITE PLAN

PROJECT TRIP GENERATION AND DISTRIBUTION

Trip generation represents the amount of traffic which is both attracted to and produced by a development. The proposed Project site will consist of approximately 32 acre Regional Park. Traffic generation rates for the proposed Project have been derived from (Not So) Brief Guide of Vehicular Traffic General Rates for the San Diego Region (April 2002) published by San Diego association of Governments (SANDAG). The trip generation rates used for this analysis are shown in Table 1. The rates published by SANDAG are more conservative compared to rates in ITE Trip Generation manual. As such, trip generation rates published by SANDAG have been used to provide a conservative estimate for Project trips.

A summary of the proposed Project's trip generation is also shown on Table 1. The Project is anticipated to generate a total of 640 trips per day with approximately 26 AM peak hour trips and 52 PM peak hour trips.

Based on existing travel patterns and roadway network, the Project trip distribution was estimated to be 95% to the south on SR-39 and 5% to the north on SR-39.



Mr. Jesus "Freddie" Olmos ECORP CONSULTING, INC. October 9, 2015 Page 5 of 10

TABLE 1: PROJECT TRIP GENERATION

Project Trip Generation Rates

| | | ITE LU | AM Peak Hour | | | PM Peak Hour | | | Daily |
|--|--------------------|-----------|--------------|----------|-------|--------------|----------|-------|-------|
| Land Use | Units ¹ | Code | Inbound | Outbound | Total | Inbound | Outbound | Total | Daliy |
| Regional Park (Developed) ² | AC | N/A | 0.40 | 0.40 | 0.80 | 0.80 | 0.80 | 1.60 | 20.00 |

Park Trip Generation Summary

| | | | AM Peak Hour | | | PM Peak Hour | | | Deilu |
|--|----------|-------|--------------|----------|-------|--------------|----------|-------|-------|
| Land Use ¹ | Quantity | Units | Inbound | Outbound | Total | Inbound | Outbound | Total | Daily |
| Regional Park (Developed) ² | 32 | AC | 13 | 13 | 26 | 26 | 26 | 52 | 640 |

¹ AC = Acres

² Rates from (Not So) Brief Guide of Vehicular Traffic Generation for San Diego Region (SANDAG, April 2002) used.

EXISTING PLUS PROJECT TRAFFIC VOLUMES

The Existing plus Project (E+P) traffic volumes were derived by adding the Project traffic to Existing (2015) volumes. E+P ADT, AM and PM peak hour intersection volumes are shown on Exhibit 3.

OPENING YEAR (2021) AND OPENING YEAR (2028) TRAFFIC VOLUMES

Future year traffic forecasts have been based upon background (ambient) growth at 2% per year for 2021 and 2028 traffic conditions. The ambient growth factor is intended to approximate regional traffic growth. This ambient growth rate is added to existing traffic volumes to account for area-wide growth. Ambient growth has been added to daily and peak hour traffic volumes on surrounding roadways.

According to information published by the Riverside County Information Technology GIS staff as input to the Southern California Association of Governments (SCAG) Regional Transportation Plan (2012), the population of City of Azusa is projected to increase by 16.2% in the period between 2010 and 2035, a compounded rate of approximately 0.56% annually. During the same period, employment in Western Riverside County is expected to increase by 5.7% or 0.2% compounded annually.

The annual growth rate utilized for the purposes of this analysis would appear to conservatively approximate the anticipated regional growth in traffic volumes in the City of Azusa for Opening Year (2021) and Opening Year (2028) traffic conditions, especially considering less than 1% annual growth anticipated for the region. As such, the growth in traffic volumes assumed in this traffic



Mr. Jesus "Freddie" Olmos ECORP CONSULTING, INC. October 9, 2015 Page 6 of 10

analysis would tend to overstate as opposed to understate the potential impacts to traffic and circulation.

Opening Year (2021) Without Project ADT, AM and PM peak hour intersection volumes are shown on Exhibit 4.

Opening Year (2021) With Project ADT, AM and PM peak hour intersection volumes are shown on Exhibit 5.

Opening Year (2028) Without Project ADT, AM and PM peak hour intersection volumes are shown on Exhibit 6.

Opening Year (2028) With Project ADT, AM and PM peak hour intersection volumes are shown on Exhibit 7.

ROUNDABOUT PARAMETERS

The operational analysis for the roundabout was based on the following design parameters:

- Single lane roundabout (one circulatory lane).
- One approach and one exit lane on all legs of the roundabout.
- Inscribed Circle Diameter (ICD) of 130 feet.
- Circulatory Roadway Width of 20 feet.
- The heavy vehicle percentage based on existing counts was nominal. However, a 2% heavy vehicle percentage was applied on all approaches to provide a conservative analysis.
- Peak Hour Factor (PHF) was based on existing counts for both AM and PM peak hours.
- Capacity model calibrated to California data based on the Caltrans Roundabout Geometric Design Guidance to include the following A and B parameters:

A = 1440 for single-lane; 1640 for multilane.

B = 0.0010 for single-lane; 0.0009 for multilane.

CAPACITY ANALYSIS

Operational performance of the proposed roundabout was then evaluated for Existing (2015), E+P, Opening Year (2021) and Opening Year (2028) Without and With Project traffic conditions using the SIDRA Intersection 6 software. SIDRA uses a "gap acceptance" model that predicts operations based on theoretical gap characteristics. SIDRA uses a bunched exponential model for



emulating gap acceptance, and also provides delay and LOS results based on HCM 2010 methodology.

Table 2 summarizes the level of service and operational performance for Existing (2015) volumes.

 TABLE 2: EXISTING (2015) ROUNDABOUT LOS AND OPERATIONAL PERFORMANCE

| | E۶ | kisting | (2015) A | AM Peak | E | xisting | (2015) F | PM Peak |
|-------------------------|-------|---------|----------|--------------|-------|---------|----------|--------------|
| | South | East | North | Intersection | South | East | North | Intersection |
| Average Delay (sec.) | 3.0 | 2.8 | 2.7 | 3.0 | 2.8 | 2.7 | 3.0 | 2.9 |
| LOS | А | А | А | А | А | А | А | А |

Based on the results of this analysis, the proposed roundabout is anticipated to operate at LOS "A" during AM and PM peak hours with Existing (2015) volumes.

The SIDRA output worksheets with Existing (2015) traffic volumes are included in Attachment "B".

Table 3 summarizes the level of service and operational performance for E+P volumes.

| | | E+ | P AM Pe | eak | | E+ | P PM Pe | ak |
|-------------------------|-------|------|---------|--------------|-------|------|---------|--------------|
| | South | East | North | Intersection | South | East | North | Intersection |
| Average Delay (sec.) | 3.1 | 2.9 | 2.7 | 3.0 | 2.9 | 2.9 | 3.1 | 3.0 |
| LOS | А | А | А | А | Α | Α | А | А |

TABLE 3: E+P ROUNDABOUT LOS AND OPERATIONAL PERFORMANCE

Based on the results of this analysis, the proposed roundabout is anticipated to operate at LOS "A" during AM and PM peak hours with E+P volumes.

The SIDRA output worksheets with E+P traffic volumes are included in Attachment "C".



Mr. Jesus "Freddie" Olmos ECORP CONSULTING, INC. October 9, 2015 Page 8 of 10

Table 4 summarizes the level of service and operational performance for Opening Year (2021) volumes.

| | 2021 | L Witho | out Proje | ect AM peak | 2021 | Witho | ut Proje | ct PM Peak |
|-------------------------|-------|---------|-----------|--------------|-------|---------|-----------|--------------|
| | South | East | North | Intersection | South | East | North | Intersection |
| Average Delay (sec.) | 3.1 | 2.9 | 2.7 | 3.0 | 2.8 | 2.7 | 3.1 | 2.9 |
| LOS | А | А | А | А | А | А | А | А |
| | 202 | 21 Wit | h Projec | t AM Peak | 202 | 21 Witł | n Project | : PM Peak |
| | South | East | North | Intersection | South | East | North | Intersection |
| Average Delay (sec.) | 3.2 | 3.0 | 2.7 | 3.1 | 2.9 | 2.9 | 3.2 | 3.0 |
| LOS | А | Α | А | А | Α | А | А | А |

TABLE 4: OPENING YEAR (2021) ROUNDABOUT LOS AND OPERATIONAL PERFORMANCE

Based on the results of this analysis, the proposed roundabout is anticipated to operate at LOS "A" during AM and PM peak hours with Opening Year (2021) Without and With Project volumes.

The SIDRA output worksheets with Opening Year (2021) Without and With traffic volumes are included in Attachment "D".

Table 4 summarizes the level of service and operational performance for Opening Year (2021) volumes.

| | 2028 | 8 With | out Proje | ect AM peak | 2028 | Witho | out Proje | ct PM Peak |
|-------------------------|--------------|----------------|-------------------|---------------------------|--------------|-----------------|--------------------|-------------------------|
| | South | East | North | Intersection | South | East | North | Intersection |
| Average Delay (sec.) | 3.2 | 2.9 | 2.7 | 3.1 | 2.8 | 2.7 | 3.1 | 3.0 |
| LOS | А | А | А | А | А | А | А | А |
| | | | | | | | | |
| | 202 | 28 Wit | h Projec | t AM Peak | 202 | 28 With | n Project | PM Peak |
| | 202 South | 28 Wit East | h Projec North | t AM Peak Intersection | 202 South | 28 With East | n Project North | PM Peak Intersection |
| Average Delay (sec.) | | | | | | 1 | | |

TABLE 5: OPENING YEAR (2028) ROUNDABOUT LOS AND OPERATIONAL PERFORMANCE



Mr. Jesus "Freddie" Olmos ECORP CONSULTING, INC. October 9, 2015 Page 9 of 10

Based on the results of this analysis, the proposed roundabout is anticipated to operate at LOS "A" during AM and PM peak hours with Opening Year (2028) Without and With Project volumes.

The SIDRA output worksheets with Opening Year (2028) Without and With traffic volumes are included in Attachment "E".

SIGHT DISTANCE

Intersection and stopping sight distance have been evaluated for the proposed roundabout based on guidance in Report 672 *Roundabouts: An Informational Guide (Second Edition)* published by the NCHRP and the FHWA and *A Policy on Geometric Design of Highways and Street (AASHTO "Green Book").*

Per AASHTO "Green Book", the limited use area is determined using an assumed height of driver's eye of 3.5 feet and an assumed height of object of 3.5 feet for intersection sight distance and an assumed height of object of 2 feet for stopping sight distance. It shall be used for the purpose of prohibiting or clearing obstructions in order to maintain adequate sight distance at intersections.

The intersection sight distances for eastbound, northbound and westbound approaches are shown on Exhibits 8, 9 and 10, respectively. It is recommended that no more than the minimum required intersection sight distance be provided on each approach. Landscaping can be effective in restricting sight distance to the minimum requirements.

The stopping sight distance at the road leading to existing Taylor House and Highway 39 is shown on Exhibit 11. The stopping sight distance at Old San Gabriel Canyon Road and SR-39 is shown on Exhibit 12.

Adequate visibility for vehicular and pedestrian traffic should be provided at the intersection by limiting sight obstructions within the limited use are. Any landscaping within the limited use area should not exceed 3.5 feet in height for intersection sight distance and 2 feet for stopping sight distance. The limited use area should be kept clear of any landscaping or any other obstructions that may impede the visibility of the driver.

At ABC Road (to the Taylor House), there are major sight line concerns, especially with the proposal for having school buses access this roadway. It appears as though this would be unsafe, and alternate route for the school buses is recommended. The limited use areas for this driveway include the hills where it would be physically challenging to not have obstruction higher than 2 feet to provide adequate line of sight.



Mr. Jesus "Freddie" Olmos ECORP CONSULTING, INC. October 9, 2015 Page 10 of 10

If you have any questions, please contact me directly at (949) 660-1994, extension 205.

Respectfully submitted,

URBAN CROSSROADS, INC.

