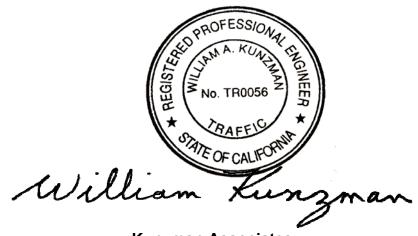


# CACTUS AVENUE CANNABIS FACILITY TRAFFIC IMPACT ANALYSIS July 17, 2024

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#### I. INTRODUCTION

The purpose of this report is to provide an assessment of the traffic impacts resulting from the development of the proposed Cactus Avenue Cannabis Facility project and to identify the traffic mitigation measures necessary to maintain the established level of service standard for the elements of the impacted roadway system. The traffic issues related to the proposed land use and development have been evaluated in the context of the California Environmental Quality Act.

The City of Adelanto is the lead agency responsible for preparation of the traffic impact analysis, in accordance with California Environmental Quality Act authorizing legislation. This report analyzes traffic impacts for the anticipated opening date with partial occupancy of the development in Opening Year 2025, at which time it will be generating trips at its full potential, and for the current traffic forecast year, which is the Year 2045.

Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with those terms unique to transportation engineering, a glossary of terms is provided in Appendix A.

#### A. <u>Project Description</u>

The proposed development is located north of Cactus Avenue between Beaver Road and Koala Road in the City of Adelanto. A vicinity map showing the project location is provided on Figure 1.

The proposed project is proposed to be developed with 80,000 square feet of the Marijuana Cultivation and Processing land use. Figure 2 illustrates the project site plan.

#### B. Study Area

Regional access to the project site is mainly provided by the US-395. Local access is provided by various roadways in the vicinity of the site. The north-south roadways expected to provide local access include Koala Road, Bellflower Street, and US-395. The east-west roadway which will be most affected by the project is Rancho Road.

#### C. Analysis Methodology

The analysis of the traffic impacts from the proposed development and the assessment of the required mitigation measures were based on an evaluation of the existing and forecast traffic conditions in the vicinity of the site with and without the project. The following analysis years are considered in this report:

- Existing Conditions (2024)
- Existing Plus Project Conditions
- Project Opening Year Conditions (2025)
- Horizon Year Conditions (2045)

Existing intersection traffic conditions were established through morning and evening peak hour traffic counts obtained by Kunzman Associates from October 2023 and June 2024 (see Appendix B). In addition, truck classification counts were conducted at the study area intersections. The existing percent of trucks was used in the conversion of trucks to Passenger Car Equivalent's (see Appendix C).

Project traffic volumes for all future projections were estimated using the manual approach. Trip generation has been based upon rates obtained from the Institute of Transportation Engineers, <u>Trip Generation Manual</u>, 11th Edition, 2017.

The distributions of the project trips were based on existing travel patterns calculated using existing traffic counts. This methodology was previously approved by the City of Adelanto Traffic Engineer.

The average daily traffic volume forecasts have been determined using the growth increment approach on the San Bernardino Transportation Analysis Model (SBTAM) traffic model Year 2016 and Year 2040 average daily traffic volume forecasts (see Appendix C). Traffic model plots are included in Appendix D. This difference defines the growth in traffic over the 24 year period. The incremental growth in average daily traffic volume has been factored to reflect the forecast growth between Year 2023 and Year 2040. For this purpose, linear growth between the Year 2016 base condition and the forecast Year 2040 condition was assumed. Since the increment between Year 2024 and Year 2040 is 16 years of the 24 year time frame, a factor of 0.67 (i.e., 16/24) was used.

The Year 2045 without project daily and peak hour directional roadway segment volume forecasts have been determined using the growth increment approach on the SBTAM traffic model Year 2016 and Year 2040 peak hour The growth increment calculation worksheets are shown in volumes. Appendix C. Current peak hour intersection approach/departure data is a necessary input to this approach. The existing traffic count data serves as both the starting point for the refinement process, and also provides important insight into current travel patterns and the relationship between peak hour and daily traffic conditions. The initial turning movement proportions are estimated based upon the relationship of each approach leg's forecast traffic volume to the other legs forecast volumes at the intersection. The initial estimate of turning movement proportions is then entered into a spreadsheet program consistent with the National Cooperative Highway Research Program Report 255. A linear programming algorithm is used to calculate individual turning movements that match the known directional

roadway segment volumes computed in the previous step. This program computes a likely set of intersection turning movements from intersection approach counts and the initial turning proportions from each approach leg.

The Opening Year (2025) traffic volumes have been interpolated from the Year 2040 traffic volumes based upon a portion of the future growth increment.

Year 2045 traffic volumes have also been interpolated from the Year 2040 traffic volumes based upon a portion of the future growth increment. Project traffic is then added to the new future base volumes. Quality control checks and forecast adjustments were performed as necessary to ensure that all future traffic volume forecasts reflect a minimum of 10% growth over existing traffic volumes. The result of this traffic forecasting procedure is a series of traffic volumes suitable for traffic operations analysis.

The technique used to assess the capacity needs of an intersection is known as the Intersection Delay Method (see Appendix F) based on the <u>Highway Capacity Manual</u> – Transportation Research Board Special Report 209. To calculate delay, the volume of traffic using the intersection is compared with the capacity of the intersection. The signalized intersections are considered deficient (Level of Service F) if the overall intersection critical volume to capacity ratio equals or exceeds 1.0, even if the Level of Service defined by the delay value is below the defined Level of Service standard. The volume to capacity ratio is defined as the critical volumes divided by the intersection capacity. A volume to capacity ratio greater than 1.0 implies an infinite queue.

The Level of Service analysis for signalized intersections has been performed using optimized signal timing. This analysis has included an assumed lost time of two seconds per phase. Signal timing optimization has considered pedestrian safety and signal coordination requirements. Appropriate time for pedestrian crossings has also been considered in the signalized intersection analysis. The following formula has been used to calculate the pedestrian minimum times for all Highway Capacity Manual runs:

(Curb to curb distance) / (3.5 feet/second) + 7 seconds

For Existing, Existing Plus Project, and Opening Year (2025) traffic conditions, saturation flow rates of 1,800 vehicles per hour of green for through and right turn lanes and 1,700 vehicles per lane for single left turn lanes, 1,600 vehicles per lane for dual left turn lanes and 1,500 vehicles per lane for triple left turn lanes have been assumed for the capacity analysis.

For Year 2045 traffic conditions, saturation flow rates of 1,900 vehicles per hour of green for through and right turn lanes and 1,800 vehicles per lane for single left turn lanes, 1,700 vehicles per lane for dual left turn lanes and

1,800 vehicles per lane for double right turn lanes have been assumed for the capacity analysis.

The peak hour traffic volumes have been adjusted to peak 15 minute volumes for analysis purposes using the existing observed peak 15 minute to peak hour factors for all scenarios analyzed. Where feasible improvements in accordance with the local jurisdiction's General Plan and which result in acceptable operations cannot be identified, the Year 2045 peak hour factor has been adjusted upwards to 0.95. This is to account for the effects of congestion on peak spreading. Peak spreading refers to the tendency of traffic to spread more evenly across time as congestion increases.

The traffic mitigation needs anticipated at the time of the project opening with full occupancy and for the Year 2045 were combined into a summary of mitigation requirements and costs. The mitigation cost responsibility for the proposed development was estimated based on the percent of the increase in traffic from the existing condition to the Year 2045 that was attributed to the project generated trips.

#### D. Definition of Deficiency and Significant Impact

The following definitions of deficiencies and significant impacts have been developed in accordance with the City of Adelanto requirements.

## 1. <u>Definition of Deficiency</u>

The definition of an intersection deficiency has been obtained from the City of Adelanto General Plan. The General Plan states that peak hour intersection operations of Level of Service D or better are generally acceptable. Therefore, any intersection operating at Level of Service E or F will be considered deficient.

For freeway facilities, the Congestion Management Program controls the definition of deficiency for purposes of this study. The Congestion Management Program definition of deficiency is based on maintaining a Level of Service standard of Level of Service E or better, except where an existing Level of Service F condition is identified in the Congestion Management Program document (San Bernardino County Congestion Management Program Table 2-1). A Congestion Management Program deficiency is, therefore, defined as any freeway segment operating or projected to operate at Level of Service F, unless the segment is identified explicitly in the Congestion Management Program document.

The identification of a Congestion Management Program deficiency requires further analysis in satisfaction of Congestion Management Program requirements, including:

- Evaluation of the mitigation measures required to restore traffic operations to an acceptable level with respect to Congestion Management Program Level of Service standards.
- Calculation of the project share of new traffic on the impacted Congestion Management Program facility during peak hours of traffic.
- Estimation of the cost required to implement the improvements required to restore traffic operations to an acceptable Level of Service as described above.

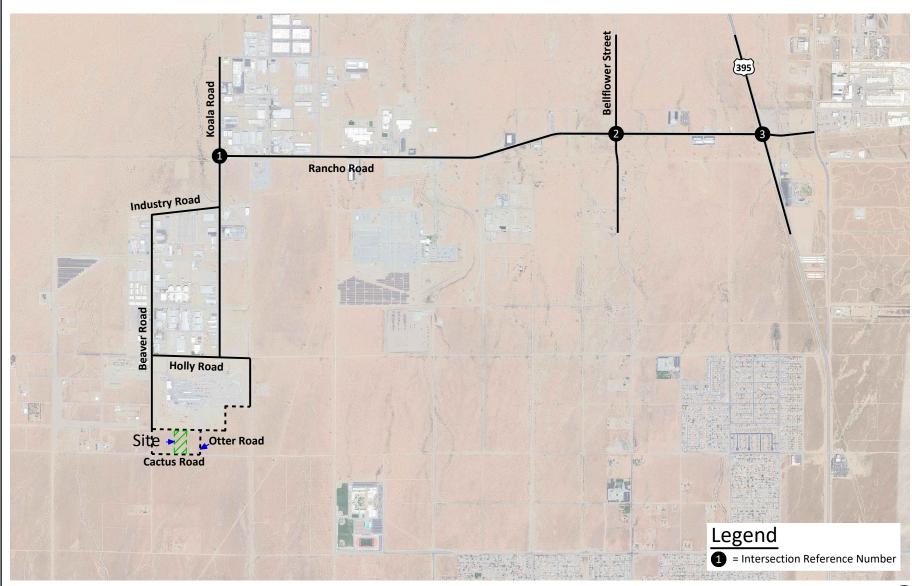
This study incorporates each of these aspects for all locations where a Congestion Management Program deficiency is identified.

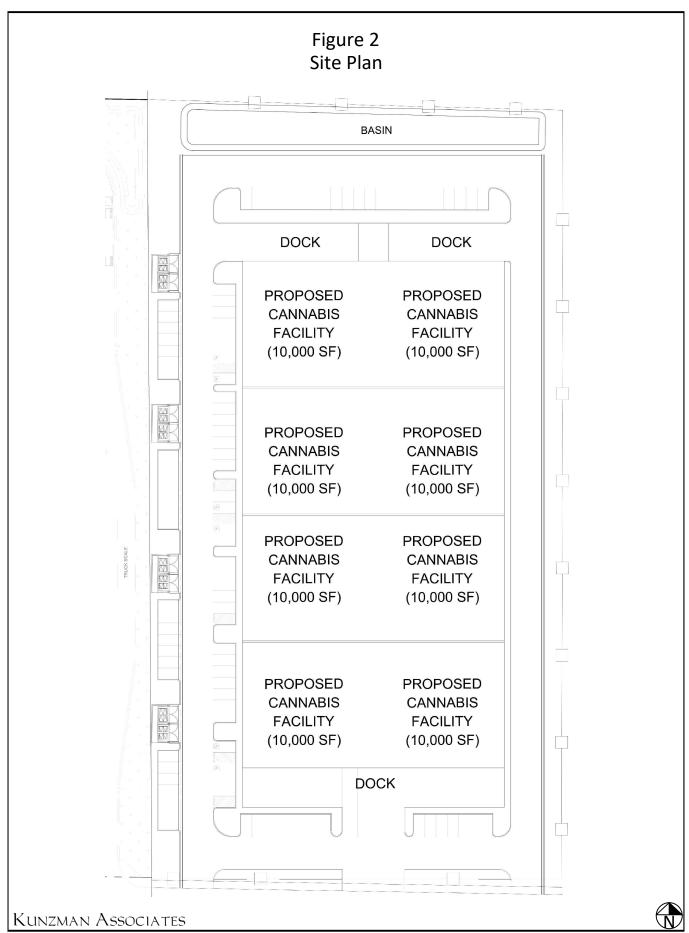
### 2. <u>Definition of Significant Impact</u>

The identification of significant impacts is a requirement of the California Environmental Quality Act. The City of Adelanto Plan and Circulation Element have been adopted in accordance with California Environmental Quality Act requirements, and any roadway improvements within the City of Adelanto that are consistent with these documents are not considered a significant impact, so long as the project contributes its "fair share" funding for improvements.

A traffic impact is considered significant if the project both: i) contributes measurable traffic to and ii) substantially and adversely changes the Level of Service at any off-site location projected to experience deficient operations under foreseeable cumulative conditions, where feasible improvements consistent with the City of Adelanto General Plan cannot be constructed.

Figure 1 Project Location Map





#### II. EXISTING CONDITIONS

## A. Existing Roadway System

Figure 3 identifies the existing conditions for the study area roadways. The number of through lanes for existing roadways and the existing intersection controls are identified.

Regional access to the project site is mainly provided by the US-395. Local access is provided by various roadways in the vicinity of the site. The north-south roadways expected to provide local access include Koala Road, Bellflower Street, and US-395. The east-west roadway which will be most affected by the project is Rancho Road.

#### B. **Existing Volumes**

Figure 4 depicts the existing average daily traffic volumes. The existing average daily traffic volumes were factored from peak hour counts (see Appendix B) obtained by Kunzman Associates using the following formula for each intersection leg:

PM Peak Hour (Approach + Exit Volume) x 11.5 = Daily Leg Volume.

This is a conservative estimate and may over estimate the average daily traffic volumes.

Existing intersection traffic conditions were established through morning and evening peak period traffic counts obtained by Kunzman Associates from October 2023 and June 2024 (see Appendix B). The existing traffic volumes are shown In Appendix E. Explicit peak hour factors have been calculated using the data collected for this effort as well. The morning and evening peak hour traffic volumes were identified by counting the two-hour periods from 7:00 AM – 9:00 AM and 4:00 PM – 6:00 PM.

#### C. Existing Level of Service

The Existing delay and Level of Service for the intersection in the vicinity of the project are shown in Table 1. The study area intersections currently operate at acceptable Levels of Service during the peak hours for existing traffic conditions. Existing delay worksheets are provided in Appendix E.

#### D. Planned Transportation Improvements and Relationship to General Plan

The City of Adelanto General Plan Circulation Element is shown on Figure 5. Existing and future roadways are included in the Circulation Element of the

General Plan and are graphically depicted on Figure 5. This figure shows the nature and extent of arterial highways that are needed to adequately serve the ultimate development depicted by the Land Use Element of the General Plan. The City of Adelanto General Plan roadway cross-sections are illustrated on Figure 6.

Table 1

Existing Intersection Delay and Level of Service

			Intersection Approach Lanes										Peak Hour			
		Traffic	١	Northbound			Southbound			Eastbound			Vestboun	d	Delay	/-LOS <sup>2</sup>
Intersection	Jurisdiction	Control <sup>3</sup>	L	T	R	L	Т	R	L	Т	R	L	T	R	Morning	Evening
Koala Road (NS) at:																
Rancho Road (EW) - #1	City of Adelanto	AWS	0.5	0.5	1	0	<1>	0	0	<1>	0	0	<1>	0	9.0-A	8.2-A
Bellflower Street (NS) at:																
Rancho Road (EW) - #2	City of Adelanto	AWS	0.5	0.5	1	0.5	0.5	1	1	1.5	0.5	1	1.5	0.5	10.5-B	9.7-A
US-395 (NS) at:																
Rancho Road (EW) - #3	California Department of Transportation/City of Adelanto	TS	1	2	d	1	1.5	0.5	1	2	d	1	1.5	0.5	14.7-B	13.6-B

<sup>&</sup>lt;sup>1</sup> When a right turn lane is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes. L = Left; T = Through; R = Right; <1> = Shared Left/Through/Right Lane; d = Defacto Right

<sup>&</sup>lt;sup>2</sup> Delay and Level of Service has been calculated using the following analysis software: Vistro, Version 6.00-02. Per the Highway Capacity Manual, overall average intersection delay and Level of Service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and Level of Service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>&</sup>lt;sup>3</sup> AWS = All Way Stop; TS = Traffic Signal

Figure 3
Existing Through Travel Lanes and Intersection Controls

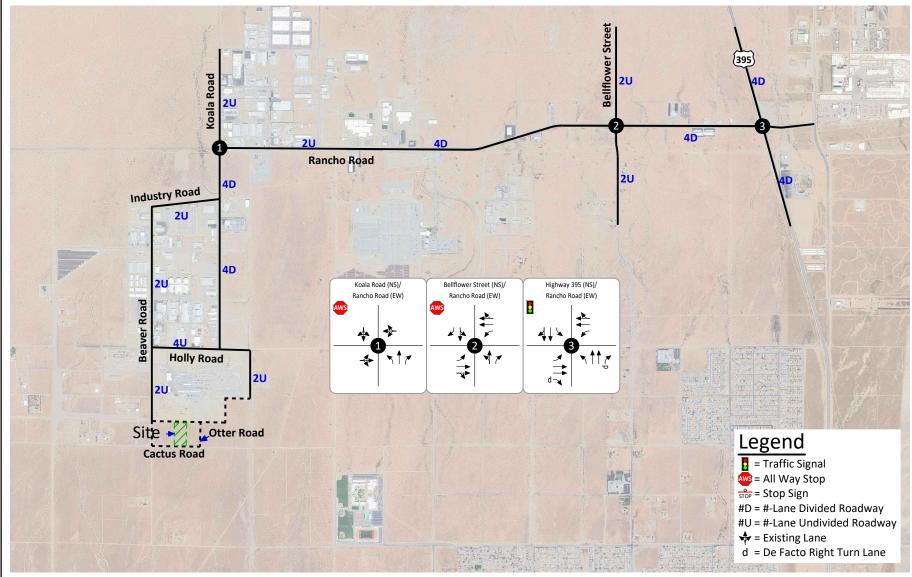
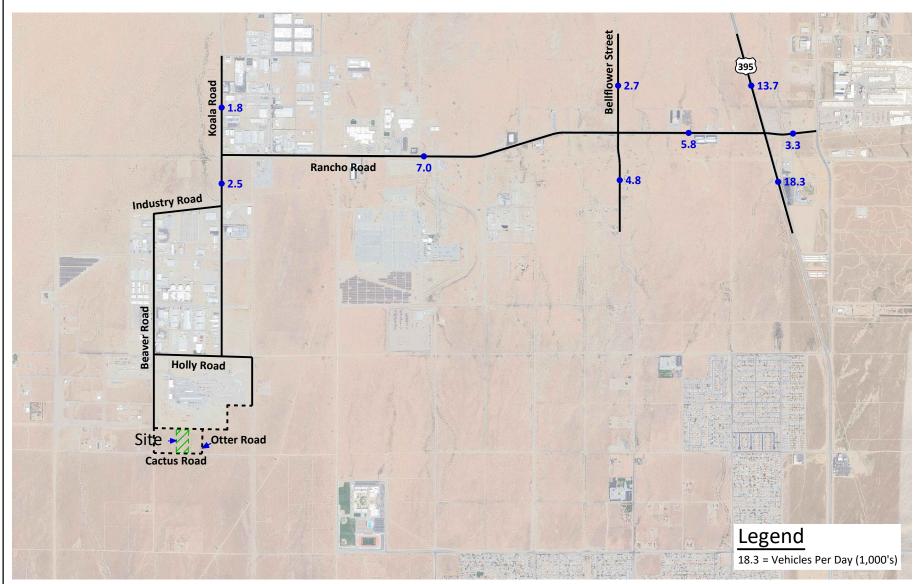
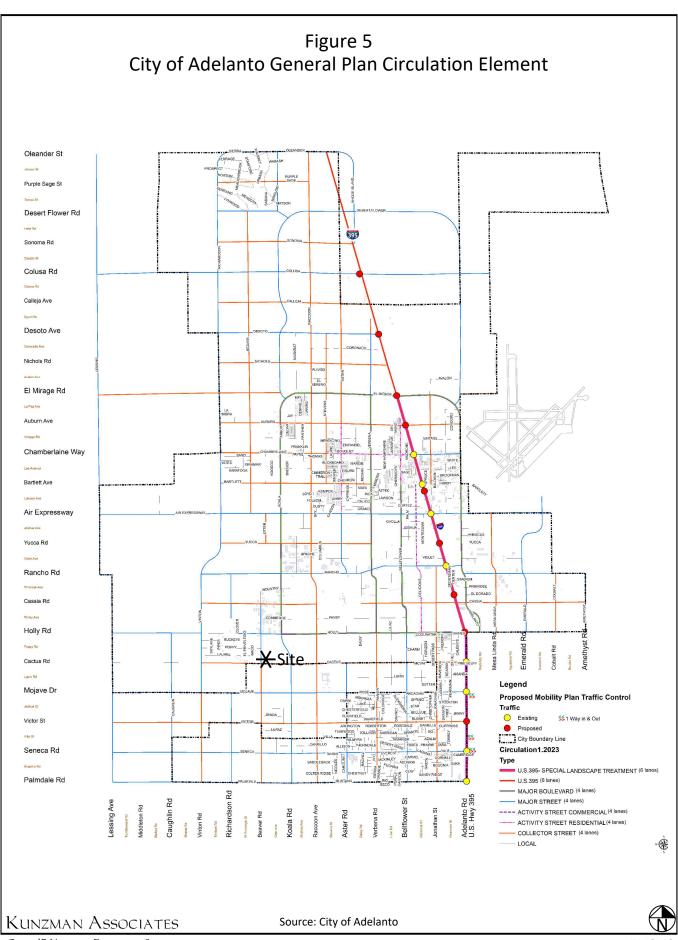
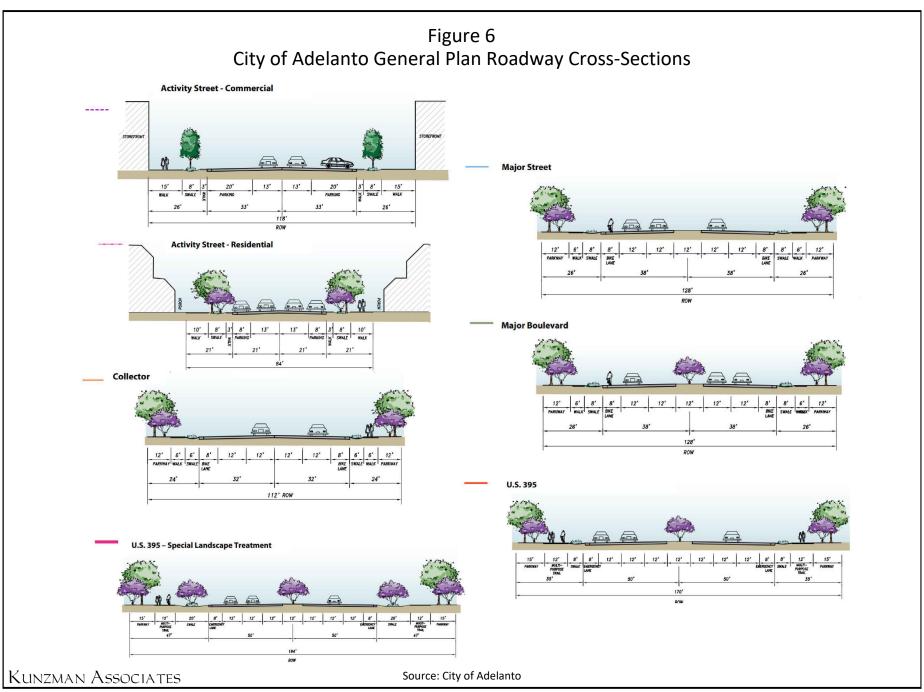


Figure 4
Existing Average Daily Traffic Volumes







#### III. PROJECT TRAFFIC

#### A. Project Description

The proposed project is proposed to be developed with 80,000 square feet of the Marijuana Cultivation and Processing land use.

#### B. Trip Generation

The trips generated by the project are determined by multiplying an appropriate trip generation rate by the quantity of land use. Trip generation rates are based on the assumption that energy costs, the availability of roadway capacity, the availability of vehicles to drive, and life styles remain similar to what are known today. A major change in these variables may affect trip generation rates.

Trip generation rates were determined for daily traffic and morning peak hour inbound and outbound traffic, and evening peak hour inbound and outbound traffic for the proposed land uses. By multiplying the trip generation rates by the land use quantities, the traffic volumes are determined. The project trip generation is based upon rates obtained from the Institute of Transportation Engineers, Trip Generation Manual, 11th Edition, 2017.

As shown in Table 2, the proposed development is projected to generate a total of approximately 552 daily vehicle trips, 55 of which will occur during the morning peak hour and 51 of which will occur during the evening peak hour.

#### C. <u>Trip Distribution</u>

Figure 7 contains the directional distributions of the project trips for the proposed land uses.

To determine the trip distributions for the proposed project, peak hour traffic counts of the existing directional distribution of traffic for existing areas in the vicinity of the site, and other additional information on future development and traffic impacts in the area were reviewed.

#### D. <u>Trip Assignment</u>

Based on the identified trip generation and distributions, project average daily traffic volumes have been calculated and shown on Figure 8.

Table 2

Project Trip Generation<sup>1</sup>

				Peak Hour							
				Morning							
Land Use	Quantity	Units <sup>2</sup>	Inbound	Outbound	Total	Inbound	Outbound	Total	Daily <sup>3</sup>		
Trip Generation Rates											
Marijuana Cultivation and Processing (190)	1.000	TSF	0.64	0.05	0.69	0.18	0.46	0.64	6.90		
Trips Generated											
Marijuana Cultivation and Processing (190)	80.000	TSF	51	4	55	14	37	51	552		

<sup>&</sup>lt;sup>1</sup> Source: Institute of Transportation Engineers, <u>Trip Generation</u>, 11th Edition, 2021, Land Use Category 190.

<sup>&</sup>lt;sup>2</sup> TSF = Thousand Square Feet

<sup>&</sup>lt;sup>3</sup> No daily trip generation rates are available. To remain conservative, daily trip generation has been calculated by multiplying the morning trip generation rates by a factor of ten.

Figure 7 Project Trip Distribution

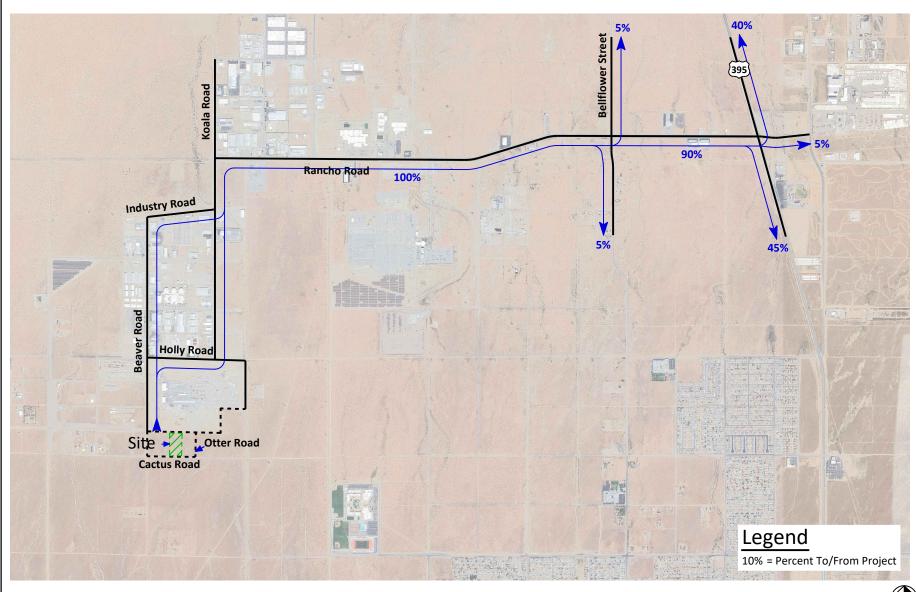
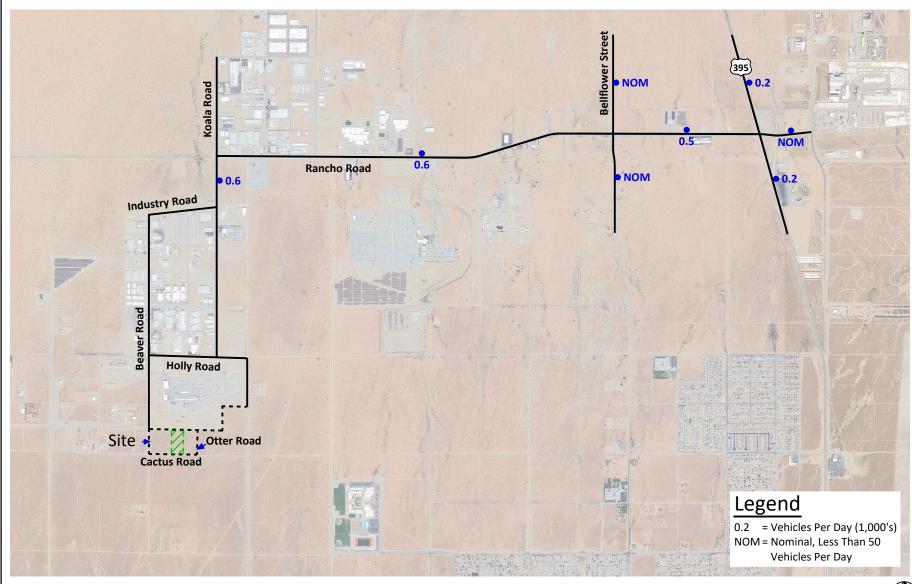


Figure 8
Project Average Daily Traffic Volumes



#### IV. FUTURE CONDITIONS

#### A. Future Volumes

As described within Section I.C., the Year 2045 average daily traffic volume forecasts with the project are developed using a growth increment process based on volumes predicted by the SBTAM traffic model Year 2016 and Year 2040 traffic models. The growth increment for Year 2040 on each roadway segment is the increase in SBTAM traffic model volumes from existing Year 2023 to Year 2040. The final Year 2045 roadway segment volume used for analysis purposes is then determined by adding the Year 2040 growth increment volume to the existing counted volume.

The Opening Year (2025) traffic projections have been interpolated between Year 2040 traffic volumes and existing traffic volumes utilizing a portion of the growth increment (see Section I.C.). Project traffic volumes for all future projections were estimated using the manual approach.

#### B. Average Daily Traffic Volumes

#### 1. Existing Plus Project

The average daily traffic volumes for Existing Plus Project traffic conditions have been determined. Existing Plus Project average daily traffic volumes are shown on Figure 9.

#### 2. Opening Year (2025) Without Project

The average daily traffic volumes for Opening Year (2025) Without Project traffic conditions have been determined as described above using the growth interpolation process (see Section I.C). Opening Year (2025) Without Project average daily traffic volumes are shown on Figure 10.

#### 3. Opening Year (2025) With Project

The average daily traffic volumes for Opening Year (2025) With Project traffic conditions have been determined as described above using the volume addition process (see Section I.C). Opening Year (2025) With Project average daily traffic volumes are shown on Figure 11.

#### 4. Year 2045 Without Project

The average daily traffic volumes for Year 2045 Without Project traffic conditions have been determined as described above using the growth

increment process (see Section I.C). Year 2045 Without Project average daily traffic volumes are shown on Figure 12.

#### 5. Year 2045 With Project

The average daily traffic volumes for Year 2045 With Project traffic conditions have been determined as described above using the volume addition process (see Section I.C). Year 2045 With Project average daily traffic volumes are shown on Figure 13.

#### C. Future Level of Service

## 1. Existing Plus Project

The Existing Plus Project delay and Level of Service for the study area roadway network are shown in Table 3. Existing Plus Project delay calculation worksheets are provided in Appendix E. Existing Plus Project morning and evening peak hour intersection turning movement volumes are shown In Appendix E, respectively.

For Existing Plus Project traffic conditions the study area intersections are projected to operate at acceptable Levels of Service during the peak hours.

## 2. Opening Year (2025) Without Project

The Opening Year (2025) Without Project delay and Level of Service for the study area roadway network without the proposed project are shown in Table 4. Opening Year (2025) Without Project delay calculation worksheets are provided in Appendix E. Opening Year (2025) Without Project morning and evening peak hour intersection turning movement volumes are shown in Appendix E.

For Opening Year (2025) Without Project traffic conditions, the study area intersections are projected to operate at acceptable Levels of Service during the peak hours.

## 3. Opening Year (2025) With Project

The Opening Year (2025) With Project delay and Level of Service for the study area roadway network are shown in Table 5 without and with improvements. Opening Year (2025) With Project delay calculation worksheets are provided in Appendix E. Opening Year (2025) With Project morning and evening peak hour intersection turning movement volumes are shown in Appendix E.

For Opening Year (2025) With Project traffic conditions, the study area intersections are projected to operate at acceptable Levels of Service during the peak hours.

#### 4. Year 2045 Without Project

The Year 2045 without project delay and Level of Service for the study area roadway network without the proposed project are shown in Table 6 without and with improvements. Year 2045 Without Project delay calculation worksheets are provided in Appendix E. Year 2045 Without Project morning and evening peak hour intersection turning movement volumes are shown in Appendix E.

For Year 2045 Without Project traffic conditions, traffic conditions the study area intersections are projected to operate at acceptable Levels of Service during the peak hours.

## 5. Year 2045 With Project

The Year 2045 With Project delay and Level of Service for the study area roadway network are shown in Table 7 without and with improvements. Year 2045 With Project delay calculation worksheets are provided in Appendix E. Year 2045 With Project morning and evening peak hour intersection turning movement volumes are shown in Appendix E.

For Year 2045 With Project traffic conditions, traffic conditions the study area intersections are projected to operate at acceptable Levels of Service during the peak hours.

Table 3

Existing Plus Project Intersection Delay and Level of Service

			Intersection Approach Lanes <sup>1</sup>												Peak Hour	
		Traffic	1	Northbound			Southbound			Eastbound			Nestboun (	Delay	/-LOS <sup>2</sup>	
Intersection	Jurisdiction	Control	L	T	R	L	Т	R	L	Т	R	L	Т	R	Morning	Eveninç
Koala Road (NS) at:																
Rancho Road (EW) - #1	City of Adelanto	AWS	0.5	0.5	1	0	<1>	0	0	<1>	0	0	<1>	0	9.6-A	8.4-A
Bellflower Street (NS) at:																
Rancho Road (EW) - #2	City of Adelanto	AWS	0.5	0.5	1	0.5	0.5	1	1	1.5	0.5	1	1.5	0.5	11.0-B	9.9-A
US-395 (NS) at:																
Rancho Road (EW) - #3	California Department of Transportation/City of Adelanto	TS	1	2	d	1	1.5	0.5	1	2	d	1	1.5	0.5	15.0-B	13.9-B

<sup>&</sup>lt;sup>1</sup> When a right turn lane is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes. L = Left; T = Through; R = Right; <1> = Shared Left/Through/Right Lane; d = Defacto Right

<sup>&</sup>lt;sup>2</sup> Delay and Level of Service has been calculated using the following analysis software: Vistro, Version 6.00-02. Per the Highway Capacity Manual, overall average intersection delay and Level of Service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and Level of Service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>&</sup>lt;sup>3</sup> AWS = All Way Stop; TS = Traffic Signal

Table 4

Opening Year (2025) Without Project Intersection Delay and Level of Service

			Intersection Approach Lanes <sup>1</sup>												Peak Hour	
		Traffic	1	Northbound			Southbound			Eastbound			Vestboun	Delay	/-LOS <sup>2</sup>	
Intersection	Jurisdiction	Control	L	Т	R	L	Т	R	L	T	R	L	Т	R	Morning	Eveninç
Koala Road (NS) at:																
Rancho Road (EW) - #1	City of Adelanto	AWS	0.5	0.5	1	0	<1>	0	0	<1>	0	0	<1>	0	9.0-A	8.3-A
Bellflower Street (NS) at:																
Rancho Road (EW) - #2	City of Adelanto	AWS	0.5	0.5	1	0.5	0.5	1	1	1.5	0.5	1	1.5	0.5	10.6-B	9.7-A
US-395 (NS) at:																
Rancho Road (EW) - #3	California Department of Transportation/City of Adelanto	TS	1	2	d	1	1.5	0.5	1	2	d	1	1.5	0.5	14.5-B	13.3-B

<sup>&</sup>lt;sup>1</sup> When a right turn lane is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes. L = Left; T = Through; R = Right; <1> = Shared Left/Through/Right Lane; d = Defacto Right

<sup>&</sup>lt;sup>2</sup> Delay and Level of Service has been calculated using the following analysis software: Vistro, Version 6.00-02. Per the Highway Capacity Manual, overall average intersection delay and Level of Service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and Level of Service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>&</sup>lt;sup>3</sup> AWS = All Way Stop; TS = Traffic Signal

Table 5

Opening Year (2025) With Project Intersection Delay and Level of Service

				Intersection Approach Lanes <sup>1</sup>											Peak Hour	
		Traffic	1	Northbound			Southbound			Eastbound			Westbound			/-LOS <sup>2</sup>
Intersection	Jurisdiction	Control	L	T	R	L	T	R	L	T	R	L	T	R	Morning	Evening
Koala Road (NS) at:																
Rancho Road (EW) - #1	City of Adelanto	AWS	0.5	0.5	1	0	<1>	0	0	<1>	0	0	<1>	0	9.6-A	8.5-A
Bellflower Street (NS) at:																
Rancho Road (EW) - #2	City of Adelanto	AWS	0.5	0.5	1	0.5	0.5	1	1	1.5	0.5	1	1.5	0.5	11.1-B	10.0-A
US-395 (NS) at:																
Rancho Road (EW) - #3	California Department of Transportation/City of Adelanto	TS	1	2	d	1	1.5	0.5	1	2	d	1	1.5	0.5	14.8-B	13.7-B

<sup>&</sup>lt;sup>1</sup> When a right turn lane is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes. L = Left; T = Through; R = Right; <1> = Shared Left/Through/Right Lane; d = Defacto Right

<sup>&</sup>lt;sup>2</sup> Delay and Level of Service has been calculated using the following analysis software: Vistro, Version 6.00-02. Per the Highway Capacity Manual, overall average intersection delay and Level of Service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and Level of Service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>&</sup>lt;sup>3</sup> AWS = All Way Stop; TS = Traffic Signal

Table 6

General Plan Buildout Year (2045) Without Project Intersection Delay and Level of Service

				Intersection Approach Lanes <sup>1</sup>												Hour
		Traffic	1	Northbound			Southbound			Eastbound			Westbound			/-LOS <sup>2</sup>
Intersection	Jurisdiction	Control	L	T	R	L	Т	R	L	T	R	L	Т	R	Morning	Evening
Koala Road (NS) at:																
Rancho Road (EW) - #1	City of Adelanto	AWS	0.5	0.5	1	0	<1>	0	0	<1>	0	0	<1>	0	9.6-A	9.4-A
Bellflower Street (NS) at:																
Rancho Road (EW) - #2	City of Adelanto	AWS	0.5	0.5	1	0.5	0.5	1	1	1.5	0.5	1	1.5	0.5	11.2-B	10.1-B
US-395 (NS) at:																
Rancho Road (EW) - #3	California Department of Transportation/City of Adelanto	TS	1	2	d	1	1.5	0.5	1	2	d	1	1.5	0.5	22.8-C	18.2-B

<sup>&</sup>lt;sup>1</sup> When a right turn lane is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes. L = Left; T = Through; R = Right; <1> = Shared Left/Through/Right Lane; d = Defacto Right

<sup>&</sup>lt;sup>2</sup> Delay and Level of Service has been calculated using the following analysis software: Vistro, Version 6.00-02. Per the Highway Capacity Manual, overall average intersection delay and Level of Service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and Level of Service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>&</sup>lt;sup>3</sup> AWS = All Way Stop; TS = Traffic Signal

Table 7

General Plan Buildout Year (2045) With Project Intersection Delay and Level of Service

				Intersection Approach Lanes <sup>1</sup>											Peak Hour	
		Traffic	١	Northbound		Southbound			Eastbound			Westbound			Delay-LOS <sup>2</sup>	
Intersection	Jurisdiction	Control	L	Т	R	L	Т	R	L	T	R	L	Т	R	Morning	Evening
Koala Road (NS) at:																
Rancho Road (EW) - #1	City of Adelanto	AWS	0.5	0.5	1	0	<1>	0	0	<1>	0	0	<1>	0	10.3-B	9.6-A
Bellflower Street (NS) at:																
Rancho Road (EW) - #2	City of Adelanto	AWS	0.5	0.5	1	0.5	0.5	1	1	1.5	0.5	1	1.5	0.5	11.7-B	10.3-B
US-395 (NS) at:																
Rancho Road (EW) - #3	California Department of Transportation/City of Adelanto	TS	1	2	d	1	1.5	0.5	1	2	d	1	1.5	0.5	24.5-C	19.0-B

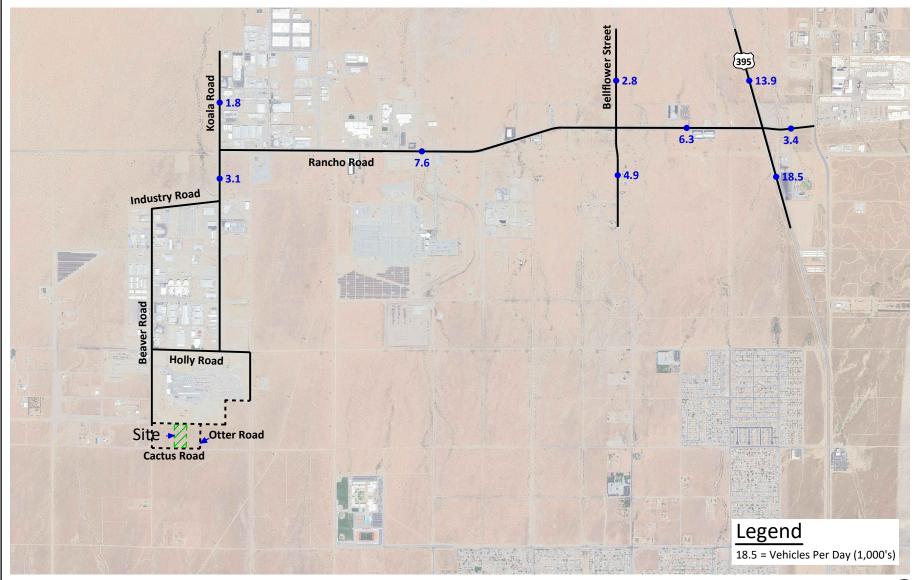
<sup>1</sup> When a right turn lane is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

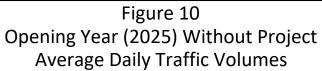
L = Left; T = Through; R = Right; <1> = Shared Left/Through/Right Lane; d = Defacto Right

<sup>&</sup>lt;sup>2</sup> Delay and Level of Service has been calculated using the following analysis software: Vistro, Version 6.00-02. Per the Highway Capacity Manual, overall average intersection delay and Level of Service are shown for intersections with traffic signal or all way stop control. For intersections with cross street stop control, the delay and Level of Service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>&</sup>lt;sup>3</sup> AWS = All Way Stop; TS = Traffic Signal

Figure 9
Existing PlusProject Average Daily Traffic Volumes





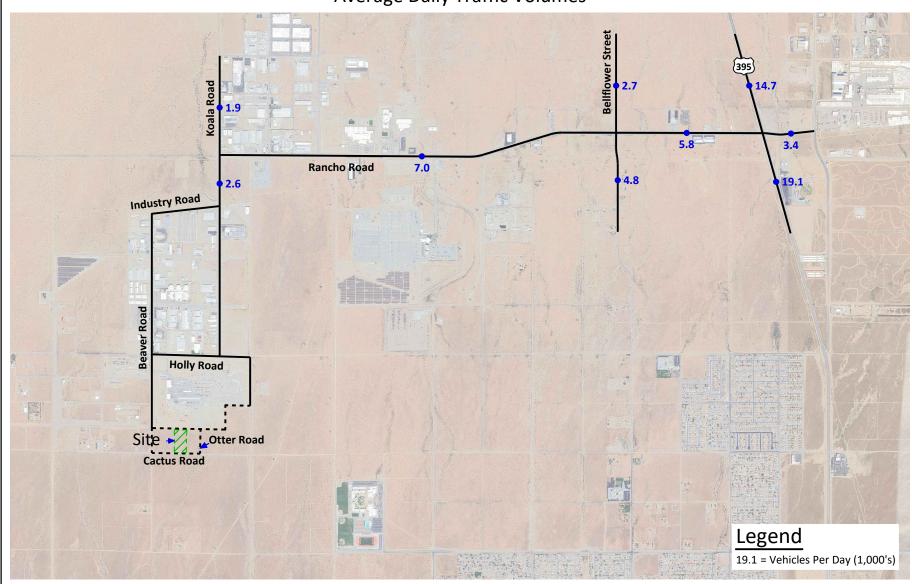


Figure 11 Opening Year (2025) With Project Average Daily Traffic Volumes

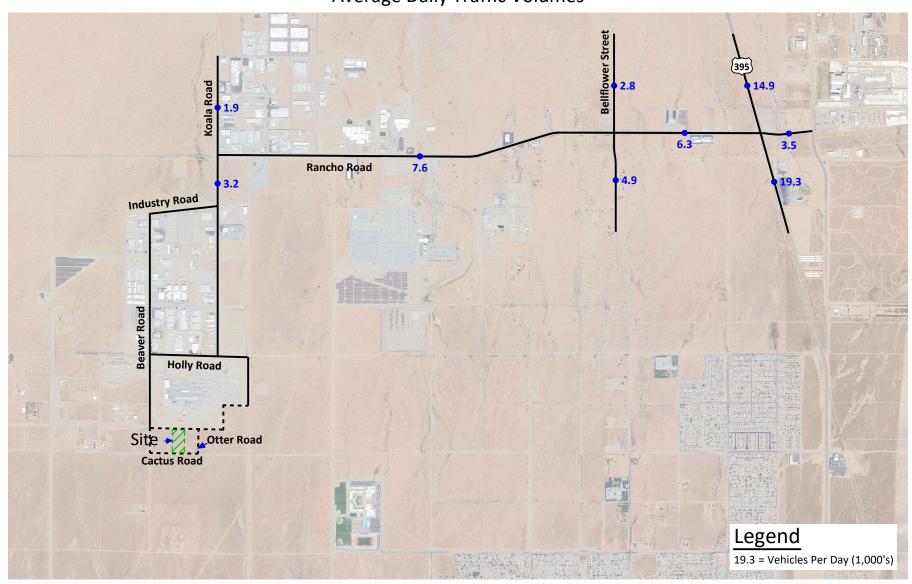


Figure 12 Opening Year (2045) Without Project Average Daily Traffic Volumes

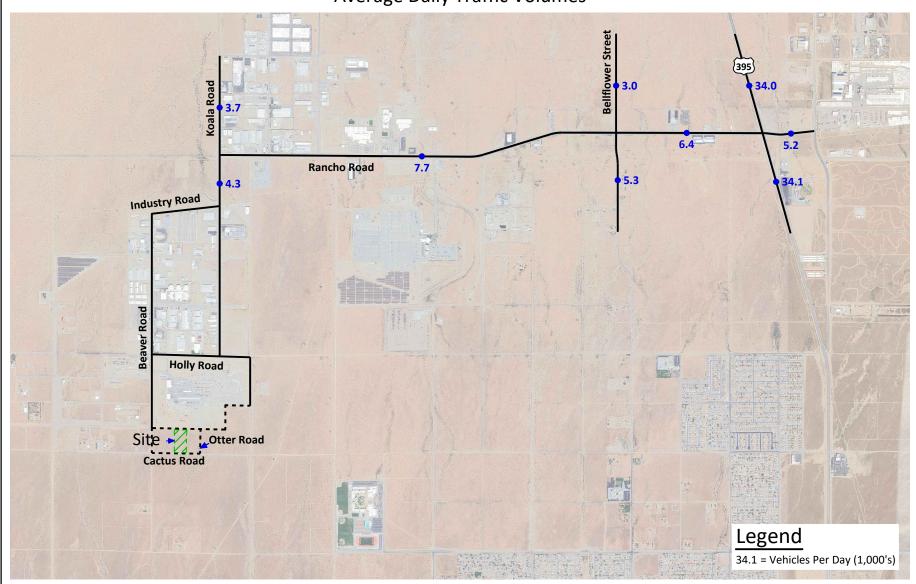
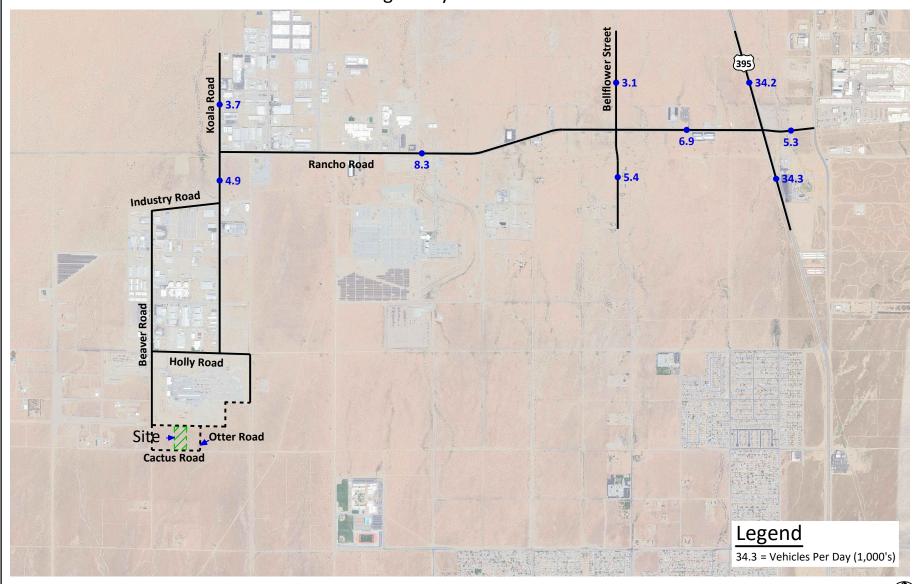




Figure 13 Opening Year (2045) With Project Average Daily Traffic Volumes



#### V. CONCLUSIONS AND RECOMMENDATIONS

### A. <u>Summary</u>

The traffic issues related to the proposed land uses and development have been evaluated in the context of the California Environmental Quality Act.