Pranesh Tarikere, PE Senior Engineer

Attachments

Haseeb Qureshi Senior Associate



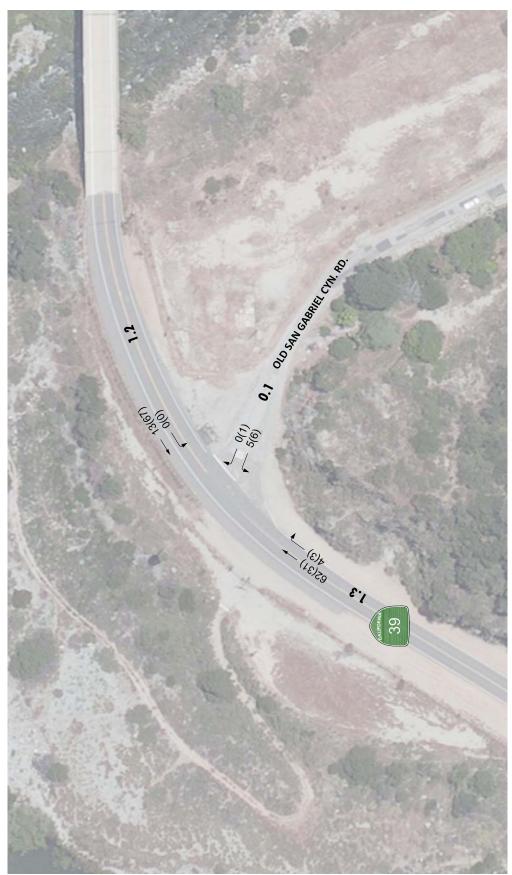


EXHIBIT 2: EXISTING (2015) TRAFFIC VOLUMES

LEGEND:

- 10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES 10.0 VEHICLES PER DAY (1000'S)





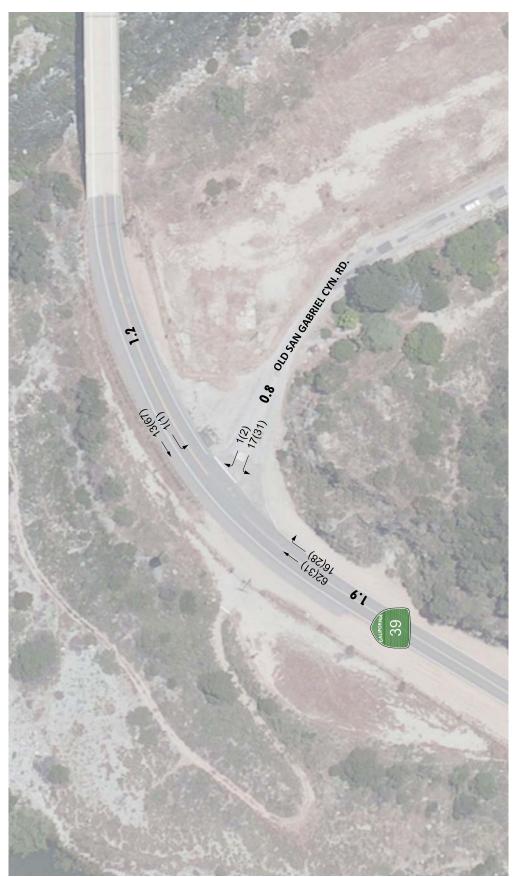


EXHIBIT 3: EXISTING PLUS PROJECT TRAFFIC VOLUMES

LEGEND:

- 10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES 10.0 VEHICLES PER DAY (1000'S)
- 09321 volumes.dwg



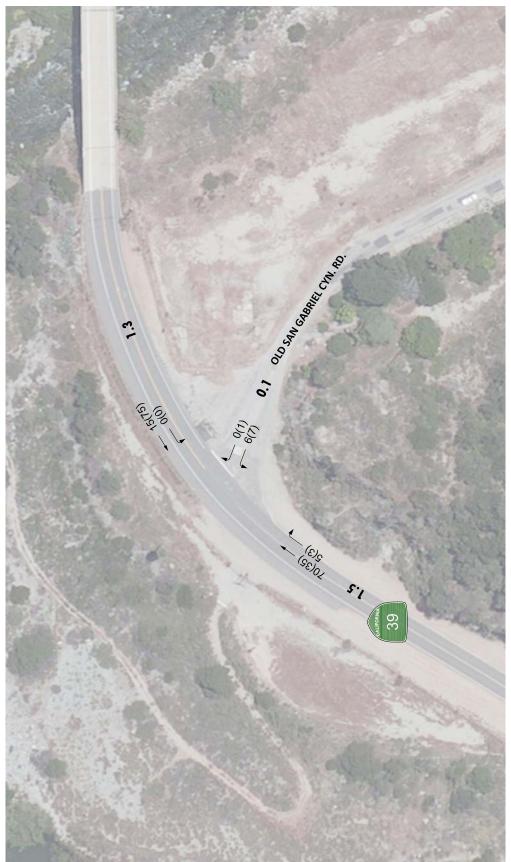


EXHIBIT 4: OPENING YEAR (2021) WITHOUT PROJECT TRAFFIC VOLUMES

LEGEND:

- 10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES 10.0 VEHICLES PER DAY (1000'S)
- 09321 volumes.dwg



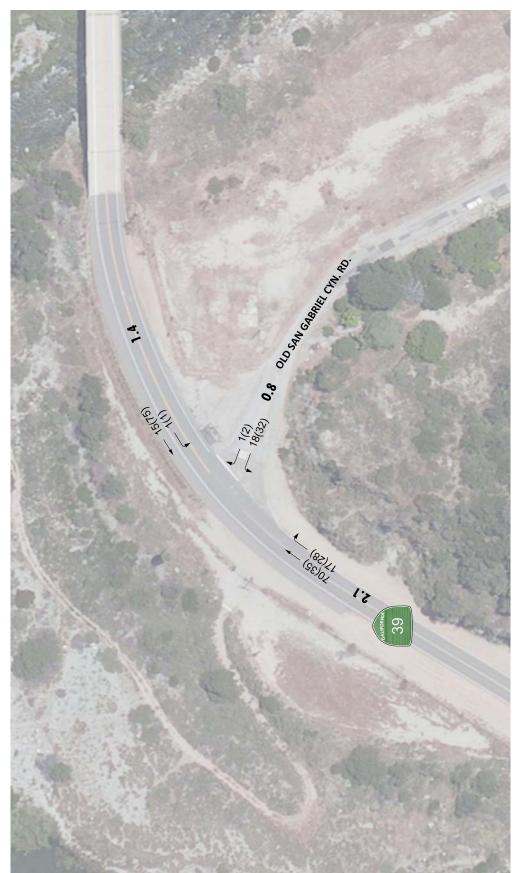
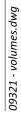


EXHIBIT 5: OPENING YEAR (2021) WITH PROJECT TRAFFIC VOLUMES



- 10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES 10.0 VEHICLES PER DAY (1000'S)





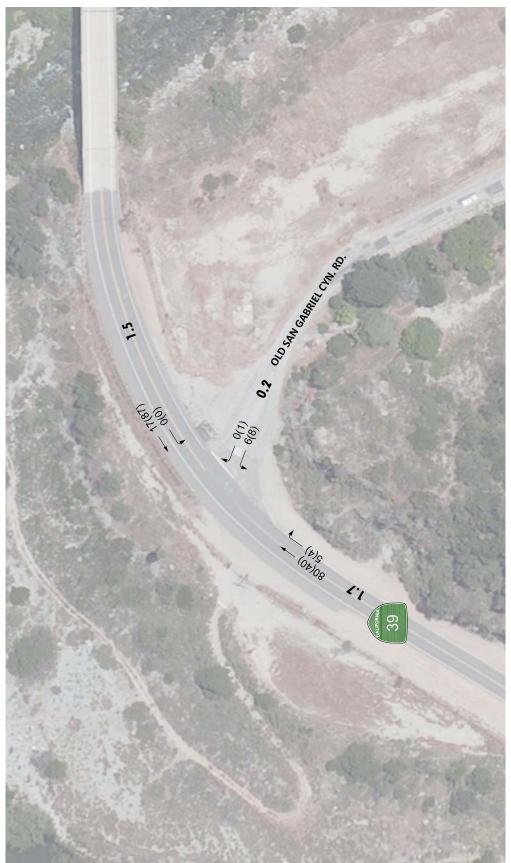


EXHIBIT 6: OPENING YEAR (2028) WITHOUT PROJECT TRAFFIC VOLUMES

LEGEND:

- 10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES 10.0 VEHICLES PER DAY (1000'S)

09321 - volumes.dwg



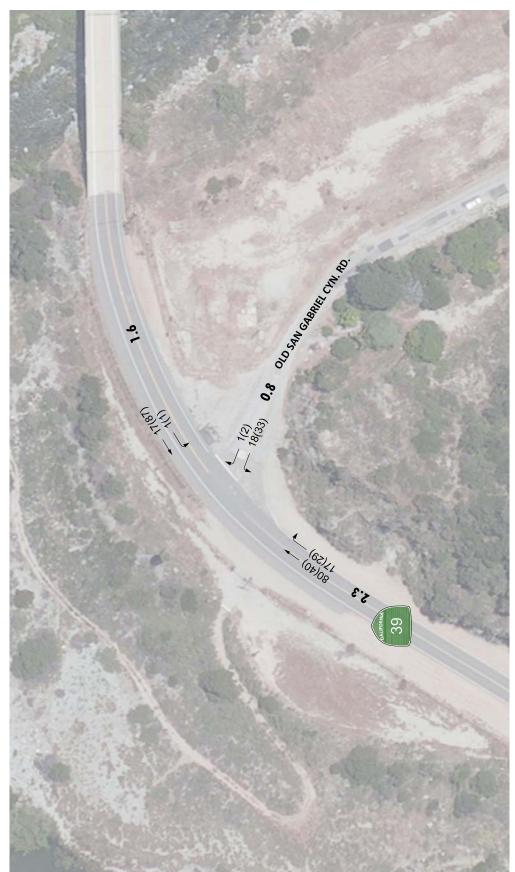


EXHIBIT 7: OPENING YEAR (2028) WITH PROJECT TRAFFIC VOLUMES



- 10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES 10.0 VEHICLES PER DAY (1000'S)





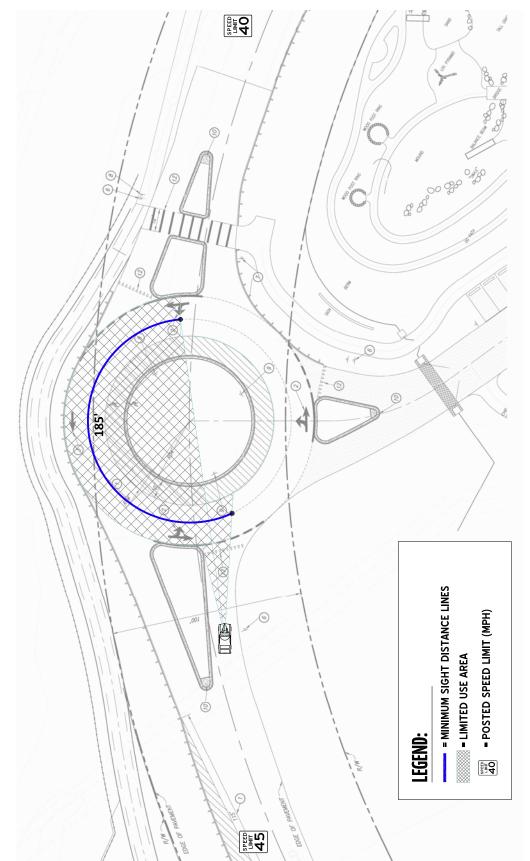


EXHIBIT 8: ROUNDABOUT EASTBOUND SIGHT DISTANCE

09321 - roundabout-sd2.dwg

2

NOTE: ASSUMES A 25 MPH APPROACH/CIRCULATING SPEED

50

GRAPHIC SCALE 25

C

1"=50'



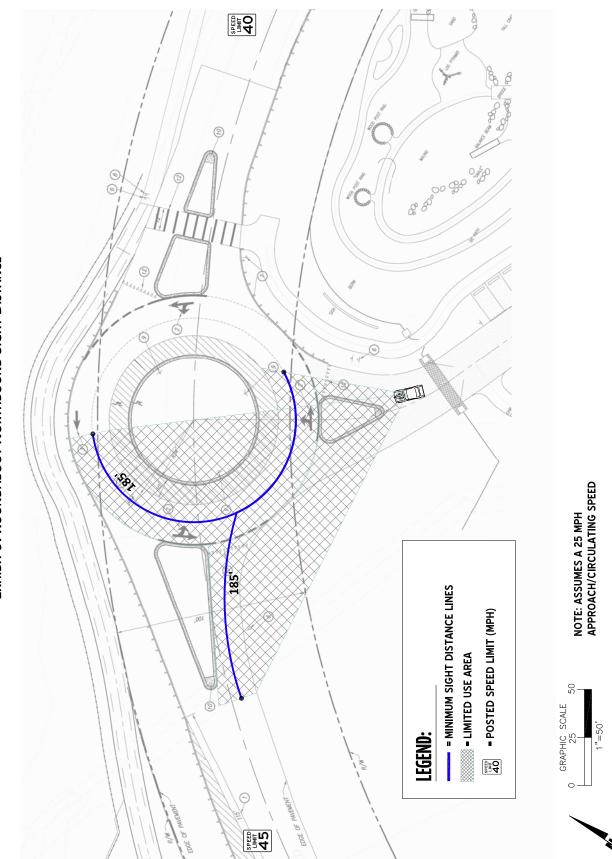


EXHIBIT 9: ROUNDABOUT NORTHBOUND SIGHT DISTANCE

09321 - roundabout-sd2.dwg

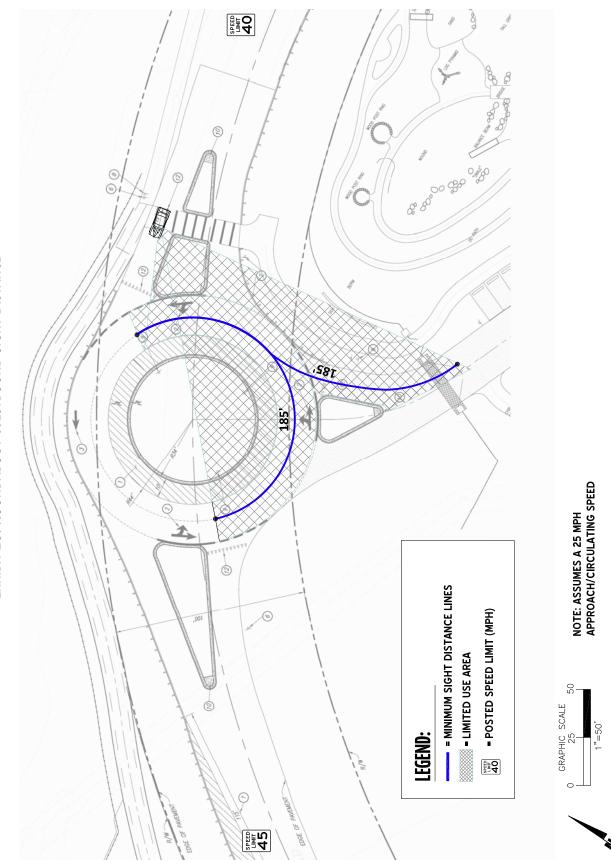


EXHIBIT 10: ROUNDABOUT WESTBOUND SIGHT DISTANCE

09321 - roundabout-sd2.dwg

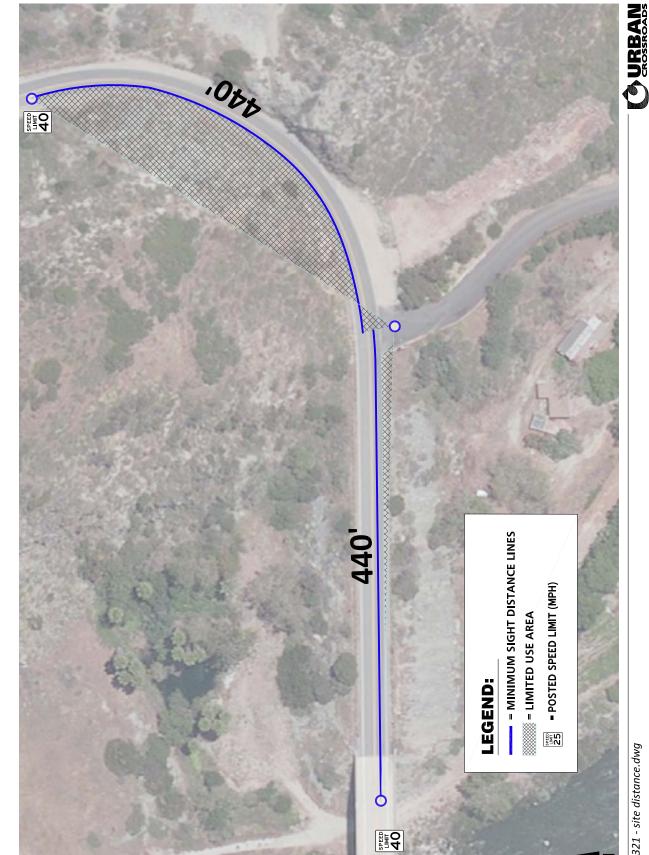


EXHIBIT 11: HORIZONTAL SIGHT DISTANCE AT ABC ROAD (TO TAYLOR HOUSE) AND HIGHWAY 39

09321 - site distance.dwg

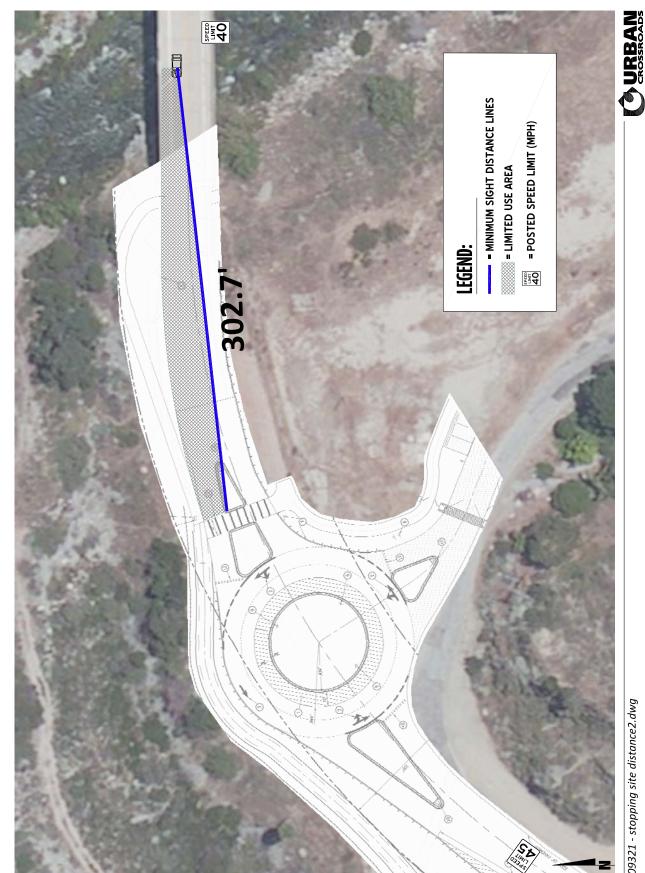


EXHIBIT 12: STOPPING SIGHT DISTANCE AT OLD SAN GABRIEL CANYON ROAD AND HIGHWAY 39

09321 - stopping site distance2.dwg

ATTACHMENT A

TRAFFIC COUNTS



City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

File Name : AZU39SGAM Site Code : 00000001 Start Date : 5/21/2015 Page No : 1

| Weather: Cariny | | | | | | | | | rugerte . | • |
|-------------------------|--------|-------------|--------------|--------------|-------------|-----------------|---------------|-------------|------------|------------|
| | Groups | Printed- Pa | ssenger Vehi | cles - Large | 2 Axle Vehi | cles - 3 Axle V | Vehicles - 4- | + Axle Truc | ks | |
| | | SR-39 | g | | Gabriel Car | | | SR-39 | | |
| | | Southbound | b | | Westbound | | | Northbound | k | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 6 | 6 | 1 | 0 | 1 | 8 | 4 | 12 | 19 |
| 07:15 AM | 0 | 5 | 5 | 0 | 0 | 0 | 7 | 0 | 7 | 12 |
| 07:30 AM | 0 | 5 | 5 | 2 | 0 | 2 | 13 | 0 | 13 | 20 |
| 07:45 AM | 0 | 1 | 1 | 2 | 0 | 2 | 20 | 0 | 20 | 23 |
| Total | 0 | 17 | 17 | 5 | 0 | 5 | 48 | 4 | 52 | 74 |
| | | | | | | i | | | | |
| 08:00 AM | 0 | 2 | 2 | 1 | 0 | 1 | 8 | 2 | 10 | 13 |
| 08:15 AM | 0 | 5 | 5 | 0 | 0 | 0 | 21 | 2 | 23 | 28 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 7 | 7 |
| 08:45 AM | 0 | 4 | 4 | 0 | 1 | 1 | 4 | 2 | 6 | 11_ |
| Total | 0 | 11 | 11 | 1 | 1 | 2 | 39 | 7 | 46 | 59 |
| | | | | | | 1 | | | | |
| Grand Total | 0 | 28 | 28 | 6 | 1 | 7 | 87 | 11 | 98 | 133 |
| Apprch % | 0 | 100 | | 85.7 | 14.3 | | 88.8 | 11.2 | | |
| Total % | 0 | 21.1 | 21.1 | 4.5 | 0.8 | 5.3 | 65.4 | 8.3 | 73.7 | |
| Passenger Vehicles | 0 | 27 | 27 | 5 | 1 | 6 | 87 | 10 | 97 | 130 |
| % Passenger Vehicles | 0 | 96.4 | 96.4 | 83.3 | 100 | 85.7 | 100 | 90.9 | 99 | 97.7 |
| Large 2 Axle Vehicles | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 3 |
| % Large 2 Axle Vehicles | 0 | 3.6 | 3.6 | 16.7 | 0 | 14.3 | 0 | 9.1 | 1 | 2.3 |
| 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4+ Axle Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % 4+ Axle Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

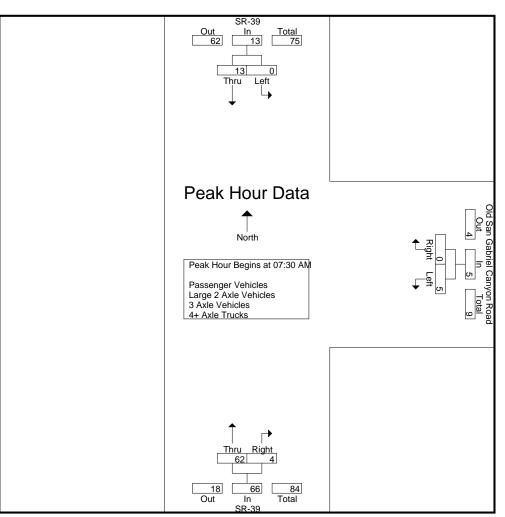
| | | SR-39 | | Old San (| Gabriel Can | yon Road | | SR-39 | | |
|--------------------------|---------------|---------------|---------------|-----------|-------------|------------|------|------------|------------|------------|
| | | Southbound | k | | Westbound | | | Northbound | k | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis Fro | om 07:00 AM | to 08:45 AM | A - Peak 1 of | 1 | | | | | | |
| Peak Hour for Entire Int | tersection Be | egins at 07:3 | 0 AM | | | | | | | |
| 07:30 AM | 0 | 5 | 5 | 2 | 0 | 2 | 13 | 0 | 13 | 20 |
| 07:45 AM | 0 | 1 | 1 | 2 | 0 | 2 | 20 | 0 | 20 | 23 |
| 08:00 AM | 0 | 2 | 2 | 1 | 0 | 1 | 8 | 2 | 10 | 13 |
| 08:15 AM | 0 | 5 | 5 | 0 | 0 | 0 | 21 | 2 | 23 | 28 |
| Total Volume | 0 | 13 | 13 | 5 | 0 | 5 | 62 | 4 | 66 | 84 |
| % App. Total | 0 | 100 | | 100 | 0 | | 93.9 | 6.1 | | |
| PHF | .000 | .650 | .650 | .625 | .000 | .625 | .738 | .500 | .717 | .750 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny
 File Name
 : AZU39SGAM