The City of Adelanto is the lead agency responsible for preparation of the traffic impact analysis, in accordance with California Environmental Quality Act authorizing legislation. This report analyzes traffic impacts for the anticipated opening date with full occupancy of the development in Year 2025, at which time it will be generating trips at its full potential, and for the current traffic forecast year, which is the Year 2045.

The average daily traffic volume forecasts have been determined using the growth increment approach on the San Bernardino Transportation Analysis Model (SBTAM) traffic model Year 2016 and Year 2040 average daily traffic volume forecasts (see Appendix C). Traffic model plots are included in Appendix D. This difference defines the growth in traffic over the 24 year period. The incremental growth in average daily traffic volume has been factored to reflect the forecast growth between Year 2023 and Year 2040. For this purpose, linear growth between the Year 2016 base condition and the forecast Year 2040 condition was assumed. Since the increment between Year 2023 and Year 2040 is 16 years of the 24 year time frame, a factor of 0.67 (i.e., 16/24) was used.

The Year 2045 without project daily and peak hour directional roadway segment volume forecasts have been determined using the growth increment approach on the SBTAM traffic model Year 2016 and Year 2040 peak hour The growth increment calculation worksheets are shown in Appendix C. Current peak hour intersection approach/departure data is a necessary input to this approach. The existing traffic count data serves as both the starting point for the refinement process, and also provides important insight into current travel patterns and the relationship between peak hour and daily traffic conditions. The initial turning movement proportions are estimated based upon the relationship of each approach leg's forecast traffic volume to the other legs forecast volumes at the intersection. The initial estimate of turning movement proportions is then entered into a spreadsheet program consistent with the National Cooperative Highway Research Program Report 255. A linear programming algorithm is used to calculate individual turning movements that match the known directional roadway segment volumes computed in the previous step. This program computes a likely set of intersection turning movements from intersection approach counts and the initial turning proportions from each approach leg.

The Opening Year (2035) traffic volumes have been interpolated from the Year 2040 traffic volumes based upon a portion of the future growth increment.

Year 2045 traffic volumes have also been interpolated from the Year 2040 traffic volumes based upon a portion of the future growth increment. Project traffic is then added to the new future base volumes. Quality control checks and forecast adjustments were performed as necessary to ensure that all future traffic volume forecasts reflect a minimum of 10% growth over existing traffic volumes. The result of this traffic forecasting procedure is a series of traffic volumes suitable for traffic operations analysis.

### **B.** Existing Conditions

Regional access to the project site is mainly provided by the US-395. Local access is provided by various roadways in the vicinity of the site. The north-south roadways expected to provide local access include Koala Road, Bellflower Street, and US-395. The east-west roadway which will be most affected by the project is Rancho Road.

The existing delay and Level of Service for the intersection in the vicinity of the project are shown in Table 1. The study area intersections currently operate at acceptable Levels of Service during the peak hours for existing traffic conditions. Existing delay worksheets are provided in Appendix E.

### C. Project Traffic

The trips generated by the project are determined by multiplying an appropriate trip generation rate by the quantity of land use. Trip generation rates are based on the assumption that energy costs, the availability of roadway capacity, the availability of vehicles to drive, and life styles remain similar to what are known today. A major change in these variables may affect trip generation rates.

Trip generation rates were determined for daily traffic and morning peak hour inbound and outbound traffic, and evening peak hour inbound and outbound traffic for the proposed land uses. By multiplying the trip generation rates by the land use quantities, the traffic volumes are determined. The project trip generation is based upon rates obtained from the Institute of Transportation Engineers, Trip Generation Manual, 11th Edition, 2017.

As shown in Table 2, the proposed development is projected to generate a total of approximately 552 daily vehicle trips, 55 of which will occur during the morning peak hour and 51 of which will occur during the evening peak hour.

Figures 7 and 8 contain the directional distributions of the project trips for the proposed land uses.

To determine the trip distributions for the proposed project, peak hour traffic counts of the existing directional distribution of traffic for existing areas in the vicinity of the site, and other additional information on future development and traffic impacts in the area were reviewed.

### D. Future Conditions

An Existing Plus Project, Opening Year (2025), and Year 2045 analysis are included in this report. The Existing Plus Project delay and Level of Service for the study area roadway network are shown in Table 3. The Opening Year (2025) Without Project delay and Level of Service for the study area roadway network are shown in Table 4. The Opening Year (2025) With Project Phase I delay and Level of Service for the study area roadway network are shown in Table 5. The Year 2045 without project delay and Level of Service for the study area roadway network are shown in Table 6 without and with improvements. The Year 2045 With Project delay and Level of Service for the study area roadway network are shown in Table 7 without and with improvements.

For Existing Plus Project traffic conditions the study area intersections are projected to operate at acceptable Levels of Service during the peak hours.

For Opening Year (2025) Without Project traffic conditions, the study area intersections are projected to operate at acceptable Levels of Service during the peak hours.

For Opening Year (2025) With Project traffic conditions, the study area intersections are projected to operate at acceptable Levels of Service during the peak hours.

For Year 2045 Without Project traffic conditions, the study area intersections are projected to operate at acceptable Levels of Service during the peak hours.

For Year 2045 With Project traffic conditions, the study area intersections are projected to operate at acceptable Levels of Service during the peak hours.

#### E. Recommendations

Site-specific circulation and access recommendations are depicted on Figure 14.

### 1. On-Site Improvements

The project site should provide sufficient parking spaces to meet City of Adelanto parking code requirements in order to service on-site parking demand.

On-site traffic signing and striping should be implemented in conjunction with detailed construction plans for the project.

Sight distance at each project access should be reviewed with respect to California Department of Transportation/City of Adelanto standards in conjunction with the preparation of final grading, landscaping, and street improvement plans.

### 2. Off-Site Improvements

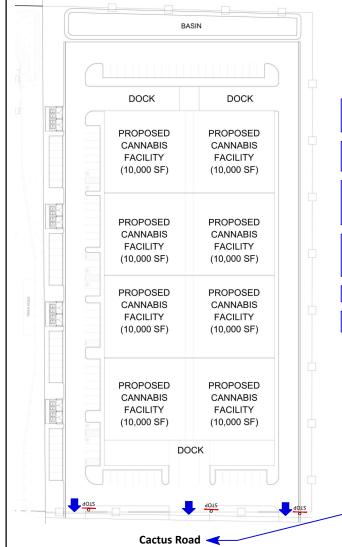
As is the case for any roadway design, the City of Adelanto should periodically review traffic operations in the vicinity of the project once the project is constructed to assure that the traffic operations are satisfactory.

Construct a two lane extension of Beaver Road from the existing southern terminus to Cactus Avenue.

Construct a two lane extension of Cactus Avenue from Beaver Road to the west project boundary.

Construct Cactus Road from west project boundary to the east project boundary at its ultimate half-section width as a Collector Street (112 foot right-of-way) including landscaping and parkway improvements in conjunction with development.

# Figure 14 Circulation Recommendations



The project site should provide sufficient parking spaces to meet City of Adelanto parking code requirements in order to service on-site parking demand.

On-site traffic signing and striping should be implemented in conjunction with detailed construction plans for the project.

Sight distance at each project access should be reviewed with respect to California Department of Transportation/City of Adelanto standards in conjunction with the preparation of final grading, landscaping, and street improvement plans.

As is the case for any roadway design, the City of Adelanto should periodically review traffic operations in the vicinity of the project once the project is constructed to assure that the traffic operations are satisfactory.

Construct a two lane extension of Beaver Road from the existing southern terminus to Cactus Avenue.

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Construct Cactus Road from west project boundary to the east project boundary at its ultimate half-section width as a Collector Street (112 foot right-of-way) including landscaping and parkway improvements in conjunction with development.



KUNZMAN ASSOCIATES



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# <u>APPENDICES</u>

**Appendix A – Glossary of Transportation Terms** 

**Appendix B – Traffic Count Worksheets** 

**Appendix C – Future Growth Increment Calculation Worksheets** 

Appendix D – Model Plots

**Appendix E – Explanation and Calculation of Intersection Delay** 

# **APPENDIX A**

**Glossary of Transportation Terms** 

#### **GLOSSARY OF TRANSPORTATION TERMS**

### **COMMON ABBREVIATIONS**

AC: Acres

ADT: Average Daily Traffic

Caltrans: California Department of Transportation

DU: Dwelling Unit

ICU: Intersection Capacity Utilization

LOS: Level of Service

TSF: Thousand Square Feet

V/C: Volume/Capacity

VMT: Vehicle Miles Traveled

### **TERMS**

**AVERAGE DAILY TRAFFIC**: The total volume during a year divided by the number of days in a year. Usually only weekdays are included.

**BANDWIDTH:** The number of seconds of green time available for through traffic in a signal progression.

**BOTTLENECK**: A constriction along a travelway that limits the amount of traffic that can proceed downstream from its location.

**CAPACITY**: The maximum number of vehicles that can be reasonably expected to pass over a given section of a lane or a roadway in a given time period.

**CHANNELIZATION:** The separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands, or other suitable means to facilitate the safe and orderly movements of both vehicles and pedestrians.

**CLEARANCE INTERVAL**: Nearly same as yellow time. If there is an all red interval after the end of a yellow, then that is also added into the clearance interval.

**CORDON**: An imaginary line around an area across which vehicles, persons, or other items are counted (in and out).

**CYCLE LENGTH**: The time period in seconds required for one complete signal cycle.

**CUL-DE-SAC STREET**: A local street open at one end only, and with special provisions for turning around.

**DAILY CAPACITY**: The daily volume of traffic that will result in a volume during the peak hour equal to the capacity of the roadway.

**DELAY:** The time consumed while traffic is impeded in its movement by some element over which it has no control, usually expressed in seconds per vehicle.

**DEMAND RESPONSIVE SIGNAL**: Same as traffic-actuated signal.

**DENSITY**: The number of vehicles occupying in a unit length of the through traffic lanes of a roadway at any given instant. Usually expressed in vehicles per mile.

**DETECTOR:** A device that responds to a physical stimulus and transmits a resulting impulse to the signal controller.

**DESIGN SPEED**: A speed selected for purposes of design. Features of a highway, such as curvature, superelevation, and sight distance (upon which the safe operation of vehicles is dependent) are correlated to design speed.

**DIRECTIONAL SPLIT**: The percent of traffic in the peak direction at any point in time.

**DIVERSION:** The rerouting of peak hour traffic to avoid congestion.

**FORCED FLOW**: Opposite of free flow.

**FREE FLOW**: Volumes are well below capacity. Vehicles can maneuver freely and travel is unimpeded by other traffic.

**GAP:** Time or distance between successive vehicles in a traffic stream, rear bumper to front bumper.

**HEADWAY:** Time or distance spacing between successive vehicles in a traffic stream, front bumper to front bumper.

**INTERCONNECTED SIGNAL SYSTEM**: A number of intersections that are connected to achieve signal progression.

**LEVEL OF SERVICE**: A qualitative measure of a number of factors, which include speed and travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience, and operating costs.

**LOOP DETECTOR**: A vehicle detector consisting of a loop of wire embedded in the roadway, energized by alternating current and producing an output circuit closure when passed over by a vehicle.

**MINIMUM ACCEPTABLE GAP**: Smallest time headway between successive vehicles in a traffic stream into which another vehicle is willing and able to cross or merge.

**MULTI-MODAL**: More than one mode; such as automobile, bus transit, rail rapid transit, and bicycle transportation modes.

**OFFSET**: The time interval in seconds between the beginning of green at one intersection and the beginning of green at an adjacent intersection.

**PLATOON:** A closely grouped component of traffic that is composed of several vehicles moving, or standing ready to move, with clear spaces ahead and behind.

**ORIGIN-DESTINATION SURVEY**: A survey to determine the point of origin and the point of destination for a given vehicle trip.

**PASSENGER CAR EQUIVALENTS (PCE)**: One car is one Passenger Car Equivalent. A truck is equal to 2 or 3 Passenger Car Equivalents in that a truck requires longer to start, goes slower, and accelerates slower. Loaded trucks have a higher Passenger Car Equivalent than empty trucks.

**PEAK HOUR**: The 60 consecutive minutes with the highest number of vehicles.

**PRETIMED SIGNAL**: A type of traffic signal that directs traffic to stop and go on a predetermined time schedule without regard to traffic conditions. Also, fixed time signal.

**PROGRESSION**: A term used to describe the progressive movement of traffic through several signalized intersections.

**SCREEN-LINE**: An imaginary line or physical feature across which all trips are counted, normally to verify the validity of mathematical traffic models.

**SIGNAL CYCLE**: The time period in seconds required for one complete sequence of signal indications.

**SIGNAL PHASE**: The part of the signal cycle allocated to one or more traffic movements.

**STARTING DELAY**: The delay experienced in initiating the movement of queued traffic from a stop to an average running speed through a signalized intersection.

**TRAFFIC-ACTUATED SIGNAL**: A type of traffic signal that directs traffic to stop and go in accordance with the demands of traffic, as registered by the actuation of detectors.

**TRIP:** The movement of a person or vehicle from one location (origin) to another (destination). For example, from home to store to home is two trips, not one.

**TRIP-END**: One end of a trip at either the origin or destination (i.e., each trip has two trip-ends). A trip-end occurs when a person, object, or message is transferred to or from a vehicle.

**TRIP GENERATION RATE:** The quantity of trips produced and/or attracted by a specific land use stated in terms of units such as per dwelling, per acre, and per 1,000 square feet of floor space.

**TRUCK:** A vehicle having dual tires on one or more axles, or having more than two axles.

**UNBALANCED FLOW:** Heavier traffic flow in one direction than the other. On a daily basis, most facilities have balanced flow. During the peak hours, flow is seldom balanced in an urban area.

**VEHICLE MILES OF TRAVEL**: A measure of the amount of usage of a section of highway, obtained by multiplying the average daily traffic by length of facility in miles.

# **APPENDIX B**

**Traffic Count Worksheets** 

City of Adelanto N/S: Koala Road E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Koala\_Rancho AM

Site Code : 07524592 Start Date : 6/18/2024 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

		Koala	a Road				no Road	t		Koal	a Road			Ranch	no Road	t	
		South	nbound			Wes	tbound			North	bound			East	tbound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	11	2	0	13	36	0	15	51	0	3	3	6	0	0	0	0	70
07:15 AM	7	4	0	11	35	0	15	50	0	0	7	7	0	0	0	0	68
07:30 AM	11	5	0	16	32	0	12	44	0	3	8	11	0	0	0	0	71
07:45 AM	16	8	0	24	25	0	7	32	0	3	8	11	0	0	0	0	67
Total	45	19	0	64	128	0	49	177	0	9	26	35	0	0	0	0	276
08:00 AM	14	6	0	20	21	0	8	29	0	4	13	17	0	2	0	2	68
08:15 AM	7	4	0	11	20	0	13	33	0	5	19	24	0	0	0	0	68
08:30 AM	8	7	0	15	29	0	3	32	1	5	15	21	0	0	0	0	68
08:45 AM	6	8	0	14	31	1_	12	44	0	1_	10_	11	0	0	0	0	69_
Total	35	25	0	60	101	1	36	138	1	15	57	73	0	2	0	2	273
	1																
Grand Total	80	44	0	124	229	1	85	315	1	24	83	108	0	2	0	2	549
Apprch %	64.5	35.5	0		72.7	0.3	27		0.9	22.2	76.9		0	100	0		
Total %	14.6	8	0_	22.6	41.7	0.2	<u> 15.5</u>	57.4	0.2	4.4	15.1_	19.7	0	0.4	0	0.4	
Passenger Vehicles	64	42	0	106	209	1	77	287	0	21	70	91	0	2	0	2	486
% Passenger Vehicles	80	95.5	0	85.5	91.3	100	90.6	91.1	0	87.5	84.3	84.3	0	100	0	100	88.5
Large 2 Axle Vehicles	4	1	0	5	13	0	1	14	1	1	6	8	0	0	0	0	27
% Large 2 Axle Vehicles	5	2.3	0	4	5.7	0	1.2	4.4	100	4.2	7.2	7.4	0	0	0	0	4.9
3 Axle Vehicles	1	0	0	1	2	0	2	4	0	0	2	2	0	0	0	0	7
% 3 Axle Vehicles	1.2	0	0	0.8	0.9	0	2.4	1.3	0	0	2.4	1.9	0	0	0	0	1.3
4+ Axle Trucks	11	1	0	12	5	0	5	10	0	2	5	7	0	0	0	0	29
% 4+ Axle Trucks	13.8	2.3	0	9.7	2.2	0	5.9	3.2	0	8.3	6	6.5	0	0	0	0	5.3

																	ı
		Koala	Road			Ranch	io Road	t		Koala	a Road			Ranch	no Road	t	
		South	bound			West	bound			North	nbound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07:	00 AM	to 08:45	AM - Po	eak 1 o	f 1								_		
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AM	1											
07:00 AM	11	2	0	13	36	0	15	51	0	3	3	6	0	0	0	0	70
07:15 AM	7	4	0	11	35	0	15	50	0	0	7	7	0	0	0	0	68
07:30 AM	11	5	0	16	32	0	12	44	0	3	8	11	0	0	0	0	71
07:45 AM	16	8	0	24	25	0	7	32	0	3	8	11	0	0	0	0	67
Total Volume	45	19	0	64	128	0	49	177	0	9	26	35	0	0	0	0	276
% App. Total	70.3	29.7	0		72.3	0	27.7		0	25.7	74.3		0	0	0		
PHF	703	594	000	667	889	000	817	868	000	750	813	795	000	000	000	000	972

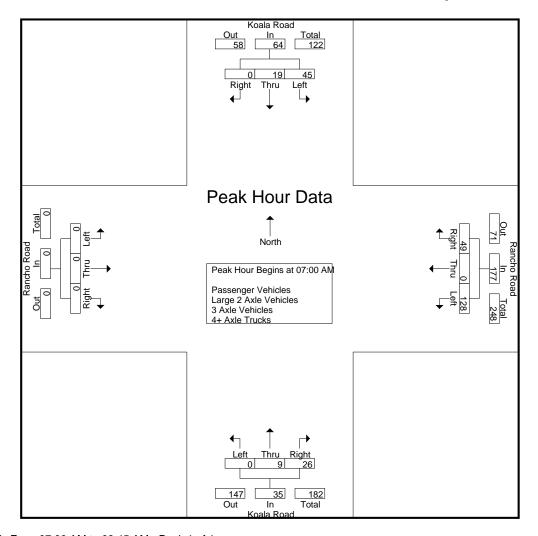
File Name: 01\_ADL\_Koala\_Rancho AM

0 0 **2** 

.250

Site Code : 07524592 Start Date : 6/18/2024

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:

.000

.740

.889

.000

PHF

.750

.719

	07:15 AM	1			07:00 AM				07:45 AN	Л			07:15 AM	1		
+0 mins.	7	4	0	11	36	0	15	51	0	3	8	11	0	0	0	
+15 mins.	11	5	0	16	35	0	15	50	0	4	13	17	0	0	0	
+30 mins.	16	8	0	24	32	0	12	44	0	5	19	24	0	0	0	
+45 mins.	14	6	0	20	25	0	7	32	1	5	15	21	0	2	0	
Total Volume	48	23	0	71	128	0	49	177	1	17	55	73	0	2	0	
% App. Total	67.6	32 4	0		72.3	0	27 7		14	23.3	75.3		0	100	0	

.868

.250

.850

.724

.760

.000

.250

.000

.817

City of Adelanto N/S: Koala Road E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Koala\_Rancho AM Site Code: 07524592

Start Date : 6/18/2024 Page No : 1

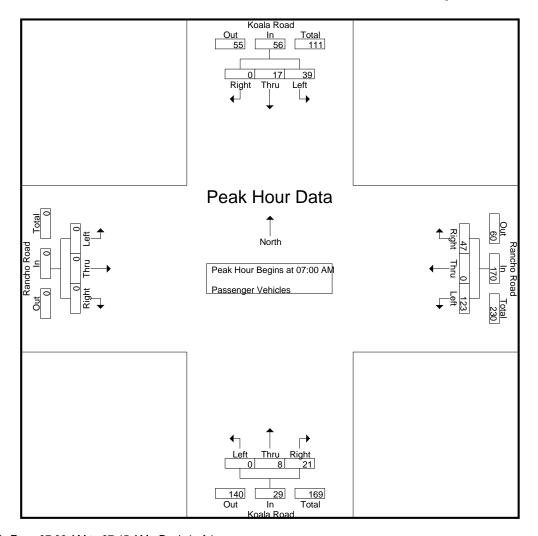
**Groups Printed- Passenger Vehicles** 

						Oilu	upo i iii	incu i as	scriger	V CITICI	CO .						
		Koala	a Road			Ranch	no Road	d b		Koala	a Road			Ranch	no Road	ı	
		Soutl	hbound			West	tbound			North	nbound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	10	2	0	12	33	0	14	47	0	3	3	6	0	0	0	0	65
07:15 AM	6	4	0	10	33	0	15	48	0	0	3	3	0	0	0	0	61
07:30 AM	9	4	0	13	32	0	11	43	0	2	7	9	0	0	0	0	65
07:45 AM	14	7	0	21	25	0	7	32	0	3	8	11	0	0	0	0	64
Total	39	17	0	56	123	0	47	170	0	8	21	29	0	0	0	0	255
08:00 AM	9	6	0	15	17	0	6	23	0	4	10	14	0	2	0	2	54
08:15 AM	3	4	0	7	19	0	12	31	0	4	19	23	0	0	0	0	61
08:30 AM	7	7	0	14	24	0	3	27	0	5	12	17	0	0	0	0	58
08:45 AM	6	8	0	14	26	1	9	36	0	0	8	8	0	0	0	0	58
Total	25	25	0	50	86	1	30	117	0	13	49	62	0	2	0	2	231
Grand Total	64	42	0	106	209	1	77	287	0	21	70	91	0	2	0	2	486
Apprch %	60.4	39.6	0		72.8	0.3	26.8		0	23.1	76.9		0	100	0		
Total %	13.2	8.6	0	21.8	43	0.2	15.8	59.1	0	4.3	14.4	18.7	0	0.4	0	0.4	

		Koala	Road			Ranch	no Road	t		Koala	a Road			Ranch	no Road	t	
		South	bound			West	bound			North	nbound			East	tbound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07:	00 AM	to 07:45	AM - Po	eak 1 o	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AM	1											
07:00 AM	10	2	0	12	33	0	14	47	0	3	3	6	0	0	0	0	65
07:15 AM	6	4	0	10	33	0	15	48	0	0	3	3	0	0	0	0	61
07:30 AM	9	4	0	13	32	0	11	43	0	2	7	9	0	0	0	0	65
07:45 AM	14	7	0	21	25	0	7	32	0	3	8	11	0	0	0	0	64
Total Volume	39	17	0	56	123	0	47	170	0	8	21	29	0	0	0	0	255
% App. Total	69.6	30.4	0		72.4	0	27.6		0	27.6	72.4		0	0	0		
PHF	.696	.607	.000	.667	.932	.000	.783	.885	.000	.667	.656	.659	.000	.000	.000	.000	.981

File Name: 01\_ADL\_Koala\_Rancho AM

Site Code : 07524592 Start Date : 6/18/2024 Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for	Each Ap	oproact	<u>n Begins</u>	s at:												
	07:00 AM	-	_		07:00 AN	1			07:00 AM	1			07:00 AN	1		
+0 mins.	10	2	0	12	33	0	14	47	0	3	3	6	0	0	0	0
+15 mins.	6	4	0	10	33	0	15	48	0	0	3	3	0	0	0	0
+30 mins.	9	4	0	13	32	0	11	43	0	2	7	9	0	0	0	0
+45 mins.	14	7	0	21	25	0	7	32	0	3	8	11	0	0	0	0
Total Volume	39	17	0	56	123	0	47	170	0	8	21	29	0	0	0	0
% App. Total	69.6	30.4	0		72.4	0	27.6		0	27.6	72.4		0	0	0	
PHF	.696	.607	.000	.667	.932	.000	.783	.885	.000	.667	.656	.659	.000	.000	.000	.000

City of Adelanto N/S: Koala Road E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Koala\_Rancho AM Site Code: 07524592

Start Date : 6/18/2024 Page No : 1

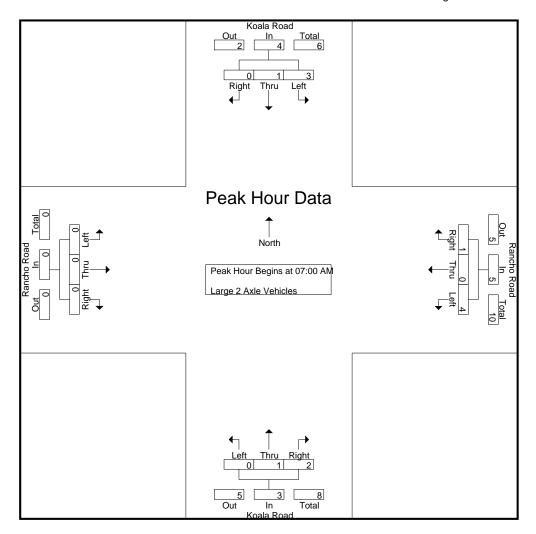
Groups Printed- Large 2 Axle Vehicles

oad	
Jau	
nd	
ht App. Total	Int. Total
0 0	2
0 0	4
0 0	5
0 0	1_
0 0	12
0 0	4
0 0	0
0 0	8
0 0	3
0 0	15
0 0	27
0	
0 0	
ur	

		Koala	Road			Ranch	o Road	1		Koala	a Road			Ranch	no Road	1	
			bound				bound	_			bound				bound	-	
		Journ	ibouriu			11001	bouriu			NOLL	ibouriu			Lasi	.bouriu		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 07:	00 AM	to 07:45	AM - Pe	eak 1 o	f 1				_				_		
Peak Hour for	Entire I	ntersec	tion Beg	gins at 0	7:00 AM	1											
07:00 AM	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2
07:15 AM	1	0	0	1	2	0	0	2	0	0	1	1	0	0	0	0	4
07:30 AM	1	1	0	2	0	0	1	1	0	1	1	2	0	0	0	0	5
07:45 AM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1_
Total Volume	3	1	0	4	4	0	1	5	0	1	2	3	0	0	0	0	12
% App. Total	75	25	0		80	0	20		0	33.3	66.7		0	0	0		
PHF	.750	.250	.000	.500	.500	.000	.250	.625	.000	.250	.500	.375	.000	.000	.000	.000	.600

File Name: 01\_ADL\_Koala\_Rancho AM

Site Code : 07524592 Start Date : 6/18/2024 Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for	Each Ap	proach	n Begins	s at:												
	07:00 AM	-	_		07:00 AM	1			07:00 AN	1			07:00 AM	1		
+0 mins.	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0
+15 mins.	1	0	0	1	2	0	0	2	0	0	1	1	0	0	0	0
+30 mins.	1	1	0	2	0	0	1	1	0	1	1	2	0	0	0	0
+45 mins.	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	3	1	0	4	4	0	1	5	0	1	2	3	0	0	0	0
% App. Total	75	25	0		80	0	20		0	33.3	66.7		0	0	0	
PHF	.750	.250	.000	.500	.500	.000	.250	.625	.000	.250	.500	.375	.000	.000	.000	.000

City of Adelanto N/S: Koala Road E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Koala\_Rancho AM Site Code: 07524592

Start Date : 6/18/2024 Page No : 1

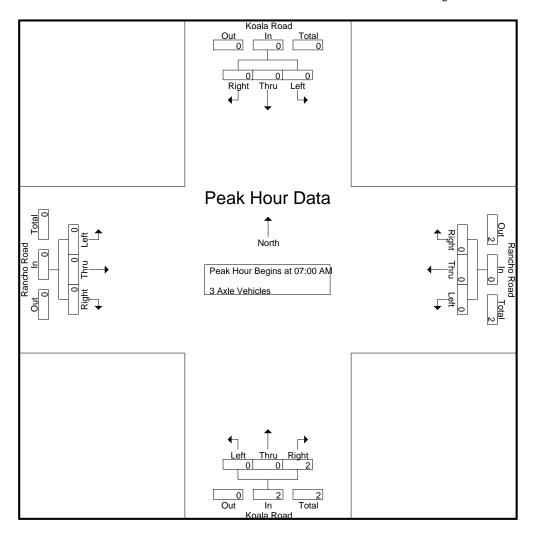
Groups Printed- 3 Axle Vehicles

								micou o	, ,,,,,	00.00							
		Koala	a Road			Ranch	no Road	l t		Koal	a Road			Ranch	no Road	t	
		Soutl	hbound			Wes	tbound			North	nbound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2
07:30 AM	0	0	0	0	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	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2
08:00 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	2	0	1	3	0	0	0	0	0	0	0	0	3
Total	1	0	0	1	2	0	2	4	0	0	0	0	0	0	0	0	5
Grand Total	1	0	0	1	2	0	2	4	0	0	2	2	0	0	0	0	7
Apprch %	100	0	0		50	0	50		0	0	100		0	0	0		
Total %	14.3	0	0	14.3	28.6	0	28.6	57.1	0	0	28.6	28.6	0	0	0	0	

			Road				o Road	t			a Road				no Road	t	
		South	bound			West	bound			North	nbound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 07:	00 AM	to 07:45	AM - P	eak 1 o	f 1				_				_		
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AN	1											
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2
07:30 AM	0	0	0	0	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	0	0	0	0	0	0	0_
Total Volume	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2
% App. Total	0	0	0		0	0	0		0	0	100		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.000	.000	.000	.000	.250

File Name: 01\_ADL\_Koala\_Rancho AM

Site Code : 07524592 Start Date : 6/18/2024 Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for	Each App	broach	Begins	at:
	07:00 AM		Ū	
•	_	^	^	

Peak Hour for	Each Ap	oproacr	n Begin	s at:												
	07:00 AM				07:00 AM	1			07:00 AN	Л			07:00 AN	1		
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	100		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.000	.000	.000	.000

City of Adelanto N/S: Koala Road E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Koala\_Rancho AM Site Code: 07524592

Start Date : 6/18/2024 Page No : 1

Groups Printed- 4+ Axle Trucks

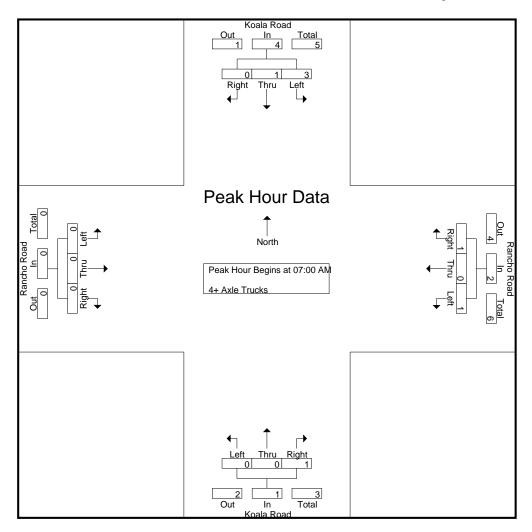
							ii oups i	IIIIICU T	1 AXIC	TTUCKS							
		Koala	a Road			Ranch	no Road	l b		Koala	a Road			Ranch	no Road	ł	
		South	nbound			West	tbound			North	nbound			East	tbound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	0	0	1	1	0	1	2	0	0	0	0	0	0	0	0	3
07:15 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
07:30 AM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
07:45 AM	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	3	1	0	4	1	0	1	2	0	0	1	1	0	0	0	0	7
08:00 AM	4	0	0	4	2	0	1	3	0	0	2	2	0	0	0	0	9
08:15 AM	4	0	0	4	1	0	1	2	0	1	0	1	0	0	0	0	7
08:30 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
08:45 AM	0	0	0	0	1	0	2	3	0	1	1	2	0	0	0	0	5
Total	8	0	0	8	4	0	4	8	0	2	4	6	0	0	0	0	22
Grand Total	11	1	0	12	5	0	5	10	0	2	5	7	0	0	0	0	29
Apprch %	91.7	8.3	0		50	0	50		0	28.6	71.4		0	0	0		
Total %	37.9	3.4	0	41.4	17.2	0	17.2	34.5	0	6.9	17.2	24.1	0	0	0	0	

		Koala	Road			Ranch	o Road	t		Koala	a Road			Ranch	no Road	t	
		South	bound			West	bound			North	nbound			East	tbound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 07:	00 AM	to 07:45	AM - Po	eak 1 o	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AM	1											
07:00 AM	1	0	0	1	1	0	1	2	0	0	0	0	0	0	0	0	3
07:15 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
07:30 AM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
07:45 AM	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total Volume	3	1	0	4	1	0	1	2	0	0	1	1	0	0	0	0	7
% App. Total	75	25	0		50	0	50		0	0	100		0	0	0		
PHF	.750	.250	.000	.500	.250	.000	.250	.250	.000	.000	.250	.250	.000	.000	.000	.000	.583

File Name: 01\_ADL\_Koala\_Rancho AM

Site Code : 07524592 Start Date : 6/18/2024

Page No : 2



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

I Cak Hour for	Lucii / \	pprodo	. Dog.	<u> </u>												
	07:00 AM	1			07:00 AN	1			07:00 AN	Л			07:00 AM	1		
+0 mins.	1	0	0	1	1	0	1	2	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
+30 mins.	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	3	1	0	4	1	0	1	2	0	0	1	1	0	0	0	0
% App. Total	75	25	0		50	0	50		0	0	100		0	0	0	
PHF	.750	.250	.000	.500	.250	.000	.250	.250	.000	.000	.250	.250	.000	.000	.000	.000

City of Adelanto N/S: Koala Road E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Koala\_Rancho PM

Site Code : 07524592 Start Date : 6/18/2024 Page No : 1

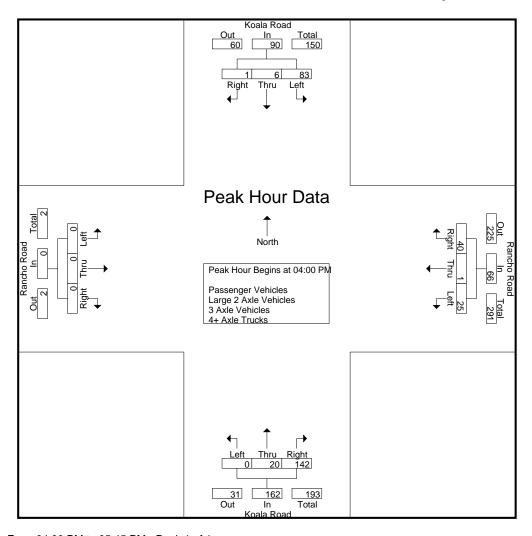
Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

			a Road	iiiiou i c	accornge		no Road	d			a Road	CHIOICO	/ ///C		no Road	t	
		Soutl	hbound			West	bound			North	nbound			East	tbound		
Start Time	Left	Thru	Right		Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	18	1	0	19	4	0	13	17	0	5	39	44	0	0	0	0	80
04:15 PM	21	0	1	22	5	0	11	16	0	7	27	34	0	0	0	0	72
04:30 PM	23	3	0	26	8	0	9	17	0	4	52	56	0	0	0	0	99
04:45 PM	21	2	0	23	8	1_	7	16	0	4	24	28	0	0	0	0	67
Total	83	6	1	90	25	1	40	66	0	20	142	162	0	0	0	0	318
	ı																
05:00 PM	12	2	0	14	8	0	9	17	0	6	14	20	0	0	0	0	51
05:15 PM	13	2	0	15	0	0	8	8	0	5	12	17	0	0	1	1	41
05:30 PM	13	0	0	13	9	1	6	16	0	0	24	24	0	1	0	1	54
05:45 PM	13	1_	0	14	10	0	13	23	0	2	24	26	0	0	0	0	63
Total	51	5	0	56	27	1	36	64	0	13	74	87	0	1	1	2	209
	ı			1								ı					
Grand Total	134	11	1	146	52	2	76	130	0	33	216	249	0	1	1	2	527
Apprch %	91.8	7.5	0.7		40	1.5	58.5		0	13.3	86.7		0	50	50		
Total %_	25.4	2.1	0.2	27.7	9.9	0.4	14.4	24.7	0	6.3	41_	47.2	0	0.2	0.2	0.4	
Passenger Vehicles	128	10	1	139	43	2	72	117	0	33	201	234	0	1	1	2	492
% Passenger Vehicles	95.5	90.9	100	95.2	82.7	100	94.7	90	0	100	93.1	94	0	100	100	100	93.4
Large 2 Axle Vehicles	1	0	0	1	1	0	0	1	0	0	2	2	0	0	0	0	4
% Large 2 Axle Vehicles	0.7	0	0	0.7	1.9	0	0	0.8	0	0	0.9	0.8	0	0	0	0	0.8
3 Axle Vehicles	1	0	0	1	1	0	0	1	0	0	1	1	0	0	0	0	3
% 3 Axle Vehicles	0.7	0	0	0.7	1.9	0	0	0.8	0	0	0.5	0.4	0	0	0	0	0.6
4+ Axle Trucks	4	1	0	5	7	0	4	11	0	0	12	12	0	0	0	0	28
% 4+ Axle Trucks	3	9.1	0	3.4	13.5	0	5.3	8.5	0	0	5.6	4.8	0	0	0	0	5.3

		Koala	Road			Ranch	no Road	Ŀ		Koala	a Road			Ranch	no Road	ł	
		South	bound			West	bound			North	nbound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fi	om 04:	00 PM	to 05:45	PM - P	eak 1 o	f 1								_		
Peak Hour for	Entire In	ntersec	tion Be	gins at 0	4:00 PM	1											
04:00 PM	18	1	0	19	4	0	13	17	0	5	39	44	0	0	0	0	80
04:15 PM	21	0	1	22	5	0	11	16	0	7	27	34	0	0	0	0	72
04:30 PM	23	3	0	26	8	0	9	17	0	4	52	56	0	0	0	0	99
04:45 PM	21	2	0	23	8	1	7	16	0	4	24	28	0	0	0	0	67
Total Volume	83	6	1	90	25	1	40	66	0	20	142	162	0	0	0	0	318
% App. Total	92.2	6.7	1.1		37.9	1.5	60.6		0	12.3	87.7		0	0	0		
PHF	.902	.500	.250	.865	.781	.250	.769	.971	.000	.714	.683	.723	.000	.000	.000	.000	.803

File Name: 01\_ADL\_Koala\_Rancho PM

Site Code : 07524592 Start Date : 6/18/2024 Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for	Each Ap	proact	n Begins	at:												
	04:00 PM	-	_		04:00 PN	l			04:00 PN	1			04:45 PM	l		
+0 mins.	18	1	0	19	4	0	13	17	0	5	39	44	0	0	0	0
+15 mins.	21	0	1	22	5	0	11	16	0	7	27	34	0	0	0	0
+30 mins.	23	3	0	26	8	0	9	17	0	4	52	56	0	0	1	1
+45 mins.	21	2	0	23	8	1	7	16	0	4	24	28	0	1	0	1
Total Volume	83	6	1	90	25	1	40	66	0	20	142	162	0	1	1	2
% App. Total	92.2	6.7	1.1		37.9	1.5	60.6		0	12.3	87.7		0	50	50	
PHF	.902	.500	.250	.865	.781	.250	.769	.971	.000	.714	.683	.723	.000	.250	.250	.500

City of Adelanto N/S: Koala Road E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Koala\_Rancho PM Site Code: 07524592

Start Date : 6/18/2024 Page No : 1

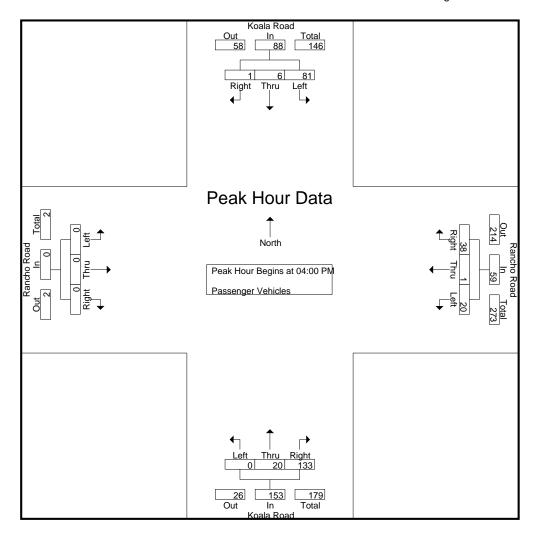
**Groups Printed- Passenger Vehicles** 

_									ntou i ao			-						
			Koala	a Road			Ranch	no Road	d b		Koala	a Road			Ranch	no Road	t	
L			South	nbound			West	tbound			North	bound			East	bound		
L	Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
	04:00 PM	17	1	0	18	3	0	12	15	0	5	37	42	0	0	0	0	75
	04:15 PM	20	0	1	21	5	0	11	16	0	7	26	33	0	0	0	0	70
	04:30 PM	23	3	0	26	7	0	9	16	0	4	47	51	0	0	0	0	93
	04:45 PM	21	2	0	23	5	1	6	12	0	4	23	27	0	0	0	0	62
	Total	81	6	1	88	20	1	38	59	0	20	133	153	0	0	0	0	300
	05:00 PM	9	2	0	11	7	0	8	15	0	6	13	19	0	0	0	0	45
	05:15 PM	13	1	0	14	0	0	8	8	0	5	12	17	0	0	1	1	40
	05:30 PM	12	0	0	12	6	1	6	13	0	0	23	23	0	1	0	1	49
	05:45 PM	13	1	0	14	10	0	12	22	0	2	20	22	0	0	0	0	58
	Total	47	4	0	51	23	1	34	58	0	13	68	81	0	1	1	2	192
	Grand Total	128	10	1	139	43	2	72	117	0	33	201	234	0	1	1	2	492
	Apprch %	92.1	7.2	0.7		36.8	1.7	61.5		0	14.1	85.9		0	50	50		
	Total %	26	2	0.2	28.3	8.7	0.4	14.6	23.8	0	6.7	40.9	47.6	0	0.2	0.2	0.4	

		Koala	Road			Ranch	no Road	t l		Koala	a Road			Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 04:	00 PM	to 04:45	PM - Pe	eak 1 o	f 1								_		
Peak Hour for	Entire I	ntersec	tion Beg	gins at 0	4:00 PM	1											
04:00 PM	17	1	0	18	3	0	12	15	0	5	37	42	0	0	0	0	75
04:15 PM	20	0	1	21	5	0	11	16	0	7	26	33	0	0	0	0	70
04:30 PM	23	3	0	26	7	0	9	16	0	4	47	51	0	0	0	0	93
04:45 PM	21	2	0	23	5	1	6	12	0	4	23	27	0	0	0	0	62
Total Volume	81	6	1	88	20	1	38	59	0	20	133	153	0	0	0	0	300
% App. Total	92	6.8	1.1		33.9	1.7	64.4		0	13.1	86.9		0	0	0		
PHF	.880	.500	.250	.846	.714	.250	.792	.922	.000	.714	.707	.750	.000	.000	.000	.000	.806

File Name: 01\_ADL\_Koala\_Rancho PM

Site Code : 07524592 Start Date : 6/18/2024 Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for	Each Ap	proact	n Begins	s at:												
	04:00 PM	-	_		04:00 PN	1			04:00 PN	Л			04:00 PM	l		
+0 mins.	17	1	0	18	3	0	12	15	0	5	37	42	0	0	0	0
+15 mins.	20	0	1	21	5	0	11	16	0	7	26	33	0	0	0	0
+30 mins.	23	3	0	26	7	0	9	16	0	4	47	51	0	0	0	0
+45 mins.	21	2	0	23	5	1	6	12	0	4	23	27	0	0	0	0
Total Volume	81	6	1	88	20	1	38	59	0	20	133	153	0	0	0	0
% App. Total	92	6.8	1.1		33.9	1.7	64.4		0	13.1	86.9		0	0	0	
PHF	.880	.500	.250	.846	.714	.250	.792	.922	.000	.714	.707	.750	.000	.000	.000	.000

City of Adelanto N/S: Koala Road E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Koala\_Rancho PM Site Code: 07524592

Start Date : 6/18/2024 Page No : 1

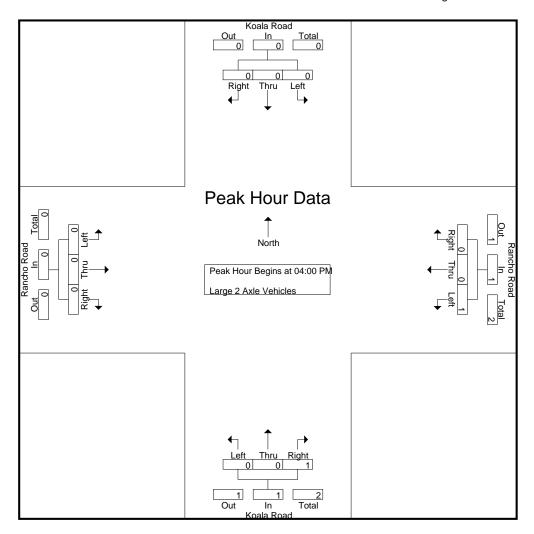
Groups Printed- Large 2 Axle Vehicles

					Olou	ps i iiii	teu- Laig		Verill	JICO						
	Koala	a Road			Ranch	no Road	t t		Koal	a Road			Ranch	no Road	ł	
	South	bound			Wes	tbound			Nortl	nbound			East	tbound		
Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	2
0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	2
1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1_
1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2
1	0	0	1	1	0	0	1	0	0	2	2	0	0	0	0	4
100	0	0		100	0	0		0	0	100		0	0	0		
25	0	0	25	25	0	0	25	0	0	50	50	0	0	0	0	
	0 0 0 0 0 1 0 0 0 0	South   Left   Thru	Southbound   Left   Thru   Right	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Southbound   Left   Thru   Right   App. Total   Left	Koala Road   Ranch   West			Rancho Road   Southbound   Westbound   Westbound   Westbound   Left   Thru   Right   App. Total   Left   O	Koala Road   Southbound   Westbound   Westbound   North	Southbound	Rancho Road   North-bound   North-bound	Roala Road   Southbound   Rancho Road   Westbound   Westbound   Westbound   Road   Northbound   Road   Northbound   Road   Northbound   Road   Northbound   Road   Northbound   Road   Road	Rancho Road   Southbound   Rancho Road   Westbound   Westbound   Westbound   Road   Northbound   Rancho Road   R	Rancho Road   Southbound   Rancho Road   Westbound   Westbound   Westbound   Rancho Road   Rancho	Rancho Road   Southbound   Rancho Road   Westbound   Westbound   Westbound   Rancho Road   Rancho