 Site Code
 : 00000001

 Start Date
 : 5/21/2015

 Page No
 : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

| FEAR HOULION LACH A | proach begi | 115 at. | | | | | | | |
|---------------------|-------------|---------|------|----------|------|------|----------|------|------|
| - | 07:00 AM | | | 07:00 AM | | | 07:30 AM | | |
| +0 mins. | 0 | 6 | 6 | 1 | 0 | 1 | 13 | 0 | 13 |
| +15 mins. | 0 | 5 | 5 | 0 | 0 | 0 | 20 | 0 | 20 |
| +30 mins. | 0 | 5 | 5 | 2 | 0 | 2 | 8 | 2 | 10 |
| +45 mins. | 0 | 1 | 1 | 2 | 0 | 2 | 21 | 2 | 23 |
| Total Volume | 0 | 17 | 17 | 5 | 0 | 5 | 62 | 4 | 66 |
| % App. Total | 0 | 100 | | 100 | 0 | | 93.9 | 6.1 | |
| PHF | .000 | .708 | .708 | .625 | .000 | .625 | .738 | .500 | .717 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny File Name: AZU39SGAMSite Code: 00000001Start Date: 5/21/2015Page No: 1

| | | | Gro | ups Printed- | Passenger | Vehicles | | | | |
|-------------|------|------------|------------|--------------|-------------|------------|------|------------|------------|------------|
| | | SR-39 | | Old San G | Gabriel Can | yon Road | | SR-39 | | |
| | : | Southbound | d | N N | Westbound | ĺ | 1 | Northbound | b | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 6 | 6 | 0 | 0 | 0 | 8 | 3 | 11 | 17 |
| 07:15 AM | 0 | 4 | 4 | 0 | 0 | 0 | 7 | 0 | 7 | 11 |
| 07:30 AM | 0 | 5 | 5 | 2 | 0 | 2 | 13 | 0 | 13 | 20 |
| 07:45 AM | 0 | 1 | 1 | 2 | 0 | 2 | 20 | 0 | 20 | 23 |
| Total | 0 | 16 | 16 | 4 | 0 | 4 | 48 | 3 | 51 | 71 |
| | | | | | | 1 | | | | |
| 08:00 AM | 0 | 2 | 2 | 1 | 0 | 1 | 8 | 2 | 10 | 13 |
| 08:15 AM | 0 | 5 | 5 | 0 | 0 | 0 | 21 | 2 | 23 | 28 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 7 | 7 |
| 08:45 AM | 0 | 4 | 4 | 0 | 1 | 1 | 4 | 2 | 6 | 11 |
| Total | 0 | 11 | 11 | 1 | 1 | 2 | 39 | 7 | 46 | 59 |
| | | | | | | | | | | |
| Grand Total | 0 | 27 | 27 | 5 | 1 | 6 | 87 | 10 | 97 | 130 |
| Apprch % | 0 | 100 | | 83.3 | 16.7 | | 89.7 | 10.3 | | |
| Total % | 0 | 20.8 | 20.8 | 3.8 | 0.8 | 4.6 | 66.9 | 7.7 | 74.6 | |

| | | SR-39 | | Old San | Gabriel Car | iyon Road | | SR-39 | | |
|-------------------------|--------------|--------------------------|---------------|---------|-------------|------------|------|------------|------------|------------|
| | | Southboun | d | | Westbound | k | | Northbound | d | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis Fre | om 07:30 Al | VI to 08:15 | AM - Peak 1 c | of 1 | | | | - | | |
| Peak Hour for Entire In | tersection B | ction Begins at 07:30 AM | | | | | | | | |
| 07:30 AM | 0 | 5 | 5 | 2 | 0 | 2 | 13 | 0 | 13 | 20 |
| 07:45 AM | 0 | 1 | 1 | 2 | 0 | 2 | 20 | 0 | 20 | 23 |
| 08:00 AM | 0 | 2 | 2 | 1 | 0 | 1 | 8 | 2 | 10 | 13 |
| 08:15 AM | 0 | 5 | 5 | 0 | 0 | 0 | 21 | 2 | 23 | 28 |
| Total Volume | 0 | 13 | 13 | 5 | 0 | 5 | 62 | 4 | 66 | 84 |
| % App. Total | 0 | 100 | | 100 | 0 | | 93.9 | 6.1 | | |
| PHF | .000 | .650 | .650 | .625 | .000 | .625 | .738 | .500 | .717 | .750 |

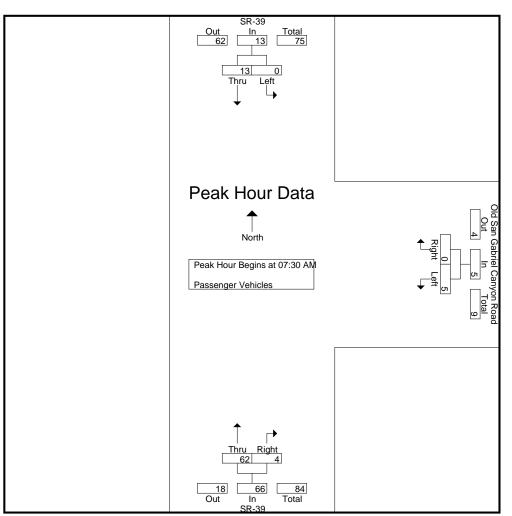
City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

 File Name
 : AZU39SGAM

 Site Code
 : 00000001

 Start Date
 : 5/21/2015

 Page No
 : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

| I Call I Dui I Di Lacit Ap | prouon bogi | 110 ut. | | | | | | | |
|----------------------------|-------------|---------|------|----------|------|------|----------|------|------|
| - | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
| +0 mins. | 0 | 5 | 5 | 2 | 0 | 2 | 13 | 0 | 13 |
| +15 mins. | 0 | 1 | 1 | 2 | 0 | 2 | 20 | 0 | 20 |
| +30 mins. | 0 | 2 | 2 | 1 | 0 | 1 | 8 | 2 | 10 |
| +45 mins. | 0 | 5 | 5 | 0 | 0 | 0 | 21 | 2 | 23 |
| Total Volume | 0 | 13 | 13 | 5 | 0 | 5 | 62 | 4 | 66 |
| % App. Total | 0 | 100 | | 100 | 0 | | 93.9 | 6.1 | |
| PHF | .000 | .650 | .650 | .625 | .000 | .625 | .738 | .500 | .717 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny File Name: AZU39SGAMSite Code: 00000001Start Date: 5/21/2015Page No: 1

| | | | Grou | ps Printed- | Large 2 Axl | e Vehicles | | | | |
|-------------|------|------------|------------|-------------|-------------|------------|------|-----------|------------|------------|
| | | SR-39 | | Old San | Gabriel Car | yon Road | | SR-39 | | |
| | | Southbound | b | | Westbound | ĺ | | Northboun | b | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 |
| 07:15 AM | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 3 |
| | | | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | |
| Grand Total | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 3 |
| Apprch % | 0 | 100 | | 100 | 0 | | 0 | 100 | | |
| Total % | 0 | 33.3 | 33.3 | 33.3 | 0 | 33.3 | 0 | 33.3 | 33.3 | |

| | | SR-39 | | Old San | Gabriel Car | iyon Road | | SR-39 | | | |
|-------------------------|--------------|--|---------------|---------|-------------|------------|------|------------|------------|------------|--|
| | | Southbound | b | | Westbound | 1 | | Northbound | d | | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total | |
| Peak Hour Analysis Fre | om 07:30 AN | /I to 08:15 / | AM - Peak 1 o | of 1 | | | | - | | | |
| Peak Hour for Entire In | tersection B | | | | | | | | | | |
| 07:30 AM | 0 | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | |

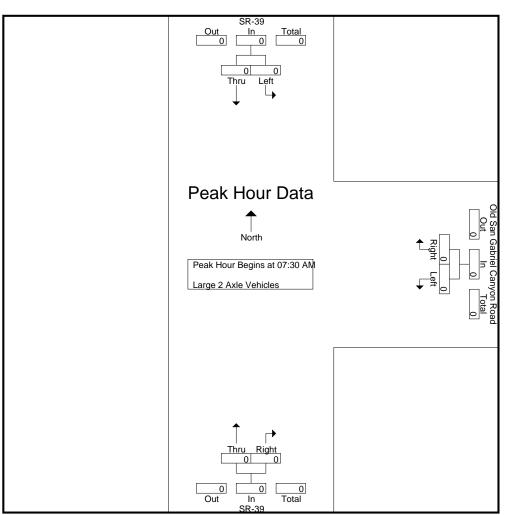
City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

 File Name
 : AZU39SGAM

 Site Code
 : 00000001

 Start Date
 : 5/21/2015

 Page No
 : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

| I Cak Hour for Lach Ap | proach Dogi | 15 al. | | | | | | | |
|------------------------|-------------|--------|------|----------|------|------|----------|------|------|
| - | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny File Name: AZU39SGAMSite Code: 00000001Start Date: 5/21/2015Page No: 1

| | | | G | roups Printe | ed- 3 Axle V | ehicles | | | | |
|-------------|------|------------|------------|--------------|--------------|------------|------|-----------|------------|------------|
| | | SR-39 | | | Gabriel Car | | | SR-39 | | |
| | | Southbound | b | | Westbound | Í | | Northboun | d | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apprch % | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| Total % | | | | | | | | | | |

| | | SR-39 | | Old San | Gabriel Car | , | | SR-39 | | | |
|-------------------------|---------------|---|---------------|---------|-------------|------------|------|-----------|------------|------------|--|
| | | Southboun | d | | Westbound | ł | | Northboun | d | | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total | |
| Peak Hour Analysis Fr | om 07:30 Al | M to 08:15 | AM - Peak 1 c | of 1 | | | | | | | |
| Peak Hour for Entire In | itersection E | | | | | | | | | | |
| 07:30 AM | 0 | n Begins at 07:30 AM 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | |

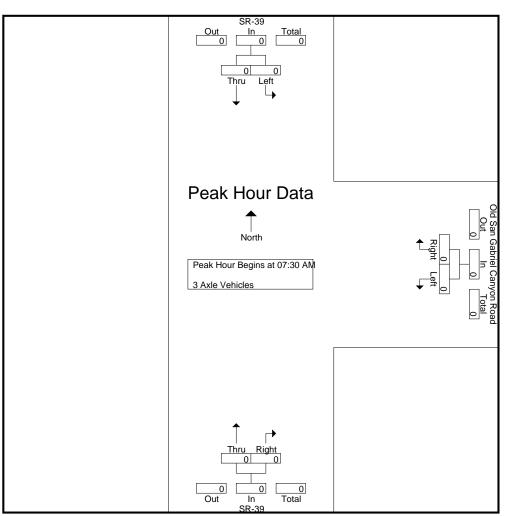
City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

 File Name
 : AZU39SGAM

 Site Code
 : 00000001

 Start Date
 : 5/21/2015

 Page No
 : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

| I Cak Hour for Lach Ap | proach Dogi | 15 al. | | | | | | | |
|------------------------|-------------|--------|------|----------|------|------|----------|------|------|
| - | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny File Name: AZU39SGAMSite Code: 00000001Start Date: 5/21/2015Page No: 1

| | | | G | roups Print | ed- 4+ Axle | Trucks | | | | |
|-------------|------|------------|------------|-------------|-------------|------------|------|-----------|------------|------------|
| | | SR-39 | | | Gabriel Car | | | SR-39 | | |
| | | Southbound | k k | | Westbound | Í | | Northboun | d | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apprch % | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| Total % | | | | | | | | | | |

| | | SR-39 | | Old San | Gabriel Car | , | | SR-39 | | | |
|-------------------------|---------------|--------------|---------------|---------|-------------|------------|------|------------|------------|------------|--|
| | | Southboun | d | | Westbound | 1 | | Northbound | d d | | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total | |
| Peak Hour Analysis Fr | om 07:30 AN | I to 08:15 / | AM - Peak 1 c | of 1 | | | | | | | |
| Peak Hour for Entire In | itersection B | | | | | | | | | | |
| 07:30 AM | 0 | | | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | |

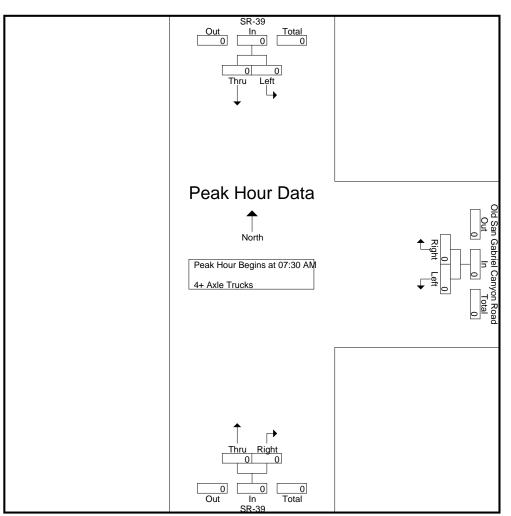
City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

 File Name
 : AZU39SGAM

 Site Code
 : 00000001

 Start Date
 : 5/21/2015

 Page No
 : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

| I Cak Hour for Lach Ap | proach Dogi | 15 al. | | | | | | | |
|------------------------|-------------|--------|------|----------|------|------|----------|------|------|
| - | 07:30 AM | | | 07:30 AM | | | 07:30 AM | | |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

 File Name
 : AZU39SGPM

 Site Code
 : 00000001

 Start Date
 : 5/21/2015

 Page No
 : 1

| | Groups | Printed- Pa | ssenger Vehic | les - Large 2 | 2 Axle Vehi | cles - 3 Axle | Vehicles - 4+ | - Axle Truck | (S | |
|-------------------------|--------|-------------|---------------|---------------|-------------|---------------|---------------|--------------|------------|------------|
| | - | SR-39 | - | Old San (| Sabriel Can | iyon Road | | SR-39 | | |
| | | Southboun | | , | Westbound | | | Northbound | k | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 19 | 19 | 1 | 0 | 1 | 4 | 1 | 5 | 25 |
| 04:15 PM | 0 | 20 | 20 | 1 | 0 | 1 | 8 | 0 | 8 | 29 |
| 04:30 PM | 0 | 8 | 8 | 2 | 0 | 2 | 7 | 2 | 9 | 19 |
| 04:45 PM | 0 | 17 | 17 | 2 | 1 | 3 | 9 | 0 | 9 | 29 |
| Total | 0 | 64 | 64 | 6 | 1 | 7 | 28 | 3 | 31 | 102 |
| | | | | | | | | | | |
| 05:00 PM | 0 | 22 | 22 | 1 | 0 | 1 | 7 | 1 | 8 | 31 |
| 05:15 PM | 0 | 14 | 14 | 4 | 0 | 4 | 7 | 1 | 8 | 26 |
| 05:30 PM | 0 | 2 | 2 | 0 | 0 | 0 | 5 | 0 | 5 | 7 |
| 05:45 PM | 1 | 4 | 5 | 1 | 0 | 1 | 13 | 1 | 14 | 20 |
| Total | 1 | 42 | 43 | 6 | 0 | 6 | 32 | 3 | 35 | 84 |
| | | | | | | | | | | |
| Grand Total | 1 | 106 | 107 | 12 | 1 | 13 | 60 | 6 | 66 | 186 |
| Apprch % | 0.9 | 99.1 | | 92.3 | 7.7 | | 90.9 | 9.1 | | |
| Total % | 0.5 | 57 | 57.5 | 6.5 | 0.5 | 7 | 32.3 | 3.2 | 35.5 | |
| Passenger Vehicles | 1 | 103 | 104 | 12 | 1 | 13 | 60 | 6 | 66 | 183 |
| % Passenger Vehicles | 100 | 97.2 | 97.2 | 100 | 100 | 100 | 100 | 100 | 100 | 98.4 |
| Large 2 Axle Vehicles | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| % Large 2 Axle Vehicles | 0 | 2.8 | 2.8 | 0 | 0 | 0 | 0 | 0 | 0 | 1.6 |
| 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4+ Axle Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % 4+ Axle Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

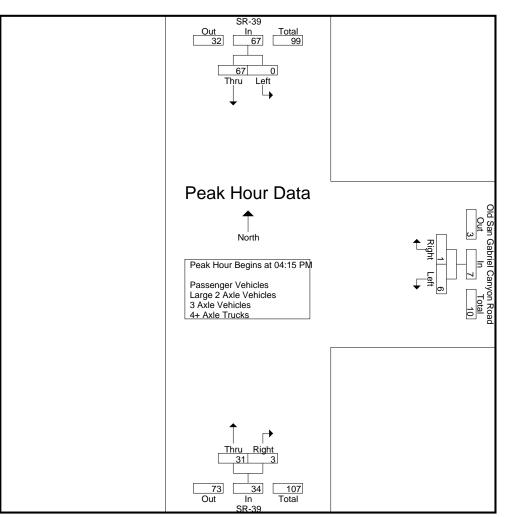
| | | SR-39 | | Old San (| Gabriel Can | yon Road | | SR-39 | | |
|--------------------------|---------------|--------------|-----------------|-----------|-------------|------------|------|------------|------------|------------|
| | | Southbound | k | | Westbound | - | | Northbound | k | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis Fro | om 04:00 PM | to 05:45 PM | / - Peak 1 of 1 | l | | | | | | |
| Peak Hour for Entire Int | tersection Be | gins at 04:1 | 5 PM | | | | | | | |
| 04:15 PM | 0 | 20 | 20 | 1 | 0 | 1 | 8 | 0 | 8 | 29 |
| 04:30 PM | 0 | 8 | 8 | 2 | 0 | 2 | 7 | 2 | 9 | 19 |
| 04:45 PM | 0 | 17 | 17 | 2 | 1 | 3 | 9 | 0 | 9 | 29 |
| 05:00 PM | 0 | 22 | 22 | 1 | 0 | 1 | 7 | 1 | 8 | 31 |
| Total Volume | 0 | 67 | 67 | 6 | 1 | 7 | 31 | 3 | 34 | 108 |
| % App. Total | 0 | 100 | | 85.7 | 14.3 | | 91.2 | 8.8 | | |
| PHF | .000 | .761 | .761 | .750 | .250 | .583 | .861 | .375 | .944 | .871 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny
 File Name
 : AZU39SGPM

 Site Code
 : 00000001

 Start Date
 : 5/21/2015

 Page No
 : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

| I Cak Hour for Lach Ap | proach Degi | 15 at. | | | | | | | |
|------------------------|-------------|--------|------|----------|------|------|----------|------|------|
| - | 04:15 PM | | | 04:30 PM | | | 05:00 PM | | |
| +0 mins. | 0 | 20 | 20 | 2 | 0 | 2 | 7 | 1 | 8 |
| +15 mins. | 0 | 8 | 8 | 2 | 1 | 3 | 7 | 1 | 8 |
| +30 mins. | 0 | 17 | 17 | 1 | 0 | 1 | 5 | 0 | 5 |
| +45 mins. | 0 | 22 | 22 | 4 | 0 | 4 | 13 | 1 | 14 |
| Total Volume | 0 | 67 | 67 | 9 | 1 | 10 | 32 | 3 | 35 |
| % App. Total | 0 | 100 | | 90 | 10 | | 91.4 | 8.6 | |
| PHF | .000 | .761 | .761 | .563 | .250 | .625 | .615 | .750 | .625 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny File Name: AZU39SGPMSite Code: 00000001Start Date: 5/21/2015Page No: 1

| | | | Gro | ups Printed- | Passenger | Vehicles | | | | |
|-------------|------------|------|------------|-----------------------------|-----------|------------|------------|-------|------------|------------|
| | SR-39 | | | Old San Gabriel Canyon Road | | | SR-39 | | | |
| | Southbound | | | Westbound | | | Northbound | | | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 18 | 18 | 1 | 0 | 1 | 4 | 1 | 5 | 24 |
| 04:15 PM | 0 | 19 | 19 | 1 | 0 | 1 | 8 | 0 | 8 | 28 |
| 04:30 PM | 0 | 7 | 7 | 2 | 0 | 2 | 7 | 2 | 9 | 18 |
| 04:45 PM | 0 | 17 | 17 | 2 | 1 | 3 | 9 | 0 | 9 | 29 |
| Total | 0 | 61 | 61 | 6 | 1 | 7 | 28 | 3 | 31 | 99 |
| | | | | | | | | | | |
| 05:00 PM | 0 | 22 | 22 | 1 | 0 | 1 | 7 | 1 | 8 | 31 |
| 05:15 PM | 0 | 14 | 14 | 4 | 0 | 4 | 7 | 1 | 8 | 26 |
| 05:30 PM | 0 | 2 | 2 | 0 | 0 | 0 | 5 | 0 | 5 | 7 |
| 05:45 PM | 1 | 4 | 5 | 1 | 0 | 1 | 13 | 1 | 14 | 20 |
| Total | 1 | 42 | 43 | 6 | 0 | 6 | 32 | 3 | 35 | 84 |
| | | 400 | 404 | 40 | | 10 | 00 | 0 | | 400 |
| Grand Total | 1 | 103 | 104 | 12 | 1 | 13 | 60 | 6 | 66 | 183 |
| Apprch % | 1 | 99 | | 92.3 | 7.7 | | 90.9 | 9.1 | | |
| Total % | 0.5 | 56.3 | 56.8 | 6.6 | 0.5 | 7.1 | 32.8 | 3.3 | 36.1 | |

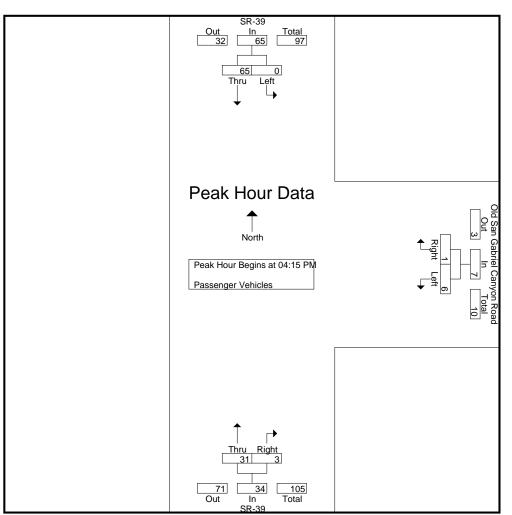
| | SR-39 | | | Old San | Gabriel Car | iyon Road | SR-39 | | | |
|--|--------------|--------------|------------|---------|-------------|------------|------------|-------|------------|------------|
| | Southbound | | | | Westbound | ł | Northbound | | | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire In | tersection E | Begins at 04 | 4:15 PM | | | | | | | |
| 04:15 PM | 0 | 19 | 19 | 1 | 0 | 1 | 8 | 0 | 8 | 28 |
| 04:30 PM | 0 | 7 | 7 | 2 | 0 | 2 | 7 | 2 | 9 | 18 |
| 04:45 PM | 0 | 17 | 17 | 2 | 1 | 3 | 9 | 0 | 9 | 29 |
| 05:00 PM | 0 | 22 | 22 | 1 | 0 | 1 | 7 | 1 | 8 | 31 |
| Total Volume | 0 | 65 | 65 | 6 | 1 | 7 | 31 | 3 | 34 | 106 |
| % App. Total | 0 | 100 | | 85.7 | 14.3 | | 91.2 | 8.8 | | |
| PHF | .000 | .739 | .739 | .750 | .250 | .583 | .861 | .375 | .944 | .855 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny
 File Name
 : AZU39SGPM

 Site Code
 : 00000001

 Start Date
 : 5/21/2015

 Page No
 : 2



Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

| reak nou for Lacit Approach Degins at. | | | | | | | | | | |
|--|----------|------|------|----------|------|------|----------|------|------|--|
| - | 04:15 PM | | | 04:15 PM | | | 04:15 PM | | | |
| +0 mins. | 0 | 19 | 19 | 1 | 0 | 1 | 8 | 0 | 8 | |
| +15 mins. | 0 | 7 | 7 | 2 | 0 | 2 | 7 | 2 | 9 | |
| +30 mins. | 0 | 17 | 17 | 2 | 1 | 3 | 9 | 0 | 9 | |
| +45 mins. | 0 | 22 | 22 | 1 | 0 | 1 | 7 | 1 | 8 | |
| Total Volume | 0 | 65 | 65 | 6 | 1 | 7 | 31 | 3 | 34 | |
| % App. Total | 0 | 100 | | 85.7 | 14.3 | | 91.2 | 8.8 | | |
| PHF | .000 | .739 | .739 | .750 | .250 | .583 | .861 | .375 | .944 | |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

| | | | Grou | ps Printed- | Large 2 Axl | e Vehicles | | | | |
|-------------|------|-----------|------------|-------------|-------------|--|-------|------------|------------|------------|
| | | SR-39 | | Old San | Gabriel Car | nyon Road | SR-39 | | | |
| | | Southboun | d | | Westbound | , the second sec | | Northbound | k k | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:15 PM | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:30 PM | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | |
| Grand Total | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Apprch % | 0 | 100 | | 0 | 0 | | 0 | 0 | | |
| Total % | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | |

| | | SR-39 | | | Gabriel Car | iyon Road | SR-39 | | | |
|--|--------------|-------------|------------|-----------|-------------|------------|-------|------------|------------|------------|
| | | Southbound | b | Westbound | | | | Northbound | | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire In | tersection B | egins at 04 | :15 PM | | | | | | | |
| 04:15 PM | 0 | - 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:30 PM | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| MApp. Total | 0 | 100 | | 0 | 0 | | 0 | 0 | | |
| PHF | .000 | .500 | .500 | .000 | .000 | .000 | .000 | .000 | .000 | .500 |

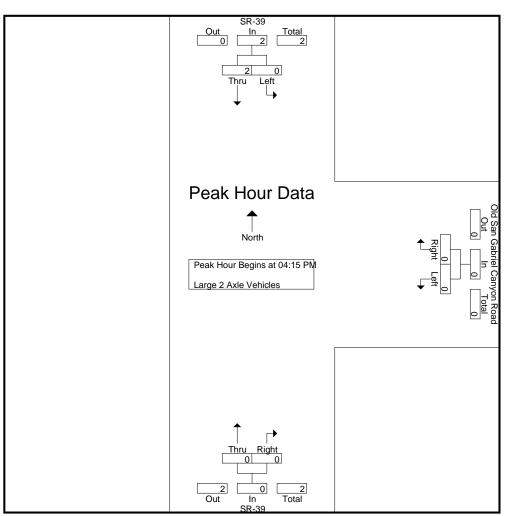
City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