		Koala	Road			Ranch	o Road	t		Koala	a Road			Ranch	no Road	t	
		South	bound			West	bound			North	nbound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 04:	00 PM	to 04:45	PM - P	eak 1 o	f 1								_		
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:00 PM	1											
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	2
Total Volume	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	2
% App. Total	0	0	0		100	0	0		0	0	100		0	0	0		
PHF	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.250	.250	.000	.000	.000	.000	.250

File Name: 01\_ADL\_Koala\_Rancho PM

Site Code : 07524592 Start Date : 6/18/2024 Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for	Each Ap	proach	n Begin:	s at:												
	04:00 PM	-	_		04:00 PM	1			04:00 PN	1			04:00 PM	1		
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0
Total Volume	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0
% App. Total	0	0	0		100	0	0		0	0	100		0	0	0	
PHF	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.250	.250	.000	.000	.000	.000

City of Adelanto N/S: Koala Road E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Koala\_Rancho PM Site Code: 07524592

Start Date : 6/18/2024 Page No : 1

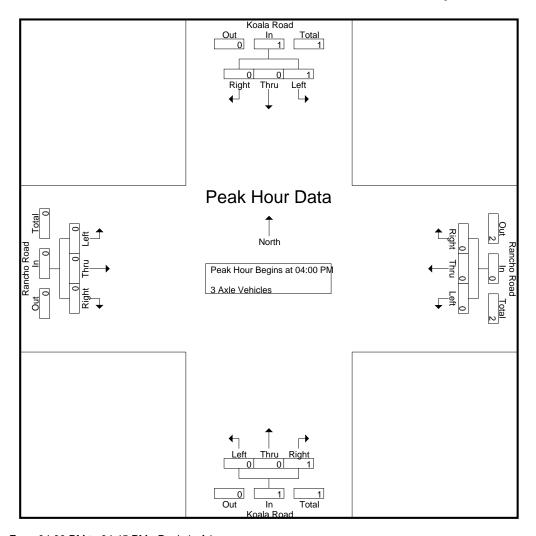
Groups Printed- 3 Axle Vehicles

						G	roups F	<u>rintea- 3</u>	AXIE VE	enicies	,						
		Koala	a Road			Ranch	no Road	1		Koal	a Road			Rancl	no Road	ł	
		Soutl	nbound			West	tbound			Nortl	hbound			Eas	tbound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Grand Total	1	0	0	1	1	0	0	1	0	0	1	1	0	0	0	0	3
Apprch %	100	0	0		100	0	0		0	0	100		0	0	0		
Total %	33.3	0	0	33.3	33.3	0	0	33.3	0	0	33.3	33.3	0	0	0	0	

		Koala	Road			Ranch	no Road	k		Koala	a Road			Ranch	no Road	t	
		South	bound			West	bound			North	nbound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 04:	00 PM	to 04:45	PM - P	eak 1 o	f 1				_				_		
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:00 PM	1											
04:00 PM	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2
% App. Total	100	0	0		0	0	0		0	0	100		0	0	0		
PHF	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.250	.250	.000	.000	.000	.000	.250

File Name: 01\_ADL\_Koala\_Rancho PM

Site Code : 07524592 Start Date : 6/18/2024 Page No : 2



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

Peak Hour for	Each A	proaci	ı Begini	s at:												
	04:00 PM				04:00 PN	1			04:00 PN	Л			04:00 PN	1		
+0 mins.	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0
% App. Total	100	0	0		0	0	0		0	0	100		0	0	0	
PHF	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.250	.250	.000	.000	.000	.000

City of Adelanto N/S: Koala Road E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Koala\_Rancho PM Site Code: 07524592

Start Date : 6/18/2024 Page No : 1

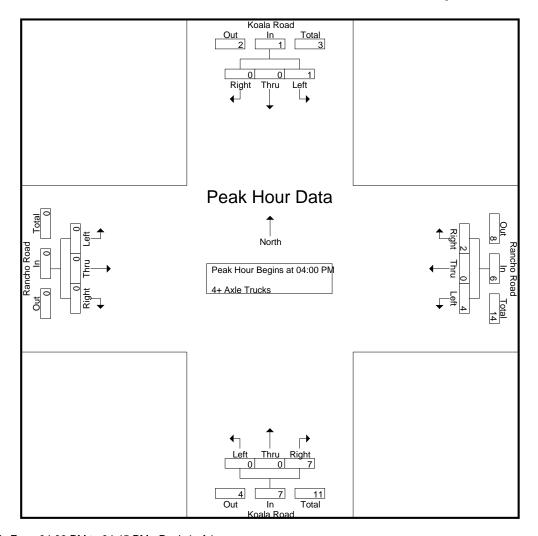
Groups Printed- 4+ Axle Trucks

							iioups r	- Hilleu- 4	+ AXIC	TTUCKS							
		Koala	a Road			Ranch	no Road	t t		Koal	a Road			Ranch	no Road	t	
		Soutl	hbound			West	tbound			Nort	hbound			East	tbound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	0	1	2	0	0	1	1	0	0	0	0	3
04:15 PM	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2
04:30 PM	0	0	0	0	1	0	0	1	0	0	5	5	0	0	0	0	6
04:45 PM	0	0	0	0	2	0	1	3	0	0	0	0	0	0	0	0	3_
Total	1	0	0	1	4	0	2	6	0	0	7	7	0	0	0	0	14
05:00 PM	2	0	0	2	1	0	1	2	0	0	1	1	0	0	0	0	5
05:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30 PM	1	0	0	1	2	0	0	2	0	0	1	1	0	0	0	0	4
05:45 PM	0	0	0	0	0	0	1	1	0	0	3	3	0	0	0	0	4_
Total	3	1	0	4	3	0	2	5	0	0	5	5	0	0	0	0	14
Grand Total	4	1	0	5	7	0	4	11	0	0	12	12	0	0	0	0	28
Apprch %	80	20	0		63.6	0	36.4		0	0	100		0	0	0		
Total %	14.3	3.6	0	17.9	25	0	14.3	39.3	0	0	42.9	42.9	0	0	0	0	

		Koala	Road			Ranch	no Road	t		Koala	a Road			Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	tbound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 04:	00 PM	to 04:45	PM - Pe	eak 1 o	of 1								_		
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:00 PM	1											
04:00 PM	0	0	0	0	1	0	1	2	0	0	1	1	0	0	0	0	3
04:15 PM	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2
04:30 PM	0	0	0	0	1	0	0	1	0	0	5	5	0	0	0	0	6
04:45 PM	0	0	0	0	2	0	1	3	0	0	0	0	0	0	0	0	3
Total Volume	1	0	0	1	4	0	2	6	0	0	7	7	0	0	0	0	14
% App. Total	100	0	0		66.7	0	33.3		0	0	100		0	0	0		
PHF	.250	.000	.000	.250	.500	.000	.500	.500	.000	.000	.350	.350	.000	.000	.000	.000	.583

File Name: 01\_ADL\_Koala\_Rancho PM

Site Code : 07524592 Start Date : 6/18/2024 Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for	Each Ap	proach	n Begins	s at:												
	04:00 PM	•			04:00 PM	1			04:00 PN	1			04:00 PM	1		
+0 mins.	0	0	0	0	1	0	1	2	0	0	1	1	0	0	0	0
+15 mins.	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0
+30 mins.	0	0	0	0	1	0	0	1	0	0	5	5	0	0	0	0
+45 mins.	0	0	0	0	2	0	1	3	0	0	0	0	0	0	0	0
Total Volume	1	0	0	1	4	0	2	6	0	0	7	7	0	0	0	0
% App. Total	100	0	0		66.7	0	33.3		0	0	100		0	0	0	
PHF	.250	.000	.000	.250	.500	.000	.500	.500	.000	.000	.350	.350	.000	.000	.000	.000

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear File Name: 01\_ADL\_Bell\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

		<u> </u>	oups i i	IIIIGU- I c	isserige	i veille	103 - LC	alge Z AA	ie vein	<u> </u>	AVIC A	CHICICS -	4+ ANIC	TTUCK	•		
	I	Bellflow	er Stre	et	_	Ranch	no Road	d .	ı	Bellflow	er Stre	et		Ranch	no Road	1	
		South	bound			West	tbound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	17	15	33	1	114	1	116	18	9	7	34	2	19	4	25	208
07:15 AM	4	15	11	30	2	77	1	80	23	12	3	38	1	19	7	27	175
07:30 AM	4	10	10	24	1	73	1	75	17	10	5	32	2	13	6	21	152
07:45 AM	5	17	17	39	2	90	2	94	28	17	4	49	2	31	6	39	221
Total	14	59	53	126	6	354	5	365	86	48	19	153	7	82	23	112	756
08:00 AM	4	11	4	19	1	56	4	61	17	16	4	37	1	31	2	34	151
08:15 AM	2	15	5	22	4	47	3	54	11	8	7	26	0	45	7	52	154
08:30 AM	2	8	10	20	1	54	4	59	8	12	6	26	3	36	5	44	149
08:45 AM	6	9	9	24	4	40	3	47	12	11	11	34	0	29	3	32	137
Total	14	43	28	85	10	197	14	221	48	47	28	123	4	141	17	162	591
								•				•					
Grand Total	28	102	81	211	16	551	19	586	134	95	47	276	11	223	40	274	1347
Apprch %	13.3	48.3	38.4		2.7	94	3.2		48.6	34.4	17		4	81.4	14.6		
Total %	2.1	7.6	6	15.7	1.2	40.9	1.4	43.5	9.9	7.1	3.5	20.5	0.8	16.6	3	20.3	
Passenger Vehicles	26	102	76	204	14	527	16	557	132	95	47	274	11	185	36	232	1267
% Passenger Vehicles	92.9	100	93.8	96.7	87.5	95.6	84.2	95.1	98.5	100	100	99.3	100	83	90	84.7	94.1
Large 2 Axle Vehicles	2	0	4	6	0	9	3	12	1	0	0	1	0	17	3	20	39
% Large 2 Axle Vehicles	7.1	0	4.9	2.8	0	1.6	15.8	2	0.7	0	0	0.4	0	7.6	7.5	7.3	2.9
3 Axle Vehicles	0	0	1	1	1	3	0	4	1	0	0	1	0	5	1	6	12
% 3 Axle Vehicles	0	0	1.2	0.5	6.2	0.5	0	0.7	0.7	0	0	0.4	0	2.2	2.5	2.2	0.9
4+ Axle Trucks	0	0	0	0	1	12	0	13	0	0	0	0	0	16	0	16	29
% 4+ Axle Trucks	0	0	0	0	6.2	2.2	0	2.2	0	0	0	0	0	7.2	0	5.8	2.2

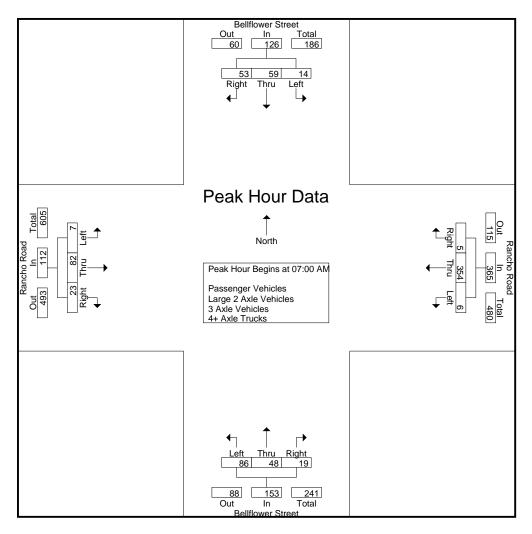
	1	Bellflow	er Stre	et		Ranch	o Road	i		Bellflow	er Stre	et		Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07:	:00 AM	to 08:45	AM - Pe	eak 1 d	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AM	1											
07:00 AM	1	17	15	33	1	114	1	116	18	9	7	34	2	19	4	25	208
07:15 AM	4	15	11	30	2	77	1	80	23	12	3	38	1	19	7	27	175
07:30 AM	4	10	10	24	1	73	1	75	17	10	5	32	2	13	6	21	152
07:45 AM	5	17	17	39	2	90	2	94	28	17	4	49	2	31	6	39	221
Total Volume	14	59	53	126	6	354	5	365	86	48	19	153	7	82	23	112	756
% App. Total	11.1	46.8	42.1		1.6	97	1.4		56.2	31.4	12.4		6.2	73.2	20.5		
PHF	.700	.868	.779	.808	.750	.776	.625	.787	.768	.706	.679	.781	.875	.661	.821	.718	.855

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Bell\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour fo	r Each	Approach	Begins at:

Peak Hour for	Each A	pproacl	h Begin	s at:												
	07:00 AM	I			07:00 AN	1			07:15 AN	Л			07:45 AN	1		
+0 mins.	1	17	15	33	1	114	1	116	23	12	3	38	2	31	6	39
+15 mins.	4	15	11	30	2	77	1	80	17	10	5	32	1	31	2	34
+30 mins.	4	10	10	24	1	73	1	75	28	17	4	49	0	45	7	52
+45 mins.	5	17	17	39	2	90	2	94	17	16	4	37	3	36	5	44
Total Volume	14	59	53	126	6	354	5	365	85	55	16	156	6	143	20	169
% App. Total	11.1	46.8	42.1		1.6	97	1.4		54.5	35.3	10.3		3.6	84.6	11.8	
PHF	.700	.868	.779	.808	.750	.776	.625	.787	.759	.809	.800	.796	.500	.794	.714	.813

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear File Name: 01\_ADL\_Bell\_Rancho AM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- Passenger Vehicles

						GIO	ups Pili	ileu- Pas	senger	venicie	25						
	I	Bellflow	er Stre	et		Ranch	no Road	t l	ı	Bellflow	er Stre	et		Ranch	no Road	I	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	17	14	32	1	110	0	111	18	9	7	34	2	14	4	20	197
07:15 AM	3	15	10	28	2	76	1	79	21	12	3	36	1	14	7	22	165
07:30 AM	4	10	10	24	0	68	1	69	17	10	5	32	2	13	5	20	145
07:45 AM	4	17	15	36	1	88	1	90	28	17	4	49	2	26	5	33	208
Total	12	59	49	120	4	342	3	349	84	48	19	151	7	67	21	95	715
08:00 AM	4	11	4	19	1	53	3	57	17	16	4	37	1	23	2	26	139
08:15 AM	2	15	5	22	4	44	3	51	11	8	7	26	0	40	6	46	145
08:30 AM	2	8	9	19	1	49	4	54	8	12	6	26	3	32	4	39	138
08:45 AM	6	9	9	24	4	39	3	46	12	11	11	34	0	23	3	26	130
Total	14	43	27	84	10	185	13	208	48	47	28	123	4	118	15	137	552
Grand Total	26	102	76	204	14	527	16	557	132	95	47	274	11	185	36	232	1267
Apprch %	12.7	50	37.3		2.5	94.6	2.9		48.2	34.7	17.2		4.7	79.7	15.5		
Total %	2.1	8.1	6	16.1	1.1	41.6	1.3	44	10.4	7.5	3.7	21.6	0.9	14.6	2.8	18.3	
Total %	2.1	8.1	6	16.1	1.1	41.6	1.3	44	10.4	7.5	3.7	21.6	0.9	14.6	2.8	18.3	

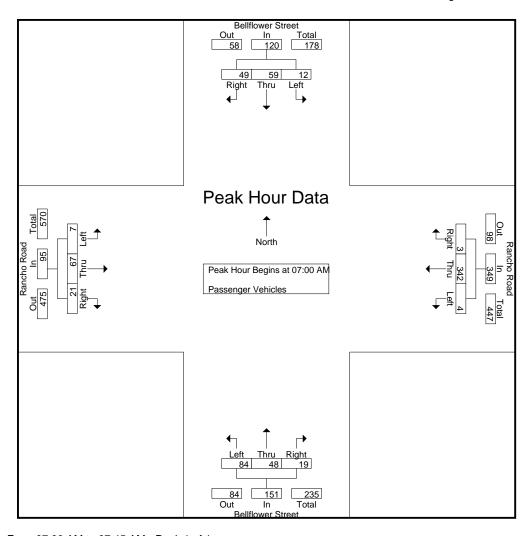
	Bellflower Street				Rancho Road				Bellflower Street								
	Southbound				Westbound				Northbound				Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07:	00 AM	to 07:45	AM - P	eak 1 d	f 1					· ·					
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AN	1											
07:00 AM	1	17	14	32	1	110	0	111	18	9	7	34	2	14	4	20	197
07:15 AM	3	15	10	28	2	76	1	79	21	12	3	36	1	14	7	22	165
07:30 AM	4	10	10	24	0	68	1	69	17	10	5	32	2	13	5	20	145
07:45 AM	4	17	15	36	1	88	1	90	28	17	4	49	2	26	5	33	208
Total Volume	12	59	49	120	4	342	3	349	84	48	19	151	7	67	21	95	715
% App. Total	10	49.2	40.8		1.1	98	0.9		55.6	31.8	12.6		7.4	70.5	22.1		
PHF	.750	.868	.817	.833	.500	.777	.750	.786	.750	.706	.679	.770	.875	.644	.750	.720	.859

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear

File Name: 01\_ADL\_Bell\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Pea	кŀ	lour	tor	Eacl	ηA	.ppi	<u>roach</u>	Beg	gins	at:

Peak Hour for	Each A	pproac	h Begin	s at:												
	07:00 AN	1			07:00 AN	1			07:00 AN	И			07:00 AN	Л		
+0 mins.	1	17	14	32	1	110	0	111	18	9	7	34	2	14	4	20
+15 mins.	3	15	10	28	2	76	1	79	21	12	3	36	1	14	7	22
+30 mins.	4	10	10	24	0	68	1	69	17	10	5	32	2	13	5	20
+45 mins.	4	17	15	36	1	88	1	90	28	17	4	49	2	26	5	33
Total Volume	12	59	49	120	4	342	3	349	84	48	19	151	7	67	21	95
% App. Total	10	49.2	40.8		1.1	98	0.9		55.6	31.8	12.6		7.4	70.5	22.1	
PHF	.750	.868	.817	.833	.500	.777	.750	.786	.750	.706	.679	.770	.875	.644	.750	.720

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear File Name: 01\_ADL\_Bell\_Rancho AM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- Large 2 Axle Vehicles

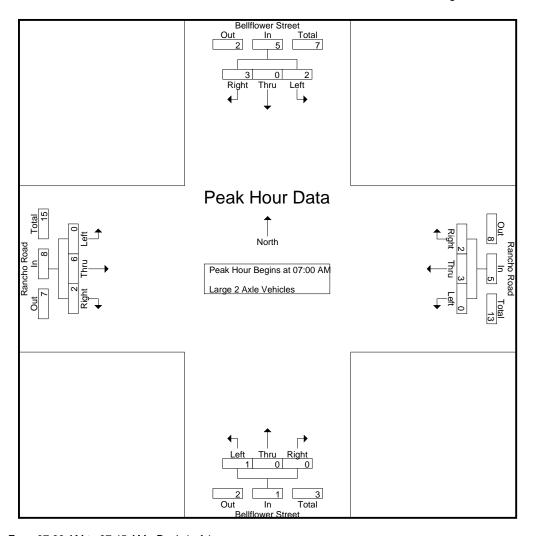
						Giou	ps Piin	ieu- Large	2 AXIE	e venic	ies						
	E	Bellflow	er Stre	et		Ranch	no Road	t	ı	Bellflow	er Stre	et		Ranch	no Road		
		South	bound			West	tbound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	1	1	0	0	1	1	0	0	0	0	0	1	0	1	3
07:15 AM	1	0	1	2	0	1	0	1	1	0	0	1	0	1	0	1	5
07:30 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	0	1	1	3
07:45 AM	1	0	1	2	0	0	1	1	0	0	0	0	0	4	1	5	8
Total	2	0	3	5	0	3	2	5	1	0	0	1	0	6	2	8	19
08:00 AM	0	0	0	0	0	2	1	3	0	0	0	0	0	4	0	4	7
08:15 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	3	0	3	5
08:30 AM	0	0	1	1	0	2	0	2	0	0	0	0	0	2	1	3	6
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	0	0	1	1	0	6	1	7	0	0	0	0	0	11	1	12	20
Grand Total	2	0	4	6	0	9	3	12	1	0	0	1	0	17	3	20	39
Apprch %	33.3	0	66.7		0	75	25		100	0	0		0	85	15		
Total %	5.1	0	10.3	15.4	0	23.1	7.7	30.8	2.6	0	0	2.6	0	43.6	7.7	51.3	

	E	Bellflow	er Stre	et		Ranch	o Road	t		Bellflow	er Stre	et		Ranch	no Road	d	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 07:	00 AM	to 07:45	AM - P	eak 1 c	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AN	1											
07:00 AM	0	0	1	1	0	0	1	1	0	0	0	0	0	1	0	1	3
07:15 AM	1	0	1	2	0	1	0	1	1	0	0	1	0	1	0	1	5
07:30 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	0	1	1	3
07:45 AM	1	0	1_	2	0	0	1	1	0	0	0	0	0	4	1	5	8
Total Volume	2	0	3	5	0	3	2	5	1	0	0	1	0	6	2	8	19
% App. Total	40	0	60		0	60	40		100	0	0		0	75	25		
PHF	.500	.000	.750	.625	.000	.375	.500	.625	.250	.000	.000	.250	.000	.375	.500	.400	.594

File Name: 01\_ADL\_Bell\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Pea	k H	lour	tor	Eacl	ηA	ppi	<u>roach</u>	Beg	gins	at:

i cak i loui loi	Luoi / \	pprodoi	, Dogin	o ut.												
	07:00 AM	1			07:00 AN	1			07:00 AN	Л			07:00 AN	1		
+0 mins.	0	0	1	1	0	0	1	1	0	0	0	0	0	1	0	1
+15 mins.	1	0	1	2	0	1	0	1	1	0	0	1	0	1	0	1
+30 mins.	0	0	0	0	0	2	0	2	0	0	0	0	0	0	1	1
+45 mins.	1	0	1	2	0	0	1	1	0	0	0	0	0	4	1	5
Total Volume	2	0	3	5	0	3	2	5	1	0	0	1	0	6	2	8
% App. Total	40	0	60		0	60	40		100	0	0		0	75	25	
PHF	.500	.000	.750	.625	.000	.375	.500	.625	.250	.000	.000	.250	.000	.375	.500	.400

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear File Name: 01\_ADL\_Bell\_Rancho AM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- 3 Axle Vehicles

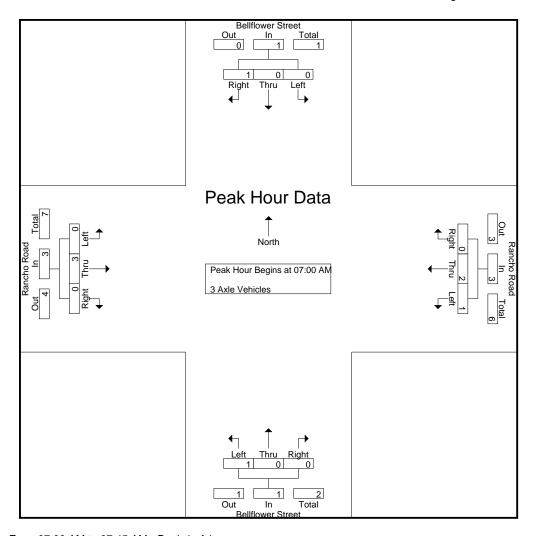
Int. Total
3
2
1
2
8
2
1
0
1
4
12
_

	I	Bellflow	er Stre	et		Ranch	o Road	t		Bellflow	er Stre	et		Ranch	no Road	d	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07	:00 AM	to 07:45	AM - P	eak 1 c	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AN	1											
07:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
07:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2
07:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
07:45 AM	0	0	1	1	0	1_	0	1	0	0	0	0	0	0	0	0	2
Total Volume	0	0	1	1	1	2	0	3	1	0	0	1	0	3	0	3	8
% App. Total	0	0	100		33.3	66.7	0		100	0	0		0	100	0		
PHF	.000	.000	.250	.250	.250	.500	.000	.750	.250	.000	.000	.250	.000	.375	.000	.375	.667

File Name: 01\_ADL\_Bell\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for	Each Approach	Begins at:

I Cak Hour for		pprodo	. 209	<u> </u>												
	07:00 AM	1			07:00 AN	1			07:00 AN	Л			07:00 AN	1		
+0 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2
+15 mins.	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1
+30 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
+45 mins.	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0
Total Volume	0	0	1	1	1	2	0	3	1	0	0	1	0	3	0	3
% App. Total	0	0	100		33.3	66.7	0		100	0	0		0	100	0	
PHF	.000	.000	.250	.250	.250	.500	.000	.750	.250	.000	.000	.250	.000	.375	.000	.375

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear File Name: 01\_ADL\_Bell\_Rancho AM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- 4+ Axle Trucks

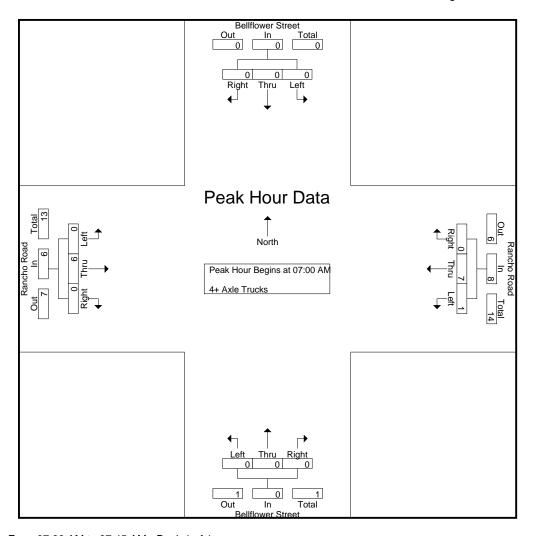
						G	roups P	<u>rintea- 4</u>	+ Axie	<u>i rucks</u>							
	E	Bellflow	er Stree	et		Ranch	o Road		I	Bellflow	er Stree	et		Ranch	no Road		
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	3	0	3	0	0	0	0	0	2	0	2	5
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3
07:30 AM	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	3
07:45 AM	0	0	0	0	1	1	0	2	0	0	0	0	0	1	0	1	3_
Total	0	0	0	0	1	7	0	8	0	0	0	0	0	6	0	6	14
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3
08:15 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
08:30 AM	0	0	0	0	0	3	0	3	0	0	0	0	0	2	0	2	5
08:45 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0	3	4
Total	0	0	0	0	0	5	0	5	0	0	0	0	0	10	0	10	15
Grand Total	0	0	0	0	1	12	0	13	0	0	0	0	0	16	0	16	29
Apprch %	0	0	0		7.7	92.3	0		0	0	0		0	100	0		
Total %	0	0	0	0	3.4	41.4	0	44.8	0	0	0	0	0	55.2	0	55.2	

	I	Bellflow	er Stre	et		Ranch	o Road	i	l	Bellflow	er Stre	et		Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07:	00 AM	to 07:45	AM - P	eak 1 o	f 1					· ·					
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AN	1											
07:00 AM	0	0	0	0	0	3	0	3	0	0	0	0	0	2	0	2	5
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3
07:30 AM	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	3
07:45 AM	0	0	0	0	1	1	0	2	0	0	0	0	0	1	0	1	3
Total Volume	0	0	0	0	1	7	0	8	0	0	0	0	0	6	0	6	14
% App. Total	0	0	0		12.5	87.5	0		0	0	0		0	100	0		
PHF	.000	.000	.000	.000	.250	.583	.000	.667	.000	.000	.000	.000	.000	.500	.000	.500	.700

File Name: 01\_ADL\_Bell\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Pea	k H	lour	tor	Eacl	ηA	ppi	<u>roach</u>	Beg	gins	at:

I Cak Hour for		pprodo	. 209	<u> </u>												
	07:00 AN	1			07:00 AN	Л			07:00 AN	Л			07:00 AN	1		
+0 mins.	0	0	0	0	0	3	0	3	0	0	0	0	0	2	0	2
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
+30 mins.	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	1	1	0	2	0	0	0	0	0	1	0	1
Total Volume	0	0	0	0	1	7	0	8	0	0	0	0	0	6	0	6
% App. Total	0	0	0		12.5	87.5	0		0	0	0		0	100	0	
PHF	.000	.000	.000	.000	.250	.583	.000	.667	.000	.000	.000	.000	.000	.500	.000	.500

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear File Name: 01\_ADL\_Bell\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

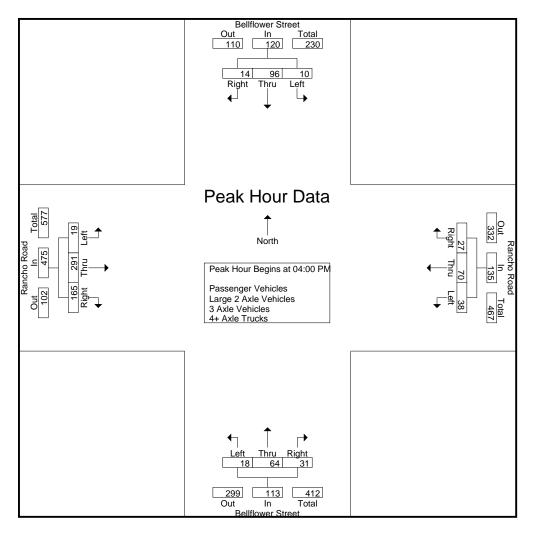
Bellflower Street   South-bound   West-bound   West-bound   West-bound   West-bound   North-bound   East-bound   East-bo
Start Time   Left   Thru   Right   App. Total   Int. Total   Left   Thru   Right   App. Total   Left   Thru   Right   App. Total   Int. Total   Right   App. Total   Left   Thru   Right   App. Total   Int. Total   Right   App. Total   Left   Thru   Right   App. Total   Int. Total   Right   App. Total   Right   App. Total   Int. Total   Right   App. Total   Right   Right   App. Total   Right   R
04:00 PM         2         33         2         37         8         16         5         29         4         21         8         33         8         94         60         162         261           04:15 PM         5         21         4         30         5         17         9         31         7         17         4         28         3         63         33         99         188           04:30 PM         2         26         6         34         13         17         9         39         3         16         9         28         3         79         44         126         227           04:45 PM         1         16         2         19         12         20         4         36         4         10         10         24         5         55         28         88         167           Total         10         96         14         120         38         70         27         135         18         64         31         113         19         291         165         475         843           05:00 PM         3         32         2         37         6
04:15 PM       5       21       4       30       5       17       9       31       7       17       4       28       3       63       33       99       188         04:30 PM       2       26       6       34       13       17       9       39       3       16       9       28       3       79       44       126       227         04:45 PM       1       16       2       19       12       20       4       36       4       10       10       24       5       55       28       88       167         Total       10       96       14       120       38       70       27       135       18       64       31       113       19       291       165       475       843         05:00 PM       3       32       2       37       6       22       6       34       3       14       4       21       4       96       56       156       248         05:15 PM       3       27       2       32       5       23       6       34       7       21       5       33       5       45       28 <t< td=""></t<>
04:30 PM         2         26         6         34         13         17         9         39         3         16         9         28         3         79         44         126         227           04:45 PM         1         16         2         19         12         20         4         36         4         10         10         24         5         55         28         88         167           Total         10         96         14         120         38         70         27         135         18         64         31         113         19         291         165         475         843           05:00 PM         3         32         2         37         6         22         6         34         3         14         4         21         4         96         56         156         248           05:15 PM         3         27         2         32         5         23         6         34         7         21         5         33         5         45         28         78         177           05:30 PM         5         23         2         30         7
04:45 PM         1         16         2         19         12         20         4         36         4         10         10         24         5         55         28         88         167           Total         10         96         14         120         38         70         27         135         18         64         31         113         19         291         165         475         843           05:00 PM         3         32         2         37         6         22         6         34         3         14         4         21         4         96         56         156         248           05:15 PM         3         27         2         32         5         23         6         34         7         21         5         33         5         45         28         78         177           05:30 PM         5         23         2         30         7         15         9         31         3         28         2         33         7         61         18         86         180           05:45 PM         2         25         1         28         3
Total         10         96         14         120         38         70         27         135         18         64         31         113         19         291         165         475         843           05:00 PM         3         32         2         37         6         22         6         34         3         14         4         21         4         96         56         156         248           05:15 PM         3         27         2         32         5         23         6         34         7         21         5         33         5         45         28         78         177           05:30 PM         5         23         2         30         7         15         9         31         3         28         2         33         7         61         18         86         180           05:45 PM         2         25         1         28         3         19         3         25         5         26         2         33         2         30         12         44         130           Total         13         107         7         127         21
05:00 PM         3         32         2         37         6         22         6         34         3         14         4         21         4         96         56         156         248           05:15 PM         3         27         2         32         5         23         6         34         7         21         5         33         5         45         28         78         177           05:30 PM         5         23         2         30         7         15         9         31         3         28         2         33         7         61         18         86         180           05:45 PM         2         25         1         28         3         19         3         25         5         26         2         33         2         30         12         44         130           Total         13         107         7         127         21         79         24         124         18         89         13         120         18         232         114         364         735           Grand Total         23         203         21         247
05:15 PM         3         27         2         32         5         23         6         34         7         21         5         33         5         45         28         78         177           05:30 PM         5         23         2         30         7         15         9         31         3         28         2         33         7         61         18         86         180           05:45 PM         2         25         1         28         3         19         3         25         5         26         2         33         2         30         12         44         130           Total         13         107         7         127         21         79         24         124         18         89         13         120         18         232         114         364         735           Grand Total         23         203         21         247         59         149         51         259         36         153         44         233         37         523         279         839         1578           Apprich %         9.3         82.2         8.5
05:15 PM         3         27         2         32         5         23         6         34         7         21         5         33         5         45         28         78         177           05:30 PM         5         23         2         30         7         15         9         31         3         28         2         33         7         61         18         86         180           05:45 PM         2         25         1         28         3         19         3         25         5         26         2         33         2         30         12         44         130           Total         13         107         7         127         21         79         24         124         18         89         13         120         18         232         114         364         735           Grand Total         23         203         21         247         59         149         51         259         36         153         44         233         37         523         279         839         1578           Apprich %         9.3         82.2         8.5
05:30 PM         5         23         2         30         7         15         9         31         3         28         2         33         7         61         18         86         180           05:45 PM         2         25         1         28         3         19         3         25         5         26         2         33         2         30         12         44         130           Total         13         107         7         127         21         79         24         124         18         89         13         120         18         232         114         364         735           Grand Total         23         203         21         247         59         149         51         259         36         153         44         233         37         523         279         839         1578           Apprich %         9.3         82.2         8.5         22.8         57.5         19.7         15.5         65.7         18.9         4.4         62.3         33.3         17.7         53.2           Total %         1.5         12.9         1.3         15.7         3.7
O5:45 PM         2         25         1         28         3         19         3         25         5         26         2         33         2         30         12         44         130           Total         13         107         7         127         21         79         24         124         18         89         13         120         18         232         114         364         735           Grand Total         23         203         21         247         59         149         51         259         36         153         44         233         37         523         279         839         1578           Apprich %         9.3         82.2         8.5         22.8         57.5         19.7         15.5         65.7         18.9         4.4         62.3         33.3           Total %         1.5         12.9         1.3         15.7         3.7         9.4         3.2         16.4         2.3         9.7         2.8         14.8         2.3         33.1         17.7         53.2           Passenger Vehicles         22         199         19         240         58         138         48<
O5:45 PM         2         25         1         28         3         19         3         25         5         26         2         33         2         30         12         44         130           Total         13         107         7         127         21         79         24         124         18         89         13         120         18         232         114         364         735           Grand Total         23         203         21         247         59         149         51         259         36         153         44         233         37         523         279         839         1578           Apprich %         9.3         82.2         8.5         22.8         57.5         19.7         15.5         65.7         18.9         4.4         62.3         33.3         17.7         53.2           Total %         1.5         12.9         1.3         15.7         3.7         9.4         3.2         16.4         2.3         9.7         2.8         14.8         2.3         33.1         17.7         53.2           Passenger Vehicles         22         199         19         240
Total         13         107         7         127         21         79         24         124         18         89         13         120         18         232         114         364         735           Grand Total         23         203         21         247         59         149         51         259         36         153         44         233         37         523         279         839         1578           Apprich %         9.3         82.2         8.5         22.8         57.5         19.7         15.5         65.7         18.9         4.4         62.3         33.3         17.7         53.2           Total %         1.5         12.9         1.3         15.7         3.7         9.4         3.2         16.4         2.3         9.7         2.8         14.8         2.3         33.1         17.7         53.2           Passenger Vehicles         22         199         19         240         58         138         48         244         35         153         44         232         37         510         275         822         1538
Grand Total         23         203         21         247         59         149         51         259         36         153         44         233         37         523         279         839         1578           Apprich %         9.3         82.2         8.5         22.8         57.5         19.7         15.5         65.7         18.9         4.4         62.3         33.3         17.7         53.2           Total %         1.5         12.9         1.3         15.7         3.7         9.4         3.2         16.4         2.3         9.7         2.8         14.8         2.3         33.1         17.7         53.2           Passenger Vehicles         22         199         19         240         58         138         48         244         35         153         44         232         37         510         275         822         1538
Apprch %     9.3     82.2     8.5     22.8     57.5     19.7     15.5     65.7     18.9     4.4     62.3     33.3       Total %     1.5     12.9     1.3     15.7     3.7     9.4     3.2     16.4     2.3     9.7     2.8     14.8     2.3     33.1     17.7     53.2       Passenger Vehicles     22     199     19     240     58     138     48     244     35     153     44     232     37     510     275     822     1538
Apprich %     9.3     82.2     8.5     22.8     57.5     19.7     15.5     65.7     18.9     4.4     62.3     33.3       Total %     1.5     12.9     1.3     15.7     3.7     9.4     3.2     16.4     2.3     9.7     2.8     14.8     2.3     33.1     17.7     53.2       Passenger Vehicles     22     199     19     240     58     138     48     244     35     153     44     232     37     510     275     822     1538
Total %         1.5         12.9         1.3         15.7         3.7         9.4         3.2         16.4         2.3         9.7         2.8         14.8         2.3         33.1         17.7         53.2           Passenger Vehicles         22         199         19         240         58         138         48         244         35         153         44         232         37         510         275         822         1538
Passenger Vehicles 22 199 19 240 58 138 48 244 35 153 44 232 37 510 275 822 1538
% Passenger Vehicles   95.7 98 90.5 97.2   98.3 92.6 94.1 94.2   97.2 100 100 99.6   100 97.5 98.6 98   97.5
Large 2 Axle Vehicles 1 3 2 6 0 2 3 5 1 0 0 1 0 2 4 6 18
% Large 2 Axis Vehicles 4.3 1.5 9.5 2.4 0 1.3 5.9 1.9 2.8 0 0 0.4 0 0.4 1.4 0.7 1.1
3 Axle Vehicles 0 0 0 0 0 4 0 4 0 0 0 0 3 0 3 7
%3 Axle Vehicles 0 0 0 0 0 0 2.7 0 1.5 0 0 0 0 0.6 0 0.4 0.4
4+ Axle Trucks 0 1 0 1 1 5 0 6 0 0 0 0 8 0 8 15
%4+ Axle Trucks 0 0.5 0 0.4 1.7 3.4 0 2.3 0 0 0 0 0 1.5 0 1 1

	Е	Bellflow	er Stre	et		Ranch	o Road	i		Bellflow	er Stre	et		Ranch	no Road	d	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fr	om 04:	:00 PM	to 05:45	PM - P	eak 1 o	f 1										
Peak Hour for	Entire In	ntersec	tion Be	gins at 0	4:00 PM	1											
04:00 PM	2	33	2	37	8	16	5	29	4	21	8	33	8	94	60	162	261
04:15 PM	5	21	4	30	5	17	9	31	7	17	4	28	3	63	33	99	188
04:30 PM	2	26	6	34	13	17	9	39	3	16	9	28	3	79	44	126	227
04:45 PM	1	16	2	19	12	20	4	36	4	10	10	24	5	55	28	88	167
Total Volume	10	96	14	120	38	70	27	135	18	64	31	113	19	291	165	475	843
% App. Total	8.3	80	11.7		28.1	51.9	20		15.9	56.6	27.4		4	61.3	34.7		
PHF	.500	.727	.583	.811	.731	.875	.750	.865	.643	.762	.775	.856	.594	.774	.688	.733	.807

File Name: 01\_ADL\_Bell\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for	Each Ap	oproach	Begins at:

I Cak Hour for		pprodo		<i>-</i> u												
	05:00 PM	1			04:30 PN	Л			05:00 PN	Л			04:00 PN	1		
+0 mins.	3	32	2	37	13	17	9	39	3	14	4	21	8	94	60	162
+15 mins.	3	27	2	32	12	20	4	36	7	21	5	33	3	63	33	99
+30 mins.	5	23	2	30	6	22	6	34	3	28	2	33	3	79	44	126
+45 mins.	2	25	1	28	5	23	6	34	5	26	2	33	5	55	28	88
Total Volume	13	107	7	127	36	82	25	143	18	89	13	120	19	291	165	475
% App. Total	10.2	84.3	5.5		25.2	57.3	17.5		15	74.2	10.8		4	61.3	34.7	
PHF	.650	.836	.875	.858	.692	.891	.694	.917	.643	.795	.650	.909	.594	.774	.688	.733

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear

File Name : 01\_ADL\_Bell\_Rancho PM Site Code : 07523937

Start Date : 10/10/2023

Page No : 1

Groups Printed- Passenger Vehicles

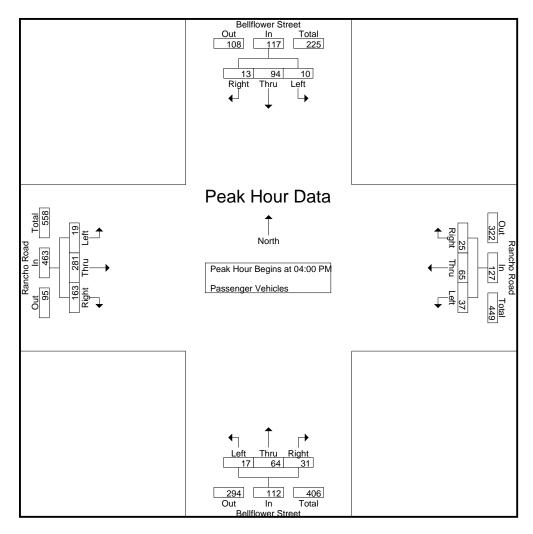
						GIO	aps Pili	itea- Pas	senger	venicie	35						
	I	Bellflow	er Stre	et		Ranch	o Road	1	l	Bellflow	er Stree	et		Ranch	no Road		
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	2	32	2	36	8	14	5	27	4	21	8	33	8	92	59	159	255
04:15 PM	5	21	4	30	5	15	8	28	6	17	4	27	3	61	33	97	182
04:30 PM	2	25	6	33	13	17	8	38	3	16	9	28	3	74	43	120	219
04:45 PM	1	16	1	18	11	19	4	34	4	10	10	24	5	54	28	87	163
Total	10	94	13	117	37	65	25	127	17	64	31	112	19	281	163	463	819
05:00 PM	3	32	2	37	6	21	6	33	3	14	4	21	4	95	54	153	244
05:15 PM	3	26	2	31	5	21	6	32	7	21	5	33	5	44	28	77	173
05:30 PM	4	23	2	29	7	13	8	28	3	28	2	33	7	60	18	85	175
05:45 PM	2	24	0	26	3	18	3	24	5	26	2	33	2	30	12	44	127
Total	12	105	6	123	21	73	23	117	18	89	13	120	18	229	112	359	719
																·	
Grand Total	22	199	19	240	58	138	48	244	35	153	44	232	37	510	275	822	1538
Apprch %	9.2	82.9	7.9		23.8	56.6	19.7		15.1	65.9	19		4.5	62	33.5		
Total %	1.4	12.9	1.2	15.6	3.8	9	3.1	15.9	2.3	9.9	2.9	15.1	2.4	33.2	17.9	53.4	

	I	Bellflow	er Stre	et		Ranch	no Road	t	I	Bellflow	er Stre	et		Ranch	no Road	t	
		South	bound			West	tbound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 04:	00 PM	to 04:45	PM - P	eak 1 d	of 1					· ·					
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:00 PN	1											
04:00 PM	2	32	2	36	8	14	5	27	4	21	8	33	8	92	59	159	255
04:15 PM	5	21	4	30	5	15	8	28	6	17	4	27	3	61	33	97	182
04:30 PM	2	25	6	33	13	17	8	38	3	16	9	28	3	74	43	120	219
04:45 PM	1	16	1	18	11	19	4	34	4	10	10	24	5	54	28	87	163
Total Volume	10	94	13	117	37	65	25	127	17	64	31	112	19	281	163	463	819
% App. Total	8.5	80.3	11.1		29.1	51.2	19.7		15.2	57.1	27.7		4.1	60.7	35.2		
PHF	.500	.734	.542	.813	.712	.855	.781	.836	.708	.762	.775	.848	.594	.764	.691	.728	.803

File Name: 01\_ADL\_Bell\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1

Peal	۲ŀ	lour	for	Each	า A∣	ppr	oach	Beg	ins	at:
								_		

Peak Hour for	Each A	pproacl	n Begin	s at:												
	04:00 PM	I			04:00 PN	Л			04:00 PN	Л			04:00 PN	Л		
+0 mins.	2	32	2	36	8	14	5	27	4	21	8	33	8	92	59	159
+15 mins.	5	21	4	30	5	15	8	28	6	17	4	27	3	61	33	97
+30 mins.	2	25	6	33	13	17	8	38	3	16	9	28	3	74	43	120
+45 mins.	1	16	1	18	11	19	4	34	4	10	10	24	5	54	28	87
Total Volume	10	94	13	117	37	65	25	127	17	64	31	112	19	281	163	463
% App. Total	8.5	80.3	11.1		29.1	51.2	19.7		15.2	57.1	27.7		4.1	60.7	35.2	
PHF	.500	.734	.542	.813	.712	.855	.781	.836	.708	.762	.775	.848	.594	.764	.691	.728

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear File Name: 01\_ADL\_Bell\_Rancho PM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

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Groups Printed- Large 2 Axle Vehicles

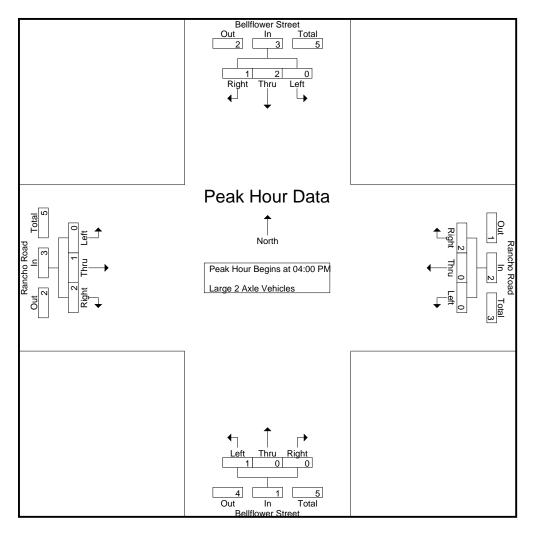
_									ed- Large	3 Z AXI6	e venic	ies						
			Bellflow	er Stre	et		Ranch	no Road	l	l	Bellflow	er Stree	et		Ranch	no Road		
L			South	bound			West	bound			North	bound			East	bound		
	Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
	04:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	2
	04:15 PM	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	2
	04:30 PM	0	1	0	1	0	0	1	1	0	0	0	0	0	0	1	1	3
	04:45 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	2
	Total	0	2	1	3	0	0	2	2	1	0	0	1	0	1	2	3	9
	05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3
	05:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
	05:30 PM	1	0	0	1	0	1	1	2	0	0	0	0	0	0	0	0	3
	05:45 PM	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	2
	Total	1	1	1	3	0	2	1	3	0	0	0	0	0	1	2	3	9
	Grand Total	1	3	2	6	0	2	3	5	1	0	0	1	0	2	4	6	18
	Apprch %	16.7	50	33.3		0	40	60		100	0	0		0	33.3	66.7		
	Total %	5.6	16.7	11.1	33.3	0	11.1	16.7	27.8	5.6	0	0	5.6	0	11.1	22.2	33.3	