 File Name
 : AZU39SGPM

 Site Code
 : 00000001

 Start Date
 : 5/21/2015

 Page No
 : 2



Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

| i eak hour for Lach Approach Degins at. | | | | | | | | | |
|---|----------|------|------|----------|------|------|----------|------|------|
| | 04:15 PM | | | 04:15 PM | | | 04:15 PM | | |
| +0 mins. | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 100 | | 0 | 0 | | 0 | 0 | |
| PHF | .000 | .500 | .500 | .000 | .000 | .000 | .000 | .000 | .000 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

| | Groups Printed- 3 Axle Vehicles | | | | | | | | | |
|-------------|---------------------------------|------------|------------|------|-------------|------------|-------|------------|------------|------------|
| | | SR-39 | | | Gabriel Car | | SR-39 | | | |
| | | Southbound | | | Westbound | | | Northbound | | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apprch % | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| Total % | | | | | | | | | | |

| | | SR-39 Southbound | | | Gabriel Car | , | SR-39 | | | |
|--|---------------|---------------------|------------|------|-------------|------------|-------|------------|------------|------------|
| | | Southboun | d | | Westbound | 2 | | Northbound | d | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire In | itersection E | Begins at 04 | :15 PM | | | | | | | |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

| Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of | 1 |
|--|---|
| Peak Hour for Each Approach Begins at: | |

| | 04:15 PM | | | 04:15 PM | | | 04:15 PM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

| | | | G | roups Print | ed- 4+ Axle | Trucks | | | | |
|-------------|------|------------|------------|-------------|-------------|------------|-------|-----------|------------|------------|
| | | SR-39 | | | Gabriel Car | | SR-39 | | | |
| | | Southbound | k k | | Westbound | Í | | Northboun | d | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | | 0 | 0 | | • | 0 | | 0 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apprch % | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| Total % | | | | | | | | | | |

| | | SR-39 | | Old San | Gabriel Car | , | SR-39 | | | |
|--|---------------|--------------|------------|---------|-------------|------------|-------|------------|------------|------------|
| | | Southboun | d | | Westbound | | | Northbound | d | |
| Start Time | Left | Thru | App. Total | Left | Right | App. Total | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire In | itersection B | legins at 04 | :15 PM | | | | | | | |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

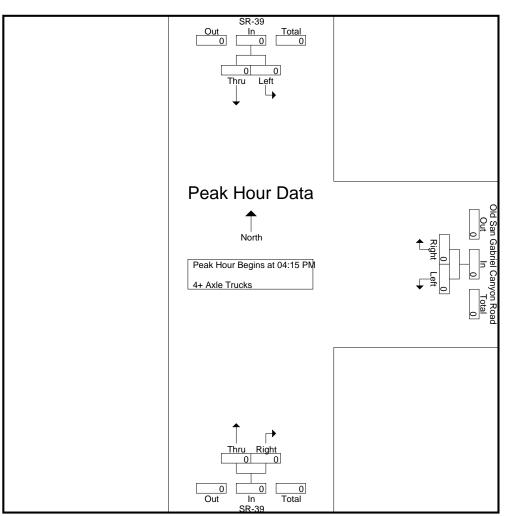
City of Azusa N/S: SR-39 E/W: Old San Gabriel Canyon Road Weather: Sunny

 File Name
 : AZU39SGPM

 Site Code
 : 00000001

 Start Date
 : 5/21/2015

 Page No
 : 2



Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

| reak nou for Lach Approach begins at. | | | | | | | | | |
|---------------------------------------|----------|------|------|----------|------|------|----------|------|------|
| - | 04:15 PM | | | 04:15 PM | | | 04:15 PM | | |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

City of Azusa

Pedestrian Count SR-39/Old San Gabriel Canyon Road Thursday, May 21, 2015

| | North Leg | East Leg | South Leg |
|-------|-----------|-----------------------------|-----------|
| _ | SR-39 | Old San Gabriel Canyon Road | SR-39 |
| 7:00 | 0 | 0 | 0 |
| 7:15 | 1 | 0 | 0 |
| 7:30 | 0 | 0 | 0 |
| 7:45 | 0 | 0 | 0 |
| 8:00 | 0 | 0 | 0 |
| 8:15 | 0 | 0 | 1 |
| 8:30 | 2 | 1 | 0 |
| 8:45 | 2 | 0 | 0 |
| Total | 5 | 1 | 1 |

| 16:00 | 0 | 0 | 0 |
|-------|---|---|---|
| 16:15 | 0 | 0 | 1 |
| 16:30 | | 0 | 0 |
| 16:45 | 1 | 1 | 0 |
| 17:00 | 0 | 1 | 0 |
| 17:15 | 0 | 0 | 1 |
| 17:30 | 1 | 0 | 0 |
| 17:45 | 0 | 0 | 0 |
| Total | 2 | 2 | 2 |

City of Azusa

Bicycle Count SR-39/Old San Gabriel Canyon Road Thursday, May 21, 2015

| | North Leg | East Leg | South Leg |
|-------|-----------|-----------------------------|-----------|
| | SR-39 | Old San Gabriel Canyon Road | SR-39 |
| 7:00 | 0 | 0 | 0 |
| 7:15 | 0 | 1 | 0 |
| 7:30 | 0 | 1 | 0 |
| 7:45 | 1 | 0 | 0 |
| 8:00 | 0 | 0 | 0 |
| 8:15 | 0 | 2 | 0 |
| 8:30 | 1 | 0 | 0 |
| 8:45 | 0 | 0 | 0 |
| Total | 2 | 4 | 0 |

| 16:00 | 0 | 1 | 0 |
|-------|---|---|---|
| 16:15 | 0 | 1 | 0 |
| 16:30 | 0 | 0 | 0 |
| 16:45 | 0 | 2 | 0 |
| 17:00 | 0 | 3 | 0 |
| 17:15 | 0 | 0 | 0 |
| 17:30 | 2 | 1 | 0 |
| 17:45 | 0 | 1 | 0 |
| Total | 2 | 9 | 0 |

ATTACHMENT B

SIDRA OUTPUTS – WITH EXISTING (2015) TRAFFIC VOLUMES



😵 Site: SR-39 / Old San Gabriel Cyn Rd - Ex AM

River Wilderness Park TIA (JN: 09321) Existing (2015) - AM Peak Hour

Roundabout

| Moven | nent Perfor | mance - Vehic | les | | | | | | | | |
|-----------|--------------|----------------|-------|-------|---------|----------|------------|----------|--------|-----------|---------|
| Mov | OD | Demand | Flows | Deg. | Average | Level of | 95% Back o | of Queue | Prop. | Effective | Average |
| ID | Mov | Total | ΗV | Satn | Delay | Service | Vehicles | Distance | Queued | Stop Rate | Speed |
| 0 11 | 00.00 | veh/h | % | v/c | sec | _ | veh | ft | _ | per veh | mph |
| South: | SR-39 | | | | | | | | | | |
| 8 | T1 | 83 | 2.0 | 0.062 | 3.0 | LOS A | 0.3 | 7.1 | 0.02 | 0.00 | 36.1 |
| 18 | R2 | 5 | 2.0 | 0.062 | 3.0 | LOS A | 0.3 | 7.1 | 0.02 | 0.00 | 35.0 |
| Approa | ch | 88 | 2.0 | 0.062 | 3.0 | LOS A | 0.3 | 7.1 | 0.02 | 0.00 | 36.0 |
| East: O | ld San Gabri | el Canyon Road | l | | | | | | | | |
| 1 | L2 | 7 | 2.0 | 0.006 | 2.8 | LOS A | 0.0 | 0.7 | 0.20 | 0.07 | 33.8 |
| 16 | R2 | 1 | 2.0 | 0.006 | 2.8 | LOS A | 0.0 | 0.7 | 0.20 | 0.07 | 32.9 |
| Approa | ch | 8 | 2.0 | 0.006 | 2.8 | LOS A | 0.0 | 0.7 | 0.20 | 0.07 | 33.6 |
| North: \$ | SR-39 | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.013 | 2.7 | LOS A | 0.1 | 1.4 | 0.05 | 0.01 | 36.1 |
| 4 | T1 | 17 | 2.0 | 0.013 | 2.7 | LOS A | 0.1 | 1.4 | 0.05 | 0.01 | 36.1 |
| Approa | ch | 19 | 2.0 | 0.013 | 2.7 | LOS A | 0.1 | 1.4 | 0.05 | 0.01 | 36.1 |
| All Vehi | cles | 115 | 2.0 | 0.062 | 3.0 | LOS A | 0.3 | 7.1 | 0.04 | 0.01 | 35.8 |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, May 29, 2015 3:59:04 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC



😵 Site: SR-39 / Old San Gabriel Cyn Rd - Ex PM

River Wilderness Park TIA (JN: 09321) Existing (2015) - PM Peak Hour

Roundabout

| Move | ment Perfo | ormance - Ve | hicles | | | | | | | | |
|---------|-------------|---------------|--------|-------|---------|----------|------------|----------|--------|-----------|---------|
| Mov | OD | Demand | | Deg. | Average | Level of | 95% Back (| | Prop. | Effective | Average |
| ID | Mov | Total | HV | Satn | Delay | Service | Vehicles | Distance | Queued | Stop Rate | Speed |
| South | SR-39 | veh/h | % | V/C | sec | | veh | ft | _ | per veh | mph |
| South. | | | | | | | | | | | |
| 8 | T1 | 36 | 2.0 | 0.028 | 2.8 | LOS A | 0.1 | 3.0 | 0.02 | 0.00 | 36.2 |
| 18 | R2 | 3 | 2.0 | 0.028 | 2.8 | LOS A | 0.1 | 3.0 | 0.02 | 0.00 | 35.2 |
| Approa | ach | 39 | 2.0 | 0.028 | 2.8 | LOS A | 0.1 | 3.0 | 0.02 | 0.00 | 36.1 |
| East: (| Old San Gab | riel Canyon R | oad | | | | | | | | |
| 1 | L2 | 7 | 2.0 | 0.006 | 2.7 | LOS A | 0.0 | 0.6 | 0.12 | 0.03 | 33.8 |
| 16 | R2 | 1 | 2.0 | 0.006 | 2.7 | LOS A | 0.0 | 0.6 | 0.12 | 0.03 | 32.9 |
| Approa | ach | 8 | 2.0 | 0.006 | 2.7 | LOS A | 0.0 | 0.6 | 0.12 | 0.03 | 33.7 |
| North: | SR-39 | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.056 | 3.0 | LOS A | 0.2 | 6.3 | 0.05 | 0.01 | 36.1 |
| 4 | T1 | 77 | 2.0 | 0.056 | 3.0 | LOS A | 0.2 | 6.3 | 0.05 | 0.01 | 36.0 |
| Approa | ach | 78 | 2.0 | 0.056 | 3.0 | LOS A | 0.2 | 6.3 | 0.05 | 0.01 | 36.0 |
| All Veł | nicles | 125 | 2.0 | 0.056 | 2.9 | LOS A | 0.2 | 6.3 | 0.04 | 0.01 | 35.9 |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, May 29, 2015 4:08:53 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC

SIDRA INTERSECTION 6 ATTACHMENT C

SIDRA OUTPUTS – WITH EXISTING PLUS PROJECT TRAFFIC VOLUMES



😵 Site: SR-39 / Old San Gabriel Cyn Rd - E+P AM

River Wilderness Park TIA (JN: 09321) Existing plus Project - AM Peak Hour

Roundabout

| Move | ment Perfo | ormance - Ve | hicles | | | | | | | | |
|---------|-------------|---------------|--------|-------|---------|----------|------------|----------|--------|-----------|---------|
| Mov | OD | Demand | | Deg. | Average | Level of | 95% Back (| | Prop. | Effective | Average |
| ID | Mov | Total | HV | Satn | Delay | Service | Vehicles | Distance | Queued | Stop Rate | Speed |
| South: | SR-39 | veh/h | % | v/c | sec | _ | veh | ft | _ | per veh | mph |
| 8 | T1 | 83 | 2.0 | 0.074 | 3.1 | LOS A | 0.3 | 8.5 | 0.02 | 0.00 | 36.0 |
| - | | | | | - | | | | | | |
| 18 | R2 | 21 | 2.0 | 0.074 | 3.1 | LOS A | 0.3 | 8.5 | 0.02 | 0.00 | 35.0 |
| Appro | ach | 104 | 2.0 | 0.074 | 3.1 | LOS A | 0.3 | 8.5 | 0.02 | 0.00 | 35.8 |
| East: (| Old San Gab | riel Canyon R | oad | | | | | | | | |
| 1 | L2 | 23 | 2.0 | 0.018 | 2.9 | LOS A | 0.1 | 2.0 | 0.20 | 0.07 | 33.5 |
| 16 | R2 | 1 | 2.0 | 0.018 | 2.9 | LOS A | 0.1 | 2.0 | 0.20 | 0.07 | 32.6 |
| Appro | ach | 24 | 2.0 | 0.018 | 2.9 | LOS A | 0.1 | 2.0 | 0.20 | 0.07 | 33.4 |
| North: | SR-39 | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.014 | 2.7 | LOS A | 0.1 | 1.5 | 0.09 | 0.02 | 36.1 |
| 4 | T1 | 17 | 2.0 | 0.014 | 2.7 | LOS A | 0.1 | 1.5 | 0.09 | 0.02 | 36.0 |
| Appro | ach | 19 | 2.0 | 0.014 | 2.7 | LOS A | 0.1 | 1.5 | 0.09 | 0.02 | 36.0 |
| All Vel | nicles | 147 | 2.0 | 0.074 | 3.0 | LOS A | 0.3 | 8.5 | 0.06 | 0.02 | 35.4 |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, May 29, 2015 4:13:38 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC

SIDRA INTERSECTION 6

😵 Site: SR-39 / Old San Gabriel Cyn Rd - E+P PM

River Wilderness Park TIA (JN: 09321) Existing plus Project - PM Peak Hour

Roundabout

| Move | ment Perfo | ormance - Ve | hicles | | | | | | | | |
|---------|-------------|---------------|--------|-------|---------|----------|-------------|----------|--------|-----------|---------|
| Mov | OD | Demand | | Deg. | Average | Level of | 95% Back of | | Prop. | Effective | Average |
| ID | Mov | Total | HV | Satn | Delay | Service | Vehicles | Distance | Queued | Stop Rate | Speed |
| South: | SR-39 | veh/h | % | v/c | sec | _ | veh | ft | _ | per veh | mph |
| 8 | T1 | 36 | 2.0 | 0.048 | 2.9 | LOS A | 0.2 | 5.4 | 0.02 | 0.00 | 36.1 |
| 18 | R2 | 32 | 2.0 | 0.048 | 2.9 | LOSA | 0.2 | 5.4 | 0.02 | 0.00 | 35.1 |
| | | | | | | | | | | | |
| Approa | acn | 68 | 2.0 | 0.048 | 2.9 | LOS A | 0.2 | 5.4 | 0.02 | 0.00 | 35.6 |
| East: C | Old San Gab | riel Canyon R | oad | | | | | | | | |
| 1 | L2 | 36 | 2.0 | 0.028 | 2.9 | LOS A | 0.1 | 3.0 | 0.13 | 0.03 | 33.5 |
| 16 | R2 | 2 | 2.0 | 0.028 | 2.9 | LOS A | 0.1 | 3.0 | 0.13 | 0.03 | 32.6 |
| Approa | ach | 38 | 2.0 | 0.028 | 2.9 | LOS A | 0.1 | 3.0 | 0.13 | 0.03 | 33.5 |
| North: | SR-39 | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.057 | 3.1 | LOS A | 0.3 | 6.4 | 0.13 | 0.04 | 36.0 |
| 4 | T1 | 77 | 2.0 | 0.057 | 3.1 | LOS A | 0.3 | 6.4 | 0.13 | 0.04 | 36.0 |
| Approa | ach | 78 | 2.0 | 0.057 | 3.1 | LOS A | 0.3 | 6.4 | 0.13 | 0.04 | 36.0 |
| All Ver | nicles | 184 | 2.0 | 0.057 | 3.0 | LOS A | 0.3 | 6.4 | 0.09 | 0.02 | 35.3 |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, May 29, 2015 4:13:48 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC

SIDRA INTERSECTION 6 ATTACHMENT D

SIDRA OUTPUTS - WITH OPENING YEAR (2021) TRAFFIC VOLUMES



😵 Site: SR-39 / Old San Gabriel Cyn Rd - 2021 NP AM

River Wilderness Park TIA (JN: 09321) OPening Year (2021) Without Project - AM Peak Hour

Roundabout

| Move | ment Perfo | ormance - Ve | hicles | | | | | | | | |
|-----------|-------------|--------------------------|--------------------|---------------------|-------------------------|---------------------|-------------------------------|----------------------------|-----------------|-----------------------------------|-------------------------|
| Mov ID | OD Mov | Demanc Total veh/h | l Flows HV % | Deg. Satn v/c | Average Delay sec | Level of Service | 95% Back o Vehicles veh | of Queue Distance ft | Prop. Queued | Effective Stop Rate per veh | Average Speed mph |
| South | : SR-39 | | | | | | | | | | |
| 8 | T1 | 93 | 2.0 | 0.071 | 3.1 | LOS A | 0.3 | 8.2 | 0.02 | 0.00 | 36.0 |
| 18 | R2 | 7 | 2.0 | 0.071 | 3.1 | LOS A | 0.3 | 8.2 | 0.02 | 0.00 | 35.0 |
| Appro | ach | 100 | 2.0 | 0.071 | 3.1 | LOS A | 0.3 | 8.2 | 0.02 | 0.00 | 36.0 |
| East: (| Old San Gab | riel Canyon R | oad | | | | | | | | |
| 1 | L2 | 8 | 2.0 | 0.007 | 2.9 | LOS A | 0.0 | 0.8 | 0.21 | 0.07 | 33.7 |
| 16 | R2 | 1 | 2.0 | 0.007 | 2.9 | LOS A | 0.0 | 0.8 | 0.21 | 0.07 | 32.8 |
| Appro | ach | 9 | 2.0 | 0.007 | 2.9 | LOS A | 0.0 | 0.8 | 0.21 | 0.07 | 33.6 |
| North: | SR-39 | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.015 | 2.7 | LOS A | 0.1 | 1.7 | 0.05 | 0.01 | 36.1 |
| 4 | T1 | 20 | 2.0 | 0.015 | 2.7 | LOS A | 0.1 | 1.7 | 0.05 | 0.01 | 36.1 |
| Appro | ach | 21 | 2.0 | 0.015 | 2.7 | LOS A | 0.1 | 1.7 | 0.05 | 0.01 | 36.1 |
| All Vel | nicles | 131 | 2.0 | 0.071 | 3.0 | LOS A | 0.3 | 8.2 | 0.04 | 0.01 | 35.8 |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, October 09, 2015 3:22:22 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC



😵 Site: SR-39 / Old San Gabriel Cyn Rd - 2021 NP PM

River Wilderness Park TIA (JN: 09321) Opening Year (2021) Without Project - PM Peak Hour

Roundabout

| Movement Performance - Vehicles | | | | | | | | | | | | | |
|---------------------------------|-------------|---------------|-------|-------|---------|----------|-------------|----------|--------|-----------|---------|--|--|
| Mov | OD | Demand | Flows | Deg. | Average | Level of | 95% Back of | of Queue | Prop. | Effective | Average | | |
| ID | Mov | Total | HV | Satn | Delay | Service | Vehicles | Distance | Queued | Stop Rate | Speed | | |
| South | : SR-39 | veh/h | % | V/C | Sec | | veh | ft | | per veh | mph | | |
| South | . 38-39 | | | | | | | | | | | | |
| 8 | T1 | 40 | 2.0 | 0.031 | 2.8 | LOS A | 0.1 | 3.4 | 0.02 | 0.00 | 36.2 | | |
| 18 | R2 | 3 | 2.0 | 0.031 | 2.8 | LOS A | 0.1 | 3.4 | 0.02 | 0.00 | 35.2 | | |
| Appro | ach | 44 | 2.0 | 0.031 | 2.8 | LOS A | 0.1 | 3.4 | 0.02 | 0.00 | 36.1 | | |
| East: (| Old San Gab | riel Canyon R | oad | | | | | | | | | | |
| 1 | L2 | 8 | 2.0 | 0.007 | 2.7 | LOS A | 0.0 | 0.7 | 0.13 | 0.03 | 33.7 | | |
| 16 | R2 | 1 | 2.0 | 0.007 | 2.7 | LOS A | 0.0 | 0.7 | 0.13 | 0.03 | 32.9 | | |
| Appro | ach | 9 | 2.0 | 0.007 | 2.7 | LOS A | 0.0 | 0.7 | 0.13 | 0.03 | 33.6 | | |
| North: | SR-39 | | | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.062 | 3.1 | LOS A | 0.3 | 7.1 | 0.05 | 0.01 | 36.0 | | |
| 4 | T1 | 86 | 2.0 | 0.062 | 3.1 | LOS A | 0.3 | 7.1 | 0.05 | 0.01 | 36.0 | | |
| Appro | ach | 87 | 2.0 | 0.062 | 3.1 | LOS A | 0.3 | 7.1 | 0.05 | 0.01 | 36.0 | | |
| All Vel | hicles | 140 | 2.0 | 0.062 | 2.9 | LOS A | 0.3 | 7.1 | 0.05 | 0.01 | 35.9 | | |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, October 09, 2015 3:22:25 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC



😵 Site: SR-39 / Old San Gabriel Cyn Rd - 2021 WP AM

River Wilderness Park TIA (JN: 09321) Opening Year (2021) With Project - AM Peak Hour

Roundabout

| Movement Performance - Vehicles | | | | | | | | | | | | |
|---------------------------------|-------------|---------------|-----|-------|---------|----------|-------------|----------|--------|-----------|---------|--|
| Mov | OD | Demand | | Deg. | Average | Level of | 95% Back of | | Prop. | Effective | Average | |
| ID | Mov | Total | HV | Satn | Delay | Service | Vehicles | Distance | Queued | Stop Rate | Speed | |
| South | SR-39 | veh/h | % | v/c | sec | | veh | ft | | per veh | mph | |
| | | | | | | | | | | | | |
| 8 | T1 | 93 | 2.0 | 0.082 | 3.2 | LOS A | 0.4 | 9.6 | 0.02 | 0.00 | 36.0 | |
| 18 | R2 | 23 | 2.0 | 0.082 | 3.2 | LOS A | 0.4 | 9.6 | 0.02 | 0.00 | 35.0 | |
| Approa | ach | 116 | 2.0 | 0.082 | 3.2 | LOS A | 0.4 | 9.6 | 0.02 | 0.00 | 35.8 | |
| East: 0 | Old San Gab | riel Canyon R | oad | | | | | | | | | |
| 1 | L2 | 24 | 2.0 | 0.020 | 3.0 | LOS A | 0.1 | 2.1 | 0.22 | 0.08 | 33.4 | |
| 16 | R2 | 1 | 2.0 | 0.020 | 3.0 | LOS A | 0.1 | 2.1 | 0.22 | 0.08 | 32.6 | |
| Approa | ach | 25 | 2.0 | 0.020 | 3.0 | LOS A | 0.1 | 2.1 | 0.22 | 0.08 | 33.4 | |
| North: | SR-39 | | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.015 | 2.7 | LOS A | 0.1 | 1.7 | 0.10 | 0.02 | 36.1 | |
| 4 | T1 | 20 | 2.0 | 0.015 | 2.7 | LOS A | 0.1 | 1.7 | 0.10 | 0.02 | 36.1 | |
| Approa | ach | 21 | 2.0 | 0.015 | 2.7 | LOS A | 0.1 | 1.7 | 0.10 | 0.02 | 36.1 | |
| All Veh | nicles | 163 | 2.0 | 0.082 | 3.1 | LOS A | 0.4 | 9.6 | 0.06 | 0.02 | 35.4 | |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, October 09, 2015 3:26:53 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC



😵 Site: SR-39 / Old San Gabriel Cyn Rd - 2021 WP PM

River Wilderness Park TIA (JN: 09321) Opening Year (2021) With Project - PM Peak Hour