		Bellflow	er Stre	et		Ranch	o Road	i		Bellflow	er Stre	et		Ranch	o Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 04:	00 PM	to 04:45	PM - P	eak 1 o	f 1	·				· ·					
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:00 PM	1											
04:00 PM	0	1	0	ັ 1	0	0	0	0	0	0	0	0	0	0	1	1	2
04:15 PM	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	2
04:30 PM	0	1	0	1	0	0	1	1	0	0	0	0	0	0	1	1	3
04:45 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	2
Total Volume	0	2	1	3	0	0	2	2	1	0	0	1	0	1	2	3	9
% App. Total	0	66.7	33.3		0	0	100		100	0	0		0	33.3	66.7		
PHF	.000	.500	.250	.750	.000	.000	.500	.500	.250	.000	.000	.250	.000	.250	.500	.750	.750

File Name: 01\_ADL\_Bell\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1

Peal	۲ŀ	lour	for	Each	า A∣	ppr	oach	Beg	ins	at:
								_		

I Cak Hour for		pprodo		<u> </u>												
	04:00 PM	1			04:00 PN	1			04:00 PN	Л			04:00 PN	1		
+0 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1
+15 mins.	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0
+30 mins.	0	1	0	1	0	0	1	1	0	0	0	0	0	0	1	1
+45 mins.	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1
Total Volume	0	2	1	3	0	0	2	2	1	0	0	1	0	1	2	3
% App. Total	0	66.7	33.3		0	0	100		100	0	0		0	33.3	66.7	
PHF	.000	.500	.250	.750	.000	.000	.500	.500	.250	.000	.000	.250	.000	.250	.500	.750

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear File Name: 01\_ADL\_Bell\_Rancho PM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- 3 Axle Vehicles

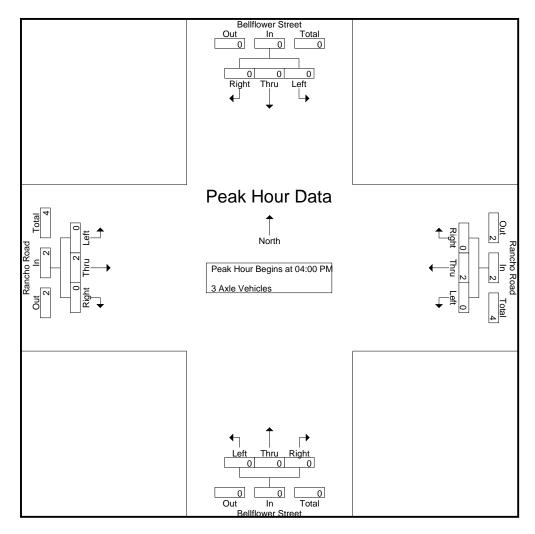
_							<u> </u>	roups r	mnieu- s	Axie vi	enicies							
		E	Bellflow	er Stre	et		Ranch	no Road	i		Bellflow	er Stre	et		Ranch	no Road		
L			South	bound			West	tbound			North	bound			East	bound		
	Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
	04:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
	04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
	04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:45 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1_
	Total	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	4
	05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
	05:30 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
	05:45 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
	Total	0	0	0	0	0	2	0	2	0	0	0	0	0	1	0	1	3
	Grand Total	0	0	0	0	0	4	0	4	0	0	0	0	0	3	0	3	7
	Apprch %	0	0	0		0	100	0		0	0	0		0	100	0		
	Total %	0	0	0	0	0	57.1	0	57.1	0	0	0	0	0	42.9	0	42.9	

	Е	Bellflow	er Stre	et		Ranch	o Road	t		Bellflow	er Stre	et		Ranch	no Road	b	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 04:	:00 PM	to 04:45	PM - P	eak 1 o	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:00 PM	1											
04:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	1_	0	1	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	4
% App. Total	0	0	0		0	100	0		0	0	0		0	100	0		
PHF	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000	.000	.250	.000	.250	.500

File Name: 01\_ADL\_Bell\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for	Each Ap	proach	Begins at:

1 Oak Hoar for																
	04:00 PM	l			04:00 PM	1			04:00 PN	1			04:00 PM	1		
+0 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2
% App. Total	0	0	0		0	100	0		0	0	0		0	100	0	
PHF	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000	.000	.250	.000	.250

City of Adelanto N/S: Bellflower Street E/W: Rancho Road Weather: Clear File Name: 01\_ADL\_Bell\_Rancho PM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- 4+ Axle Trucks

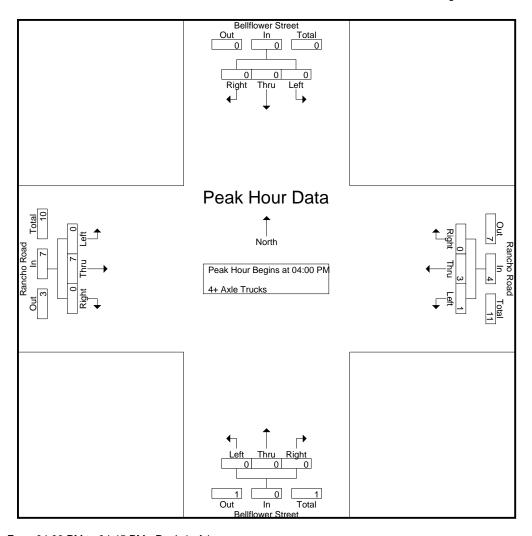
							ioups r	mileu- 4	TAXIC	HUCKS							
		Bellflow	er Stre	et		Ranch	no Road	t	ı	Bellflow	er Stre	et		Ranch	no Road	I	
		South	bound			West	tbound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
04:15 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	2
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	5
04:45 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1_
Total	0	0	0	0	1	3	0	4	0	0	0	0	0	7	0	7	11
05:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
05:15 PM	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	2	0	2	0	0	0	0	0	1	0	1	4
<b>Grand Total</b>	0	1	0	1	1	5	0	6	0	0	0	0	0	8	0	8	15
Apprch %	0	100	0		16.7	83.3	0		0	0	0		0	100	0		
Total %	0	6.7	0	6.7	6.7	33.3	0	40	0	0	0	0	0	53.3	0	53.3	

	I	Bellflow	er Stre	et		Ranch	o Road	i	I	Bellflow	er Stre	et		Ranch	o Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 04:	00 PM	to 04:45	PM - P	eak 1 o	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:00 PM	1											
04:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
04:15 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	2
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	5
04:45 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1_
Total Volume	0	0	0	0	1	3	0	4	0	0	0	0	0	7	0	7	11
% App. Total	0	0	0		25	75	0		0	0	0		0	100	0		
PHF	.000	.000	.000	.000	.250	.375	.000	.500	.000	.000	.000	.000	.000	.350	.000	.350	.550

File Name: 01\_ADL\_Bell\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for	Each Ap	oproach	Begins at:

Peak Hour for	Each Ap	proacr	n Begins	s at:												
	04:00 PM				04:00 PN	Л			04:00 PN	Л			04:00 PN	1		
+0 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2
+15 mins.	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
+45 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	1	3	0	4	0	0	0	0	0	7	0	7
% App. Total	0	0	0		25	75	0		0	0	0		0	100	0	
PHF	.000	.000	.000	.000	.250	.375	.000	.500	.000	.000	.000	.000	.000	.350	.000	.350

City of Adelanto N/S: US-395 E/W: Rancho Road Weather: Clear

File Name: 06\_ADL\_US395\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

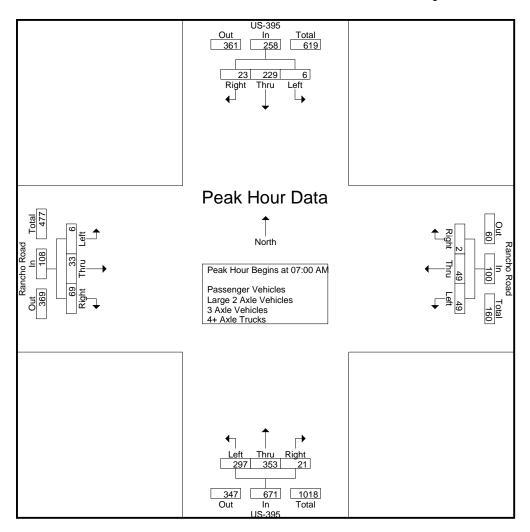
				IIILEU- Fa	isserige			arge z Ax	ie verii			enicies -	4T AXIC				
		US	-395			Ranch	o Road	t l		US	-395			Ranch	o Road	t l	
		South	nbound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	48	12	61	17	17	0	34	95	92	9	196	1	7	13	21	312
07:15 AM	4	56	5	65	9	6	1	16	68	71	2	141	2	10	16	28	250
07:30 AM	0	62	2	64	15	9	1	25	57	86	3	146	2	10	15	27	262
07:45 AM	1	63	4	68	8	17	0	25	77	104	7	188	1	6	25	32	313
Total	6	229	23	258	49	49	2	100	297	353	21	671	6	33	69	108	1137
								•				,					
08:00 AM	1	44	4	49	9	8	1	18	48	82	3	133	3	16	20	39	239
08:15 AM	4	58	6	68	8	14	0	22	33	70	3	106	11	15	30	56	252
08:30 AM	3	80	1	84	13	10	0	23	47	69	1	117	3	15	24	42	266
08:45 AM	0	81	9	90	14	9	3	26	35	69	7	111	1	15	21	37	264
Total	8	263	20	291	44	41	4	89	163	290	14	467	18	61	95	174	1021
								•				•					
<b>Grand Total</b>	14	492	43	549	93	90	6	189	460	643	35	1138	24	94	164	282	2158
Apprch %	2.6	89.6	7.8		49.2	47.6	3.2		40.4	56.5	3.1		8.5	33.3	58.2		
Total %	0.6	22.8	2	25.4	4.3	4.2	0.3	8.8	21.3	29.8	1.6	52.7	1.1	4.4	7.6	13.1	
Passenger Vehicles	13	392	40	445	56	81	5	142	445	550	35	1030	18	83	143	244	1861
% Passenger Vehicles	92.9	79.7	93	81.1	60.2	90	83.3	75.1	96.7	85.5	100	90.5	75	88.3	87.2	86.5	86.2
Large 2 Axle Vehicles	0	14	1	15	7	5	0	12	6	21	0	27	3	7	10	20	74
% Large 2 Axle Vehicles	0	2.8	2.3	2.7	7.5	5.6	0	6.3	1.3	3.3	0	2.4	12.5	7.4	6.1	7.1	3.4
3 Axle Vehicles	0	5	1	6	13	1	0	14	1	4	0	5	0	3	1	4	29
% 3 Axle Vehicles	0	1	2.3	1.1	14	1.1	0	7.4	0.2	0.6	0	0.4	0	3.2	0.6	1.4	1.3
4+ Axle Trucks	1	81	1	83	17	3	1	21	8	68	0	76	3	1	10	14	194
% 4+ Axle Trucks	7.1	16.5	2.3	15.1	18.3	3.3	16.7	11.1	1.7	10.6	0	6.7	12.5	1.1	6.1	5	9

		US	-395			Ranch	no Road	i		US	-395			Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07:	00 AM	to 08:45	AM - P	eak 1 d	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AN	1											
07:00 AM	1	48	12	61	17	17	0	34	95	92	9	196	1	7	13	21	312
07:15 AM	4	56	5	65	9	6	1	16	68	71	2	141	2	10	16	28	250
07:30 AM	0	62	2	64	15	9	1	25	57	86	3	146	2	10	15	27	262
07:45 AM	1	63	4	68	8	17	0	25	77	104	7	188	1	6	25	32	313
Total Volume	6	229	23	258	49	49	2	100	297	353	21	671	6	33	69	108	1137
% App. Total	2.3	88.8	8.9		49	49	2		44.3	52.6	3.1		5.6	30.6	63.9		
PHF	.375	.909	.479	.949	.721	.721	.500	.735	.782	.849	.583	.856	.750	.825	.690	.844	.908

File Name: 06\_ADL\_US395\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for	Each A	pproach	Begins at:

	pp.oac.														
08:00 AM	1			07:00 AN	1			07:00 AN	Л			08:00 AN	1		
1	44	4	49	17	17	0	34	95	92	9	196	3	16	20	39
4	58	6	68	9	6	1	16	68	71	2	141	11	15	30	56
3	80	1	84	15	9	1	25	57	86	3	146	3	15	24	42
0	81	9	90	8	17	0	25	77	104	7	188	1	15	21	37
8	263	20	291	49	49	2	100	297	353	21	671	18	61	95	174
2.7	90.4	6.9		49	49	2		44.3	52.6	3.1		10.3	35.1	54.6	
.500	.812	.556	.808	.721	.721	.500	.735	.782	.849	.583	.856	.409	.953	.792	.777
	08:00 AN 1 <b>4</b> 3 0 8 2.7	08:00 AM  1	08:00 AM  1	08:00 AM  1	08:00 AM	08:00 AM         07:00 AM           1         44         4         49         17         17           4         58         6         68         9         6           3         80         1         84         15         9           0         81         9         90         8         17           8         263         20         291         49         49           2.7         90.4         6.9         49         49	08:00 AM           1         44         4         49         17         17         0           4         58         6         68         9         6         1           3         80         1         84         15         9         1           0         81         9         90         8         17         0           8         263         20         291         49         49         2           2.7         90.4         6.9         49         49         2	08:00 AM           1         44         4         49         17         17         0         34           4         58         6         68         9         6         1         16           3         80         1         84         15         9         1         25           0         81         9         90         8         17         0         25           8         263         20         291         49         49         2         100           2.7         90.4         6.9         49         49         2	08:00 AM         07:00 AM         07:00 AM         07:00 AM         07:00 AM         95         4         4         4         4         49         17         17         0         34         95         4         95         4         16         68         9         6         1         16         68         3         8         17         0         25         57         77           8         263         20         291         49         49         2         100         297           2.7         90.4         6.9         49         49         2         44.3	08:00 AM         07:00 AM         07:00 AM         07:00 AM         07:00 AM         95         92           4         58         6         68         9         6         1         16         68         71           3         80         1         84         15         9         1         25         57         86           0         81         9         90         8         17         0         25         77         104           8         263         20         291         49         49         2         100         297         353           2.7         90.4         6.9         49         49         2         44.3         52.6	08:00 AM         07:00 AM         07:00 AM         07:00 AM         07:00 AM         07:00 AM         95         92         9         9         9         9         0         1         16         68         71         25         57         86         3         3         9         9         8         17         0         25         57         104         7         104         7         104         7         104         7         104         7         104         7         104         7         104         7         104         7         104         7         104         7         104         7         104         7         104         7         104         104         104         104         104				

City of Adelanto N/S: US-395 E/W: Rancho Road Weather: Clear File Name: 06\_ADL\_US395\_Rancho AM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- Passenger Vehicles

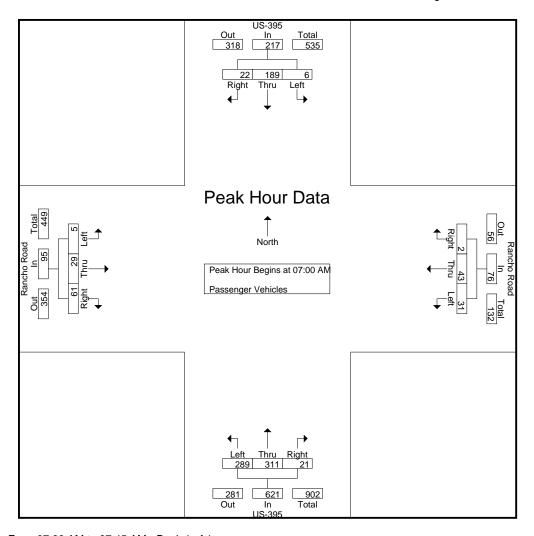
						Gio	ups em	ileu- Pas	senger	Vernicie	55						
		US	-395			Ranch	no Road	1		US	-395			Ranch	no Road		
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	38	11	50	10	17	0	27	92	85	9	186	1	6	11	18	281
07:15 AM	4	46	5	55	6	5	1	12	67	64	2	133	1	8	12	21	221
07:30 AM	0	53	2	55	12	8	1	21	54	73	3	130	2	10	15	27	233
07:45 AM	1	52	4	57	3	13	0	16	76	89	7	172	1	5	23	29	274
Total	6	189	22	217	31	43	2	76	289	311	21	621	5	29	61	95	1009
08:00 AM	0	34	4	38	7	7	0	14	45	73	3	121	1	13	17	31	204
08:15 AM	4	44	5	53	3	13	0	16	33	60	3	96	9	13	26	48	213
08:30 AM	3	61	0	64	7	9	0	16	44	51	1	96	3	14	21	38	214
08:45 AM	0	64	9	73	8	9	3	20	34	55	7	96	0	14	18	32	221
Total	7	203	18	228	25	38	3	66	156	239	14	409	13	54	82	149	852
<b>Grand Total</b>	13	392	40	445	56	81	5	142	445	550	35	1030	18	83	143	244	1861
Apprch %	2.9	88.1	9		39.4	57	3.5		43.2	53.4	3.4		7.4	34	58.6		
Total %	0.7	21.1	2.1	23.9	3	4.4	0.3	7.6	23.9	29.6	1.9	55.3	1	4.5	7.7	13.1	

		US	-395			Ranch	o Road	i		US	-395			Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07:	00 AM	to 07:45	AM - P	eak 1 o	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AN	1											
07:00 AM	1	38	11	50	10	17	0	27	92	85	9	186	1	6	11	18	281
07:15 AM	4	46	5	55	6	5	1	12	67	64	2	133	1	8	12	21	221
07:30 AM	0	53	2	55	12	8	1	21	54	73	3	130	2	10	15	27	233
07:45 AM	1	52	4	57	3	13	0	16	76	89	7	172	1	5	23	29	274
Total Volume	6	189	22	217	31	43	2	76	289	311	21	621	5	29	61	95	1009
% App. Total	2.8	87.1	10.1		40.8	56.6	2.6		46.5	50.1	3.4		5.3	30.5	64.2		
PHF	.375	.892	.500	.952	.646	.632	.500	.704	.785	.874	.583	.835	.625	.725	.663	.819	.898

File Name: 06\_ADL\_US395\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for	Each A	Approach	Begins at:

Peak Hour for	Each A	oproacl	n Begin	s at:												
	07:00 AM				07:00 AN	Л			07:00 AN	Л			07:00 AN	1		
+0 mins.	1	38	11	50	10	17	0	27	92	85	9	186	1	6	11	18
+15 mins.	4	46	5	55	6	5	1	12	67	64	2	133	1	8	12	21
+30 mins.	0	53	2	55	12	8	1	21	54	73	3	130	2	10	15	27
+45 mins.	1	52	4	57	3	13	0	16	76	89	7	172	1	5	23	29
Total Volume	6	189	22	217	31	43	2	76	289	311	21	621	5	29	61	95
% App. Total	2.8	87.1	10.1		40.8	56.6	2.6		46.5	50.1	3.4		5.3	30.5	64.2	
PHF	.375	.892	.500	.952	.646	.632	.500	.704	.785	.874	.583	.835	.625	.725	.663	.819

City of Adelanto N/S: US-395 E/W: Rancho Road Weather: Clear File Name: 06\_ADL\_US395\_Rancho AM Site Code: 07523937

Start Date : 10/10/2023

Page No : 1

Groups Printed- Large 2 Axle Vehicles

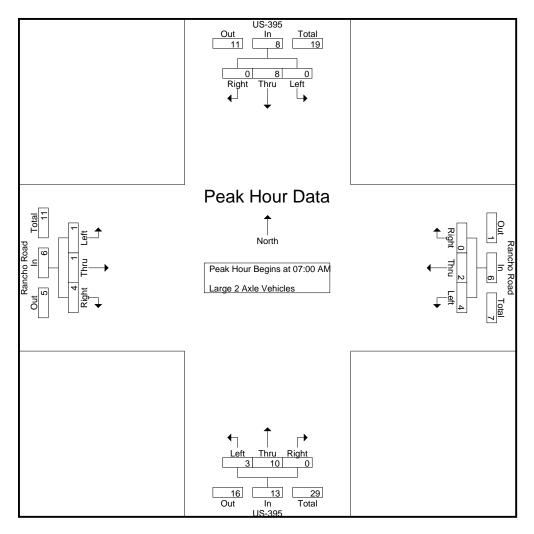
								ed- Larg	e 2 Axie	<u>e venic</u>	ies						
		US	-395			Ranch	o Road			US	-395			Ranch	io Road		
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	4	0	4	2	0	0	2	0	1	0	1	0	0	1	1	8
07:15 AM	0	3	0	3	1	0	0	1	0	2	0	2	1	0	1	2	8
07:30 AM	0	1	0	1	0	1	0	1	2	3	0	5	0	0	0	0	7
07:45 AM	0	0	0	0	1	1	0	2	1	4	0	5	0	1	2	3	10
Total	0	8	0	8	4	2	0	6	3	10	0	13	1	1	4	6	33
08:00 AM	0	1	0	1	1	1	0	2	2	1	0	3	0	3	1	4	10
08:15 AM	0	0	1	1	1	1	0	2	0	4	0	4	1	2	2	5	12
08:30 AM	0	3	0	3	1	1	0	2	1	2	0	3	0	1	1	2	10
08:45 AM	0	2	0	2	0	0	0	0	0	4	0	4	1	0	2	3	9
Total	0	6	1	7	3	3	0	6	3	11	0	14	2	6	6	14	41
<b>Grand Total</b>	0	14	1	15	7	5	0	12	6	21	0	27	3	7	10	20	74
Apprch %	0	93.3	6.7		58.3	41.7	0		22.2	77.8	0		15	35	50		
Total %	0	18.9	1.4	20.3	9.5	6.8	0	16.2	8.1	28.4	0	36.5	4.1	9.5	13.5	27	

		US-	-395			Ranch	o Road	i		US	-395			Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07:	00 AM	to 07:45	AM - P	eak 1 o	f 1										
Peak Hour for																	
07:00 AM	0	4	0	4	2	0	0	2	0	1	0	1	0	0	1	1	8
07:15 AM	0	3	0	3	1	0	0	1	0	2	0	2	1	0	1	2	8
07:30 AM	0	1	0	1	0	1	0	1	2	3	0	5	0	0	0	0	7
07:45 AM	0	0	0	0	1	1	0	2	1	4	0	5	0	1	2	3	10
Total Volume	0	8	0	8	4	2	0	6	3	10	0	13	1	1	4	6	33
% App. Total	0	100	0		66.7	33.3	0		23.1	76.9	0		16.7	16.7	66.7		
PHF	.000	.500	.000	.500	.500	.500	.000	.750	.375	.625	.000	.650	.250	.250	.500	.500	.825

File Name: 06\_ADL\_US395\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for	Each Approach	n Begins at:

I Cak Hour for		pprodo	. 209	<u> </u>												
	07:00 AN	1			07:00 AN	Л			07:00 AN	Л			07:00 AN	1		
+0 mins.	0	4	0	4	2	0	0	2	0	1	0	1	0	0	1	1
+15 mins.	0	3	0	3	1	0	0	1	0	2	0	2	1	0	1	2
+30 mins.	0	1	0	1	0	1	0	1	2	3	0	5	0	0	0	0
+45 mins.	0	0	0	0	1	1	0	2	1	4	0	5	0	1	2	3
Total Volume	0	8	0	8	4	2	0	6	3	10	0	13	1	1	4	6
% App. Total	0	100	0		66.7	33.3	0		23.1	76.9	0		16.7	16.7	66.7	
PHF	.000	.500	.000	.500	.500	.500	.000	.750	.375	.625	.000	.650	.250	.250	.500	.500

City of Adelanto N/S: US-395 E/W: Rancho Road Weather: Clear File Name: 06\_ADL\_US395\_Rancho AM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- 3 Axle Vehicles

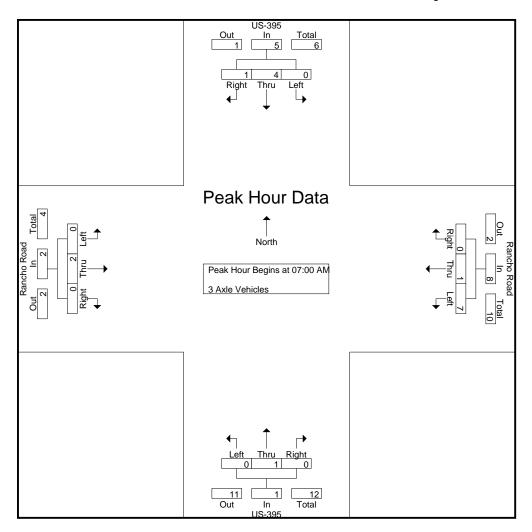
						<u> </u>	roups F	<u>rintea- 3</u>	Axie v	enicies							
		US	-395			Ranch	no Road	1		US	-395			Ranch	no Road		
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	1	1	4	0	0	4	0	0	0	0	0	0	0	0	5
07:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2	3
07:30 AM	0	2	0	2	1	0	0	1	0	1	0	1	0	0	0	0	4
07:45 AM	0	1	0	1	2	1	0	3	0	0	0	0	0	0	0	0	4
Total	0	4	1	5	7	1	0	8	0	1	0	1	0	2	0	2	16
08:00 AM	0	0	0	0	1	0	0	1	1	1	0	2	0	0	1	1	4
08:15 AM	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2
08:30 AM	0	0	0	0	2	0	0	2	0	2	0	2	0	0	0	0	4
08:45 AM	0	1	0	1	1	0	0	1	0	0	0	0	0	1	0	1	3
Total	0	1	0	1	6	0	0	6	1	3	0	4	0	1	1	2	13
Grand Total	0	5	1	6	13	1	0	14	1	4	0	5	0	3	1	4	29
Apprch %	0	83.3	16.7		92.9	7.1	0		20	80	0		0	75	25		
Total %	0	17.2	3.4	20.7	44.8	3.4	0	48.3	3.4	13.8	0	17.2	0	10.3	3.4	13.8	

		US-	-395			Ranch	o Road	i		US	-395			Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07:	00 AM	to 07:45	AM - P	eak 1 o	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AN	1											
07:00 AM		0	1	1	4	0	0	4	0	0	0	0	0	0	0	0	5
07:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2	3
07:30 AM	0	2	0	2	1	0	0	1	0	1	0	1	0	0	0	0	4
07:45 AM	0	1	0	1	2	1	0	3	0	0	0	0	0	0	0	0	4
Total Volume	0	4	1	5	7	1	0	8	0	1	0	1	0	2	0	2	16
% App. Total	0	80	20		87.5	12.5	0		0	100	0		0	100	0		
PHF	.000	.500	.250	.625	.438	.250	.000	.500	.000	.250	.000	.250	.000	.250	.000	.250	.800

File Name: 06\_ADL\_US395\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for	Each Ap	oproach	Begins at:

Peak Hour to	r ⊨acn Ap	oproaci	n Begin	s at:												
	07:00 AM				07:00 AN	Л			07:00 AN	Л			07:00 AN	l		
+0 mins	. 0	0	1	1	4	0	0	4	0	0	0	0	0	0	0	0
+15 mins	. 0	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2
+30 mins	. 0	2	0	2	1	0	0	1	0	1	0	1	0	0	0	0
+45 mins	. 0	1	0	1	2	1	0	3	0	0	0	0	0	0	0	0
Total Volume	0	4	1	5	7	1	0	8	0	1	0	1	0	2	0	2
% App. Tota	0	80	20		87.5	12.5	0		0	100	0		0	100	0	
PHF	.000	.500	.250	.625	.438	.250	.000	.500	.000	.250	.000	.250	.000	.250	.000	.250

City of Adelanto N/S: US-395 E/W: Rancho Road Weather: Clear File Name: 06\_ADL\_US395\_Rancho AM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- 4+ Axle Trucks

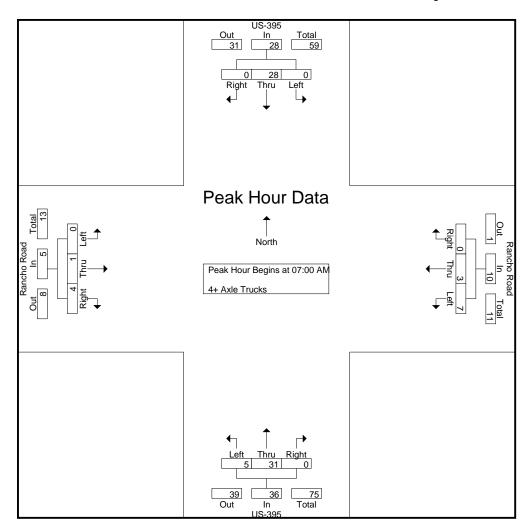
							<u>roups r</u>	milea- 4	+ Axie	HUCKS							
		US	-395			Ranch	no Road	t l		US	-395			Ranch	no Road	ı	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	6	0	6	1	0	0	1	3	6	0	9	0	1	1	2	18
07:15 AM	0	6	0	6	2	1	0	3	1	5	0	6	0	0	3	3	18
07:30 AM	0	6	0	6	2	0	0	2	1	9	0	10	0	0	0	0	18
07:45 AM	0	10	0	10	2	2	0	4	0	11	0	11	0	0	0	0	25
Total	0	28	0	28	7	3	0	10	5	31	0	36	0	1	4	5	79
08:00 AM	1	9	0	10	0	0	1	1	0	7	0	7	2	0	1	3	21
08:15 AM	0	14	0	14	2	0	0	2	0	6	0	6	1	0	2	3	25
08:30 AM	0	16	1	17	3	0	0	3	2	14	0	16	0	0	2	2	38
08:45 AM	0	14	0	14	5	0	0	5	1	10	0	11	0	0	1	1	31
Total	1	53	1	55	10	0	1	11	3	37	0	40	3	0	6	9	115
Grand Total	1	81	1	83	17	3	1	21	8	68	0	76	3	1	10	14	194
Apprch %	1.2	97.6	1.2		81	14.3	4.8		10.5	89.5	0		21.4	7.1	71.4		
Total %	0.5	41.8	0.5	42.8	8.8	1.5	0.5	10.8	4.1	35.1	0	39.2	1.5	0.5	5.2	7.2	

		US	-395			Ranch	no Road	t		US	-395			Ranch	no Road	d	
		South	bound			West	bound			North	nbound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 07	:00 AM	to 07:45	AM - P	eak 1 c	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	7:00 AN	1											
07:00 AM	0	6	0	6	1	0	0	1	3	6	0	9	0	1	1	2	18
07:15 AM	0	6	0	6	2	1	0	3	1	5	0	6	0	0	3	3	18
07:30 AM	0	6	0	6	2	0	0	2	1	9	0	10	0	0	0	0	18
07:45 AM	0	10	0	10	2	2	0	4	0	11	0	11	0	0	0	0	25
Total Volume	0	28	0	28	7	3	0	10	5	31	0	36	0	1	4	5	79
% App. Total	0	100	0		70	30	0		13.9	86.1	0		0	20	80		
PHF	.000	.700	.000	.700	.875	.375	.000	.625	.417	.705	.000	.818	.000	.250	.333	.417	.790

File Name: 06\_ADL\_US395\_Rancho AM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for	Each Ap	proach	Begins at:

I Cak Hour for		pp.oac.	. 209	<u> </u>												
	07:00 AM	1			07:00 AN	1			07:00 AN	Л			07:00 AN	1		
+0 mins.	0	6	0	6	1	0	0	1	3	6	0	9	0	1	1	2
+15 mins.	0	6	0	6	2	1	0	3	1	5	0	6	0	0	3	3
+30 mins.	0	6	0	6	2	0	0	2	1	9	0	10	0	0	0	0
+45 mins.	0	10	0	10	2	2	0	4	0	11	0	11	0	0	0	0
Total Volume	0	28	0	28	7	3	0	10	5	31	0	36	0	1	4	5
% App. Total	0	100	0		70	30	0		13.9	86.1	0		0	20	80	
PHF	.000	.700	.000	.700	.875	.375	.000	.625	.417	.705	.000	.818	.000	.250	.333	.417

City of Adelanto N/S: US-395 E/W: Rancho Road Weather: Clear

File Name: 06\_ADL\_US395\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

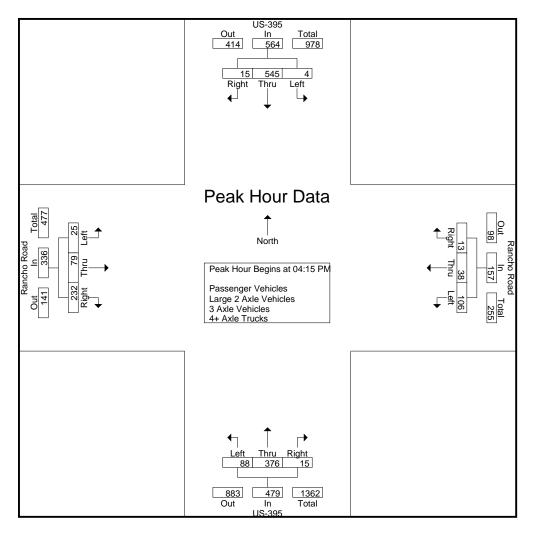
		Oi	oups i i	illiteu- i c	isserige	I V CITIC	7103 - FC	alge Z AA	ie verii	<u> </u>	AVIC A	CHICICS -	4+ AVIC	HUCK	,		
		US	-395			Ranch	no Road	d L		US	-395			Ranch	no Road	t	
		South	nbound			West	tbound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	5	126	4	135	36	12	0	48	18	90	1	109	10	28	78	116	408
04:15 PM	1	132	4	137	20	3	4	27	26	95	1	122	4	18	51	73	359
04:30 PM	1	151	3	155	36	14	4	54	19	88	6	113	6	21	60	87	409
04:45 PM	2	124	6	132	24	12	4	40	25	87	3	115	6	13	41	60	347
Total	9	533	17	559	116	41	12	169	88	360	11	459	26	80	230	336	1523
05:00 PM	0	138	2	140	26	9	1	36	18	106	5	129	9	27	80	116	421
05:15 PM	5	133	2	140	18	6	0	24	27	85	4	116	2	12	31	45	325
05:30 PM	1	128	2	131	30	7	0	37	20	119	0	139	4	16	58	78	385
05:45 PM	1	135	3	139	20	1	2	23	22	87	5	114	2	8	25	35	311
Total	7	534	9	550	94	23	3	120	87	397	14	498	17	63	194	274	1442
<b>Grand Total</b>	16	1067	26	1109	210	64	15	289	175	757	25	957	43	143	424	610	2965
Apprch %	1.4	96.2	2.3		72.7	22.1	5.2		18.3	79.1	2.6		7	23.4	69.5		
Total %	0.5	36	0.9	37.4	7.1	2.2	0.5	9.7	5.9	25.5	0.8	32.3	1.5	4.8	14.3	20.6	
Passenger Vehicles	11	915	22	948	196	61	12	269	167	692	23	882	41	137	416	594	2693
% Passenger Vehicles	68.8	85.8	84.6	85.5	93.3	95.3	80	93.1	95.4	91.4	92	92.2	95.3	95.8	98.1	97.4	90.8
Large 2 Axle Vehicles	0	10	1	11	2	0	0	2	5	6	0	11	1	1	3	5	29
% Large 2 Axle Vehicles	0	0.9	3.8	1	1_	0	0	0.7	2.9	0.8	0	1.1	2.3	0.7	0.7	0.8	1
3 Axle Vehicles	0	15	1	16	0	1	1	2	0	2	2	4	0	0	1	1	23
% 3 Axle Vehicles	0	1.4	3.8	1.4	0	1.6	6.7	0.7	0	0.3	8	0.4	0	0	0.2	0.2	0.8
4+ Axle Trucks	5	127	2	134	12	2	2	16	3	57	0	60	1	5	4	10	220
% 4+ Axle Trucks	31.2	11.9	7.7	12.1	5.7	3.1	13.3	5.5	1.7	7.5	0	6.3	2.3	3.5	0.9	1.6	7.4

		US-	-395			Ranch	o Road	i		US	-395			Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 04:	00 PM	to 05:45	PM - P	eak 1 o	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:15 PN	1											
04:15 PM	1	132	4	137	20	3	4	27	26	95	1	122	4	18	51	73	359
04:30 PM	1	151	3	155	36	14	4	54	19	88	6	113	6	21	60	87	409
04:45 PM	2	124	6	132	24	12	4	40	25	87	3	115	6	13	41	60	347
05:00 PM	0	138	2	140	26	9	1	36	18	106	5	129	9	27	80	116	421
Total Volume	4	545	15	564	106	38	13	157	88	376	15	479	25	79	232	336	1536
% App. Total	0.7	96.6	2.7		67.5	24.2	8.3		18.4	78.5	3.1		7.4	23.5	69		
PHF	.500	.902	.625	.910	.736	.679	.813	.727	.846	.887	.625	.928	.694	.731	.725	.724	.912

File Name: 06\_ADL\_US395\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for	Each A	pproach	Begins at:

Peak Hour for	Each A	pproac	n Begin:	s at:												
	04:30 PM	1			04:00 PN	1			04:45 PN	Л			04:00 PN	1		
+0 mins.	1	151	3	155	36	12	0	48	25	87	3	115	10	28	78	116
+15 mins.	2	124	6	132	20	3	4	27	18	106	5	129	4	18	51	73
+30 mins.	0	138	2	140	36	14	4	54	27	85	4	116	6	21	60	87
+45 mins.	5	133	2	140	24	12	4	40	20	119	0	139	6	13	41	60
Total Volume	8	546	13	567	116	41	12	169	90	397	12	499	26	80	230	336
% App. Total	1.4	96.3	2.3		68.6	24.3	7.1		18	79.6	2.4		7.7	23.8	68.5	
PHF	.400	.904	.542	.915	.806	.732	.750	.782	.833	.834	.600	.897	.650	.714	.737	.724

City of Adelanto N/S: US-395 E/W: Rancho Road Weather: Clear File Name: 06\_ADL\_US395\_Rancho PM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- Passenger Vehicles

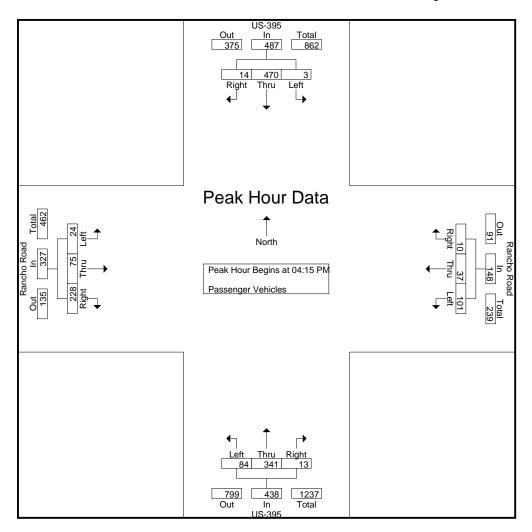
							-	ileu- Fas	senger								
		US	-395			Ranch	no Road	t		US	-395			Ranch	o Road		
		South	nbound			West	tbound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	3	107	4	114	32	10	0	42	18	83	1	102	9	27	77	113	371
04:15 PM	0	118	4	122	18	2	4	24	24	82	1	107	4	17	50	71	324
04:30 PM	1	132	2	135	36	14	4	54	18	79	6	103	6	19	58	83	375
04:45 PM	2	103	6	111	24	12	1	37	24	83	3	110	5	13	40	58	316
Total	6	460	16	482	110	38	9	157	84	327	11	422	24	76	225	325	1386
05:00 PM	0	117	2	119	23	9	1	33	18	97	3	118	9	26	80	115	385
05:15 PM	3	110	1	114	16	6	0	22	26	78	4	108	2	12	30	44	288
05:30 PM	1	112	2	115	28	7	0	35	17	108	0	125	4	15	56	75	350
05:45 PM	1	116	1	118	19	1	2	22	22	82	5	109	2	8	25	35	284
Total	5	455	6	466	86	23	3	112	83	365	12	460	17	61	191	269	1307
Grand Total	11	915	22	948	196	61	12	269	167	692	23	882	41	137	416	594	2693
Apprch %	1.2	96.5	2.3		72.9	22.7	4.5		18.9	78.5	2.6		6.9	23.1	70		
Total %	0.4	34	8.0	35.2	7.3	2.3	0.4	10	6.2	25.7	0.9	32.8	1.5	5.1	15.4	22.1	

		US-	-395			Ranch	no Road	i		US	-395			Ranch	no Road	t	
		South	bound			West	tbound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 04:	15 PM	to 05:00	PM - P	eak 1 d	of 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:15 PN	1											
04:15 PM	0	118	4	122	18	2	4	24	24	82	1	107	4	17	50	71	324
04:30 PM	1	132	2	135	36	14	4	54	18	79	6	103	6	19	58	83	375
04:45 PM	2	103	6	111	24	12	1	37	24	83	3	110	5	13	40	58	316
05:00 PM	0	117	2	119	23	9	1	33	18	97	3	118	9	26	80	115	385
Total Volume	3	470	14	487	101	37	10	148	84	341	13	438	24	75	228	327	1400
% App. Total	0.6	96.5	2.9		68.2	25	6.8		19.2	77.9	3		7.3	22.9	69.7		
PHF	.375	.890	.583	.902	.701	.661	.625	.685	.875	.879	.542	.928	.667	.721	.713	.711	.909

File Name: 06\_ADL\_US395\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

Page No : 2



Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1

Peak Hour for	Each A	pproach	Begins at:

Į	Peak Hour for	Each A	pproacl	n Begins	s at:												
		04:15 PM	1			04:15 PN	Л			04:15 PN	Л			04:15 PN	Л		
	+0 mins.	0	118	4	122	18	2	4	24	24	82	1	107	4	17	50	71
	+15 mins.	1	132	2	135	36	14	4	54	18	79	6	103	6	19	58	83
	+30 mins.	2	103	6	111	24	12	1	37	24	83	3	110	5	13	40	58
	+45 mins.	0	117	2	119	23	9	1	33	18	97	3	118	9	26	80	115
	Total Volume	3	470	14	487	101	37	10	148	84	341	13	438	24	75	228	327
	% App. Total	0.6	96.5	2.9		68.2	25	6.8		19.2	77.9	3		7.3	22.9	69.7	
	PHF	.375	.890	.583	.902	.701	.661	.625	.685	.875	.879	.542	.928	.667	.721	.713	.711

City of Adelanto N/S: US-395 E/W: Rancho Road Weather: Clear File Name: 06\_ADL\_US395\_Rancho PM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

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Groups Printed- Large 2 Axle Vehicles

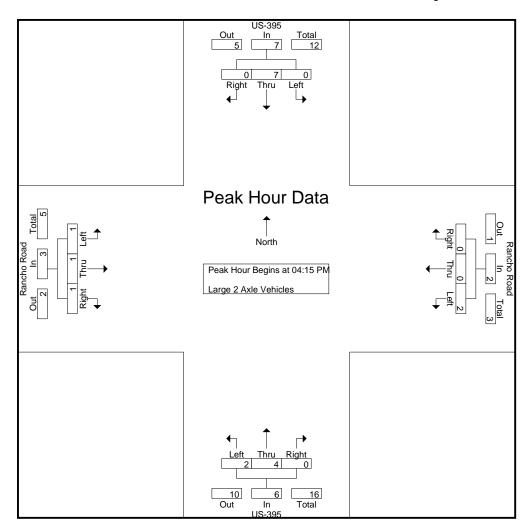
						Giou	ps Piin	ieu- Larg	e z Axie	venic	ies						
		US	-395			Ranch	no Road	t		US	-395			Ranch	o Road		
		South	bound			West	tbound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	2	0	0	2	1	3	0	4	0	0	0	0	6
04:30 PM	0	2	0	2	0	0	0	0	0	1	0	1	0	0	0	0	3
04:45 PM	0	3	0	3	0	0	0	0	1	0	0	1	1_	0	1	2	6
Total	0	6	0	6	2	0	0	2	2	4	0	6	1	0	1	2	16
05:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	1	0	1	3
05:15 PM	0	1	1	2	0	0	0	0	0	2	0	2	0	0	1	1	5
05:30 PM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	1	1	4
05:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	4	1	5	0	0	0	0	3	2	0	5	0	1	2	3	13
Grand Total	0	10	1	11	2	0	0	2	5	6	0	11	1	1	3	5	29
Apprch %	0	90.9	9.1		100	0	0		45.5	54.5	0		20	20	60		
Total %	0	34.5	3.4	37.9	6.9	0	0	6.9	17.2	20.7	0	37.9	3.4	3.4	10.3	17.2	

		US-	-395			Ranch	o Road	t		US	-395			Ranch	no Road	d	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fr	rom 04:	15 PM	to 05:00	PM - P	eak 1 o	f 1										
Peak Hour for	Entire In	ntersec	tion Be	gins at 0	4:15 PM	1											
04:15 PM	0	0	0	0	2	0	0	2	1	3	0	4	0	0	0	0	6
04:30 PM	0	2	0	2	0	0	0	0	0	1	0	1	0	0	0	0	3
04:45 PM	0	3	0	3	0	0	0	0	1	0	0	1	1	0	1	2	6
05:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	1	0	1	3
Total Volume	0	7	0	7	2	0	0	2	2	4	0	6	1	1	1	3	18
% App. Total	0	100	0		100	0	0		33.3	66.7	0		33.3	33.3	33.3		
PHF	.000	.583	.000	.583	.250	.000	.000	.250	.500	.333	.000	.375	.250	.250	.250	.375	.750

File Name: 06\_ADL\_US395\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1

Peak Hour for	Each Ap	oproach	Begins at:

Peak Hour for	Each Ap	oproact	n Begin	s at:												
	04:15 PM				04:15 PN	Л			04:15 PN	Л			04:15 PN	Л		
+0 mins.	0	0	0	0	2	0	0	2	1	3	0	4	0	0	0	0
+15 mins.	0	2	0	2	0	0	0	0	0	1	0	1	0	0	0	0
+30 mins.	0	3	0	3	0	0	0	0	1	0	0	1	1	0	1	2
+45 mins.	0	2	0	2	0	0	0	0	0	0	0	0	0	1	0	1
Total Volume	0	7	0	7	2	0	0	2	2	4	0	6	1	1	1	3
% App. Total	0	100	0		100	0	0		33.3	66.7	0		33.3	33.3	33.3	
PHF	.000	.583	.000	.583	.250	.000	.000	.250	.500	.333	.000	.375	.250	.250	.250	.375

City of Adelanto N/S: US-395 E/W: Rancho Road Weather: Clear File Name: 06\_ADL\_US395\_Rancho PM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

Page No : 1

Groups Printed- 3 Axle Vehicles

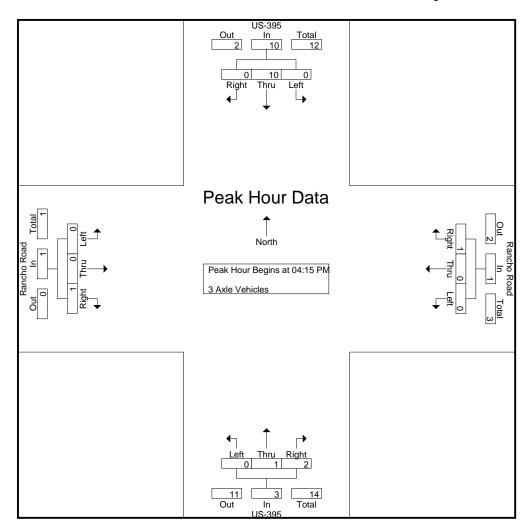
						<u> </u>	roups F	<u>rintea- 3</u>	Axie ve	enicies							
		US	-395			Ranch	o Road	t l		US	-395			Ranch	o Road		
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	0	2	0	1	0	1	0	0	0	0	0	0	0	0	3
04:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	2
04:30 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
04:45 PM	0	3	0	3	0	0	1	1	0	0	0	0	0	0	0	0	4
Total	0	9	0	9	0	1	1	2	0	0	0	0	0	0	1	1	12
05:00 PM	0	3	0	3	0	0	0	0	0	1	2	3	0	0	0	0	6
05:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:45 PM	0	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	6	1	7	0	0	0	0	0	2	2	4	0	0	0	0	11
Grand Total	0	15	1	16	0	1	1	2	0	2	2	4	0	0	1	1	23
Apprch %	0	93.8	6.2		0	50	50		0	50	50		0	0	100		
Total %	0	65.2	4.3	69.6	0	4.3	4.3	8.7	0	8.7	8.7	17.4	0	0	4.3	4.3	

		US-	-395			Ranch	o Road	d		US	-395			Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 04:	15 PM	to 05:00	PM - P	eak 1 o	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:15 PN	1											
04:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	2
04:30 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
04:45 PM	0	3	0	3	0	0	1	1	0	0	0	0	0	0	0	0	4
05:00 PM	0	3	0	3	0	0	0	0	0	1	2	3	0	0	0	0	6
Total Volume	0	10	0	10	0	0	1	1	0	1	2	3	0	0	1	1	15
% App. Total	0	100	0		0	0	100		0	33.3	66.7		0	0	100		
PHF	.000	.833	.000	.833	.000	.000	.250	.250	.000	.250	.250	.250	.000	.000	.250	.250	.625

File Name: 06\_ADL\_US395\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1

Peak Hour for	Each Ap	proach	Begins at:

I Call I Tour Tor																
	04:15 PM				04:15 PM	1			04:15 PN	Л			04:15 PN	1		
+0 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1
+15 mins.	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	3	0	3	0	0	1	1	0	0	0	0	0	0	0	0
+45 mins.	0	3	0	3	0	0	0	0	0	1	2	3	0	0	0	0
Total Volume	0	10	0	10	0	0	1	1	0	1	2	3	0	0	1	1
% App. Total	0	100	0		0	0	100		0	33.3	66.7		0	0	100	
PHF	.000	.833	.000	.833	.000	.000	.250	.250	.000	.250	.250	.250	.000	.000	.250	.250

City of Adelanto N/S: US-395 E/W: Rancho Road Weather: Clear File Name: 06\_ADL\_US395\_Rancho PM Site Code: 07523937

Site Code : 07523937 Start Date : 10/10/2023

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Groups Printed- 4+ Axle Trucks

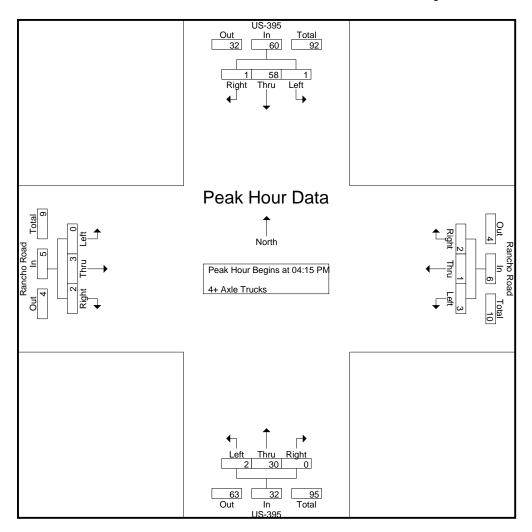
						<u>G</u>	<u>roups r</u>	mnied- 4	+ AXIC	HUCKS							
		US:	-395			Ranch	no Road	t		US	-395			Ranch	no Road		
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	2	16	0	18	4	1	0	5	0	7	0	7	1	1	1	3	33
04:15 PM	1	13	0	14	0	1	0	1	1	10	0	11	0	1	0	1	27
04:30 PM	0	14	1	15	0	0	0	0	1	8	0	9	0	2	2	4	28
04:45 PM	0	15	0	15	0	0	2	2	0	4	0	4	0	0	0	0	21
Total	3	58	1	62	4	2	2	8	2	29	0	31	1	4	3	8	109
05:00 PM	0	16	0	16	3	0	0	3	0	8	0	8	0	0	0	0	27
05:15 PM	2	21	0	23	2	0	0	2	1	5	0	6	0	0	0	0	31
05:30 PM	0	16	0	16	2	0	0	2	0	10	0	10	0	1	1	2	30
05:45 PM	0	16	1	17	1	0	0	1	0	5	0	5	0	0	0	0	23
Total	2	69	1	72	8	0	0	8	1	28	0	29	0	1	1	2	111
Grand Total	5	127	2	134	12	2	2	16	3	57	0	60	1	5	4	10	220
Apprch %	3.7	94.8	1.5		75	12.5	12.5		5	95	0		10	50	40		
Total %	2.3	57.7	0.9	60.9	5.5	0.9	0.9	7.3	1.4	25.9	0	27.3	0.5	2.3	1.8	4.5	

		US-	-395			Ranch	o Road	t		US	-395			Ranch	no Road	t	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 04:	:15 PM	to 05:00	PM - P	eak 1 o	f 1										
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:15 PN	1											
04:15 PM	1	13	0	14	0	1	0	1	1	10	0	11	0	1	0	1	27
04:30 PM	0	14	1	15	0	0	0	0	1	8	0	9	0	2	2	4	28
04:45 PM	0	15	0	15	0	0	2	2	0	4	0	4	0	0	0	0	21
05:00 PM	0	16	0	16	3	0	0	3	0	8	0	8	0	0	0	0	27
Total Volume	1	58	1	60	3	1	2	6	2	30	0	32	0	3	2	5	103
% App. Total	1.7	96.7	1.7		50	16.7	33.3		6.2	93.8	0		0	60	40		
PHF	.250	.906	.250	.938	.250	.250	.250	.500	.500	.750	.000	.727	.000	.375	.250	.313	.920

File Name: 06\_ADL\_US395\_Rancho PM

Site Code : 07523937 Start Date : 10/10/2023

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Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1

Peak Hour for	Each	Approach	Begins at:

Peak Hour for	Each A	pproac	n Begin:	s at:												
	04:15 PN	1			04:15 PN	Л			04:15 PN	И			04:15 PN	1		
+0 mins.	1	13	0	14	0	1	0	1	1	10	0	11	0	1	0	1
+15 mins.	0	14	1	15	0	0	0	0	1	8	0	9	0	2	2	4
+30 mins.	0	15	0	15	0	0	2	2	0	4	0	4	0	0	0	0
+45 mins.	0	16	0	16	3	0	0	3	0	8	0	8	0	0	0	0
Total Volume	1	58	1	60	3	1	2	6	2	30	0	32	0	3	2	5
% App. Total	1.7	96.7	1.7		50	16.7	33.3		6.2	93.8	0		0	60	40	
PHF	.250	.906	.250	.938	.250	.250	.250	.500	.500	.750	.000	.727	.000	.375	.250	.313

### **APPENDIX C**

**Future Growth Increment Calculation Worksheets** 

					Koala	Road	(NS) / R	ancho Road (EW) - #1						
MORNING EXISTING PEAK HOUR TURNING MOVEMENT VOL			:				(//	EVENING PEAK H EXISTING PEAK HOUR TURNING MOVEMENT VOLUMES (A						
2024	(/	. 23)	0 <	17 V	39			2024	/-	1 <	6 V	81		
	0	^	•	·		^	47	0	^	•	·	-	^ <	38
	0	> v				< v	0 123	0	> v				v	1 20
			0	8	> 21					0	20	> 133		
EXISTING PEAK HOUR COUNT YEAR (AUTOS): 2024				56	55			EXISTING PEAK HOUR COUNT YEAR (AUTOS): 2024			88	58		
2027		0		v IN =	^ 255		170	1024	2	<	v IN =	300		59
		0	>	OUT =	255	>	60		0	>	OUT =	300	>	214
				v 140	29						v 26	153		
EXISTING PEAK HOUR TURNING MOVEMENT VOL	UMES (1	TRUCKS	IN PO		15			EXISTING PEAK HOUR TURNING MOVEMENT VOLUMES (T	RUCKS	IN PC		6		
			<	v	>					<	v	>		
	0	>				<	5	0	>				<	6 0
PCE FACTORS BY AXLE:	0	V	<	^	>	٧	11	0 PCE FACTORS BY AXLE:	V	<	^	>	٧	14
2: 2.0 3: 2.5 4+: 3 TOTAL EXISTING PEAK HOUR TURNING MOVEMENT	.0	INVES (E	0	2	12			2: 2.0 3: 3 4+: 3.0 TOTAL EXISTING PEAK HOUR TURNING MOVEMENT VOLU	MEC /D	0	0	26		
2024	WI VOL	JIVILJ (F	0	22	54			2024	WILD (F	1	6	87		
	0	^	<	v	>	^	52	0	٨	<	v	>	^	44
	0	> v				< V	0 134	0	> V				< v	1 34
			<	^	>					< 0	^	>		
EXISTING PEAK PERIOD MODEL YEAR (AUTO):			0	10	33			EXISTING PEAK PERIOD MODEL YEAR (AUTO):		0	20	159		
2016				217 v	167			2016			254 v	245		
		63 40	< >	IN = OUT =	515 518	< >	213 99		279 96	< >	IN = OUT =	912 911	< >	348 316
		40		v	٨	_	23		20	_	v	^	_	210
EXISTING PEAK PERIOD MODEL YEAR (TRUCKS IN	PCEs):			189	45			EXISTING PEAK PERIOD MODEL YEAR (TRUCKS IN PCEs):			71	214		
2016				7 V	7			2016			10 V	9		
		7 7	<	IN =	27	<	12		16 9	< >	IN =	42	<	21
		7	>	OUT =	27	>	12		9	>	OUT = v	43	>	17
EXISTING PEAK HOUR MODEL YEAR (PCEs):				1	1			EXISTING PEAK HOUR MODEL YEAR (PCEs):			1	2		
PHF FOR CARS: 0.33 PHF FOR TRUCKS: 0.333				75 v	58			PHF FOR CARS: 0.25 PHF FOR TRUCKS: 0.25			66 v	64		
ON INOCKS. U.333		23	<	IN =	180	<	75	ON TROCKS. U.23	74	<	IN =	239	<	92
		16	>	OUT =	181	>	37		26	>	OUT =	239	>	83
FUTURE PEAK PERIOD MODEL YEAR (AUTO):				63	15			FUTURE PEAK PERIOD MODEL YEAR (AUTO):			18	54		
2040				436	347			2040			653	715		
		463	<	IN =	1265	<	274		384	<	IN =	2007	<	287
		148	>	OUT =	1265	>	94		504	>	OUT =	2006	>	355
ELITLIDE DEAV DEDICO MODEL 1999 (700.00)	CE-1			361	407			CUTURE DEAK DEDICO MADRI VEAR (TOUCH WAS			552	563		
FUTURE PEAK PERIOD MODEL YEAR (TRUCKS IN P 2040	CES):			19	14			FUTURE PEAK PERIOD MODEL YEAR (TRUCKS IN PCEs): 2040			26	25		
		25	<	V IN =	65	<	4		19	<	V IN =	74	<	14
		14	>	OUT =	65	>	8		14	>	OUT =	73	>	6
				18	28						23	20		
FUTURE PEAK HOUR MODEL YEAR (PCEs): PHF FOR CARS: 0.33				152	120			FUTURE PEAK HOUR MODEL YEAR (PCEs): PHF FOR CARS: 0.25			170	185		
PHF FOR TRUCKS: 0.333		163	<	v IN =	443	<	93	PHF FOR TRUCKS: 0.25	101	<	v IN =	^ 520	<	75
		54	>	OUT =	443	>	34		130	>	OUT =	520	>	90
				v 126	145						v 144	146		
RAW GROWTH (PCEs): 2016 TO : CONVERSION OF TRUCKS TO: 2040	2040			77	62			RAW GROWTH (PCEs): 2016 TO 2040 CONVERSION OF TRUCKS TO: 2040			104	122		
FACTOR = 1.00		139	<	٧	^	<	18	FACTOR = 1.00	27	<	٧	^	<	-17
		38	>			>	-3		103	>			>	7
				v 63	130						v 126	92		
ADJUSTED GROWTH (PCEs): 2016 2 MINIMUM GROWTH %	то	2040		80	60			ADJUSTED GROWTH (PCEs): 2016 TO 2 2 MINIMUM GROWTH %	2040		100	120		
2		,		٧	^						v	^		
		140 40	>	IN = OUT =	270 260	>	20 0		30 100	>	IN = OUT =	290 290	>	0 10
				v 60	130						v 130	90		
PRORATED GROWTH (PCEs): 2024 21 YEARS	то	2045		70	50			PRORATED GROWTH (PCEs): 2024 TO 2 21 YEARS	2045		90	110		
21 TEMPS				/U V	^			21 IEMS			90 V	110		
		120 40	>			>	20 0		30 90	>			>	0 10
				v 50	110						v 110	80		
NEW PROJECTED VOLUMES (PCEs): 2045								NEW PROJECTED VOLUMES (PCEs): 2045						
				150 v	110						180 v	170		
		120 40	< >			< >	210 90		30 90	< >			< >	80 260
				٧	۸	,					V	^		
				210	150				025		150	260		
	то	2025		0 v	0			1 YEARS			0 v	10		
YEAR 2025 GROWTH: 2024 1 YEARS	то	2025				<	0			<	•		<	0
	то	10	<	V		~				~				0
	то		< >	v	^	>	0		0	>	v	٨	>	
1 YEARS	то	10			^ 10	>	0	INITIAL YEAR 2025 VOLUMES:	0	>	v 10	0	>	
1 YEARS	то	10		v 0	10 60	>		INITIAL YEAR 2025 VOLUMES: 2025	0	>	10 90	70	>	
1 YEARS  INITIAL YEAR 2025 VOLUMES:	то	10 0	>	v 0 80 v IN =	10 60 ^ 320	<	190		0	<	90 v IN =	70 ^ 350	<	80
1 YEARS  INITIAL YEAR 2025 VOLUMES:	то	10 0	>	v 0 80 v	10 60 ^						10 90 v	70 ^		80 250
1 YEARS  INITIAL YEAR 2025 VOLUMES: 2025	то	10 0	>	v 0 80 v IN = OUT =	10 60 ^ 320 320	<	190	2025	0	<	90 v IN = OUT =	70 ^ 350 370	<	
1 YEARS  INITIAL YEAR 2025 VOLUMES:	то	10 0	>	v 0 80 v IN = OUT = v	10 60 ^ 320 320 ^ 50	<	190		0	<	90 v IN = OUT = v	70 ^ 350 370 ^ 180	<	
1 YEARS  INITIAL YEAR 2025 VOLUMES: 2025  BALANCED YEAR 2025 VOLUMES:	то	10 0	> < >	v 0 80 v IN = OUT = v 160	10 60 ^ 320 320 ^ 50	< >	190 90	BALANCED YEAR 2025 VOLUMES:	0 0	< >	90 v IN = OUT = v 50	70 ^ 350 370 ^ 180	< >	250
1 YEARS  INITIAL YEAR 2025 VOLUMES: 2025  BALANCED YEAR 2025 VOLUMES:	то	10 0	>	v 0 80 v IN = OUT = v 160 80	10 60 ^ 320 320 ^ 50	<	190	BALANCED YEAR 2025 VOLUMES:	0	<	90 V IN = OUT = V 50	70 ^ 350 370 ^ 180	<	

# Koala Road (NS) / Rancho Road (EW) - #1 FUTURE DIRECTIONAL TURN VOLUMES FROM FUTURE DIRECTIONAL LINK VOLUMES NCHRP 255

			YEAR	2025 TRAFFIC C	CONDITIONS	(IN PCEs)			
	MORNII	NG PEAK HOUR	R INPUT DATA			EVENI	NG PEAK HOUF	R INPUT DATA	
	TURNING	BASE YEAR		YEAR 2025		TURNING	BASE YEAR		YEAR 2025
APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL	APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL
NORTH	LEFT	0	SOUTH LEG		NORTH	LEFT	0	SOUTH LEG	
BOUND	THRU	10	IN	50	BOUND	THRU	20	IN	190
	RIGHT	33	OUT	160		RIGHT	159	OUT	50
SOUTH	LEFT	54	NORTH LEG		SOUTH	LEFT	87	NORTH LEG	
BOUND	THRU	22	IN	80	BOUND	THRU	6	IN	100
	RIGHT	0	OUT	60		RIGHT	1	OUT	70
EAST	LEFT	0	WEST LEG		EAST	LEFT	0	WEST LEG	
BOUND	THRU	0	IN	0	BOUND	THRU	0	IN	0
	RIGHT	0	OUT	10		RIGHT	0	OUT	0
WEST	LEFT	134	EAST LEG		WEST	LEFT	34	EAST LEG	
BOUND	THRU	0	IN	190	BOUND	THRU	1	IN	80
	RIGHT	52	OUT	90		RIGHT	44	OUT	250

			YEAF	R 2025 TR	AFFIC C	CONDITIONS	(IN PCEs)				
	MORN	ING PEAK HOU	R RESULTS				EVEN	IING PEAK HOL	IR RESULTS		
	TURNING	BASE YEAR	YEAR 2025	PEAK -	DAILY		TURNING	BASE YEAR	YEAR 2025	PEAK	- DAILY
APPROACH	MOVEMENT	COUNT	FORECAST	RELATIO	ONSHIP	APPROACH	MOVEMENT	COUNT	FORECAST	RELATI	IONSHIP
NORTH	LEFT	0	0	NORTH	H LEG	NORTH	LEFT	0	0	NORT	TH LEG
BOUND	THRU	10	12	RATIO	4.7%	BOUND	THRU	20	29	RATIO	5.8%
	RIGHT	33	37	ADT	3,000		RIGHT	159	161	ADT	3,000
SOUTH	LEFT	54	54	SOUTH	H LEG	SOUTH	LEFT	87	89	SOUT	HLEG
BOUND	THRU	22	24	RATIO	3.9%	BOUND	THRU	6	11	RATIO	4.5%
	RIGHT	0	0	ADT	5,300		RIGHT	1	1	ADT	5,300
EAST	LEFT	0	0	EAST	LEG	EAST	LEFT	0	0	EAS	TLEG
BOUND	THRU	0	0	RATIO	4.4%	BOUND	THRU	0	0	RATIO	5.3%
	RIGHT	0	0	ADT	6,300		RIGHT	0	0	ADT	6,300
WEST	LEFT	134	136	WEST	LEG	WEST	LEFT	34	39	WES	T LEG
BOUND	THRU	0	0	RATIO	-	BOUND	THRU	1	1	RATIO	0.0%
	RIGHT	52	52	ADT	7,700		RIGHT	44	44	ADT	7,700

# Koala Road (NS) / Rancho Road (EW) - #1 FUTURE DIRECTIONAL TURN VOLUMES FROM FUTURE DIRECTIONAL LINK VOLUMES NCHRP 255

			YEAR	2045 TRAFFIC C	CONDITIONS	(IN PCEs)			
	MORNII	NG PEAK HOUR	INPUT DATA			EVENII	NG PEAK HOUF	R INPUT DATA	
	TURNING	BASE YEAR		YEAR 2045		TURNING	BASE YEAR		YEAR 2045
APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL	APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL
NORTH	LEFT	0	SOUTH LEG		NORTH	LEFT	0	SOUTH LEG	
BOUND	THRU	10	IN	150	BOUND	THRU	20	IN	260
	RIGHT	33	OUT	210		RIGHT	159	OUT	150
SOUTH	LEFT	54	NORTH LEG		SOUTH	LEFT	87	NORTH LEG	
BOUND	THRU	22	IN	150	BOUND	THRU	6	IN	180
	RIGHT	0	OUT	110		RIGHT	1	OUT	170
EAST	LEFT	0	WEST LEG		EAST	LEFT	0	WEST LEG	
BOUND	THRU	0	IN	40	BOUND	THRU	0	IN	90
	RIGHT	0	OUT	120		RIGHT	0	OUT	30
WEST	LEFT	134	EAST LEG		WEST	LEFT	34	EAST LEG	
BOUND	THRU	0	IN	210	BOUND	THRU	1	IN	80
	RIGHT	52	OUT	90		RIGHT	44	OUT	260

			YEAF	R 2045 TR	RAFFIC C	CONDITIONS	(IN PCEs)				
	MORN	IING PEAK HOU	R RESULTS				EVEN	NING PEAK HOL	IR RESULTS		
	TURNING	BASE YEAR	YEAR 2045	PEAK -	DAILY		TURNING	BASE YEAR	YEAR 2045	PEAK -	- DAILY
APPROACH	MOVEMENT	COUNT	FORECAST	RELATION	ONSHIP	APPROACH	MOVEMENT	COUNT	FORECAST	RELATI	ONSHIP
NORTH	LEFT	0	0	NORT	H LEG	NORTH	LEFT	0	0	NORT	H LEG
BOUND	THRU	10	69	RATIO	8.9%	BOUND	THRU	20	137	RATIO	13.3%
	RIGHT	33	52	ADT	3,000		RIGHT	159	175	ADT	3,000
SOUTH	LEFT	54	59	SOUTI	H LEG	SOUTH	LEFT	87	96	SOUT	HLEG
BOUND	THRU	22	82	RATIO	6.6%	BOUND	THRU	6	92	RATIO	8.7%
	RIGHT	0	0	ADT	5,300		RIGHT	1	27	ADT	5,300
EAST	LEFT	0	0	EAST	LEG	EAST	LEFT	0	0	EAST	ΓLEG
BOUND	THRU	0	0	RATIO	5.0%	BOUND	THRU	0	0	RATIO	6.0%
	RIGHT	0	0	ADT	6,300		RIGHT	0	0	ADT	6,300
WEST	LEFT	134	147	WEST	LEG	WEST	LEFT	34	58	WES	T LEG
BOUND	THRU	0	0	RATIO	-	BOUND	THRU	1	3	RATIO	0.4%
	RIGHT	52	57	ADT	7,700		RIGHT	44	48	ADT	7,700

				Bellflow	er Str	eet (NS)	/ Rancho Road (EW) - #2						
MORNING PE EXISTING PEAK HOUR TURNING MOVEMENT VOLUM							EVENING PEAK EXISTING PEAK HOUR TURNING MOVEMENT VOLUMES		):				
2024		49 <	59 V	12			2024		13	94 V	10		
6	7 ^		·		^ <	3 342	19 281	^ >		•		^ <	25 65
2			^		v	4	163	v		^		v	37
		< 84	48	> 19					< 17	64	> 31		
EXISTING PEAK HOUR COUNT YEAR (AUTOS): 2024			120	58			EXISTING PEAK HOUR COUNT YEAR (AUTOS): 2024			117	108		
	475	<	V IN =	^ 715	<	349		95	<	v IN =	۸ 819	<	127
	95		OUT =	715	>	98		463	>	OUT =	819	>	322
			v 84	151						v 294	112		
EXISTING PEAK HOUR TURNING MOVEMENT VOLUM	ES (TRUCK	(S IN PO	CEs): 0	4			EXISTING PEAK HOUR TURNING MOVEMENT VOLUMES	(TRUCKS	IN PC	Es): 4	0		
	0 ^	<	v	>		4	0		<	v	>		4
3	8 >				<	32	28	>				<	14
PCE FACTORS BY AXLE:	4 v	<	^	>	v	6	PCE FACTORS BY AXLE:	v	<	^	>	v	3
2: 2.0 3: 2.5 4+: 3.0 TOTAL EXISTING PEAK HOUR TURNING MOVEMENT	/OLLIMES	(PCEs)	0	0			2: 2.0 3: 3 4+: 3.0  TOTAL EXISTING PEAK HOUR TURNING MOVEMENT VOL	LIMES (I	2 PCFs):	0	0		
2024	CEOMES	58	59	16			2024		15	98	10		
	7 ^	<	٧	>	^	7	19	^	<	v	>	^	29
	05 > 25 v				< v	374 10	309 167	> v				< v	79 40
		< 89	48	> 19					< 19	64	> 31		
EXISTING PEAK PERIOD MODEL YEAR (AUTO):		03					EXISTING PEAK PERIOD MODEL YEAR (AUTO):		19				
2016			102 v	112			2016			244 v	153		
	79 51		IN = OUT =	377 377	< >	68 100		292 113	< >	IN = OUT =	862 862	< >	370 109
	51		v	٨		200		113	-	v	^	•	-03
EXISTING PEAK PERIOD MODEL YEAR (TRUCKS IN PCE	s):		86	156			EXISTING PEAK PERIOD MODEL YEAR (TRUCKS IN PCEs):			308	135		
2016			2 v	3			2016			3 v	3		
	12		IN =	29	<	13		22	< >	IN =	44	< >	23
	12	>	OUT =	29	>	13		16	,	OUT = v	45	,	18
EXISTING PEAK HOUR MODEL YEAR (PCEs):			1	2			EXISTING PEAK HOUR MODEL YEAR (PCEs):			2	2		
PHF FOR CARS: 0.33 PHF FOR TRUCKS: 0.333			35 V	38			PHF FOR CARS: 0.25 PHF FOR TRUCKS: 0.25			62 V	39		
PHI FOR INDERS. U.555	30		IN =	135	<	27	PHI FOR IROCKS. U.25	79	<	IN =	227	<	98
	21	. >	OUT =	135	>	38		32	>	OUT =	227	>	32
FUTURE PEAK PERIOD MODEL YEAR (AUTO):			29	53			FUTURE PEAK PERIOD MODEL YEAR (AUTO):			78	34		
2040			31	45			2040			70	82		
	161	. <	IN =	422	<	178		393	<	IN =	764	<	419
	193	>	OUT =	423	>	198		237	>	OUT =	764	>	251
CUTURE REAK REDIOD MODEL VEAR (TRUCKS IN ROCK	Y-		19	20			SUTURE DEAK REPURD MODEL VEAD (TRUCKS IN RES)			38	38		
FUTURE PEAK PERIOD MODEL YEAR (TRUCKS IN PCES 2040	):		2	2			FUTURE PEAK PERIOD MODEL YEAR (TRUCKS IN PCEs): 2040			2	2		
	5	<	V IN =	17	<	6		14	<	v IN =	24	<	16
	8	>	OUT =	18	>	10		5	>	OUT =	24	>	7
			1	1						1	1		
FUTURE PEAK HOUR MODEL YEAR (PCEs): PHF FOR CARS: 0.33			11	16			FUTURE PEAK HOUR MODEL YEAR (PCEs): PHF FOR CARS: 0.25			18	21		
PHF FOR TRUCKS: 0.333	55	<	v IN =	146	<	61	PHF FOR TRUCKS: 0.25	102	<	v IN =	197	<	109
	67		OUT =	147	>	69		61	>	OUT =	197	>	65
			v 7	7						v 10	10		
RAW GROWTH (PCEs): 2016 TO 204 CONVERSION OF TRUCKS TO: 2040	0		-24	-23			RAW GROWTH (PCEs): 2016 TO 2040 CONVERSION OF TRUCKS TO: 2040			-44	-18		
FACTOR = 1.00	25	<	v	^	<	34	FACTOR = 1.00	23	<	v	^	<	11
	46				>	32		28	>			>	33
			-22	-46						v -68	-25		
ADJUSTED GROWTH (PCEs): 2016 TO 2 MINIMUM GROWTH %	2040		0	0			ADJUSTED GROWTH (PCEs): 2016 TO 2 MINIMUM GROWTH %	2040		0	0		
			v	٨		20				v	٨		10
	20 50		IN = OUT =	80 50	>	30 30		20 30	>	IN = OUT =	40 50	>	10 30
			v 0	0						v 0	0		
PRORATED GROWTH (PCEs): 2024 TO	2045						PRORATED GROWTH (PCEs): 2024 TO	2045					
21 YEARS			0 v	0			21 YEARS			0 v	0		
	20 40				>	30 30		20 30	>			>	10 30
			v 0	0						v 0	0		
NEW PROJECTED VOLUMES (PCEs): 2045							NEW PROJECTED VOLUMES (PCEs): 2045						
			130 v	60						120 v	110		
	540 180				< >	420 170		130 530	< >			< >	160 380
	100		v	٨		_,,,		230	-	v	^	•	_50
YEAR 2025 GROWTH: 2024 TO	2025		90	160			YEAR 2025 GROWTH: 2024 TO	2025		310	110		
1 YEARS			0 V	0			1 YEARS			0 v	0		
	0		٧		<	0		0	<	٧		<	0
	0	) >	v	٨	>	0		0	>	v	^	>	0
INITIAL YEAR 2025 VOLUMES:			0	0			INITIAL YEAR 2025 VOLUMES:			0	0		
2025			130	60			2025			120	110		
	520	٠ <	IN =	820	<	390		110	<	V IN =	880	<	150
	140	>	OUT =	810	>	140		500	>	OUT =	880	>	350
			90	160						310	110		
BALANCED YEAR 2025 VOLUMES: 2025			130	60			BALANCED YEAR 2025 VOLUMES: 2025			120	110		
	530	١ <	v IN =	820	<	390		110	<	v IN =	880	<	150
	140		OUT =	820	>	140		500	>	OUT =	880	>	350
			v 90	160	_			_		v 310	110	_	
			_	_	_	_			_		_	_	

# Beliflower Street (NS) / Rancho Road (EW) - #2 FUTURE DIRECTIONAL TURN VOLUMES FROM FUTURE DIRECTIONAL LINK VOLUMES NCHRP 255

			YEAR	2025 TRAFFIC C	CONDITIONS	(IN PCEs)			
	MORNII	NG PEAK HOUR	INPUT DATA			EVENII	NG PEAK HOUF	R INPUT DATA	
	TURNING	BASE YEAR		YEAR 2025		TURNING	BASE YEAR		YEAR 2025
APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL	APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL
NORTH	LEFT	89	SOUTH LEG		NORTH	LEFT	19	SOUTH LEG	
BOUND	THRU	48	IN	160	BOUND	THRU	64	IN	110
	RIGHT	19	OUT	90		RIGHT	31	OUT	310
SOUTH	LEFT	16	NORTH LEG		SOUTH	LEFT	10	NORTH LEG	
BOUND	THRU	59	IN	130	BOUND	THRU	98	IN	120
	RIGHT	58	OUT	60		RIGHT	15	OUT	110
EAST	LEFT	7	WEST LEG		EAST	LEFT	19	WEST LEG	
BOUND	THRU	105	IN	140	BOUND	THRU	309	IN	500
	RIGHT	25	OUT	530		RIGHT	167	OUT	110
WEST	LEFT	10	EAST LEG		WEST	LEFT	40	EAST LEG	
BOUND	THRU	374	IN	390	BOUND	THRU	79	IN	150
	RIGHT	7	OUT	140		RIGHT	29	OUT	350

			YEAF	R 2025 TR	AFFIC C	CONDITIONS	(IN PCEs)				
	MORN	IING PEAK HOU	R RESULTS				EVEN	IING PEAK HOU	R RESULTS		
	TURNING	BASE YEAR	YEAR 2025	PEAK -	DAILY		TURNING	BASE YEAR	YEAR 2025	PEAK -	- DAILY
APPROACH	MOVEMENT	COUNT	FORECAST	RELATIC	NSHIP	APPROACH	MOVEMENT	COUNT	FORECAST	RELATI	ONSHIP
NORTH	LEFT	89	95	NORTH	l LEG	NORTH	LEFT	19	19	NORT	H LEG
BOUND	THRU	48	48	RATIO	6.6%	BOUND	THRU	64	64	RATIO	7.8%
	RIGHT	19	19	ADT	3,000		RIGHT	31	31	ADT	3,000
SOUTH	LEFT	16	16	SOUTH	LEG	SOUTH	LEFT	10	10	SOUT	H LEG
BOUND	THRU	59	59	RATIO	4.8%	BOUND	THRU	98	98	RATIO	8.0%
	RIGHT	58	60	ADT	5,300		RIGHT	15	15	ADT	5,300
EAST	LEFT	7	7	EAST	LEG	EAST	LEFT	19	19	EAS1	LEG
BOUND	THRU	105	107	RATIO	8.5%	BOUND	THRU	309	311	RATIO	8.0%
	RIGHT	25	26	ADT	6,300		RIGHT	167	171	ADT	6,300
WEST	LEFT	10	10	WEST	LEG	WEST	LEFT	40	42	WES	ΓLEG
BOUND	THRU	374	376	RATIO	8.7%	BOUND	THRU	79	79	RATIO	8.0%
	RIGHT	7	7	ADT	7,700		RIGHT	29	29	ADT	7,700

# Beliflower Street (NS) / Rancho Road (EW) - #2 FUTURE DIRECTIONAL TURN VOLUMES FROM FUTURE DIRECTIONAL LINK VOLUMES NCHRP 255

			YEAR	2045 TRAFFIC C	CONDITIONS	(IN PCEs)			
	MORNIN	NG PEAK HOUR	INPUT DATA			EVENI	NG PEAK HOUF	R INPUT DATA	
	TURNING	BASE YEAR		YEAR 2045		TURNING	BASE YEAR		YEAR 2045
APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL	APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL
NORTH	LEFT	89	SOUTH LEG		NORTH	LEFT	19	SOUTH LEG	
BOUND	THRU	48	IN	160	BOUND	THRU	64	IN	110
	RIGHT	19	OUT	90		RIGHT	31	OUT	310
SOUTH	LEFT	16	NORTH LEG		SOUTH	LEFT	10	NORTH LEG	
BOUND	THRU	59	IN	130	BOUND	THRU	98	IN	120
	RIGHT	58	OUT	60		RIGHT	15	OUT	110
EAST	LEFT	7	WEST LEG		EAST	LEFT	19	WEST LEG	
BOUND	THRU	105	IN	180	BOUND	THRU	309	IN	530
	RIGHT	25	OUT	540		RIGHT	167	OUT	130
WEST	LEFT	10	EAST LEG		WEST	LEFT	40	EAST LEG	
BOUND	THRU	374	IN	420	BOUND	THRU	79	IN	160
	RIGHT	7	OUT	170		RIGHT	29	OUT	380

			YEAR	R 2045 TR	AFFIC C	CONDITIONS	(IN PCEs)				
	MORN	IING PEAK HOU	R RESULTS				EVEN	IING PEAK HOL	IR RESULTS		
	TURNING	BASE YEAR	YEAR 2045	PEAK -	DAILY		TURNING	BASE YEAR	YEAR 2045	PEAK -	- DAILY
APPROACH	MOVEMENT	COUNT	FORECAST	RELATIO	ONSHIP	APPROACH	MOVEMENT	COUNT	FORECAST	RELATI	ONSHIP
NORTH	LEFT	89	98	NORTH	H LEG	NORTH	LEFT	19	21	NORT	H LEG
BOUND	THRU	48	53	RATIO	7.2%	BOUND	THRU	64	70	RATIO	8.6%
	RIGHT	19	21	ADT	3,000		RIGHT	31	34	ADT	3,000
SOUTH	LEFT	16	18	SOUTH	l LEG	SOUTH	LEFT	10	11	SOUT	H LEG
BOUND	THRU	59	65	RATIO	5.2%	BOUND	THRU	98	108	RATIO	8.7%
	RIGHT	58	64	ADT	5,300		RIGHT	15	17	ADT	5,300
EAST	LEFT	7	9	EAST	LEG	EAST	LEFT	19	21	EAST	ΓLEG
BOUND	THRU	105	136	RATIO	9.6%	BOUND	THRU	309	340	RATIO	8.8%
	RIGHT	25	29	ADT	6,300		RIGHT	167	184	ADT	6,300
WEST	LEFT	10	11	WEST	LEG	WEST	LEFT	40	44	WES	T LEG
BOUND	THRU	374	411	RATIO	9.7%	BOUND	THRU	79	92	RATIO	8.8%
	RIGHT	7	8	ADT	7,700		RIGHT	29	32	ADT	7,700

				US-	395 (N	IS) / Rar	ncho Road (EW) - #3	
MORNING PEA EXISTING PEAK HOUR TURNING MOVEMENT VOLUME		):					EVENING PEAK HOUR EXISTING PEAK HOUR TURNING MOVEMENT VOLUMES (AUTOS):	
2024		22 <	189 v	6 >			2024 14 470 3 < v >	
5 29					^	2 43	24 ^ 75 >	^ 10 < 37
61		<	^	>	٧	31	228 v < ^ >	v 101
EVICTING DEAV HOUR COUNT YEAR (AUTOC)		289	311	21			84 341 13	
EXISTING PEAK HOUR COUNT YEAR (AUTOS): 2024			217	318			EXISTING PEAK HOUR COUNT YEAR (AUTOS): 2024 487 375	
	354	<	v IN =	1009	<	76	135 < IN = 1400	< 148
	95	>	OUT =	1009	>	56		> 91
			281	621			799 438	
EXISTING PEAK HOUR TURNING MOVEMENT VOLUME	S (TRUCKS	3 IN PC	Es): 110	0			EXISTING PEAK HOUR TURNING MOVEMENT VOLUMES (TRUCKS IN PCES):  3 213 3	
2		<	٧	>	٨	0	< v > 2 ^	^ 9
10 20					< V	16 47	11 > 11 v	< 3 v 13
PCE FACTORS BY AXLE:		<	^	>	٠	47	PCE FACTORS BY AXLE: < ^ >	v 15
2: 2.0 3: 2.5 4+: 3.0 TOTAL EXISTING PEAK HOUR TURNING MOVEMENT VI	OLUMES (		116	0			2: 2.0 3: 3 4+: 3.0 10 101 5  TOTAL EXISTING PEAK HOUR TURNING MOVEMENT VOLUMES (PCES):	
2024		25 <	299 v	6 >			2024 17 683 6 < v >	
3	7 ^ 9 >				^ <	2 59	26 ^ 86 >	^ 19 < 40
8:		<	^	>	v	78	239 v	v 114
		310	427	21			94 442 18	
EXISTING PEAK PERIOD MODEL YEAR (AUTO): 2016			1025	1329			EXISTING PEAK PERIOD MODEL YEAR (AUTO): 2016 1962 1388	
	96	<	v IN =	^ 2469	<	23	v ^ 359 < IN = 3746	< 47
	91	>	OUT =	2469	>	33	145 > OUT = 3746	> 161
			v 1011	1330			1838 1592	
EXISTING PEAK PERIOD MODEL YEAR (TRUCKS IN PCES 2016	):		82	156			EXISTING PEAK PERIOD MODEL YEAR (TRUCKS IN PCES): 2016 147 35	
	14	<	v IN =	266	<	3	23 < IN = 223	< 3
	13	>	OUT =	265	>	3	19 > OUT = 224	> 29
			v 92	168			137 54	
EXISTING PEAK HOUR MODEL YEAR (PCEs): PHF FOR CARS: 0.33			369	495			EXISTING PEAK HOUR MODEL YEAR (PCEs):           PHF FOR CARS:         0.25         527         356	
PHF FOR TRUCKS: 0.333	37	<	v IN =	911	<	9	PHF FOR TRUCKS: 0.25 v ^ 96 < IN = 992	< 13
	35	>	OUT =	910	>	12		> 48
			367	499			494 412	
FUTURE PEAK PERIOD MODEL YEAR (AUTO): 2040			5066	3045			FUTURE PEAK PERIOD MODEL YEAR (AUTO): 2040 4553 8008	
	207	<	v IN =	8123	<	303	431 < IN = 12739	< 471
	191	>	OUT =	8123	>	264		> 387
			4607	2563			3913 7421	
FUTURE PEAK PERIOD MODEL YEAR (TRUCKS IN PCES): 2040			109	213			FUTURE PEAK PERIOD MODEL YEAR (TRUCKS IN PCES): 2040 269 191	
	8	<	v IN =	335	<	115	18 < IN = 477	< 21
	11	>	OUT =	335	>	18	9 > OUT = 477	> 139
			96	100			129 178	
FUTURE PEAK HOUR MODEL YEAR (PCEs): PHF FOR CARS: 0.33			1723	1085			FUTURE PEAK HOUR MODEL YEAR (PCES): PHF FOR CARS: 0.25 1206 2050	
PHF FOR TRUCKS: 0.333	72	<	v IN =	2817	<	139	PHF FOR TRUCKS: 0.25 v ^ 112 < IN = 3304	< 123
	67	>	OUT =	2817	>	94		> 132
			1566	887			1011 1900	
RAW GROWTH (PCEs): 2016 TO 2040 CONVERSION OF TRUCKS TO: 2040			1355	590			RAW GROWTH (PCEs): 2016 TO 2040 CONVERSION OF TRUCKS TO: 2040 678 1694	
FACTOR = 1.00	35	<	٧	^	<	131	FACTOR = 1.00 v ^	< 111
	33	>	v	^	>	82		> 84
			1199	388			517 1488	
ADJUSTED GROWTH (PCEs): 2016 TO 2 MINIMUM GROWTH %	2040		1350	590			ADJUSTED GROWTH (PCEs): 2016 TO 2040 2 MINIMUM GROWTH % 680 1690	
	30	<	v IN =	1900	<	130	۸ ۸	< 110
	30	>	OUT =	1900	>	80		> 80
DRODATED CROWTH (DCF-)	2075		1200	390			520 1490	
PRORATED GROWTH (PCEs): 2024 TO 21 YEARS	2045		1180	520			PRORATED GROWTH (PCEs): 2024 TO 2045 21 YEARS 600 1480	
	30	<	٧	۸	<	110	v ^	< 100
	30	>	v	^	>	70	30 >	> 70
NEW DROJECTED VOLUMES (DCF.)			1050	340			460 1300	
NEW PROJECTED VOLUMES (PCEs): 2045			1510	960			NEW PROJECTED VOLUMES (PCEs): 2045 1310 1970	
	420	<	٧	^	<	250		< 270
	160	>	v	٨	>	140	380 >	> 180
YEAR 2025 GROWTH: 2024 TO	2025		1510	1100			1500 1850	
YEAR 2025 GROWTH: 2024 TO 1 YEARS	2025		60	20			1 YEARS 30 70	
	0	<	v	٨	<	10		< 0
	0	>	v	٨	>	0	0 > v ^	> 0
INITIAL VEAR 2025 VOLLIAGO			50	20			20 60	
INITIAL YEAR 2025 VOLUMES: 2025			390	460			INITIAL YEAR 2025 VOLUMES: 2025 740 560	
	390	<	ın =	1450	<	150	150 < IN = 1870	< 170
	130	>	OUT =	1430	>	70	350 > OUT = 1880	> 110
			510	780			1060 610	
BALANCED YEAR 2025 VOLUMES: 2025			390	470			BALANCED YEAR 2025 VOLUMES: 2025 740 560	
	400	<	v IN =	1450	<	150	٧ ^	< 170
	130	>	OUT =	1460	>	70	350 > OUT = 1880	> 110
			v 520	780			v ^ 1060 610	

# US-395 (NS) / Rancho Road (EW) - #3 FUTURE DIRECTIONAL TURN VOLUMES FROM FUTURE DIRECTIONAL LINK VOLUMES NCHRP 255

			YEAR	2025 TRAFFIC C	CONDITIONS	(IN PCEs)			
	MORNII	NG PEAK HOUR	NPUT DATA			EVENII	NG PEAK HOUF	R INPUT DATA	
	TURNING	BASE YEAR		YEAR 2025		TURNING	BASE YEAR		YEAR 2025
APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL	APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL
NORTH	LEFT	310	SOUTH LEG		NORTH	LEFT	94	SOUTH LEG	
BOUND	THRU	427	IN	780	BOUND	THRU	442	IN	610
	RIGHT	21	OUT	520		RIGHT	18	OUT	1,060
SOUTH	LEFT	6	NORTH LEG		SOUTH	LEFT	6	NORTH LEG	
BOUND	THRU	299	IN	390	BOUND	THRU	683	IN	740
	RIGHT	25	OUT	470		RIGHT	17	OUT	560
EAST	LEFT	7	WEST LEG		EAST	LEFT	26	WEST LEG	
BOUND	THRU	39	IN	130	BOUND	THRU	86	IN	350
	RIGHT	81	OUT	400		RIGHT	239	OUT	150
WEST	LEFT	78	EAST LEG		WEST	LEFT	114	EAST LEG	
BOUND	THRU	59	IN	150	BOUND	THRU	40	IN	170
	RIGHT	2	OUT	70		RIGHT	19	OUT	110

			YEAF	R 2025 TR	RAFFIC C	CONDITIONS	(IN PCEs)				
	MORN	IING PEAK HOU	R RESULTS				EVEN	IING PEAK HOU	R RESULTS		
	TURNING	BASE YEAR	YEAR 2025	PEAK -	DAILY		TURNING	BASE YEAR	YEAR 2025	PEAK	- DAILY
APPROACH	MOVEMENT	COUNT	FORECAST	RELATION	ONSHIP	APPROACH	MOVEMENT	COUNT	FORECAST	RELATI	ONSHIP
NORTH	LEFT	310	312	NORTI	H LEG	NORTH	LEFT	94	94	NORT	H LEG
BOUND	THRU	427	460	RATIO	2.5%	BOUND	THRU	442	507	RATIO	3.7%
	RIGHT	21	21	ADT	35,000		RIGHT	18	18	ADT	35,000
SOUTH	LEFT	6	7	SOUTI	H LEG	SOUTH	LEFT	6	6	SOUT	HLEG
BOUND	THRU	299	354	RATIO	3.8%	BOUND	THRU	683	716	RATIO	4.9%
	RIGHT	25	30	ADT	34,800		RIGHT	17	18	ADT	34,800
EAST	LEFT	7	8	EAST	LEG	EAST	LEFT	26	31	EAS	ΓLEG
BOUND	THRU	39	41	RATIO	4.0%	BOUND	THRU	86	86	RATIO	5.2%
	RIGHT	81	82	ADT	5,500		RIGHT	239	240	ADT	5,500
WEST	LEFT	78	84	WEST	LEG	WEST	LEFT	114	115	WES.	T LEG
BOUND	THRU	59	65	RATIO	8.4%	BOUND	THRU	40	40	RATIO	8.0%
	RIGHT	2	2	ADT	6,400		RIGHT	19	22	ADT	6,400