Roundabout

| Move | ment Perfo | ormance - Ve | hicles | | | | | | | | |
|---------|-------------|---------------|--------|-------|---------|----------|-------------|----------|--------|-----------|---------|
| Mov | OD | Demand | | Deg. | Average | Level of | 95% Back of | | Prop. | Effective | Average |
| ID | Mov | Total | HV | Satn | Delay | Service | Vehicles | Distance | Queued | Stop Rate | Speed |
| South | : SR-39 | veh/h | % | v/c | sec | | veh | ft | | per veh | mph |
| | | | | | | | | | | | |
| 8 | T1 | 40 | 2.0 | 0.051 | 2.9 | LOS A | 0.2 | 5.8 | 0.02 | 0.00 | 36.1 |
| 18 | R2 | 32 | 2.0 | 0.051 | 2.9 | LOS A | 0.2 | 5.8 | 0.02 | 0.00 | 35.1 |
| Appro | ach | 72 | 2.0 | 0.051 | 2.9 | LOS A | 0.2 | 5.8 | 0.02 | 0.00 | 35.6 |
| East: (| Old San Gab | riel Canyon R | oad | | | | | | | | |
| 1 | L2 | 37 | 2.0 | 0.029 | 2.9 | LOS A | 0.1 | 3.1 | 0.13 | 0.04 | 33.5 |
| 16 | R2 | 2 | 2.0 | 0.029 | 2.9 | LOS A | 0.1 | 3.1 | 0.13 | 0.04 | 32.6 |
| Appro | ach | 39 | 2.0 | 0.029 | 2.9 | LOS A | 0.1 | 3.1 | 0.13 | 0.04 | 33.4 |
| North: | SR-39 | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.064 | 3.2 | LOS A | 0.3 | 7.3 | 0.13 | 0.04 | 36.0 |
| 4 | T1 | 86 | 2.0 | 0.064 | 3.2 | LOS A | 0.3 | 7.3 | 0.13 | 0.04 | 36.0 |
| Appro | ach | 87 | 2.0 | 0.064 | 3.2 | LOS A | 0.3 | 7.3 | 0.13 | 0.04 | 36.0 |
| All Vel | hicles | 199 | 2.0 | 0.064 | 3.0 | LOS A | 0.3 | 7.3 | 0.09 | 0.03 | 35.3 |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, October 09, 2015 3:27:30 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC



ATTACHMENT E

SIDRA OUTPUTS -- WITH OPENING YEAR (2028) TRAFFIC VOLUMES



😵 Site: SR-39 / Old San Gabriel Cyn Rd - 2028 NP AM

River Wilderness Park TIA (JN: 09321) Opening Year (2028) Without Project - AM Peak Hour

Roundabout

| Movement Performance - Vehicles | | | | | | | | | | | | |
|---------------------------------|-------------|---------------|-----|-------|---------|----------|-------------|----------|--------|-----------|---------|--|
| Mov | OD | Demand | | Deg. | Average | Level of | 95% Back of | | Prop. | Effective | Average | |
| ID | Mov | Total | HV | Satn | Delay | Service | Vehicles | Distance | Queued | Stop Rate | Speed | |
| South | SR-39 | veh/h | % | v/c | sec | | veh | ft | | per veh | mph | |
| | | | | | | | | | | | | |
| 8 | T1 | 107 | 2.0 | 0.080 | 3.2 | LOS A | 0.4 | 9.3 | 0.02 | 0.00 | 36.0 | |
| 18 | R2 | 7 | 2.0 | 0.080 | 3.2 | LOS A | 0.4 | 9.3 | 0.02 | 0.00 | 35.0 | |
| Approa | ach | 113 | 2.0 | 0.080 | 3.2 | LOS A | 0.4 | 9.3 | 0.02 | 0.00 | 35.9 | |
| East: 0 | Old San Gab | riel Canyon R | oad | | | | | | | | | |
| 1 | L2 | 8 | 2.0 | 0.007 | 2.9 | LOS A | 0.0 | 0.8 | 0.23 | 0.09 | 33.7 | |
| 16 | R2 | 1 | 2.0 | 0.007 | 2.9 | LOS A | 0.0 | 0.8 | 0.23 | 0.09 | 32.8 | |
| Approa | ach | 9 | 2.0 | 0.007 | 2.9 | LOS A | 0.0 | 0.8 | 0.23 | 0.09 | 33.6 | |
| North: | SR-39 | | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.017 | 2.7 | LOS A | 0.1 | 1.9 | 0.05 | 0.01 | 36.1 | |
| 4 | T1 | 23 | 2.0 | 0.017 | 2.7 | LOS A | 0.1 | 1.9 | 0.05 | 0.01 | 36.1 | |
| Approa | ach | 24 | 2.0 | 0.017 | 2.7 | LOS A | 0.1 | 1.9 | 0.05 | 0.01 | 36.1 | |
| All Veh | nicles | 147 | 2.0 | 0.080 | 3.1 | LOS A | 0.4 | 9.3 | 0.04 | 0.01 | 35.8 | |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, October 09, 2015 3:33:13 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC



😵 Site: SR-39 / Old San Gabriel Cyn Rd - 2028 NP PM

River Wilderness Park TIA (JN: 09321) Opening Year (2028) Without Project - PM Peak Hour

Roundabout

| Move | ment Perfo | ormance - Ve | hicles | | | | | | | | |
|---------|-------------|---------------|--------|-------|---------|----------|-------------|----------|--------|-----------|---------|
| Mov | OD | Demand | | Deg. | Average | Level of | 95% Back of | | Prop. | Effective | Average |
| ID | Mov | Total | HV | Satn | Delay | Service | Vehicles | Distance | Queued | Stop Rate | Speed |
| South | SR-39 | veh/h | % | v/c | sec | _ | veh | ft | _ | per veh | mph |
| | | | | | | | | | | | |
| 8 | T1 | 46 | 2.0 | 0.036 | 2.8 | LOS A | 0.2 | 4.0 | 0.02 | 0.00 | 36.2 |
| 18 | R2 | 5 | 2.0 | 0.036 | 2.8 | LOS A | 0.2 | 4.0 | 0.02 | 0.00 | 35.2 |
| Approa | ach | 51 | 2.0 | 0.036 | 2.8 | LOS A | 0.2 | 4.0 | 0.02 | 0.00 | 36.1 |
| East: 0 | Old San Gab | riel Canyon R | oad | | | | | | | | |
| 1 | L2 | 9 | 2.0 | 0.008 | 2.7 | LOS A | 0.0 | 0.8 | 0.14 | 0.04 | 33.7 |
| 16 | R2 | 1 | 2.0 | 0.008 | 2.7 | LOS A | 0.0 | 0.8 | 0.14 | 0.04 | 32.8 |
| Approa | ach | 10 | 2.0 | 0.008 | 2.7 | LOS A | 0.0 | 0.8 | 0.14 | 0.04 | 33.6 |
| North: | SR-39 | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.072 | 3.1 | LOS A | 0.3 | 8.3 | 0.06 | 0.01 | 36.0 |
| 4 | T1 | 100 | 2.0 | 0.072 | 3.1 | LOS A | 0.3 | 8.3 | 0.06 | 0.01 | 36.0 |
| Approa | ach | 101 | 2.0 | 0.072 | 3.1 | LOS A | 0.3 | 8.3 | 0.06 | 0.01 | 36.0 |
| All Ver | nicles | 162 | 2.0 | 0.072 | 3.0 | LOS A | 0.3 | 8.3 | 0.05 | 0.01 | 35.8 |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, October 09, 2015 3:34:27 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC



😵 Site: SR-39 / Old San Gabriel Cyn Rd - 2028 WP AM

River Wilderness Park TIA (JN: 09321) Opening Year (2028) With Project - AM Peak Hour

Roundabout

| Movement Performance - Vehicles | | | | | | | | | | | |
|---------------------------------|-------------|--------------------------|--------------------|---------------------|-------------------------|---------------------|-------------------------------|----------------------------|-----------------|-----------------------------------|-------------------------|
| Mov ID | OD Mov | Demand Total veh/h | l Flows HV % | Deg. Satn v/c | Average Delay sec | Level of Service | 95% Back o Vehicles veh | of Queue Distance ft | Prop. Queued | Effective Stop Rate per veh | Average Speed mph |
| South: | SR-39 | | | | | | | | | | |
| 8 | T1 | 107 | 2.0 | 0.092 | 3.3 | LOS A | 0.4 | 10.8 | 0.02 | 0.00 | 35.9 |
| 18 | R2 | 23 | 2.0 | 0.092 | 3.3 | LOS A | 0.4 | 10.8 | 0.02 | 0.00 | 34.9 |
| Approach | | 129 | 2.0 | 0.092 | 3.3 | LOS A | 0.4 | 10.8 | 0.02 | 0.00 | 35.7 |
| East: 0 | Old San Gab | riel Canyon R | oad | | | | | | | | |
| 1 | L2 | 24 | 2.0 | 0.020 | 3.0 | LOS A | 0.1 | 2.1 | 0.23 | 0.10 | 33.4 |
| 16 | R2 | 1 | 2.0 | 0.020 | 3.0 | LOS A | 0.1 | 2.1 | 0.23 | 0.10 | 32.6 |
| Approach | | 25 | 2.0 | 0.020 | 3.0 | LOS A | 0.1 | 2.1 | 0.23 | 0.10 | 33.4 |
| North: | SR-39 | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.017 | 2.7 | LOS A | 0.1 | 1.9 | 0.10 | 0.02 | 36.1 |
| 4 | T1 | 23 | 2.0 | 0.017 | 2.7 | LOS A | 0.1 | 1.9 | 0.10 | 0.02 | 36.1 |
| Approach | | 24 | 2.0 | 0.017 | 2.7 | LOS A | 0.1 | 1.9 | 0.10 | 0.02 | 36.1 |
| All Vehicles | | 179 | 2.0 | 0.092 | 3.2 | LOS A | 0.4 | 10.8 | 0.06 | 0.02 | 35.4 |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, October 09, 2015 3:35:29 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC



😵 Site: SR-39 / Old San Gabriel Cyn Rd - 2028 WP PM

River Wilderness Park TIA (JN: 09321) Opening Year (2028) With Project - PM Peak Hour

Roundabout

| Movement Performance - Vehicles | | | | | | | | | | | |
|-----------------------------------|---------|--------|-----|-------|---------|----------|----------------------------|----------|--------|-----------|---------|
| Mov | OD | Demand | | Deg. | Average | Level of | Level of 95% Back of Queue | | Prop. | Effective | Average |
| ID | Mov | Total | HV | Satn | Delay | Service | Vehicles | Distance | Queued | Stop Rate | Speed |
| South | : SR-39 | veh/h | % | v/c | Sec | | veh | ft | _ | per veh | mph |
| South | | | | | | | | | | | |
| 8 | T1 | 46 | 2.0 | 0.056 | 3.0 | LOS A | 0.3 | 6.4 | 0.02 | 0.00 | 36.1 |
| 18 | R2 | 33 | 2.0 | 0.056 | 3.0 | LOS A | 0.3 | 6.4 | 0.02 | 0.00 | 35.0 |
| Appro | ach | 79 | 2.0 | 0.056 | 3.0 | LOS A | 0.3 | 6.4 | 0.02 | 0.00 | 35.6 |
| East: Old San Gabriel Canyon Road | | | | | | | | | | | |
| 1 | L2 | 38 | 2.0 | 0.030 | 2.9 | LOS A | 0.1 | 3.3 | 0.15 | 0.04 | 33.5 |
| 16 | R2 | 2 | 2.0 | 0.030 | 2.9 | LOS A | 0.1 | 3.3 | 0.15 | 0.04 | 32.6 |
| Appro | ach | 40 | 2.0 | 0.030 | 2.9 | LOS A | 0.1 | 3.3 | 0.15 | 0.04 | 33.4 |
| North: | SR-39 | | | | | | | | | | |
| 7 | L2 | 1 | 2.0 | 0.074 | 3.2 | LOS A | 0.3 | 8.5 | 0.14 | 0.04 | 35.9 |
| 4 | T1 | 100 | 2.0 | 0.074 | 3.2 | LOS A | 0.3 | 8.5 | 0.14 | 0.04 | 35.9 |
| Approach | | 101 | 2.0 | 0.074 | 3.2 | LOS A | 0.3 | 8.5 | 0.14 | 0.04 | 35.9 |
| All Vehicles | | 220 | 2.0 | 0.074 | 3.1 | LOS A | 0.3 | 8.5 | 0.09 | 0.03 | 35.3 |

Level of Service (LOS) Method: Delay & v/c (HCM 2010).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010). Roundabout Capacity Model: US HCM 2010.

HCM Delay Formula option is used. Control Delay does not include Geometric Delay since Exclude Geometric Delay option applies. Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Processed: Friday, October 09, 2015 3:36:42 PM SIDRA INTERSECTION 6.0.24.4877 Project: U:\UcJobs_09100-09500_09300\09321\SIDRA\SR-39-Old San Gabriel Caenyon Rd.sip6 8003765, 6021005, URBAN CROSSROADS, INC., PLUS / 1PC