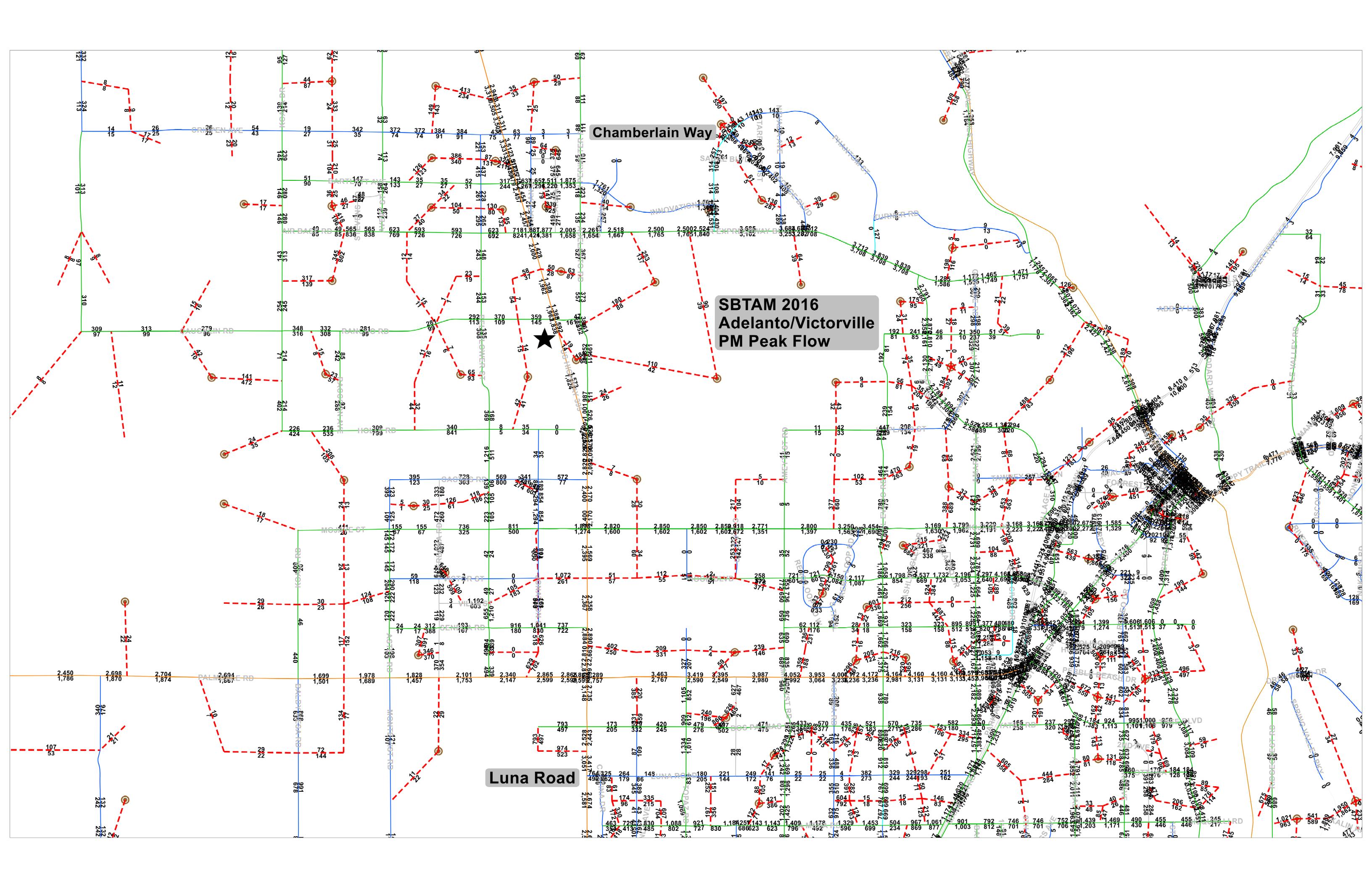
# US-395 (NS) / Rancho Road (EW) - #3 FUTURE DIRECTIONAL TURN VOLUMES FROM FUTURE DIRECTIONAL LINK VOLUMES NCHRP 255

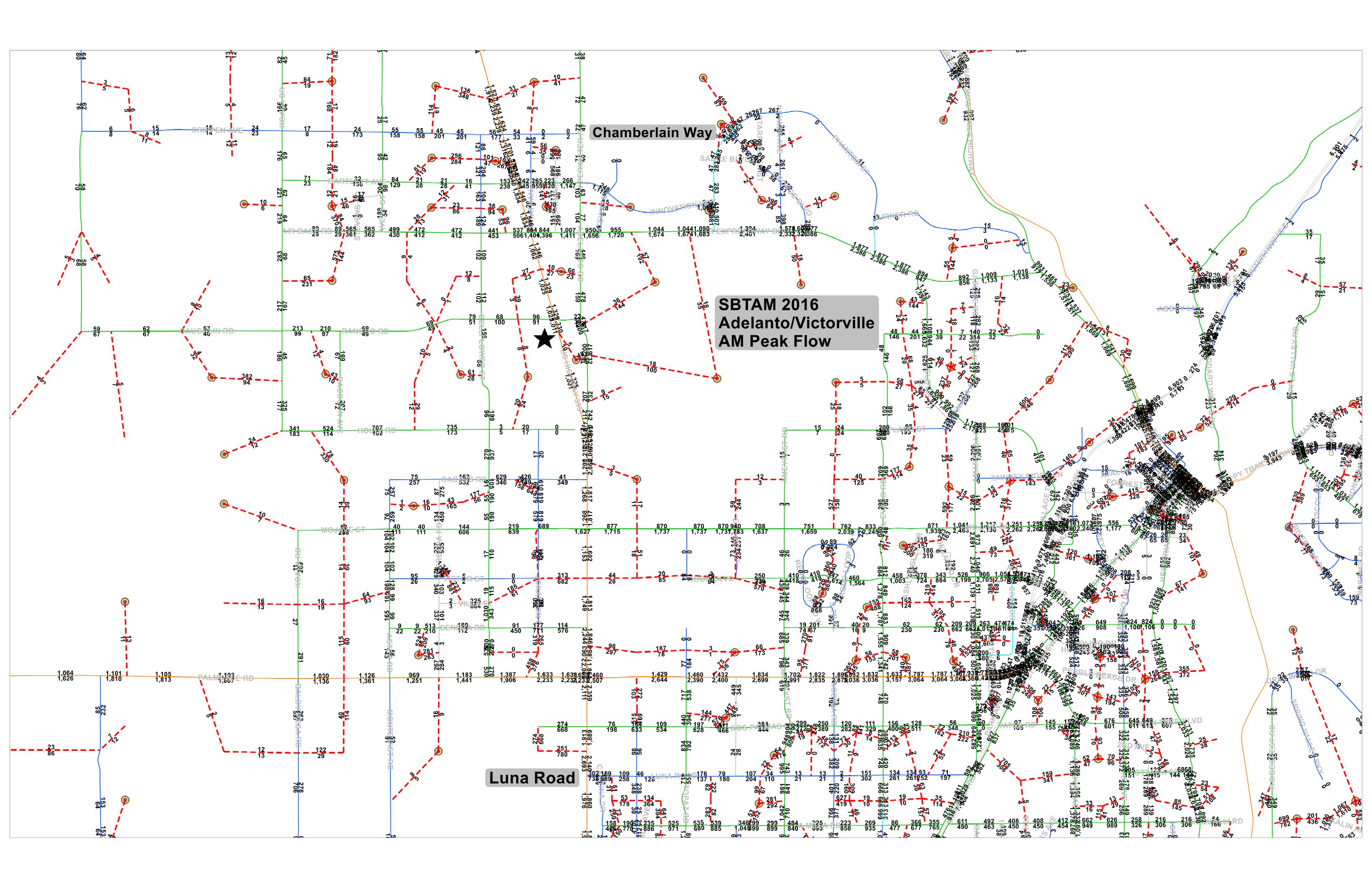
			YEAR	2045 TRAFFIC C	CONDITIONS	(IN PCEs)			
	MORNII	NG PEAK HOUR	INPUT DATA			EVENII	NG PEAK HOUF	R INPUT DATA	
	TURNING	BASE YEAR		YEAR 2045		TURNING	BASE YEAR		YEAR 2045
APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL	APPROACH	MOVEMENT	COUNT	APPROACH	TOTAL
NORTH	LEFT	310	SOUTH LEG		NORTH	LEFT	94	SOUTH LEG	
BOUND	THRU	427	IN	1,100	BOUND	THRU	442	IN	1,850
	RIGHT	21	OUT	1,510		RIGHT	18	OUT	1,500
SOUTH	LEFT	6	NORTH LEG		SOUTH	LEFT	6	NORTH LEG	
BOUND	THRU	299	IN	1,510	BOUND	THRU	683	IN	1,310
	RIGHT	25	OUT	960		RIGHT	17	OUT	1,970
EAST	LEFT	7	WEST LEG		EAST	LEFT	26	WEST LEG	
BOUND	THRU	39	IN	160	BOUND	THRU	86	IN	380
	RIGHT	81	OUT	420		RIGHT	239	OUT	170
WEST	LEFT	78	EAST LEG		WEST	LEFT	114	EAST LEG	
BOUND	THRU	59	IN	250	BOUND	THRU	40	IN	270
	RIGHT	2	OUT	140		RIGHT	19	OUT	180

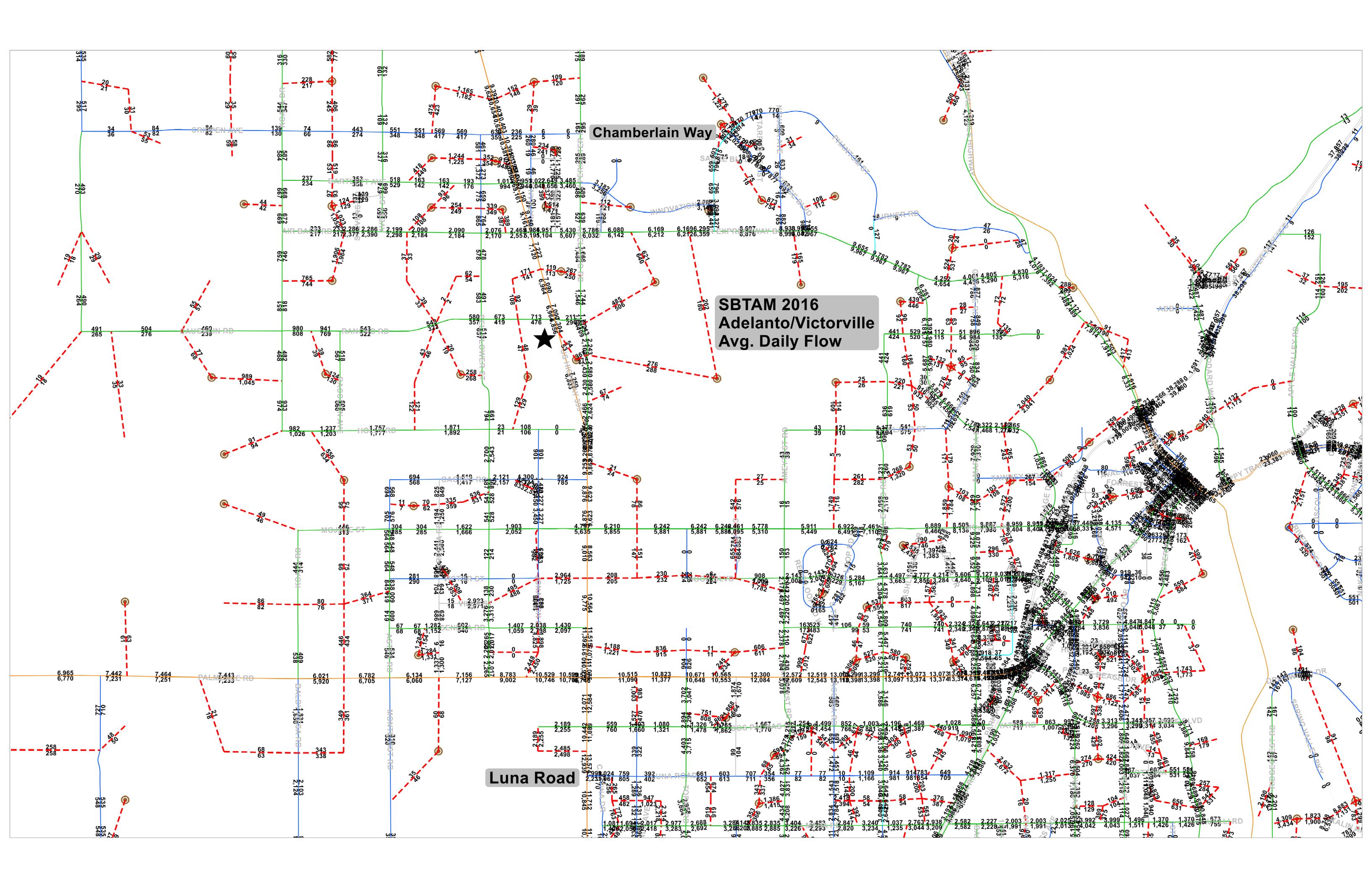
r											
			YEAF	R 2045 TF	RAFFIC C	CONDITIONS	(IN PCEs)				
	MORN	IING PEAK HOU	R RESULTS				EVEN	IING PEAK HOU	R RESULTS		
	TURNING	BASE YEAR	YEAR 2045	PEAK -	- DAILY		TURNING	BASE YEAR	YEAR 2045	PEAK	- DAILY
APPROACH	MOVEMENT	COUNT	FORECAST	RELATI	ONSHIP	APPROACH	MOVEMENT	COUNT	FORECAST	RELATI	ONSHIP
NORTH	LEFT	310	341	NORT	H LEG	NORTH	LEFT	94	103	NORT	HLEG
BOUND	THRU	427	925	RATIO	7.0%	BOUND	THRU	442	1,806	RATIO	9.2%
	RIGHT	21	24	ADT	35,000		RIGHT	18	36	ADT	35,000
SOUTH	LEFT	6	51	SOUT	H LEG	SOUTH	LEFT	6	21	SOUT	HLEG
BOUND	THRU	299	1,309	RATIO	8.1%	BOUND	THRU	683	1,193	RATIO	10.2%
	RIGHT	25	117	ADT	34,800		RIGHT	17	29	ADT	34,800
EAST	LEFT	7	22	EAST	LEG	EAST	LEFT	26	75	EAS	ΓLEG
BOUND	THRU	39	66	RATIO	7.1%	BOUND	THRU	86	123	RATIO	8.1%
	RIGHT	81	89	ADT	5,500		RIGHT	239	263	ADT	5,500
WEST	LEFT	78	130	WES	ΓLEG	WEST	LEFT	114	133	WES	T LEG
BOUND	THRU	59	106	RATIO	11.6%	BOUND	THRU	40	46	RATIO	10.0%
	RIGHT	2	12	ADT	6,400		RIGHT	19	88	ADT	6,400

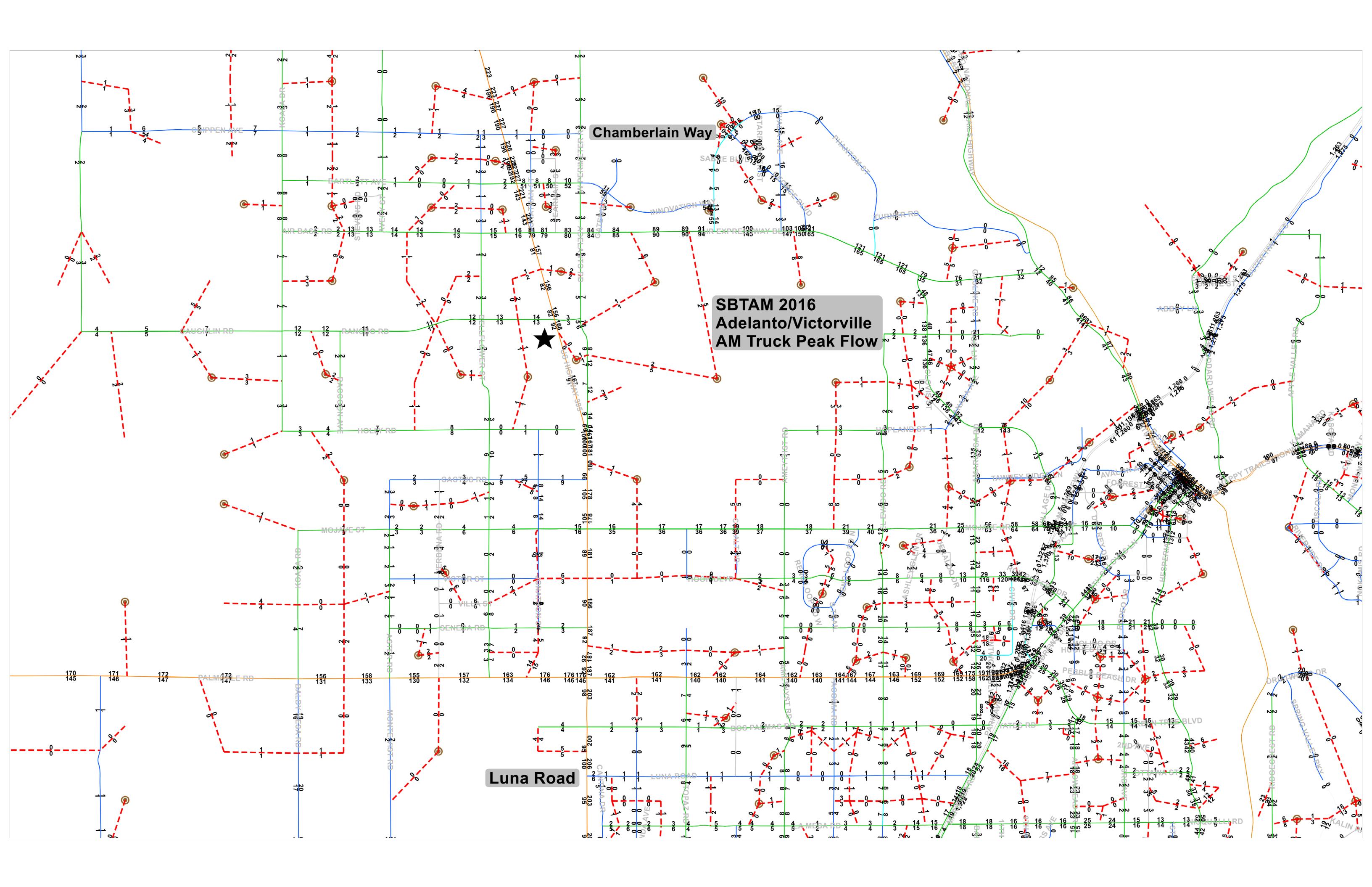
**APPENDIX D** 

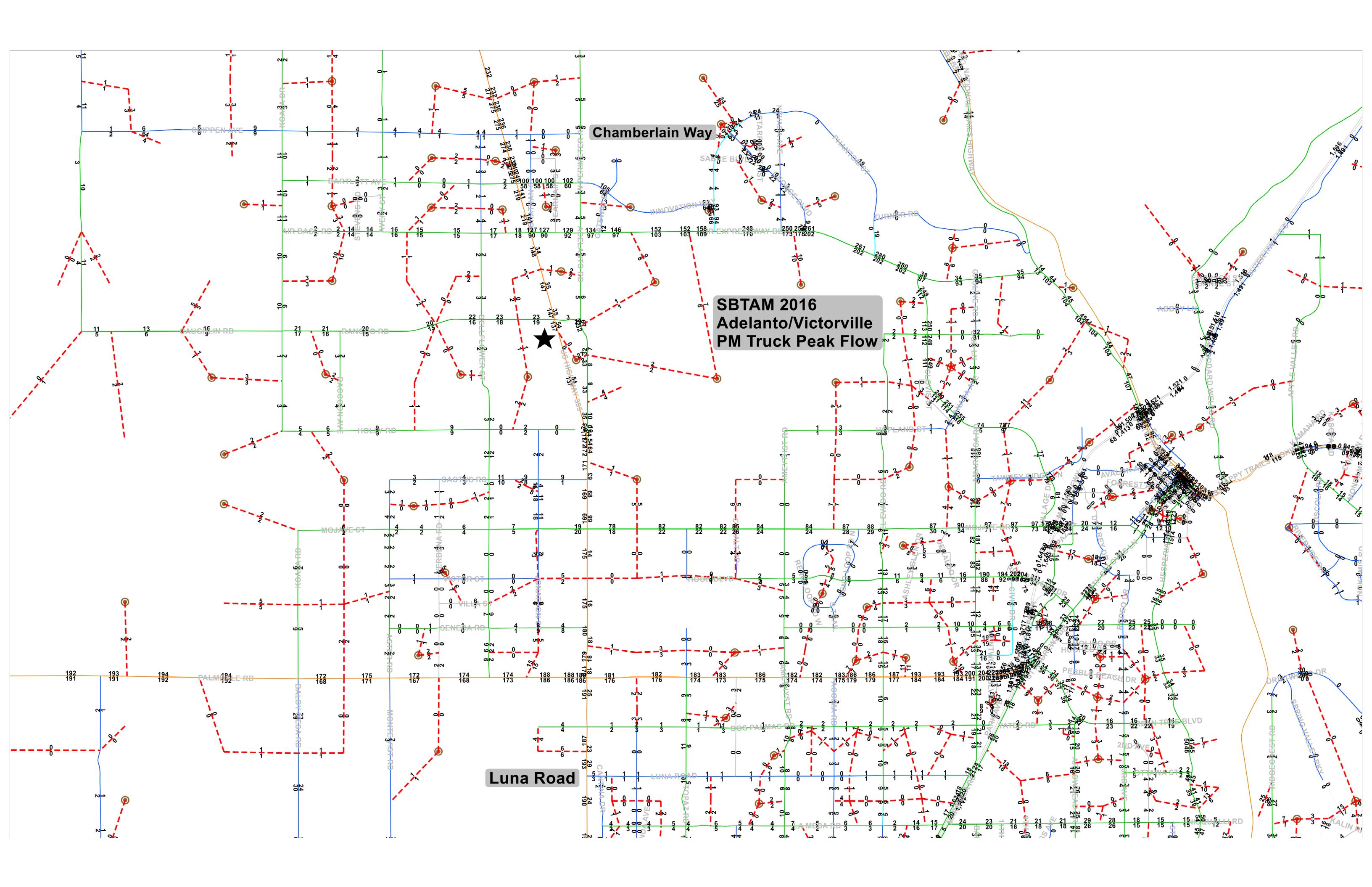
**Model Plots** 

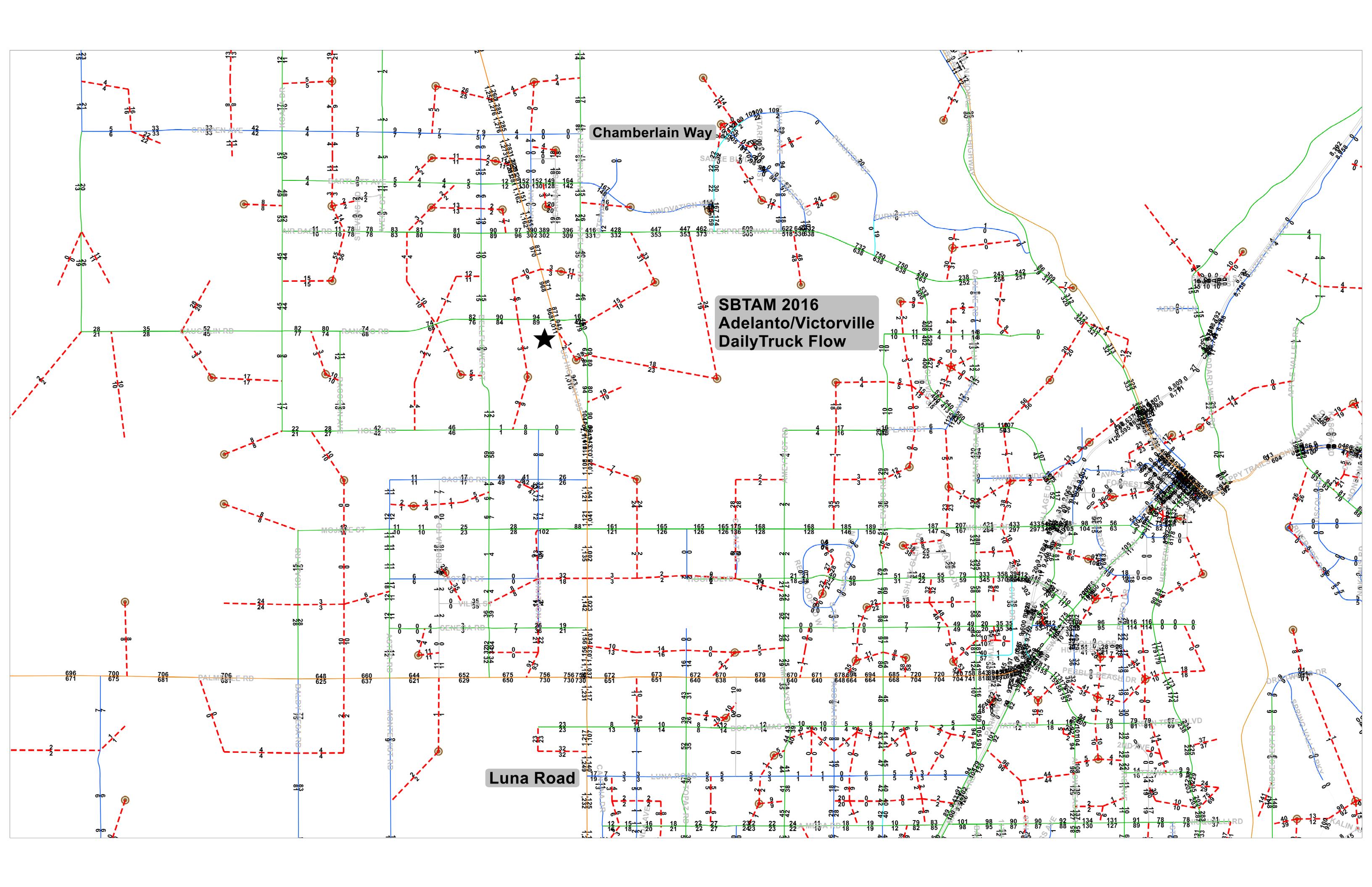


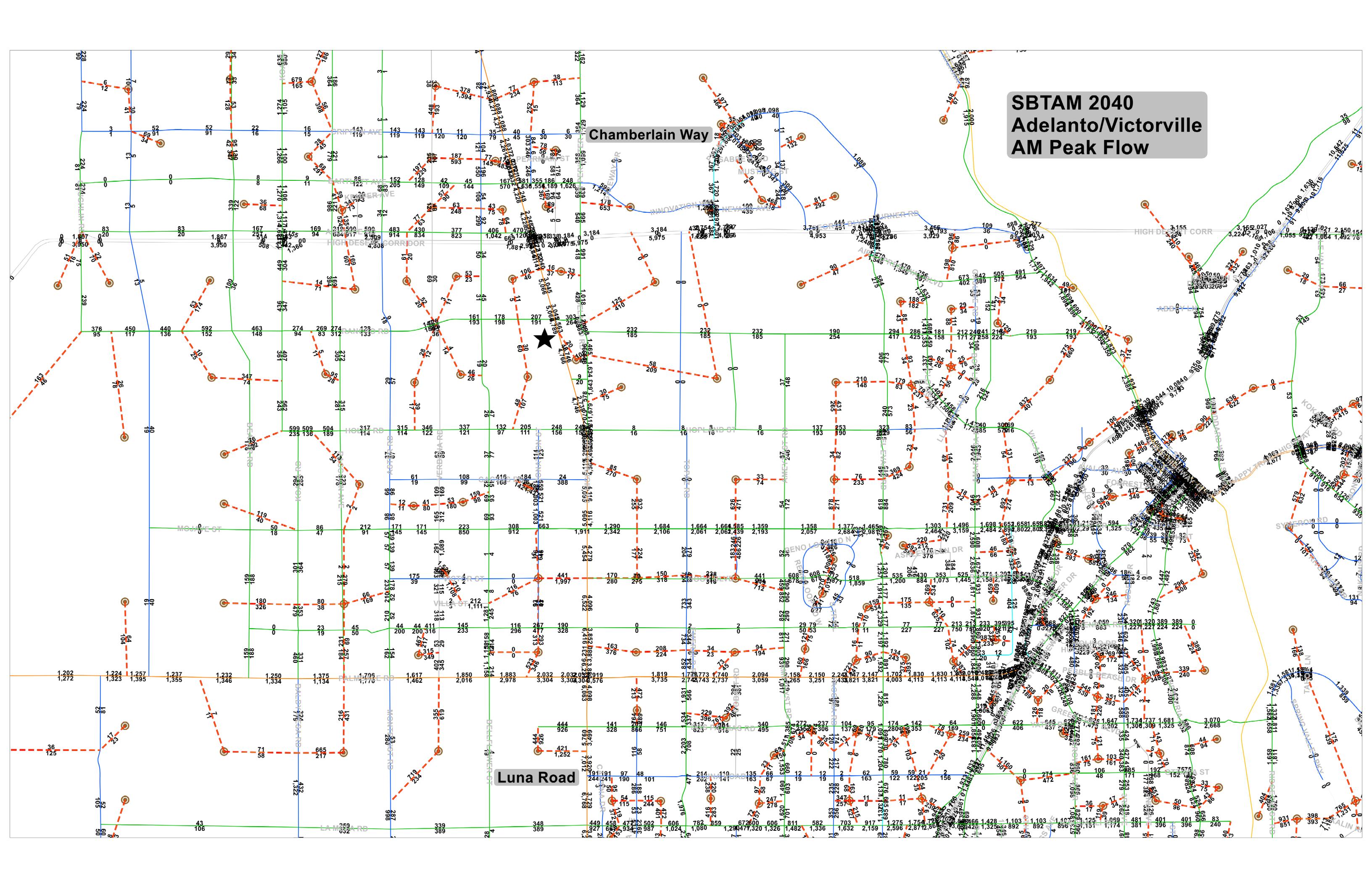


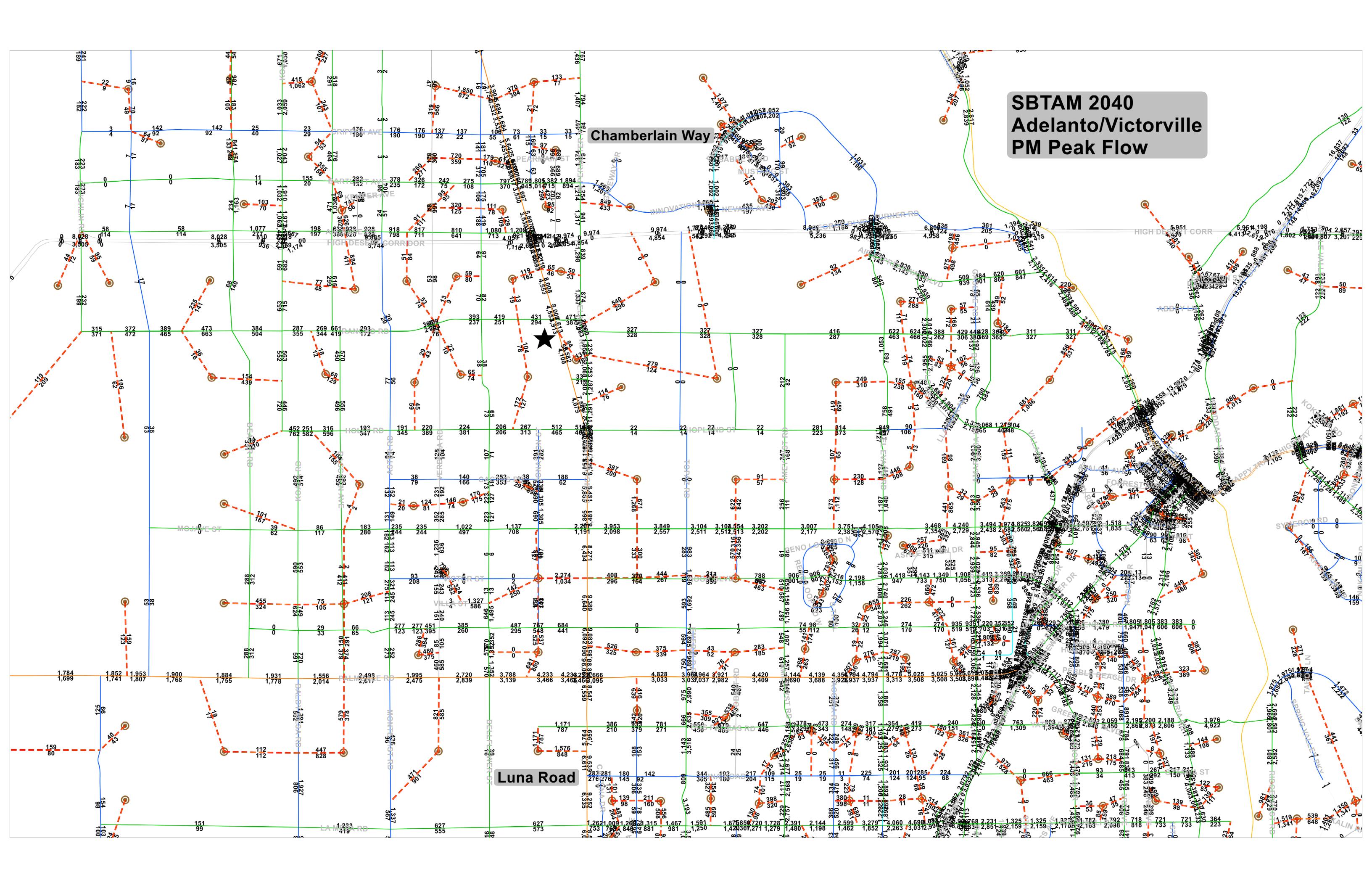


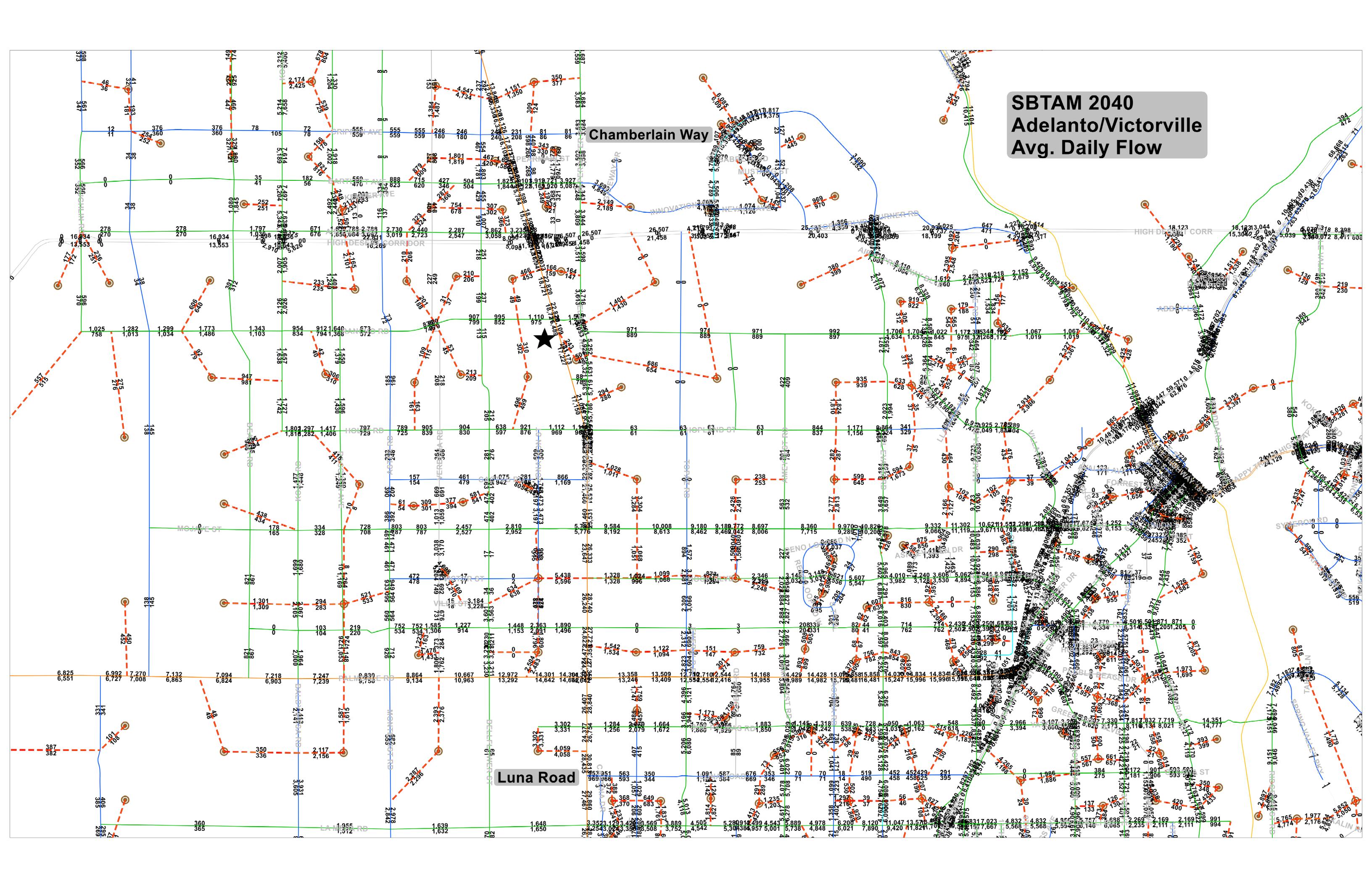


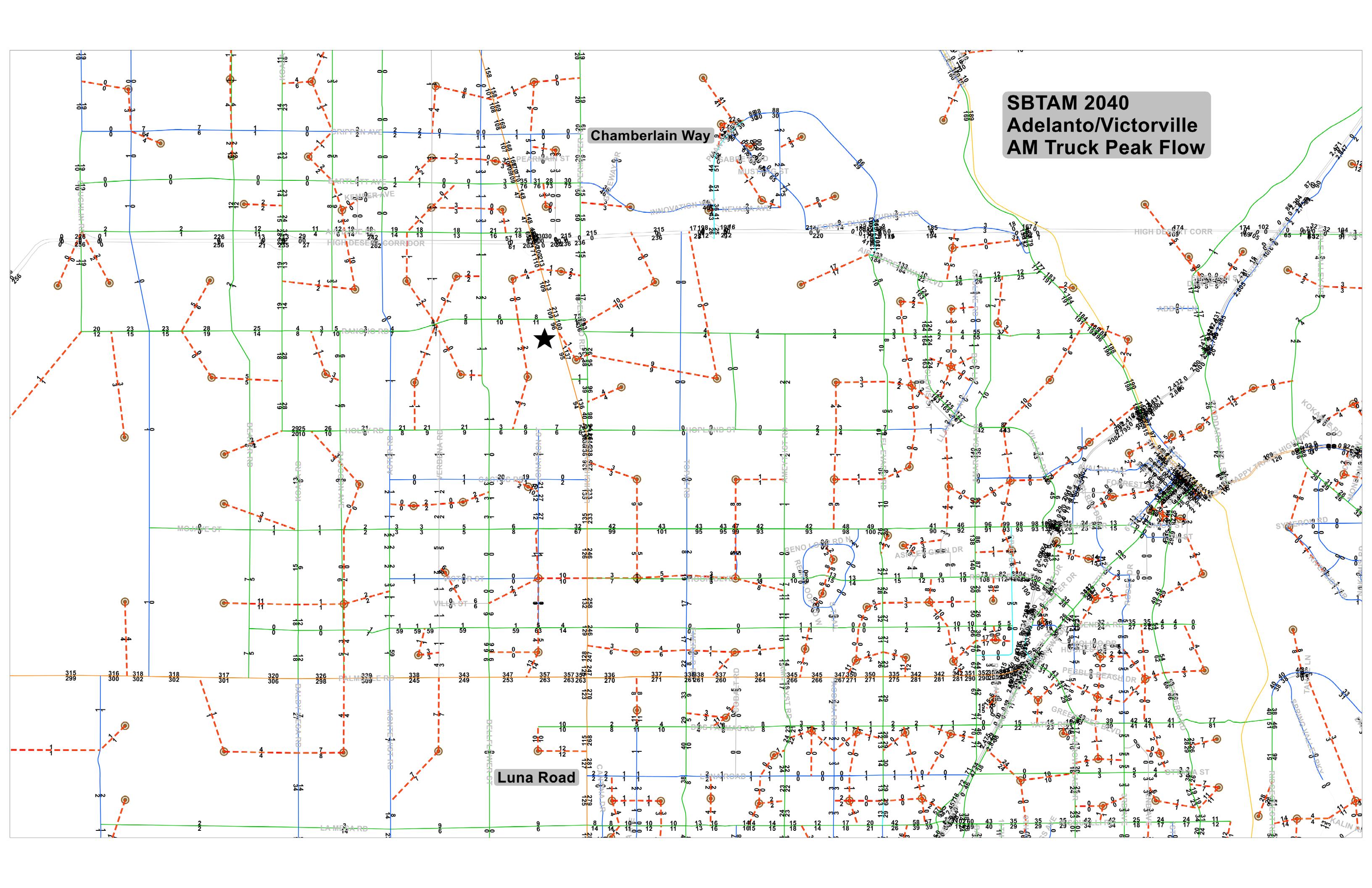


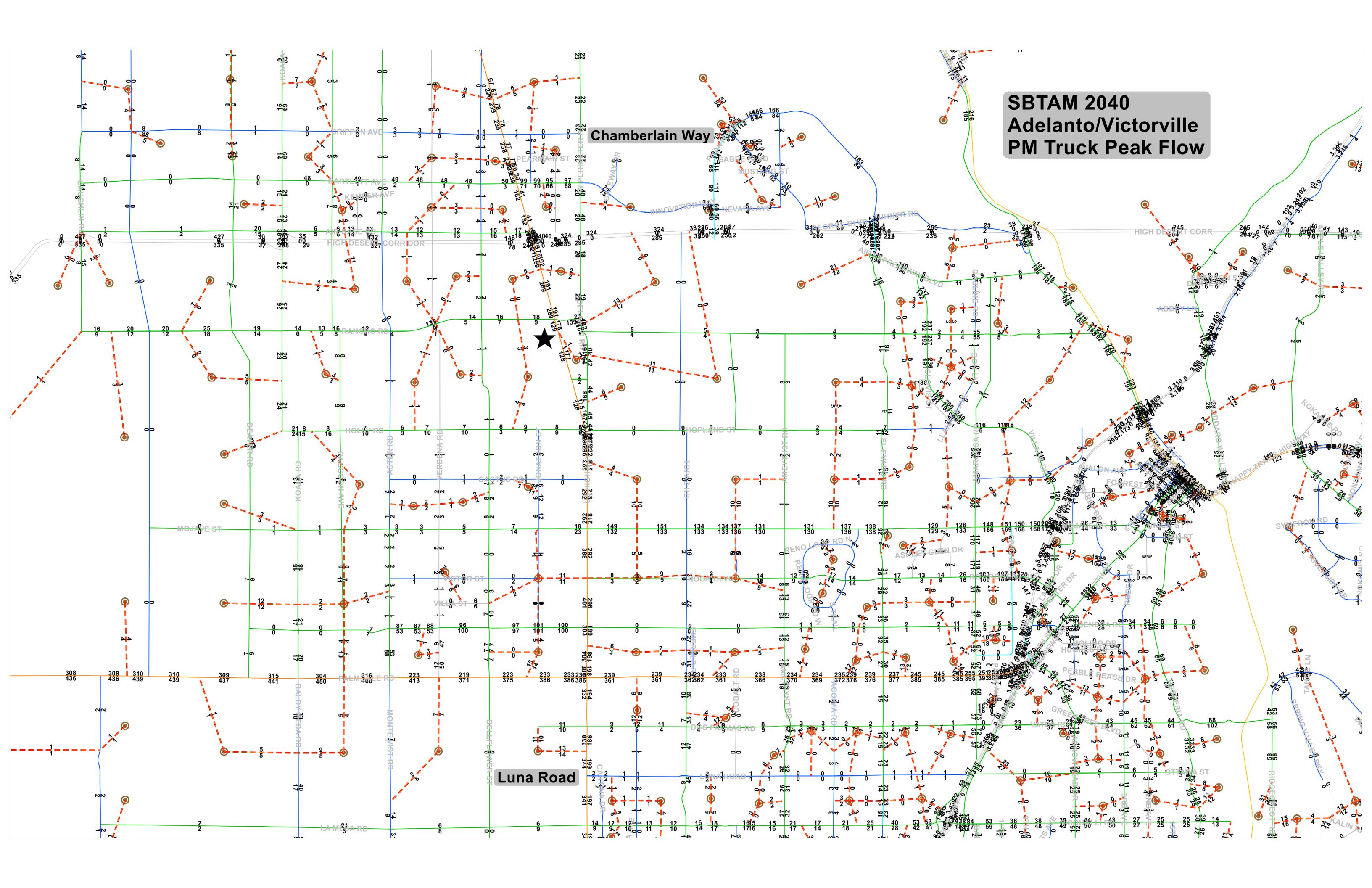


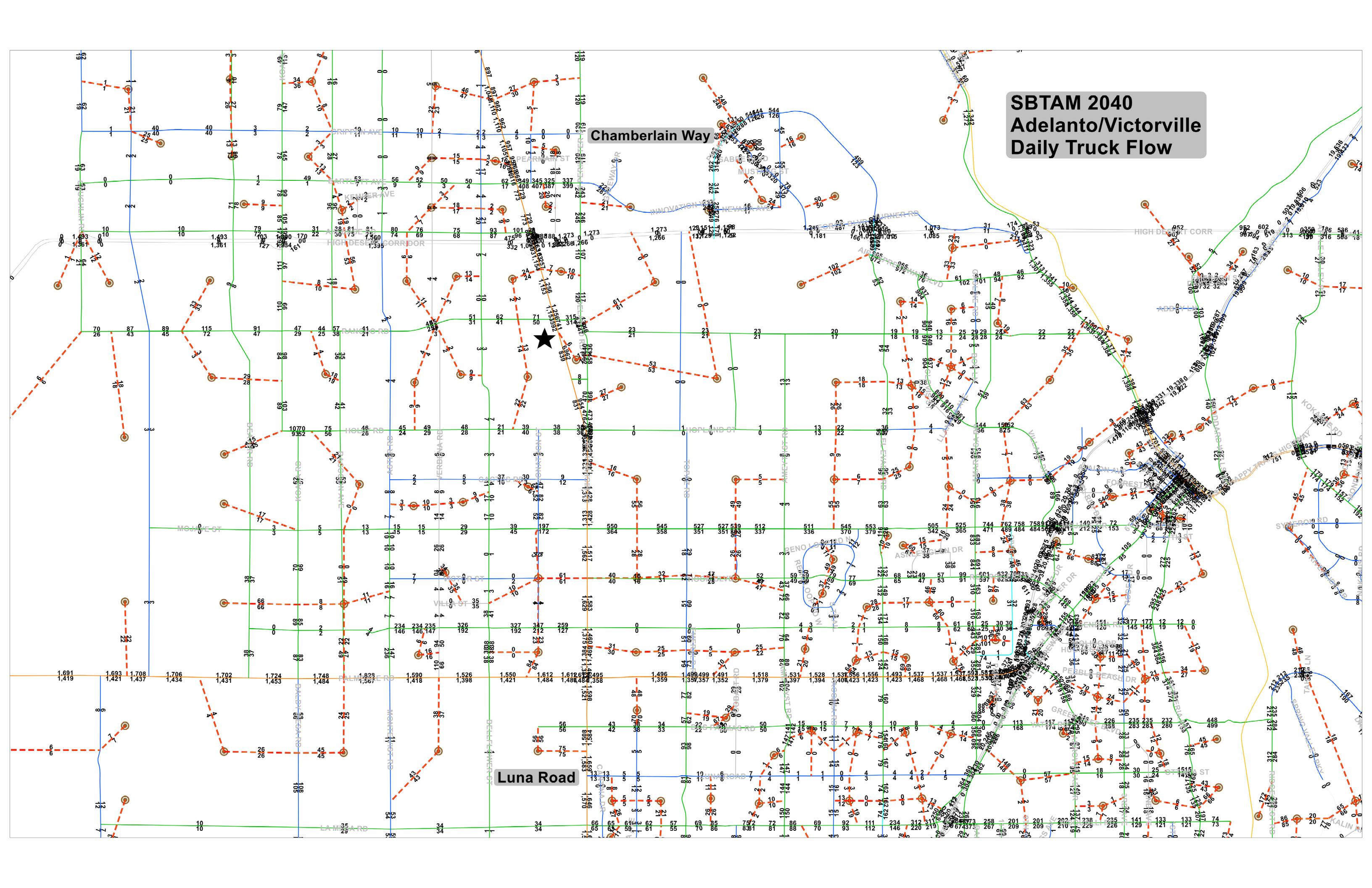












#### **APPENDIX E**

Explanation and Calculation of Intersection Delay

### EXPLANATION AND CALCULATION OF INTERSECTION LEVEL OF SERVICE USING DELAY METHODOLOGY

The levels of service at the unsignalized and signalized intersections are calculated using the delay methodology in the <u>Highway Capacity Manual</u>. This methodology views an intersection as consisting of several lane groups. A lane group is a set of lanes serving a movement. If there are two northbound left turn lanes, then the lane group serving the northbound left turn movement has two lanes. Similarly, there may be three lanes in the lane group serving the northbound through movement, one lane in the lane group serving the northbound right turn movement, and so forth. It is also possible for one lane to serve two lane groups. A shared lane might result in there being 1.5 lanes in the northbound left turn lane group and 2.5 lanes in the northbound through lane group.

For each lane group, there is a capacity. That capacity is calculated by multiplying the number of lanes in the lane group times a theoretical maximum lane capacity per lane time's 12 adjustment factors.

Each of the 12 adjustment factors has a value of approximately 1.00. A value less than 1.00 is generally assigned when a less than desirable condition occurs.

The 12 adjustment factors are as follows:

- 1. Peak hour factor (to account for peaking within the peak hour)
- 2. Lane utilization factor (to account for not all lanes loading equally)
- 3. Lane width
- 4. Percent of heavy trucks
- 5. Approach grade
- 6. Parking
- 7. Bus stops at intersections
- 8. Area type (CBD or other)
- 9. Right turns
- 10. Left turns
- 11. Pedestrian activity
- 12. Signal progression

The maximum theoretical lane capacity and the 12 adjustment factors for it are all unknowns for which approximate estimates have been recommended in the Highway Capacity Manual. For the most part, the recommended values are not based on statistical analysis but rather on educated estimates. However, it is

possible to use the delay method and get reasonable results as will be discussed below.

Once the lane group volume is known and the lane group capacity is known, a volume to capacity ratio can be calculated for the lane group.

With a volume to capacity ratio calculated, average delay per vehicle in a lane group can be estimated. The average delay per vehicle in a lane group is calculated using a complex formula provided by the Highway Capacity Manual, which can be simplified and described as follows:

Delay per vehicle in a lane group is a function of the following:

- 1. Cycle length
- 2. Amount of red time faced by a lane group
- 3. Amount of yellow time for that lane group
- 4. The volume to capacity ratio of the lane group

The average delay per vehicle for each lane group is calculated, and eventually an overall average delay for all vehicles entering the intersection is calculated. This average delay per vehicle is then used to judge Level of Service. The Level of Services are defined in the table that follows this discussion.

Experience has shown that when a maximum lane capacity of 1,900 vehicles per hour is used (as recommended in the Highway Capacity Manual), little or no yellow time penalty is used, and none of the 12 penalty factors are applied, calculated delay is realistic. The delay calculation for instance assumes that yellow time is totally unused. Yet experience shows that most of the yellow time is used.

An idiosyncrasy of the delay methodology is that it is possible to add traffic to an intersection and reduce the average total delay per vehicle. If the average total delay is 30 seconds per vehicle for all vehicles traveling through an intersection, and traffic is added to a movement that has an average total delay of 15 seconds per vehicle, then the overall average total delay is reduced.

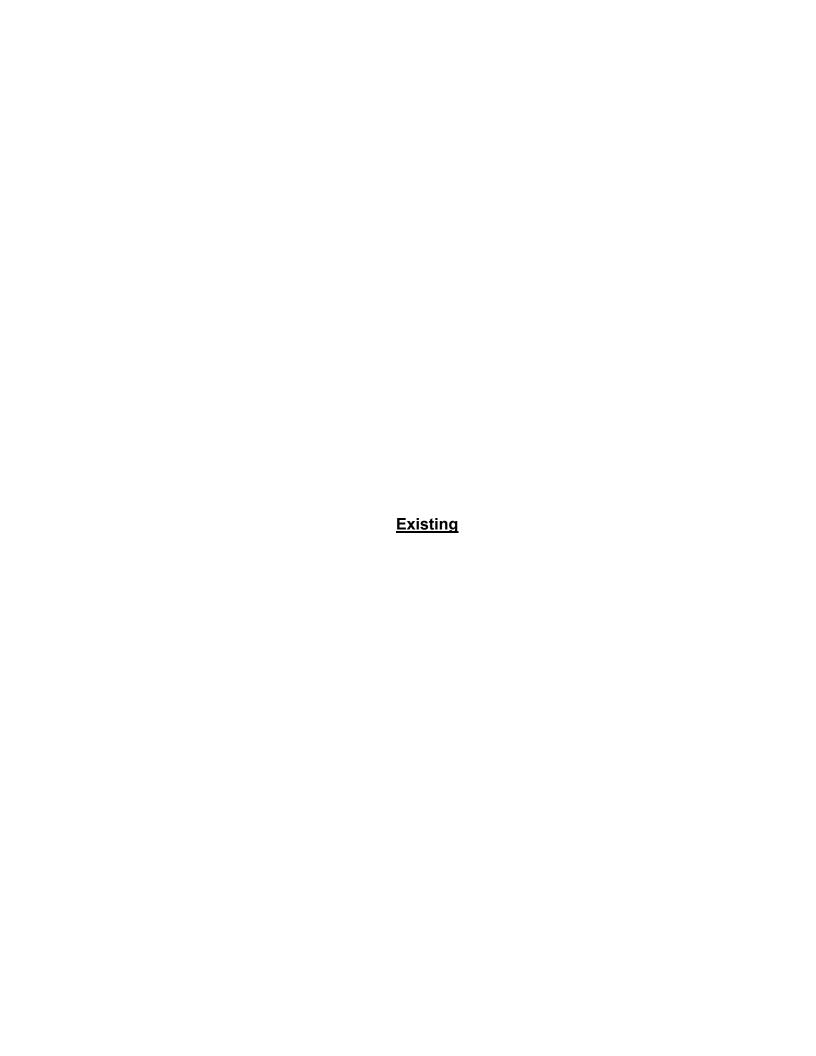
The delay calculation for a lane group is based on a concept that the delay is a function of the amount of unused capacity available. As the volume approaches capacity and there is no more unused capacity available, then the delay rapidly increases. Delay is not proportional to volume, but rather increases rapidly as the unused capacity approaches zero.

Because delay is not linearly related to volumes, the delay does not reflect how close an intersection is to overloading. If an intersection is operating at Level of Service C and has an average total delay of 18 seconds per vehicle, you know very little as to what percent the traffic can increase before Level of Service E is reached.

### LEVEL OF SERVICE DESCRIPTION<sup>1</sup>

Level			otal Delay
Of		Per Vehicle	(Seconds)
Service	Description	Signalized	Unsignalized
A	Level of Service A occurs when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.	0 to 10.00	0 to 10.00
В	Level of Service B generally occurs with good progression and/or short cycle lengths. More vehicles stop than for Level of Service A, causing higher levels of average total delay.	10.01 to 20.00	10.01 to 15.00
С	Level of Service C generally results when there is fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear in this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.	20.01 to 35.00	15.01 to 25.00
D	Level of Service D generally results in noticeable congestion. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume to capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.	35.01 to 55.00	25.01 to 35.00
E	Level of Service E is considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high volume to capacity ratios. Individual cycle failures are frequent occurrences.	55.01 to 80.00	35.01 to 50.00
F	Level of Service F is considered to be unacceptable to most drivers. This condition often occurs with oversaturation, i.e., when arrival flow rates exceed the capacity of the intersection. It may also occur at high volume to capacity ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.	80.01 and up	50.01 and up

<sup>&</sup>lt;sup>1</sup> Source: <u>Highway Capacity Manual</u> Special Report 209, Transportation Research Board, National Research Council, Washington, D.C., 2000.



The Cactus Avenue Cannabis Facility Scenario 1: 1 Existing

The Cactus Avenue Cannabis Facility

Vistro File: C:\...\AM.vistro Scenario 1 Existing Report File: C:\...\AME.pdf

7/17/2024

Morning Peak Hour

#### **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	WB Left	0.249	9.0	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	NB Left	0.309	10.5	В
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.359	14.7	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.



#### Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type: All-way stop Delay (sec / veh): 9.0

Analysis Method: HCM 2010 Level Of Service: A

Analysis Period: 15 minutes Volume to Capacity (v/c): 0.249

#### Intersection Setup

Name										10/ 4b d			
Approach	N	Northbound			Southboun	d		Eastbound	1	Westbound			
Lane Configuration		Пr			+			+		+			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	0	0	0	0	0	0	0	0	0	
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00		55.00			30.00			
Grade [%]		0.00			0.00			0.00			0.00		
Crosswalk		Yes			Yes			Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	0	10	33	54	22	0	0	0	0	134	0	52
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	10	33	54	22	0	0	0	0	134	0	52
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	3	8	14	6	0	0	0	0	34	0	13
Total Analysis Volume [veh/h]	0	10	33	54	22	0	0	0	0	134	0	52
Pedestrian Volume [ped/h]		0			0			0			0	



VEISION 0.00-03			OCEI	iano i. i Existing		Worling Feat Flour
Intersection Settings						
Lanes						
Capacity per Entry Lane [veh/h]	706	706	819	690	720	748
Degree of Utilization, x	0.00	0.01	0.04	0.11	0.00	0.25
Movement, Approach, & Intersection Re	sults					
95th-Percentile Queue Length [veh]	0.00	0.04	0.13	0.37	0.00	0.98
95th-Percentile Queue Length [ft]	0.00	1.08	3.15	9.23	0.00	24.49
Approach Delay [s/veh]		7.42		8.86	0.00	9.40
Approach LOS		Α		A	А	А
Intersection Delay [s/veh]				2.8	99	
Intersection LOS				A	1	



### Intersection Level Of Service Report

#### Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):10.5Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.309

#### Intersection Setup

Name												
Approach	١	Northbound			outhboun	d	E	Eastbound	d	Westbound		
Lane Configuration		٩r			46		•	1  r		طاه		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00		55.00			55.00		
Grade [%]		0.00		0.00		0.00			0.00			
Crosswalk		Yes		Yes		Yes			No			

#### Volumes

Name												
Base Volume Input [veh/h]	89	48	19	16	59	58	7	105	25	10	374	4
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	89	48	19	16	59	58	7	105	25	10	374	4
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	22	12	5	4	15	15	2	26	6	3	94	1
Total Analysis Volume [veh/h]	89	48	19	16	59	58	7	105	25	10	374	4
Pedestrian Volume [ped/h]		0			0			0			0	

#### Intersection Settings

La	nes

Capacity per Entry Lane [veh/h]	558	659	568	648	528	569	569	640	563	611	613
Degree of Utilization, x	0.25	0.03	0.13	0.09	0.01	0.09	0.09	0.04	0.02	0.31	0.31

#### Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.96	0.09	0.45	0.29	0.04	0.30	0.30	0.12	0.05	1.31	1.31	
95th-Percentile Queue Length [ft]	23.98	2.22	11.33	7.35	1.01	7.59	7.59	3.05	1.36	32.76	32.64	
Approach Delay [s/veh]	10.89		9.4		9.4	46		11.14				
Approach LOS	Е	3	А			P	4		В			
Intersection Delay [s/veh]				10	.54							
Intersection LOS		В										



### Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type: Signalized Delay (sec / veh): 14.7

Analysis Method: HCM 2010 Level Of Service: B

Analysis Period: 15 minutes Volume to Capacity (v/c): 0.359

#### Intersection Setup

Name													
Approach	١	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration	чiн			пIF			•	1  r		٦IF			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0	
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00		50.00			30.00			55.00			
Grade [%]	0.00			0.00			0.00			0.00			
Crosswalk		Yes		Yes				Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	310	427	21	6	299	25	7	39	81	78	59	2
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	310	427	21	6	299	25	7	39	81	78	59	2
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	78	107	5	2	75	6	2	10	20	20	15	1
Total Analysis Volume [veh/h]	310	427	21	6	299	25	7	39	81	78	59	2
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]		0		0				0		0		
Bicycle Volume [bicycles/h]		0			0			0		0		

#### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

#### Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss							
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	24	24	0	18	18	0	0	18	0	0	18	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
l2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No	İ		No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

#### **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

#### **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	13	43	43	0	31	31	7	7	7	7	7	7
g / C, Green / Cycle	0.22	0.72	0.72	0.01	0.51	0.51	0.12	0.12	0.12	0.12	0.12	0.12
(v / s)_i Volume / Saturation Flow Rate	0.18	0.13	0.13	0.00	0.09	0.09	0.01	0.01	0.05	0.06	0.02	0.02
s, saturation flow rate [veh/h]	1681	1765	1736	1681	1765	1718	1336	3360	1500	1363	1765	1744
c, Capacity [veh/h]	365	1269	1248	14	899	875	215	413	185	224	217	215
d1, Uniform Delay [s]	22.54	2.72	2.72	29.63	7.95	7.96	26.04	23.35	24.40	27.17	23.49	23.49
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	5.52	0.31	0.31	20.21	0.44	0.46	0.06	0.10	1.64	0.93	0.29	0.30
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

#### Lane Group Results

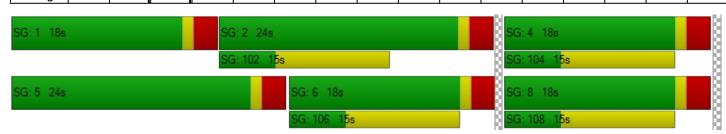
X, volume / capacity	0.85	0.18	0.18	0.44	0.18	0.18	0.03	0.09	0.44	0.35	0.14	0.14
d, Delay for Lane Group [s/veh]	28.06	3.03	3.03	49.84	8.39	8.42	26.11	23.45	26.04	28.09	23.78	23.79
Lane Group LOS	С	Α	Α	D	Α	Α	С	С	С	С	С	С
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	4.08	0.34	0.34	0.15	0.90	0.89	0.09	0.24	1.09	1.00	0.35	0.35
50th-Percentile Queue Length [ft/ln]	101.95	8.58	8.49	3.85	22.53	22.29	2.31	5.92	27.18	24.94	8.67	8.65
95th-Percentile Queue Length [veh/ln]	7.34	0.62	0.61	0.28	1.62	1.61	0.17	0.43	1.96	1.80	0.62	0.62
95th-Percentile Queue Length [ft/ln]	183.51	15.44	15.28	6.93	40.56	40.13	4.15	10.66	48.93	44.90	15.60	15.56

### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	28.06	3.03	3.03	49.84	8.41	8.42	26.11	23.45	26.04	28.09	23.78	23.79
Movement LOS	С	C A A		D	Α	Α	С	С	С	С	С	С
d_A, Approach Delay [s/veh]	13.27				9.16			25.24			26.20	
Approach LOS	В				Α			С			С	
d_I, Intersection Delay [s/veh]						14	.72					
Intersection LOS	В											
Intersection V/C						0.3	359					

### Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



The Cactus Avenue Cannabis Facility Scenario 1: 1 Existing

# The Cactus Avenue Cannabis Facility

Vistro File: C:\...\AM.vistro Report File: C:\...\AME.pdf Scenario 1 Existing 7/17/2024

Morning Peak Hour

# **Turning Movement Volume: Detail**

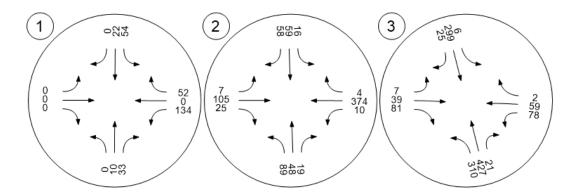
ID	ID Intersection	Valuma Tuna	N	orthbou	nd	Sc	outhbou	nd	Е	astbour	ıd	W	/estbour	nd	Total
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
Koala Road	Final Base	0	10	33	54	22	0	0	0	0	134	0	52	305	
	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	
	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0	
!	1 (211)	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	0	10	33	54	22	0	0	0	0	134	0	52	305

ID	Intersection	Volume Type	N	orthbou	nd	So	outhbou	nd	Е	astboun	nd	V	/estbour	nd	Total
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	89	48	19	16	59	58	7	105	25	10	374	4	814
Bellflower	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	=	
2	2 Street (NS) at Rancho Road (EW)	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
2		Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	89	48	19	16	59	58	7	105	25	10	374	4	814

ID	ID Intersection	Valuma Tuna	N	orthbour	nd	So	outhbou	nd	Е	astbour	ıd	V	/estbour	nd	Total
l ib	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	310	427	21	6	299	25	7	39	81	78	59	2	1354
	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	
2	Highway 395 3 (NS) at Rancho- Road (EW)	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3		Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
	Future Total	310	427	21	6	299	25	7	39	81	78	59	2	1354	

# Traffic Volume - Future Total Volume





The Cactus Avenue Cannabis Facility Scenario 1: 1 Existing

Evening Peak Hour

The Cactus Avenue Cannabis Facility

Vistro File: C:\...\PM.vistro Scenario 1 Existing Report File: C:\...\PME.pdf 7/17/2024

## **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	SB Left	0.182	8.2	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	EB Thru	0.243	9.7	Α
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.444	13.6	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.



### Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type: All-way stop Delay (sec / veh): 8.2

Analysis Method: HCM 2010 Level Of Service: A

Analysis Period: 15 minutes Volume to Capacity (v/c): 0.182

#### Intersection Setup

Name												
Approach	١	Northboun	d	S	outhboun	d	I	Eastbound	I	V	Vestbound	d
Lane Configuration		٦١٢			+			+			+	
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	50.00				50.00			55.00			30.00	
Grade [%]	0.00				0.00			0.00			0.00	
Crosswalk		Yes			Yes			Yes			Yes	

#### Volumes

Name												
Base Volume Input [veh/h]	0	20	159	87	6	1	0	0	0	34	1	44
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	20	159	87	6	1	0	0	0	34	1	44
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	5	40	22	2	0	0	0	0	9	0	11
Total Analysis Volume [veh/h]	0	20	159	87	6	1	0	0	0	34	1	44
Pedestrian Volume [ped/h]	0				0			0			0	



<u>version 6.00-03</u>	Oceriano I. I Existing									
Intersection Settings										
Lanes										
Capacity per Entry Lane [veh/h]	746	746	873	713	688	735				
Degree of Utilization, x	0.00	0.03	0.18	0.13	0.00	0.11				
Movement, Approach, & Intersection Re	sults									
95th-Percentile Queue Length [veh]	0.00	0.08	0.66	0.45	0.00	0.36				
95th-Percentile Queue Length [ft]	0.00	2.06	16.58	11.33	0.00	8.99				
Approach Delay [s/veh]	7.73 8.82 0.00 8.49									
Approach LOS		Α		А	A	A				
Intersection Delay [s/veh]				8	.19					
Intersection LOS	A									



# Intersection Level Of Service Report

## Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):9.7Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.243

#### Intersection Setup

Name												
Approach	١	lorthboun	d	S	Southboun	d	E	Eastbound	d	V	Vestbound	d
Lane Configuration		٩r			<b>4</b> r		•	1  ۲			٦l٢	
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00 12.00 12.00		12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0 0 1			0	1	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	50.00				50.00			55.00			55.00	
Grade [%]	0.00				0.00			0.00			0.00	
Crosswalk		Yes			Yes			Yes			No	

#### Volumes

Name												
Base Volume Input [veh/h]	19	64	31	10	98	15	19	309	167	40	79	29
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	19	64	31	10	98	15	19	309	167	40	79	29
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	16	8	3	25	4	5	77	42	10	20	7
Total Analysis Volume [veh/h]	19	64	31	10	98	15	19	309	167	40	79	29
Pedestrian Volume [ped/h]	0				0			0			0	

### Intersection Settings

Capacity per Entry Lane [veh/h]	581	663	591	669	584	636	636	726	539	581	619
Degree of Utilization, x	0.14	0.05	0.18	0.02	0.03	0.24	0.24	0.23	0.07	0.09	0.09

#### Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.50	0.15	0.66	0.07	0.10	0.95	0.95	0.89	0.24	0.31	0.29
95th-Percentile Queue Length [ft]	12.42	3.67	16.59	1.72	2.52	23.71	23.71	22.15	6.00	7.64	7.14
Approach Delay [s/veh]	9.5	52	9.9	91		9.7	78				
Approach LOS	P	١	A	١		P	4			Α	
Intersection Delay [s/veh]	9.71										
Intersection LOS				Ą							



# Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type: Signalized Delay (sec / veh): 13.6
Analysis Method: HCM 2010 Level Of Service: B
Analysis Period: 15 minutes Volume to Capacity (v/c): 0.444

#### Intersection Setup

Name													
Approach	١	Northboun	d	s	outhboun	d	E	Eastbound	d	V	Vestbound	d	
Lane Configuration		٦lb			٦lh		•	1  r		-1l-			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	1 0 0			1 0 0			1	0	0	
Pocket Length [ft]	340.00	100.00	100.00	290.00	290.00 100.00 100.00			100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00			30.00			55.00		
Grade [%]	0.00			0.00				0.00		0.00			
Crosswalk	Yes			Yes				Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	94	442	18	6	683	17	26	86	239	114	40	19
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	94	442	18	6	683	17	26	86	239	114	40	19
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	24	111	5	2	171	4	7	22	60	29	10	5
Total Analysis Volume [veh/h]	94	442	18	6	683	17	26	86	239	114	40	19
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]		0			0			0		0		
Bicycle Volume [bicycles/h]		0			0			0		0		

### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

#### Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss							
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	8	18	0	8	18	0	0	34	0	0	34	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

## **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

### **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	4	39	39	1	35	35	12	12	12	12	12	12
g / C, Green / Cycle	0.07	0.64	0.64	0.01	0.58	0.58	0.20	0.20	0.20	0.20	0.20	0.20
(v / s)_i Volume / Saturation Flow Rate	0.06	0.13	0.13	0.00	0.20	0.20	0.02	0.03	0.16	0.09	0.02	0.02
s, saturation flow rate [veh/h]	1681	1765	1741	1681	1765	1750	1338	3360	1500	1306	1765	1582
c, Capacity [veh/h]	121	1130	1114	17	1020	1011	330	673	300	317	353	317
d1, Uniform Delay [s]	27.43	4.48	4.48	29.59	6.69	6.69	21.77	19.74	22.88	23.73	19.57	19.59
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	10.07	0.41	0.42	12.44	0.92	0.93	0.10	0.08	4.78	0.69	0.10	0.12
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### Lane Group Results

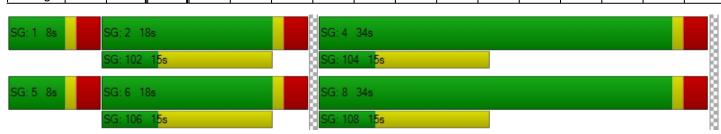
X, volume / capacity	0.78	0.20	0.21	0.36	0.34	0.34	0.08	0.13	0.80	0.36	0.08	0.09
d, Delay for Lane Group [s/veh]	37.49	4.89	4.90	42.03	7.61	7.62	21.87	19.82	27.66	24.42	19.67	19.72
Lane Group LOS	D	А	Α	D	Α	Α	С	В	С	С	В	В
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	No	No	No
50th-Percentile Queue Length [veh/ln]	1.50	0.71	0.70	0.13	1.68	1.67	0.31	0.47	3.38	1.33	0.30	0.29
50th-Percentile Queue Length [ft/ln]	37.62	17.76	17.61	3.37	41.90	41.63	7.65	11.75	84.43	33.22	7.39	7.16
95th-Percentile Queue Length [veh/ln]	2.71	1.28	1.27	0.24	3.02	3.00	0.55	0.85	6.08	2.39	0.53	0.52
95th-Percentile Queue Length [ft/ln]	67.72	31.97	31.71	6.06	75.42	74.94	13.77	21.16	151.97	59.80	13.29	12.88

### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	37.49	4.90	4.90	42.03	7.62	7.62	21.87	19.82	27.66	24.42	19.68	19.72
Movement LOS	D	Α	Α	D	Α	Α	С	В	С	С	В	В
d_A, Approach Delay [s/veh]		10.43			7.91			25.31			22.81	
Approach LOS	В				Α			С				
d_I, Intersection Delay [s/veh]						13	.56					
Intersection LOS							В					
Intersection V/C						0.4	144					

### Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



# The Cactus Avenue Cannabis Facility

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7/17/2024

# **Turning Movement Volume: Detail**

ID	Intersection	Volume Type	N	orthbou	orthbound		outhbou	nd	Е	astboun	ıd	Westbound			Total
l ib	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	0	20	159	87	6	1	0	0	0	34	1	44	352
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
1	Koala Road (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
'	Road (EW)	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	0	20	159	87	6	1	0	0	0	34	1	44	352

ID	Intersection	Volume Type	Northbound			Southbound			Eastbound			W	Total		
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	19	64	31	10	98	15	19	309	167	40	79	29	880
	Bellflower	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	Ū
2	Street (NS) at	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Rancho Road (EW)	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
(EVV)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Future Total	19	64	31	10	98	15	19	309	167	40	79	29	880

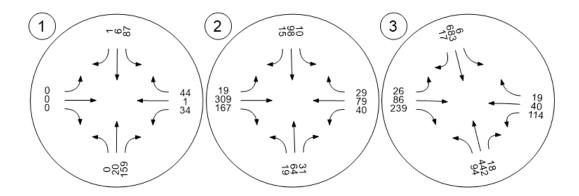
ID	Intersection	Valuma Tuna	Northbound			Southbound			Eastbound			V	/estbour	Total	
l ib	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	94	442	18	6	683	17	26	86	239	114	40	19	1784
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
3	Highway 395 (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Road (EW)	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	94	442	18	6	683	17	26	86	239	114	40	19	1784

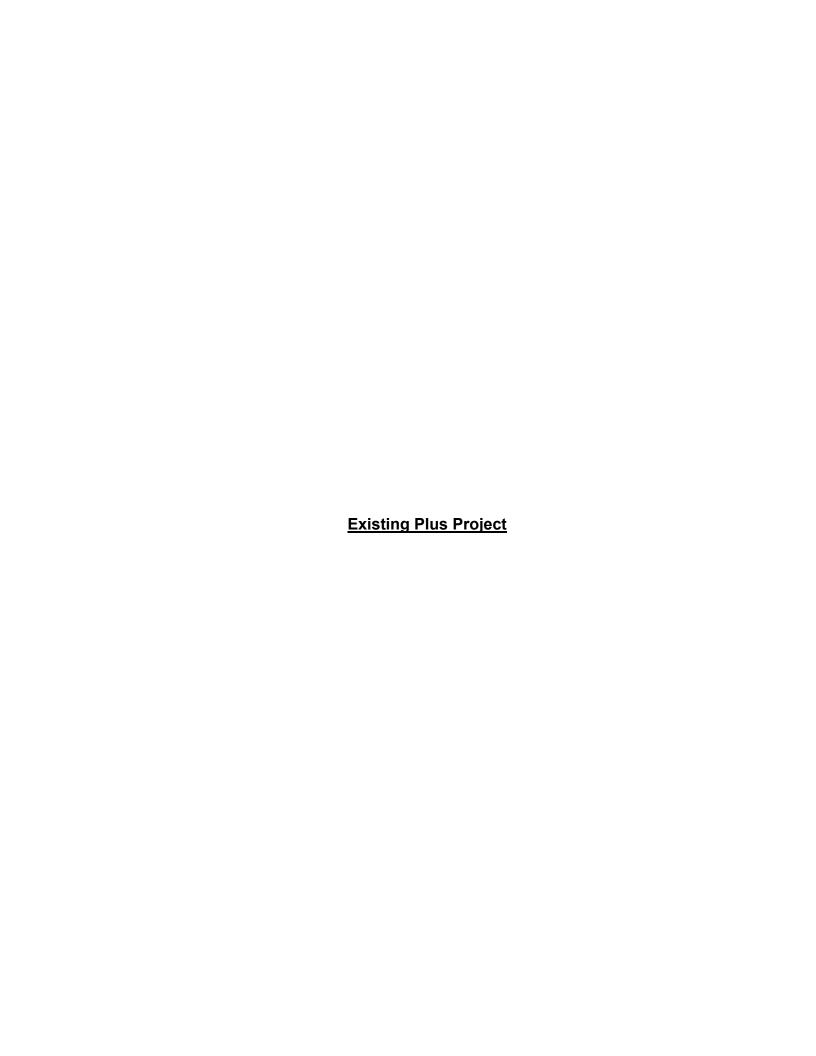
Version 6.00-03 Scenario 1: 1 Existing

Traffic Volume - Future Total Volume









The Cactus Avenue Cannabis Facility
Scenario 2: 2 Existing Plus Project

Morning Peak Hour

### The Cactus Avenue Cannabis Facility

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Scenario 2 Existing Plus Project

7/17/2024

### **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	WB Left	0.323	9.6	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	WB Thru	0.350	11.0	В
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.381	15.0	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Morning Peak Hour

### Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):9.6Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.323

#### Intersection Setup

Name												
Approach	١	Northboun	d	S	Southboun	d	I	Eastbound	t t	Westbound		
Lane Configuration		Пr			+			+		+		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00 12.00 12.00		12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			55.00		30.00		
Grade [%]	0.00			0.00				0.00		0.00		
Crosswalk		Yes			Yes			Yes		Yes		

#### Volumes

Name												
Base Volume Input [veh/h]	0	10	33	54	22	0	0	0	0	134	0	52
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	4	0	0	0	0	0	0	52	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	10	37	54	22	0	0	0	0	186	0	52
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	3	9	14	6	0	0	0	0	47	0	13
Total Analysis Volume [veh/h]	0	10	37	54	22	0	0	0	0	186	0	52
Pedestrian Volume [ped/h]		0			0	·		0			0	

Morning Peak Hour

Intersection	Settings
--------------	----------

Lanes						
Capacity per Entry Lane [veh/h]	685	685	791	670	710	738
Degree of Utilization, x	0.00	0.01	0.05	0.11	0.00	0.32
Movement, Approach, & Intersection Res	sults					
95th-Percentile Queue Length [veh]	0.00	0.04	0.15	0.38	0.00	1.40
95th-Percentile Queue Length [ft]	0.00	1.11	3.68	9.54	0.00	34.94
Approach Delay [s/veh]		7.59		9.06	0.00	10.19
Approach LOS		Α		A	А	В
Intersection Delay [s/veh]				9.6	61	
Intersection LOS				A	\ \	

#### Morning Peak Hour

#### Intersection Level Of Service Report Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):11.0Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.350

## Intersection Setup

Name													
Approach	١	lorthboun	d	s	Southbound			Eastbound	d	Westbound			
Lane Configuration		<b>4</b> r			46		•	1  r		HIF			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00 12.00 12.00 1		12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	0	0	1	0	0 0 1		1	0	0	1	0	0	
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00 100.00 100.00		100.00 100.00 1		100.00	100.00 100.00 1		100.00	
Speed [mph]		50.00			50.00			55.00		55.00			
Grade [%]		0.00			0.00			0.00			0.00		
Crosswalk		Yes			Yes			Yes		No			

#### Volumes

Name												
Base Volume Input [veh/h]	89	48	19	16	59	58	7	105	25	10	374	4
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	3	0	0	0	0	3	0	4	0	0	46	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	92	48	19	16	59	61	7	109	25	10	420	4
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	23	12	5	4	15	15	2	27	6	3	105	1
Total Analysis Volume [veh/h]	92	48	19	16	59	61	7	109	25	10	420	4
Pedestrian Volume [ped/h]		0			0			0			0	

Morning Peak Hour

### Intersection Settings

Lanes
-------

Capacity per Entry Lane [veh/h]	547	644	555	632	517	557	557	625	558	606	607
Degree of Utilization, x	0.26	0.03	0.13	0.10	0.01	0.10	0.10	0.04	0.02	0.35	0.35

#### Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.01	0.09	0.46	0.32	0.04	0.32	0.32	0.12	0.05	1.57	1.56
95th-Percentile Queue Length [ft]	25.32	2.28	11.61	7.98	1.03	8.09	8.09	3.12	1.37	39.15	39.03
Approach Delay [s/veh]	11.	17	9.6	36		9.0	35			11.74	
Approach LOS	E	3	P	А		P	١			В	
Intersection Delay [s/veh]				10	.97						
Intersection LOS	В										

Morning Peak Hour

# Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type: Signalized Delay (sec / veh): 15.0
Analysis Method: HCM 2010 Level Of Service: B
Analysis Period: 15 minutes Volume to Capacity (v/c): 0.381

#### Intersection Setup

Name												
Approach	١	lorthboun	d	s	outhboun	d	E	Eastbound	d	V	Vestbound	t t
Lane Configuration		<b>7  -</b>			٦١٢		•	1  r			٦lh	
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			30.00			55.00	
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

#### Volumes

Name												
Base Volume Input [veh/h]	310	427	21	6	299	25	7	39	81	78	59	2
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	23	0	0	0	0	20	2	0	2	0	3	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	333	427	21	6	299	45	9	39	83	78	62	2
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	83	107	5	2	75	11	2	10	21	20	16	1
Total Analysis Volume [veh/h]	333	427	21	6	299	45	9	39	83	78	62	2
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]	d/h] 0			0			0			0		
Bicycle Volume [bicycles/h]		0			0			0			0	

Morning Peak Hour

### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

### Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss							
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	24	22	0	20	18	0	0	18	0	0	18	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

## **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Morning Peak Hour

### **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	14	43	43	0	30	30	7	7	7	7	7	7
g / C, Green / Cycle	0.23	0.72	0.72	0.01	0.49	0.49	0.12	0.12	0.12	0.12	0.12	0.12
(v / s)_i Volume / Saturation Flow Rate	0.20	0.13	0.13	0.00	0.10	0.10	0.01	0.01	0.06	0.06	0.02	0.02
s, saturation flow rate [veh/h]	1681	1765	1736	1681	1765	1686	1332	3360	1500	1363	1765	1745
c, Capacity [veh/h]	388	1267	1246	14	874	835	214	416	186	225	218	216
d1, Uniform Delay [s]	22.13	2.73	2.73	29.63	8.48	8.50	26.09	23.31	24.39	27.13	23.47	23.47
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	5.55	0.31	0.31	20.21	0.51	0.55	0.08	0.10	1.68	0.92	0.31	0.31
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### Lane Group Results

X, volume / capacity	0.86	0.18	0.18	0.44	0.20	0.20	0.04	0.09	0.45	0.35	0.15	0.15
d, Delay for Lane Group [s/veh]	27.68	3.04	3.05	49.84	9.00	9.05	26.17	23.41	26.08	28.04	23.78	23.78
Lane Group LOS	С	Α	Α	D	Α	Α	С	С	С	С	С	С
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	4.35	0.35	0.34	0.15	1.02	1.00	0.12	0.24	1.12	1.00	0.36	0.36
50th-Percentile Queue Length [ft/ln]	108.69	8.66	8.57	3.85	25.52	25.04	2.97	5.91	27.89	24.91	9.09	9.07
95th-Percentile Queue Length [veh/ln]	7.77	0.62	0.62	0.28	1.84	1.80	0.21	0.43	2.01	1.79	0.65	0.65
95th-Percentile Queue Length [ft/ln]	194.18	15.59	15.42	6.93	45.94	45.07	5.35	10.65	50.19	44.84	16.36	16.33

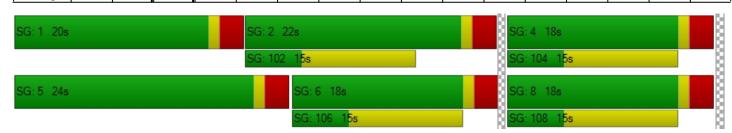
### Morning Peak Hour

### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	27.68	3.04	3.05	49.84	9.02	9.05	26.17	23.41	26.08	28.04	23.78	23.78
Movement LOS	С	Α	Α	D	Α	Α	С	С	С	С	С	С
d_A, Approach Delay [s/veh]	13.55				9.72			25.29			26.12	
Approach LOS	В				Α			С			С	
d_I, Intersection Delay [s/veh]						14	.96					
Intersection LOS						E	3					
Intersection V/C	0.381											

### Sequence

	Ring 1	1	2	4	-	-	-	-	-	-	-	-	ı	-	-	-	-
	Ring 2	5	6	8	-	-	-	-	-	-	-	-	ı	-	-	-	-
ſ	Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Τ	Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Morning Peak Hour

# The Cactus Avenue Cannabis Facility

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Scenario 2 Existing Plus Project 7/17/2024

# **Turning Movement Volume: Detail**

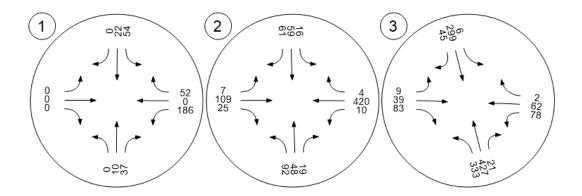
ID	Intersection	Volume Type	N	orthbou	nd	Sc	outhbou	nd	Е	astboun	ıd	W	/estbour	nd	Total
ID	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	0	10	33	54	22	0	0	0	0	134	0	52	305
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
1	Koala Road (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
'	Road (EW)	Net New Trips	0	0	4	0	0	0	0	0	0	52	0	0	56
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	0	10	37	54	22	0	0	0	0	186	0	52	361

ID	Intersection	Volume Type	N	orthbou	nd	So	outhbou	nd	Е	astboun	nd	W	/estbour	nd	Total
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	89	48	19	16	59	58	7	105	25	10	374	4	814
	Bellflower	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	=
2	Street (NS) at	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Rancho Road (EW)	Net New Trips	3	0	0	0	0	3	0	4	0	0	46	0	56
	(LVV)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	92	48	19	16	59	61	7	109	25	10	420	4	870

ID	Intersection	Valuma Tuna	N	orthbour	nd	So	outhbou	nd	Е	astbour	ıd	V	/estbour	nd	Total
l ib	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	310	427	21	6	299	25	7	39	81	78	59	2	1354
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
3	Highway 395 (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Road (EW)	Net New Trips	23	0	0	0	0	20	2	0	2	0	3	0	50
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	333	427	21	6	299	45	9	39	83	78	62	2	1404

Traffic Volume - Future Total Volume





The Cactus Avenue Cannabis Facility
Scenario 2: 2 Existing Plus Project

Evening Peak Hour

### The Cactus Avenue Cannabis Facility

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Scenario 2 Existing Plus Project

7/17/2024

### **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	SB Left	0.227	8.4	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	EB Thru	0.271	9.9	Α
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.461	13.9	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

### Evening Peak Hour

### Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):8.4Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.227

#### Intersection Setup

Name												
Approach	١	Northboun	d	S	Southbound			Eastbound	I	Westbound		
Lane Configuration		пİг			+			+		+		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			55.00		30.00		
Grade [%]		0.00		0.00				0.00		0.00		
Crosswalk		Yes			Yes			Yes		Yes		

#### Volumes

Name												
Base Volume Input [veh/h]	0	20	159	87	6	1	0	0	0	34	1	44
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	37	0	0	0	0	0	0	15	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	20	196	87	6	1	0	0	0	49	1	44
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	5	49	22	2	0	0	0	0	12	0	11
Total Analysis Volume [veh/h]	0	20	196	87	6	1	0	0	0	49	1	44
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Version 6.00-03 Scenario 2: 2 Existing Plus Project

Evening Peak Hour

Lanes						
Capacity per Entry Lane [veh/h]	738	738	862	702	674	713
Degree of Utilization, x	0.00	0.03	0.23	0.13	0.00	0.13

#### Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.00	0.08	0.87	0.46	0.00	0.45
95th-Percentile Queue Length [ft]	0.00	2.09	21.84	11.54	0.00	11.34
Approach Delay [s/veh]		8.06		8.92	0.00	8.82
Approach LOS		Α		A	А	А
Intersection Delay [s/veh]				8.4	44	
Intersection LOS				Į.	4	

### Evening Peak Hour

# Intersection Level Of Service Report

Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):9.9Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.271

## Intersection Setup

Name												
Approach	١	lorthboun	d	S	Southboun	d	E	Eastbound	d	V	Vestbound	d
Lane Configuration		٩r			٦r			1  ۲		٦l۴		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			55.00			55.00	
Grade [%]		0.00		0.00		0.00			0.00			
Crosswalk		Yes			Yes			Yes		No		

#### Volumes

Name												
Base Volume Input [veh/h]	19	64	31	10	98	15	19	309	167	40	79	29
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	1	0	0	0	0	1	2	33	2	0	13	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	20	64	31	10	98	16	21	342	169	40	92	29
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	16	8	3	25	4	5	86	42	10	23	7
Total Analysis Volume [veh/h]	20	64	31	10	98	16	21	342	169	40	92	29
Pedestrian Volume [ped/h]	0		0			0			0			

Scenario 2: 2 Existing Plus Project Evening Peak Hour

### Intersection Settings

	Lanes											
	Capacity per Entry Lane [veh/h]	573	654	584	659	580	630	630	719	533	575	607
I	Degree of Utilization, x	0.15	0.05	0.18	0.02	0.04	0.27	0.27	0.24	0.08	0.11	0.10
	Movement, Approach, & Intersection Res	ults										

Movement, Approach, & Intersection Res	uits										
95th-Percentile Queue Length [veh]	0.51	0.15	0.67	0.07	0.11	1.10	1.10	0.91	0.24	0.35	0.33
95th-Percentile Queue Length [ft]	12.78	3.73	16.83	1.86	2.81	27.39	27.39	22.75	6.07	8.77	8.26
Approach Delay [s/veh]	9.0	63	10.	01		10.	.06			9.62	
Approach LOS	A	4	E	3		E	3			Α	
Intersection Delay [s/veh]		9.92									
Intersection LOS					A						

Evening Peak Hour

# Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type:SignalizedDelay (sec / veh):13.9Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.461

#### Intersection Setup

Name												
Approach	١	Northboun	d	s	Southbound			Eastbound	d	Westbound		
Lane Configuration		пIF			٦١٢			1  r		пIF		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			30.00		55.00		
Grade [%]		0.00		0.00				0.00		0.00		
Crosswalk		Yes			Yes			Yes		Yes		

#### Volumes

Name												
Base Volume Input [veh/h]	94	442	18	6	683	17	26	86	239	114	40	19
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	6	0	0	0	0	6	15	2	16	0	1	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	100	442	18	6	683	23	41	88	255	114	41	19
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	111	5	2	171	6	10	22	64	29	10	5
Total Analysis Volume [veh/h]	100	442	18	6	683	23	41	88	255	114	41	19
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]	0		0				0		0			
Bicycle Volume [bicycles/h]	0		0			0			0			

Evening Peak Hour

### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

### Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	8	18	0	8	18	0	0	34	0	0	34	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

## **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Scenario 2: 2 Existing Plus Project Evening Peak Hour

### **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	5	38	38	1	34	34	13	13	13	13	13	13
g / C, Green / Cycle	0.08	0.63	0.63	0.01	0.56	0.56	0.21	0.21	0.21	0.21	0.21	0.21
(v / s)_i Volume / Saturation Flow Rate	0.06	0.13	0.13	0.00	0.20	0.20	0.03	0.03	0.17	0.09	0.02	0.02
s, saturation flow rate [veh/h]	1681	1765	1741	1681	1765	1745	1337	3360	1500	1304	1765	1584
c, Capacity [veh/h]	129	1109	1094	17	992	980	346	712	318	332	374	336
d1, Uniform Delay [s]	27.26	4.77	4.78	29.59	7.23	7.23	21.43	19.19	22.51	23.11	19.01	19.04
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.56	0.43	0.43	12.44	1.01	1.02	0.15	0.08	4.72	0.61	0.09	0.11
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### Lane Group Results

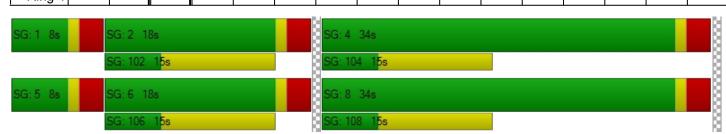
X, volume / capacity	0.78	0.21	0.21	0.36	0.36	0.36	0.12	0.12	0.80	0.34	0.08	0.09
d, Delay for Lane Group [s/veh]	36.82	5.20	5.21	42.03	8.23	8.25	21.58	19.26	27.23	23.72	19.11	19.15
Lane Group LOS	D	Α	Α	D	Α	Α	С	В	С	С	В	В
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	No	No	No
50th-Percentile Queue Length [veh/ln]	1.58	0.76	0.76	0.13	1.83	1.81	0.48	0.47	3.58	1.30	0.29	0.28
50th-Percentile Queue Length [ft/ln]	39.48	19.12	18.95	3.37	45.71	45.32	11.99	11.81	89.40	32.54	7.35	7.12
95th-Percentile Queue Length [veh/ln]	2.84	1.38	1.36	0.24	3.29	3.26	0.86	0.85	6.44	2.34	0.53	0.51
95th-Percentile Queue Length [ft/ln]	71.06	34.41	34.12	6.06	82.28	81.57	21.59	21.25	160.92	58.57	13.23	12.82

### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	36.82	5.21	5.21	42.03	8.24	8.25	21.58	19.26	27.23	23.72	19.12	19.15
Movement LOS	D	Α	Α	D	Α	Α	С	В	С	С	В	В
d_A, Approach Delay [s/veh]		10.85			8.53			24.80				
Approach LOS		B A C									С	
d_I, Intersection Delay [s/veh]		13.95										
Intersection LOS					E	3						
Intersection V/C		0.461										

### Sequence

	Ring 1	1	2	4	-	-	-	-	-	-	-	-	ı	-	-	1	-
	Ring 2	5	6	8	-	-	-	-	-	-	-	-	ı	-	-	1	-
ſ	Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Τ	Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_



Evening Peak Hour

# The Cactus Avenue Cannabis Facility

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Scenario 2 Existing Plus Project 7/17/2024

# **Turning Movement Volume: Detail**

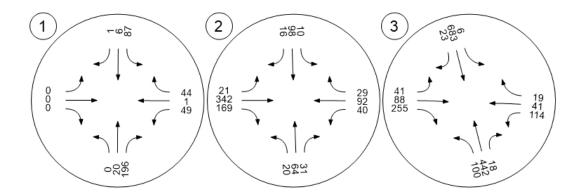
ID	Intersection	Valuma Tuna	Northbound			Southbound			Е	astbour	ıd	W	Total		
l ib	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	0	20	159	87	6	1	0	0	0	34	1	44	352
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
1	Koala Road (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
'	Road (EW)	Net New Trips	0	0	37	0	0	0	0	0	0	15	0	0	52
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	0	20	196	87	6	1	0	0	0	49	1	44	404

ID	Intersection	Volume Type	Northbound			Southbound			Е	astboun	nd	V	Total		
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	19	64	31	10	98	15	19	309	167	40	79	29	880
	Bellflower	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
2	Street (NS) at	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Rancho Road (EW)	Net New Trips	1	0	0	0	0	1	2	33	2	0	13	0	52
	(LVV)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	20	64	31	10	98	16	21	342	169	40	92	29	932

ID	Intersection	Volume Type	Northbound			Sc	Southbound			astboun	ıd	W	Total		
l ID	Name	volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	94	442	18	6	683	17	26	86	239	114	40	19	1784
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
3	Highway 395 (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Road (EW)	Net New Trips	6	0	0	0	0	6	15	2	16	0	1	0	46
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	100	442	18	6	683	23	41	88	255	114	41	19	1830

Traffic Volume - Future Total Volume







Scenario 3: 3 Opening Year (2025) Without Project

Morning Peak Hour

# The Cactus Avenue Cannabis Facility

Vistro File: C:\...\AM.vistro

Scenario 3 Opening Year (2025) Without Project

Report File: C:\...\AMOY.pdf

7/17/2024

# **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	WB Left	0.252	9.0	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	NB Left	0.316	10.6	В
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.384	14.5	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Morning Peak Hour

#### Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):9.0Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.252

# Intersection Setup

Name		Northbound								NA			
Approach	N	Northboun	d	8	Southbound			Eastbound	1	V	Westbound		
Lane Configuration		חוֹר			+			+		+			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	0 0 0		0 0 0		0	0	0	0		
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00			55.00		30.00			
Grade [%]		0.00			0.00			0.00		0.00			
Crosswalk		Yes			Yes			Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	0	12	37	54	24	0	0	0	0	136	0	52
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	12	37	54	24	0	0	0	0	136	0	52
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	3	9	14	6	0	0	0	0	34	0	13
Total Analysis Volume [veh/h]	0	12	37	54	24	0	0	0	0	136	0	52
Pedestrian Volume [ped/h]		0			0			0		0		



Morning Peak Hour

# Intersection Settings

Lanes									
Capacity per Entry Lane [veh/h]	704	704	817	689	717	745			
Degree of Utilization, x	0.00	0.02	0.05	0.11	0.00	0.25			
Movement, Approach, & Intersection Res	sults								
95th-Percentile Queue Length [veh]	0.00	0.05	0.14	0.38	0.00	1.00			
95th-Percentile Queue Length [ft]	0.00	1.30	3.55	9.52	0.00	24.97			
Approach Delay [s/veh]		7.46		8.89	0.00	9.46			
Approach LOS		Α		A	Α	A			
Intersection Delay [s/veh]		9.01							
Intersection LOS				Į.	4				

#### Morning Peak Hour

# Intersection Level Of Service Report

#### Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):10.6Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.316

# Intersection Setup

Name												
Approach	١	lorthboun	d	s	Southbound			Eastbound	t t	Westbound		
Lane Configuration		d Thui Dinh			46			1  r		ПÌ		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	2.00 12.00 12.00 1		12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0 0 1		1 0 0		0	1	0	0	
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			55.00		55.00		
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		Yes		Yes				Yes		No		

#### Volumes

Name												
Base Volume Input [veh/h]	95	48	19	16	59	60	7	107	26	10	376	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	95	48	19	16	59	60	7	107	26	10	376	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	24	12	5	4	15	15	2	27	7	3	94	2
Total Analysis Volume [veh/h]	95	48	19	16	59	60	7	107	26	10	376	7
Pedestrian Volume [ped/h]	0			0				0		0		



Morning Peak Hour

# Intersection Settings

Lanes											
Capacity per Entry Lane [veh/h]	555	657	565	643	524	565	565	635	559	607	610
Degree of Utilization, x	0.26	0.03	0.13	0.09	0.01	0.09	0.09	0.04	0.02	0.32	0.31
Movement, Approach, & Intersection Res	sults										
95th-Percentile Queue Length [veh]	1.02	0.09	0.46	0.31	0.04	0.31	0.31	0.13	0.05	1.35	1.34
95th-Percentile Queue Length [ft]	25.53	2.23	11.41	7.68	1.02	7.81	7.81	3.20	1.36	33.70	33.49
Approach Delay [s/veh]	11	.06	9.		9.	53					
Approach LOS	1	B A A B									
Intersection Delay [s/veh]			•	10	0.65						
Intersection LOS					В						

#### Morning Peak Hour

# Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type:SignalizedDelay (sec / veh):14.5Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.384

#### Intersection Setup

Name												
Approach	١	lorthboun	d	s	Southbound			Eastbound	d	Westbound		
Lane Configuration		רור			711			1  r		HIF		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			30.00		55.00		
Grade [%]	0.00				0.00			0.00		0.00		
Crosswalk		Yes			Yes			Yes		Yes		

#### Volumes

Name												
Base Volume Input [veh/h]	312	460	21	7	354	30	8	41	82	84	65	2
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	312	460	21	7	354	30	8	41	82	84	65	2
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	78	115	5	2	89	8	2	10	21	21	16	1
Total Analysis Volume [veh/h]	312	460	21	7	354	30	8	41	82	84	65	2
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]	0			0				0		0		
Bicycle Volume [bicycles/h]		0			0			0		0		

Morning Peak Hour

# Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

# Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	24	22	0	20	18	0	0	18	0	0	18	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
l2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

# **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Morning Peak Hour

# **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
I2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	13	43	43	1	30	30	8	8	8	8	8	8
g / C, Green / Cycle	0.22	0.71	0.71	0.01	0.50	0.50	0.13	0.13	0.13	0.13	0.13	0.13
(v / s)_i Volume / Saturation Flow Rate	0.19	0.14	0.14	0.00	0.11	0.11	0.01	0.01	0.05	0.06	0.02	0.02
s, saturation flow rate [veh/h]	1681	1765	1738	1681	1765	1717	1329	3360	1500	1360	1765	1746
c, Capacity [veh/h]	367	1254	1235	16	885	861	222	437	195	233	230	227
d1, Uniform Delay [s]	22.50	2.91	2.91	29.57	8.38	8.39	25.75	22.99	24.02	26.91	23.15	23.15
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	5.52	0.34	0.35	18.06	0.57	0.59	0.07	0.09	1.44	0.94	0.29	0.30
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

# Lane Group Results

X, volume / capacity	0.85	0.19	0.19	0.44	0.22	0.22	0.04	0.09	0.42	0.36	0.15	0.15
d, Delay for Lane Group [s/veh]	28.02	3.26	3.26	47.62	8.95	8.98	25.82	23.08	25.46	27.85	23.44	23.45
Lane Group LOS	С	Α	Α	D	Α	Α	С	С	С	С	С	С
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	4.10	0.41	0.41	0.17	1.13	1.11	0.10	0.25	1.08	1.07	0.38	0.38
50th-Percentile Queue Length [ft/ln]	102.54	10.34	10.23	4.22	28.15	27.79	2.62	6.16	27.11	26.71	9.41	9.39
95th-Percentile Queue Length [veh/ln]	7.38	0.74	0.74	0.30	2.03	2.00	0.19	0.44	1.95	1.92	0.68	0.68
95th-Percentile Queue Length [ft/ln]	184.57	18.60	18.41	7.60	50.67	50.02	4.71	11.09	48.79	48.08	16.94	16.90

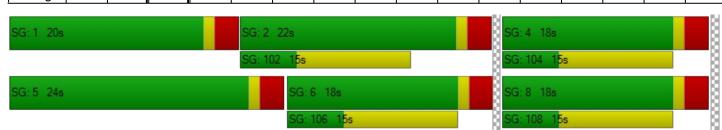
# Morning Peak Hour

# Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	28.02	3.26	3.26	47.62	8.96	8.98	25.82	23.08	25.46	27.85	23.44	23.45
Movement LOS	С	Α	Α	D	Α	Α	С	С	С	С	С	С
d_A, Approach Delay [s/veh]		13.00			9.66			24.74				
Approach LOS		В			Α			С				
d_I, Intersection Delay [s/veh]						14	.49					
Intersection LOS						E	3					
Intersection V/C	0.384											

# Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Morning Peak Hour

# The Cactus Avenue Cannabis Facility

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Report File: C:\...\AMOY.pdf

Scenario 3 Opening Year (2025) Without Project 7/17/2024

# **Turning Movement Volume: Detail**

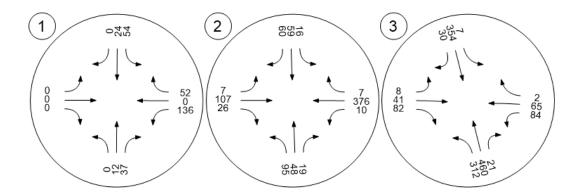
ID	Intersection	Volume Type	N	orthbou	nd	So	outhbou	nd	Е	astboun	id	V	/estbour	nd	Total
ID	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	0	12	37	54	24	0	0	0	0	136	0	52	315
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
1	Koala Road (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
'	Road (EW)	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Future Total	0	12	37	54	24	0	0	0	0	136	0	52	315

ID	Intersection	Volume Type	N	orthbou	nd	So	outhbou	nd	Е	astboun	nd	W	/estbour	nd	Total
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	95	48	19	16	59	60	7	107	26	10	376	7	830
	Bellflower	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	=
2	Street (NS) at	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Rancho Road	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
	(EW)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	95	48	19	16	59	60	7	107	26	10	376	7	830

ID	Intersection	Valuma Tuna	N	orthbour	nd	So	outhbou	nd	Е	astbour	ıd	V	/estbour	nd	Total
l ID	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	312	460	21	7	354	30	8	41	82	84	65	2	1466
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
3	Highway 395 (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Road (EW)	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
11000 (211)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Future Total	312	460	21	7	354	30	8	41	82	84	65	2	1466

Traffic Volume - Future Total Volume





Scenario 3: 3 Opening Year (2025) Without Project

Evening Peak Hour

# The Cactus Avenue Cannabis Facility

Vistro File: C:\...\PM.vistro

Scenario 3 Opening Year (2025) Without Project

Report File: C:\...\PMOY.pdf

7/17/2024

# **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	SB Left	0.185	8.3	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	EB Thru	0.245	9.7	Α
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.455	13.3	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

#### **Evening Peak Hour**

#### Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):8.3Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.185

# Intersection Setup

Name												
Approach	١	lorthboun	d	S	outhboun	d	ı	Eastbound	d	V	Vestbound	d
Lane Configuration		٦١٢			+			+			+	
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	1 0 0			0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	50.00				50.00			55.00			30.00	
Grade [%]	0.00				0.00			0.00			0.00	
Crosswalk		Yes			Yes			Yes			Yes	

#### Volumes

Name												
Base Volume Input [veh/h]	0	29	161	89	11	1	0	0	0	39	1	44
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	29	161	89	11	1	0	0	0	39	1	44
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	7	40	22	3	0	0	0	0	10	0	11
Total Analysis Volume [veh/h]	0	29	161	89	11	1	0	0	0	39	1	44
Pedestrian Volume [ped/h]		0			0			0			0	·



Intersection LOS

Scenario 3: 3 Opening Year (2025) Without Project

Evening Peak Hour

# Intersection Settings

Lanes						
Capacity per Entry Lane [veh/h]	743	742	868	710	681	725
Degree of Utilization, x	0.00	0.04	0.19	0.14	0.00	0.12
Movement, Approach, & Intersection Res	sults					
95th-Percentile Queue Length [veh]	0.00	0.12	0.68	0.49	0.00	0.39
95th-Percentile Queue Length [ft]	0.00	3.05	16.95	12.36	0.00	9.79
Approach Delay [s/veh]		7.78		8.91	0.00	8.62
Approach LOS		Α		A	А	А
Intersection Delay [s/veh]				8.:	27	

Α



**Evening Peak Hour** 

# Intersection Level Of Service Report

Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):9.7Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.245

#### Intersection Setup

Name												
Approach	١	lorthboun	d	S	Southboun	d	E	Eastbound	d	V	Vestbound	d
Lane Configuration		4			<b>4</b> r		•	1  ۲			٦l٢	
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0				0	1	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	50.00				50.00			55.00			55.00	
Grade [%]	0.00				0.00			0.00			0.00	
Crosswalk		Yes			Yes			Yes			No	

#### Volumes

Name												
Base Volume Input [veh/h]	19	64	31	10	98	15	19	311	171	42	79	29
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	19	64	31	10	98	15	19	311	171	42	79	29
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	16	8	3	25	4	5	78	43	11	20	7
Total Analysis Volume [veh/h]	19	64	31	10	98	15	19	311	171	42	79	29
Pedestrian Volume [ped/h]		0			0			0			0	



Evening Peak Hour

# Intersection Settings

Lanes	
-------	--

Capacity per Entry Lane [veh/h]	579	661	590	667	584	634	634	725	538	581	618
Degree of Utilization, x	0.14	0.05	0.18	0.02	0.03	0.24	0.24	0.24	0.08	0.09	0.09

#### Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.50	0.15	0.67	0.07	0.10	0.96	0.96	0.91	0.25	0.31	0.29
95th-Percentile Queue Length [ft]	12.45	3.68	16.63	1.72	2.52	23.94	23.94	22.87	6.33	7.66	7.16
Approach Delay [s/veh]	9.53		9.9	93		9.8	32			9.49	
Approach LOS	Α	1	P	A A			Α				
Intersection Delay [s/veh]				9.	74						
Intersection LOS				ı	A						

#### **Evening Peak Hour**

# Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type:SignalizedDelay (sec / veh):13.3Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.455

#### Intersection Setup

Name													
Approach	١	orthboun	d	s	outhboun	d	ı	Eastbound	d	Westbound			
Lane Configuration		<b>7  -</b>			<del>111</del>		•	1  r		711			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0	
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00			30.00		55.00			
Grade [%]	0.00			0.00				0.00		0.00			
Crosswalk	Yes			Yes				Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	94	507	18	6	716	18	31	86	240	115	40	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	94	507	18	6	716	18	31	86	240	115	40	22
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	24	127	5	2	179	5	8	22	60	29	10	6
Total Analysis Volume [veh/h]	94	507	18	6	716	18	31	86	240	115	40	22
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

# Evening Peak Hour

# Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

#### Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	8	18	0	8	18	0	0	34	0	0	34	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No	İ		No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

# **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Evening Peak Hour

# **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
I2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	4	38	38	1	35	35	12	12	12	12	12	12
g / C, Green / Cycle	0.07	0.64	0.64	0.01	0.58	0.58	0.20	0.20	0.20	0.20	0.20	0.20
(v / s)_i Volume / Saturation Flow Rate	0.06	0.15	0.15	0.00	0.21	0.21	0.02	0.03	0.16	0.09	0.02	0.02
s, saturation flow rate [veh/h]	1681	1765	1743	1681	1765	1750	1335	3360	1500	1306	1765	1565
c, Capacity [veh/h]	121	1128	1114	17	1018	1010	330	676	302	319	355	315
d1, Uniform Delay [s]	27.43	4.60	4.60	29.59	6.80	6.80	21.86	19.70	22.85	23.70	19.54	19.57
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	10.07	0.49	0.49	12.44	1.00	1.01	0.12	0.08	4.76	0.69	0.11	0.13
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

# Lane Group Results

X, volume / capacity	0.78	0.23	0.23	0.36	0.36	0.36	0.09	0.13	0.80	0.36	0.09	0.10
d, Delay for Lane Group [s/veh]	37.49	5.09	5.10	42.03	7.80	7.81	21.98	19.78	27.60	24.39	19.65	19.70
Lane Group LOS	D	А	Α	D	Α	Α	С	В	С	С	В	В
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	No	No	No
50th-Percentile Queue Length [veh/ln]	1.50	0.84	0.83	0.13	1.79	1.78	0.37	0.47	3.39	1.34	0.31	0.30
50th-Percentile Queue Length [ft/ln]	37.62	20.88	20.72	3.37	44.77	44.47	9.16	11.74	84.68	33.49	7.77	7.50
95th-Percentile Queue Length [veh/ln]	2.71	1.50	1.49	0.24	3.22	3.20	0.66	0.84	6.10	2.41	0.56	0.54
95th-Percentile Queue Length [ft/ln]	67.72	37.59	37.29	6.06	80.58	80.04	16.49	21.12	152.43	60.28	13.99	13.51

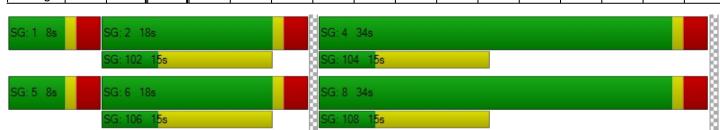
Evening Peak Hour

# Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	37.49	5.09	5.10	42.03	7.80	7.81	21.98	19.78	27.60	24.39	19.66	19.70
Movement LOS	D	Α	Α	D	Α	Α	С	В	С	С	В	В
d_A, Approach Delay [s/veh]		10.01			8.08			25.23				
Approach LOS	В				Α			С				
d_I, Intersection Delay [s/veh]						13	.32					
Intersection LOS						E	3					
Intersection V/C	0.455											

# Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Evening Peak Hour

# The Cactus Avenue Cannabis Facility

Vistro File: C:\...\PM.vistro

Scenario 3 Opening Year (2025) Without Project

Report File: C:\...\PMOY.pdf

7/17/2024

# **Turning Movement Volume: Detail**

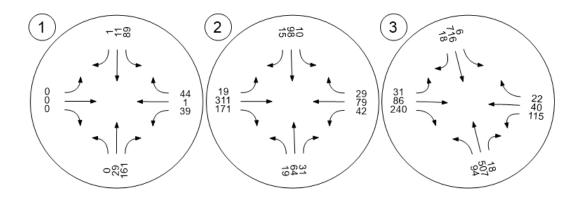
ID	Intersection	Valuma Tuna	N	orthbou	nd	Sc	outhbou	nd	Е	astbour	ıd	W	/estbour	nd	Total
l ID	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	0	29	161	89	11	1	0	0	0	39	1	44	375
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
1	Koala Road (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
!	Road (EW)	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	0	29	161	89	11	1	0	0	0	39	1	44	375

ID	Intersection	Volume Type	N	orthbour	nd	So	outhbou	nd	Е	astboun	nd	W	estbour/	nd	Total
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	19	64	31	10	98	15	19	311	171	42	79	29	888
	Bellflower	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	=
2	Street (NS) at	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Rancho Road	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
	(EW)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	19	64	31	10	98	15	19	311	171	42	79	29	888

ID	Intersection	Valuma Tuna	N	orthbou	nd	So	outhbou	nd	Е	astbour	ıd	V	/estbour	nd	Total
l ib	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	94	507	18	6	716	18	31	86	240	115	40	22	1893
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
3	Highway 395 (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Road (EW)	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	94	507	18	6	716	18	31	86	240	115	40	22	1893

Traffic Volume - Future Total Volume







Morning Peak Hour

# The Cactus Avenue Cannabis Facility

Vistro File: C:\...\AM.vistro

Scenario 4 Opening Year (2025) With Project

Report File: C:\...\AMOYp.pdf

7/17/2024

# **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	WB Left	0.327	9.6	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	WB Thru	0.357	11.1	В
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.406	14.8	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Scenario 4: 4 Opening Year (2025) With Project

Morning Peak Hour

# Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):9.6Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.327

# Intersection Setup

Name												
Approach	١	lorthboun	d	S	outhboun	d	ı	Eastbound	d	V	Vestbound	d
Lane Configuration		Thru Right			+			+			+	
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	1 0 0			0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	50.00				50.00			55.00			30.00	
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk		Yes			Yes			Yes			Yes	

#### Volumes

Name												
Base Volume Input [veh/h]	0	12	37	54	24	0	0	0	0	136	0	52
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	4	0	0	0	0	0	0	52	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	12	41	54	24	0	0	0	0	188	0	52
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	3	10	14	6	0	0	0	0	47	0	13
Total Analysis Volume [veh/h]	0	12	41	54	24	0	0	0	0	188	0	52
Pedestrian Volume [ped/h]		0			0			0			0	

Scenario 4: 4 Opening Year (2025) With Project

Morning Peak Hour

# Intersection Settings

Lanes											
Capacity per Entry Lane [veh/h]	684	684	789	669	707	735					
Degree of Utilization, x	0.00	0.02	0.05	0.12	0.00	0.33					
Movement, Approach, & Intersection Res	sults										
95th-Percentile Queue Length [veh]	0.00	0.05	0.16	0.39	0.00	1.42					
95th-Percentile Queue Length [ft]	0.00	1.34	4.10	9.85	0.00	35.57					
Approach Delay [s/veh]		7.64		9.09	0.00	10.26					
Approach LOS		Α		А	А	В					
Intersection Delay [s/veh]	9.64										
Intersection LOS				A	1						

Scenario 4: 4 Opening Year (2025) With Project

Morning Peak Hour

# Intersection Level Of Service Report

#### Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):11.1Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.357

#### Intersection Setup

Name												
Approach	١	lorthboun	d	S	Southboun	d	E	Eastbound	d	١	Vestbound	d
Lane Configuration		Left Thru Right			46		•	1  r			٦l٢	
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0 0 1			0	1	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			55.00			55.00	
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk		Yes			Yes			Yes			No	

#### Volumes

Name												
Base Volume Input [veh/h]	95	48	19	16	59	60	7	107	26	10	376	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	3	0	0	0	0	3	0	4	0	0	46	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	98	48	19	16	59	63	7	111	26	10	422	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	12	5	4	15	16	2	28	7	3	106	2
Total Analysis Volume [veh/h]	98	48	19	16	59	63	7	111	26	10	422	7
Pedestrian Volume [ped/h]		0			0			0			0	

Approach LOS

Intersection Delay [s/veh]

Intersection LOS

# The Cactus Avenue Cannabis Facility

Scenario 4: 4 Opening Year (2025) With Project

Morning Peak Hour

В

# Intersection Settings

Lanes											
Capacity per Entry Lane [veh/h]	544	641	552	627	514	554	554	620	554	601	604
Degree of Utilization, x	0.27	0.03	0.14	0.10	0.01	0.10	0.10	0.04	0.02	0.36	0.36
Movement, Approach, & Intersection Res	ults										
95th-Percentile Queue Length [veh]	1.08	0.09	0.47	0.33	0.04	0.33	0.33	0.13	0.06	1.61	1.60
95th-Percentile Queue Length [ft]	26.94	2.29	11.69	8.33	1.04	8.32	8.32	3.28	1.38	40.26	40.03
Approach Delay [s/veh]	11.	36	9.	71		9.	72			11.88	

Α

Α

11.09

В

В

Scenario 4: 4 Opening Year (2025) With Project

Morning Peak Hour

# Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type:SignalizedDelay (sec / veh):14.8Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.406

#### Intersection Setup

Name												
Approach	١	lorthboun	d	s	outhboun	d	E	Eastbound	d	V	Vestbound	d
Lane Configuration		Left Thru Right			٦lh		•	1  r			٦١٢	
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	1 0 0			0	0	1	0	0	1	0	0
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	50.00				50.00			30.00			55.00	
Grade [%]	0.00				0.00			0.00			0.00	
Crosswalk		Yes			Yes			Yes			Yes	

#### Volumes

Name												
Base Volume Input [veh/h]	312	460	21	7	354	30	8	41	82	84	65	2
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	23	0	0	0	0	20	2	0	2	0	3	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	335	460	21	7	354	50	10	41	84	84	68	2
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	84	115	5	2	89	13	3	10	21	21	17	1
Total Analysis Volume [veh/h]	335	460	21	7	354	50	10	41	84	84	68	2
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

Morning Peak Hour

#### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

# Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	24	21	0	21	18	0	0	18	0	0	18	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

# **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Morning Peak Hour

# **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	14	43	43	1	29	29	8	8	8	8	8	8
g / C, Green / Cycle	0.23	0.71	0.71	0.01	0.49	0.49	0.13	0.13	0.13	0.13	0.13	0.13
(v / s)_i Volume / Saturation Flow Rate	0.20	0.14	0.14	0.00	0.12	0.12	0.01	0.01	0.06	0.06	0.02	0.02
s, saturation flow rate [veh/h]	1681	1765	1738	1681	1765	1690	1325	3360	1500	1360	1765	1747
c, Capacity [veh/h]	390	1253	1234	16	860	823	221	439	196	233	231	228
d1, Uniform Delay [s]	22.09	2.93	2.93	29.57	8.93	8.95	25.80	22.96	24.02	26.88	23.14	23.14
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	5.55	0.34	0.35	18.06	0.65	0.70	0.08	0.09	1.48	0.93	0.30	0.31
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

# Lane Group Results

X, volume / capacity	0.86	0.19	0.19	0.44	0.24	0.24	0.05	0.09	0.43	0.36	0.15	0.15
d, Delay for Lane Group [s/veh]	27.65	3.27	3.28	47.62	9.58	9.64	25.89	23.05	25.50	27.81	23.44	23.45
Lane Group LOS	С	Α	Α	D	Α	Α	С	С	С	С	С	С
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	4.37	0.42	0.41	0.17	1.26	1.24	0.13	0.25	1.11	1.07	0.39	0.39
50th-Percentile Queue Length [ft/ln]	109.27	10.41	10.30	4.22	31.55	30.89	3.28	6.15	27.80	26.68	9.83	9.81
95th-Percentile Queue Length [veh/ln]	7.80	0.75	0.74	0.30	2.27	2.22	0.24	0.44	2.00	1.92	0.71	0.71
95th-Percentile Queue Length [ft/ln]	194.99	18.74	18.54	7.60	56.80	55.59	5.90	11.08	50.04	48.03	17.70	17.66

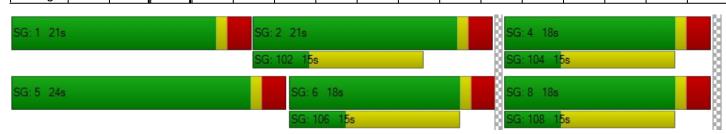
Morning Peak Hour

# Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	27.65	3.27	3.28	47.62	9.61	9.64	25.89	23.05	25.50	27.81	23.45	23.45
Movement LOS	С	Α	Α	D	Α	Α	С	С	С	С	С	С
d_A, Approach Delay [s/veh]		13.28			10.26			24.79		25.83		
Approach LOS		В			В			С			С	
d_I, Intersection Delay [s/veh]						14	.76					
Intersection LOS						E	3					
Intersection V/C						0.4	106					

# Sequence

Ring	1 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring	2 5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring	3 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring	4 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



#### Morning Peak Hour

# The Cactus Avenue Cannabis Facility

Vistro File: C:\...\AM.vistro
Report File: C:\...\AMOYp.pdf

Scenario 4 Opening Year (2025) With Project 7/17/2024

# **Turning Movement Volume: Detail**

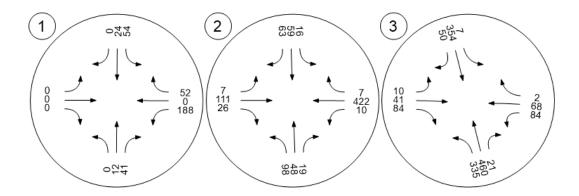
ID	Intersection	Volume Type	N	orthbou	nd	So	outhbou	nd	Е	astbour	ıd	V	/estboui	nd	Total
ID	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	0	12	37	54	24	0	0	0	0	136	0	52	315
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
1	Koala Road (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
'	Road (EW)	Net New Trips	0	0	4	0	0	0	0	0	0	52	0	0	56
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	0	12	41	54	24	0	0	0	0	188	0	52	371

ID	Intersection	Valuma Typa	N	orthbou	nd	Sc	outhbou	nd	Е	astboun	ıd	W	estbour/	nd	Total
l ib	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	95	48	19	16	59	60	7	107	26	10	376	7	830
	Bellflower	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
2	Street (NS) at	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rancho Road (EW)	Net New Trips	3	0	0	0	0	3	0	4	0	0	46	0	56
	(LVV)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	98	48	19	16	59	63	7	111	26	10	422	7	886

ID	Intersection	Valuma Tuna	N	orthbour	nd	Sc	outhbou	nd	Е	astbour	ıd	W	/estbour	nd	Total
l ib	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	312	460	21	7	354	30	8	41	82	84	65	2	1466
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
3	Highway 395 (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Road (EW)	Net New Trips	23	0	0	0	0	20	2	0	2	0	3	0	50
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	335	460	21	7	354	50	10	41	84	84	68	2	1516

# Traffic Volume - Future Total Volume





# The Cactus Avenue Cannabis Facility Scenario 4: 4 Opening Year (2025) With Project

Evening Peak Hour

## The Cactus Avenue Cannabis Facility

Vistro File: C:\...\PM.vistro

Scenario 4 Opening Year (2025) With Project

Report File: C:\...\PMOYp.pdf

7/17/2024

#### **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	SB Left	0.231	8.5	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	EB Thru	0.273	10.0	Α
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.473	13.7	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

#### The Cactus Avenue Cannabis Facility

Scenario 4: 4 Opening Year (2025) With Project

**Evening Peak Hour** 

# Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):8.5Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.231

## Intersection Setup

Name													
Approach	١	lorthboun	d	S	outhboun	d	ı	Eastbound	d	V	Westbound		
Lane Configuration		eft Thru Right			+			+		+			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	0	0 0 0		0 0 0		0	0	0	0	
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00			55.00		30.00			
Grade [%]	0.00			0.00			0.00		0.00				
Crosswalk		Yes			Yes			Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	0	29	161	89	11	1	0	0	0	39	1	44
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	37	0	0	0	0	0	0	15	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	29	198	89	11	1	0	0	0	54	1	44
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	7	50	22	3	0	0	0	0	14	0	11
Total Analysis Volume [veh/h]	0	29	198	89	11	1	0	0	0	54	1	44
Pedestrian Volume [ped/h]		0			0	·		0			0	

## The Cactus Avenue Cannabis Facility

Scenario 4: 4 Opening Year (2025) With Project

Evening Peak Hour

#### Intersection Settings

Lanes						
Capacity per Entry Lane [veh/h]	735	734	858	699	667	704
Degree of Utilization, x	0.00	0.04	0.23	0.14	0.00	0.14
Movement, Approach, & Intersection Res	ults					
95th-Percentile Queue Length [veh]	0.00	0.12	0.89	0.50	0.00	0.49
95th-Percentile Queue Length [ft]	0.00	3.08	22.29	12.59	0.00	12.20
Approach Delay [s/veh]		8.11		9.02	0.00	8.95
Approach LOS		Α		A	A	A
Intersection Delay [s/veh]				8.	52	
Intersection LOS				,	4	

#### The Cactus Avenue Cannabis Facility

Scenario 4: 4 Opening Year (2025) With Project

**Evening Peak Hour** 

## Intersection Level Of Service Report

#### Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):10.0Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.273

## Intersection Setup

Name												
Approach	N	lorthboun	d	s	outhboun	d	E	Eastbound	d	Westbound		
Lane Configuration		eft Thru Right			4r			1  r		ПÌ		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0 0 1			1 0 0			0	0
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			55.00		55.00		
Grade [%]		0.00			0.00			0.00		0.00		
Crosswalk		Yes			Yes			Yes		No		

#### Volumes

Name												
Base Volume Input [veh/h]	19	64	31	10	98	15	19	311	171	42	79	29
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	1	0	0	0	0	1	2	33	2	0	13	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	20	64	31	10	98	16	21	344	173	42	92	29
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	16	8	3	25	4	5	86	43	11	23	7
Total Analysis Volume [veh/h]	20	64	31	10	98	16	21	344	173	42	92	29
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Delay [s/veh]

Intersection LOS

# The Cactus Avenue Cannabis Facility

Scenario 4: 4 Opening Year (2025) With Project

**Evening Peak Hour** 

#### Intersection Settings

#### Lanes Capacity per Entry Lane [veh/h] 572 652 583 657 579 630 630 718 532 574 606 Degree of Utilization, x 0.15 0.05 0.19 0.02 0.04 0.27 0.27 0.24 0.08 0.11 0.10 Movement, Approach, & Intersection Results 95th-Percentile Queue Length [veh] 0.07 0.11 1.11 1.11 0.94 0.35 0.33 0.51 0.15 0.67 0.26 95th-Percentile Queue Length [ft] 12.80 3.74 16.87 1.87 2.82 27.64 27.64 23.49 6.40 8.79 8.28 Approach Delay [s/veh] 9.65 10.02 10.09 9.64 Approach LOS Α В В Α

9.95

Α

# Intersection Level Of Service Report

Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type:SignalizedDelay (sec / veh):13.7Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.473

#### Intersection Setup

Name													
Approach	١	lorthboun	d	s	Southbound			Eastbound	d	V	Westbound		
Lane Configuration		eft Thru Right			٦lh		•	1  r		٦iF			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0	
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00			30.00		55.00			
Grade [%]		0.00			0.00			0.00		0.00			
Crosswalk		Yes			Yes			Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	94	507	18	6	716	18	31	86	240	115	40	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	6	0	0	0	0	6	15	2	16	0	1	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	100	507	18	6	716	24	46	88	256	115	41	22
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	127	5	2	179	6	12	22	64	29	10	6
Total Analysis Volume [veh/h]	100	507	18	6	716	24	46	88	256	115	41	22
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

Evening Peak Hour

#### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

#### Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	8	18	0	8	18	0	0	34	0	0	34	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
l2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Evening Peak Hour

#### **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	5	38	38	1	34	34	13	13	13	13	13	13
g / C, Green / Cycle	0.08	0.63	0.63	0.01	0.56	0.56	0.21	0.21	0.21	0.21	0.21	0.21
(v / s)_i Volume / Saturation Flow Rate	0.06	0.15	0.15	0.00	0.21	0.21	0.03	0.03	0.17	0.09	0.02	0.02
s, saturation flow rate [veh/h]	1681	1765	1743	1681	1765	1745	1334	3360	1500	1304	1765	1567
c, Capacity [veh/h]	129	1108	1094	17	990	979	345	715	319	333	375	333
d1, Uniform Delay [s]	27.26	4.90	4.90	29.59	7.34	7.35	21.52	19.14	22.48	23.08	18.99	19.02
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.56	0.51	0.51	12.44	1.09	1.10	0.17	0.08	4.70	0.62	0.10	0.12
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

#### Lane Group Results

X, volume / capacity	0.78	0.24	0.24	0.36	0.38	0.38	0.13	0.12	0.80	0.35	0.09	0.09
d, Delay for Lane Group [s/veh]	36.82	5.41	5.42	42.03	8.43	8.45	21.69	19.22	27.18	23.69	19.09	19.14
Lane Group LOS	D	А	Α	D	Α	Α	С	В	С	С	В	В
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	No	No	No
50th-Percentile Queue Length [veh/ln]	1.58	0.90	0.89	0.13	1.95	1.93	0.54	0.47	3.59	1.31	0.31	0.30
50th-Percentile Queue Length [ft/ln]	39.48	22.46	22.28	3.37	48.80	48.37	13.52	11.79	89.65	32.80	7.73	7.46
95th-Percentile Queue Length [veh/ln]	2.84	1.62	1.60	0.24	3.51	3.48	0.97	0.85	6.45	2.36	0.56	0.54
95th-Percentile Queue Length [ft/ln]	71.06	40.43	40.11	6.06	87.85	87.07	24.33	21.22	161.37	59.05	13.91	13.43

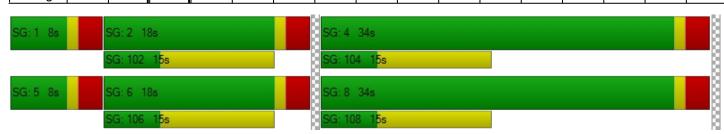
#### Evening Peak Hour

#### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	36.82	5.41	5.42	42.03	8.44	8.45	21.69	19.22	27.18	23.69	19.10	19.14
Movement LOS	D A A			D	Α	Α	С	В	С	С	В	В
d_A, Approach Delay [s/veh]		10.44			8.71			24.74			22.07	
Approach LOS		В			Α			С			С	
d_I, Intersection Delay [s/veh]						13	.72					
Intersection LOS	В											
Intersection V/C	0.473											

#### Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Evening Peak Hour

## The Cactus Avenue Cannabis Facility

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Scenario 4 Opening Year (2025) With Project 7/17/2024

# **Turning Movement Volume: Detail**

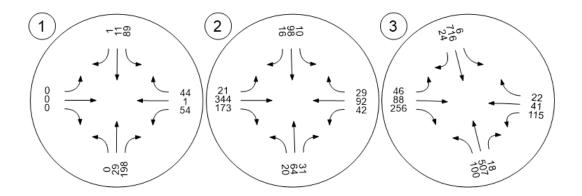
ID	ID Intersection	Volume Type	N	orthbou	nd	So	outhbou	nd	Е	astboun	ıd	V	/estbour	nd	Total
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
Koala Road	Final Base	0	29	161	89	11	1	0	0	0	39	1	44	375	
	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	
	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0	
'	1 (NS) at Rancho- Road (EW)	Net New Trips	0	0	37	0	0	0	0	0	0	15	0	0	52
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
	Future Total	0	29	198	89	11	1	0	0	0	54	1	44	427	

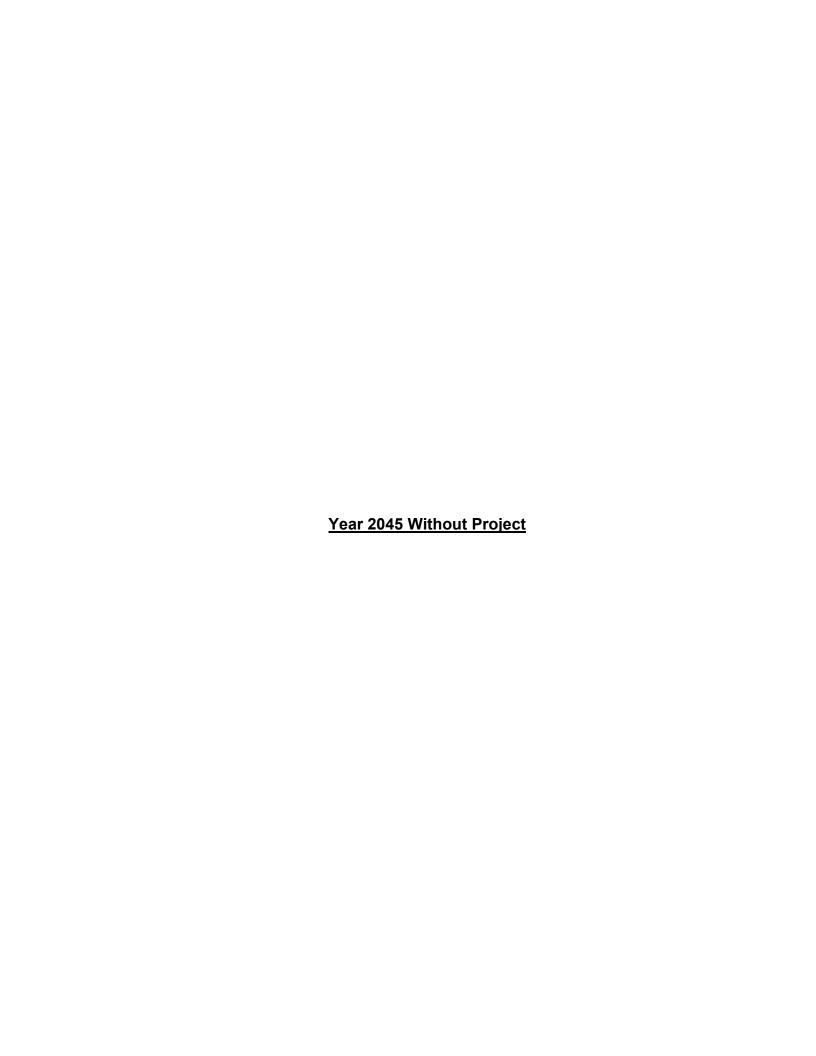
ID	Intersection	Volume Type	N	orthbour	nd	So	outhbou	nd	Е	astboun	ıd	W	estbour/	nd	Total
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
Bellflower	Final Base	19	64	31	10	98	15	19	311	171	42	79	29	888	
	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	ı	
2	Street (NS) at	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rancho Road	Net New Trips	1	0	0	0	0	1	2	33	2	0	13	0	52
	(EW)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	20	64	31	10	98	16	21	344	173	42	92	29	940

ID	ID Intersection	Valuma Tuna	N	orthbour	nd	So	outhbou	nd	Е	astbour	ıd	V	/estbour	nd	Total
l ID	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
Highway 395 3 (NS) at Rancho	Final Base	94	507	18	6	716	18	31	86	240	115	40	22	1893	
	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	
	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Road (EW)	Net New Trips	6	0	0	0	0	6	15	2	16	0	1	0	46
,	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Future Total	100	507	18	6	716	24	46	88	256	115	41	22	1939

Traffic Volume - Future Total Volume







Morning Peak Hour

The Cactus Avenue Cannabis Facility

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Scenario 5 Year 2045 Without Project 7/17/2024

## **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	WB Left	0.294	9.6	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	WB Thru	0.355	11.2	В
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.755	22.8	С

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

#### Morning Peak Hour

#### Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):9.6Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.294

#### Intersection Setup

Name												
Approach	١	lorthboun	d	S	outhboun	d	ı	Eastbound	d	V	Vestbound	d
Lane Configuration		٦١٢			+			+			+	
Turning Movement	Left	Left Thru Right			Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	50.00				50.00			55.00			30.00	
Grade [%]	0.00				0.00			0.00			0.00	
Crosswalk		Yes			Yes			Yes			Yes	

#### Volumes

Name												
Base Volume Input [veh/h]	0	69	52	59	82	0	0	0	0	147	0	57
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	69	52	59	82	0	0	0	0	147	0	57
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	17	13	15	21	0	0	0	0	37	0	14
Total Analysis Volume [veh/h]	0	69	52	59	82	0	0	0	0	147	0	57
Pedestrian Volume [ped/h]		0			0			0			0	

Scenario 5: 5 Year 2045 Without Project Morning Peak Hour

#### Intersection Settings

Lanes						
Capacity per Entry Lane [veh/h]	684	684	790	675	661	695
Degree of Utilization, x	0.00	0.10	0.07	0.21	0.00	0.29
Movement, Approach, & Intersection Res	sults					
95th-Percentile Queue Length [veh]	0.00	0.34	0.21	0.78	0.00	1.22
95th-Percentile Queue Length [ft]	0.00	8.38	5.28	19.54	0.00	30.55
Approach Delay [s/yeh]		8 1/1		0.73	0.00	10.32

Approach Delay [s/veh]	8.14	9.73	0.00	10.32
Approach LOS	Α	A	Α	В
Intersection Delay [s/veh]		9.	57	
Intersection LOS		,	A	

Morning Peak Hour

# Intersection Level Of Service Report

Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type: All-way stop Delay (sec / veh): 11.2 Analysis Method: HCM 2010 Level Of Service: В Analysis Period: 15 minutes Volume to Capacity (v/c): 0.355

## Intersection Setup

Name												
Approach	١	lorthboun	d	s	outhboun	d	E	Eastbound	t t	V	Vestbound	d
Lane Configuration		<b>4</b> r			46		•	1  r			٦l٢	
Turning Movement	Left	Left Thru Right			Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			55.00			55.00	
Grade [%]	0.00				0.00			0.00			0.00	
Crosswalk		Yes			Yes			Yes			No	

#### Volumes

Name												
Base Volume Input [veh/h]	98	53	21	18	65	64	9	136	29	11	411	8
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	98	53	21	18	65	64	9	136	29	11	411	8
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	13	5	5	16	16	2	34	7	3	103	2
Total Analysis Volume [veh/h]	98	53	21	18	65	64	9	136	29	11	411	8
Pedestrian Volume [ped/h]		0			0			0			0	

Morning Peak Hour

#### Intersection Settings

Capacity per Entry Lane [veh/h]	541	634	548	621	510	549	549	614	545	589	592
Degree of Utilization, x	0.28	0.03	0.15	0.10	0.02	0.12	0.12	0.05	0.02	0.36	0.35

#### Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.14	0.10	0.53	0.34	0.05	0.42	0.42	0.15	0.06	1.60	1.59
95th-Percentile Queue Length [ft]	28.41	2.56	13.28	8.57	1.35	10.53	10.53	3.71	1.55	40.01	39.75
Approach Delay [s/veh]	11.	51	9.8	38		9.9	95			12.04	
Approach LOS	E	3	P	\		P	4			В	
Intersection Delay [s/veh]				11	.20						
Intersection LOS					В						

Morning Peak Hour

# Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type:SignalizedDelay (sec / veh):22.8Analysis Method:HCM 2010Level Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.755

#### Intersection Setup

Name													
Approach	١	lorthboun	d	s	Southbound			Eastbound	d	V	Westbound		
Lane Configuration		٦lb			<del>111</del>		•	1  r		7  <b> </b>			
Turning Movement	Left	Left Thru Right			Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0	
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00			30.00		55.00			
Grade [%]	0.00			0.00				0.00		0.00			
Crosswalk	Yes			Yes				Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	341	925	24	51	1309	117	22	66	89	130	106	12
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	341	925	24	51	1309	117	22	66	89	130	106	12
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	85	231	6	13	327	29	6	17	22	33	27	3
Total Analysis Volume [veh/h]	341	925	24	51	1309	117	22	66	89	130	106	12
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

Morning Peak Hour

#### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

#### Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	26	19	0	33	26	0	0	18	0	0	18	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	İ
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Morning Peak Hour

#### **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
I2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	16	46	46	3	33	33	12	12	12	12	12	12
g / C, Green / Cycle	0.23	0.65	0.65	0.05	0.47	0.47	0.17	0.17	0.17	0.17	0.17	0.17
(v / s)_i Volume / Saturation Flow Rate	0.20	0.27	0.27	0.03	0.41	0.41	0.02	0.02	0.06	0.10	0.03	0.03
s, saturation flow rate [veh/h]	1681	1765	1749	1681	1765	1715	1269	3360	1500	1330	1765	1703
c, Capacity [veh/h]	389	1157	1147	76	828	805	242	574	256	266	301	291
d1, Uniform Delay [s]	25.95	5.69	5.69	32.92	16.66	16.74	28.22	24.56	25.59	29.84	24.91	24.93
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	6.40	1.08	1.10	9.84	12.04	12.89	0.16	0.09	0.81	1.38	0.32	0.34
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

#### Lane Group Results

X, volume / capacity	0.88	0.41	0.41	0.67	0.87	0.88	0.09	0.12	0.35	0.49	0.20	0.20
d, Delay for Lane Group [s/veh]	32.36	6.77	6.79	42.75	28.70	29.63	28.38	24.64	26.40	31.22	25.23	25.27
Lane Group LOS	С	Α	Α	D	С	С	С	С	С	С	С	С
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	5.46	2.25	2.24	0.98	10.73	10.72	0.33	0.45	1.31	1.98	0.77	0.76
50th-Percentile Queue Length [ft/ln]	136.61	56.33	55.98	24.62	268.35	267.96	8.33	11.31	32.72	49.45	19.27	19.00
95th-Percentile Queue Length [veh/ln]	9.30	4.06	4.03	1.77	16.11	16.09	0.60	0.81	2.36	3.56	1.39	1.37
95th-Percentile Queue Length [ft/ln]	232.46	101.39	100.76	44.31	402.68	402.19	15.00	20.35	58.90	89.01	34.68	34.20

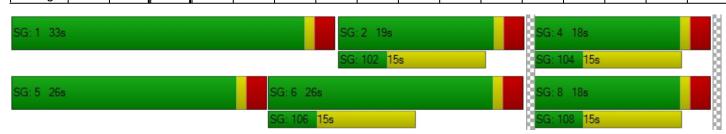
Morning Peak Hour

#### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	32.36	6.78	6.79	42.75	29.12	29.63	28.38	24.64	26.40	31.22	25.25	25.27
Movement LOS	С	Α	Α	D	С	С	С	С	С	С	С	С
d_A, Approach Delay [s/veh]		13.54			29.63			25.99				
Approach LOS		В			С			С				
d_I, Intersection Delay [s/veh]						22	.83					
Intersection LOS						(	2					
Intersection V/C						0.7	755					

#### Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Morning Peak Hour

# The Cactus Avenue Cannabis Facility

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Scenario 5 Year 2045 Without Project 7/17/2024

# **Turning Movement Volume: Detail**

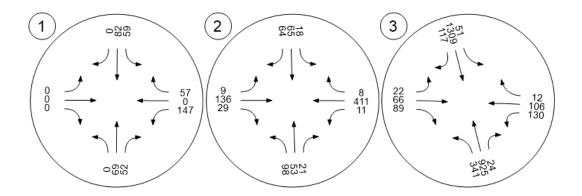
ID	Intersection	\/ali ma a Tima					astbour	ıd	W	/estbour	nd	Total			
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	0	69	52	59	82	0	0	0	0	147	0	57	466
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
1	Koala Road (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
'	Road (EW)	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
	`´	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	0	69	52	59	82	0	0	0	0	147	0	57	466

ID	Intersection	Valuma Tuna	Northbound			So	outhbou	nd	Е	astboun	nd	W	estbour/	nd	Total
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
Poliflower	Final Base	98	53	21	18	65	64	9	136	29	11	411	8	923	
	Bellflower	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
2	Street (NS) at	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rancho Road	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
(EW)	(EW)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	98	53	21	18	65	64	9	136	29	11	411	8	923

ID	Intersection	Valuma Tuna	N	orthbou	nd	So	outhbou	nd	Е	astboun	ıd	W	/estbour	nd	Total
l ID	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	341	925	24	51	1309	117	22	66	89	130	106	12	3192
3		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
	Highway 395 (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Road (EW)	Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
	`´	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	341	925	24	51	1309	117	22	66	89	130	106	12	3192

Traffic Volume - Future Total Volume





**Evening Peak Hour** 

The Cactus Avenue Cannabis Facility

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Scenario 5 Year 2045 Without Project 7/17/2024

## **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	SB Left	0.308	9.4	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	EB Thru	0.274	10.1	В
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.757	18.2	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

#### Evening Peak Hour

#### Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):9.4Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.308

#### Intersection Setup

Name												
Approach	١	lorthboun	d	S	outhboun	d	ı	Eastbound	ł	Westbound		
Lane Configuration		٦١٢			+			+		+		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00 100.00 100.00		100.00 100.00		100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00		55.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes		Yes				Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	0	137	176	96	92	27	0	0	0	58	3	48
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	137	176	96	92	27	0	0	0	58	3	48
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	34	44	24	23	7	0	0	0	15	1	12
Total Analysis Volume [veh/h]	0	137	176	96	92	27	0	0	0	58	3	48
Pedestrian Volume [ped/h]		0			0			0			0	

Evening Peak Hour

#### Intersection Settings

-	n	^	•

Capacity per Entry Lane [veh/h]	711	711	826	699	607	644
Degree of Utilization, x	0.00	0.19	0.21	0.31	0.00	0.17

#### Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.00	0.71	0.81	1.31	0.00	0.61				
95th-Percentile Queue Length [ft]	0.00	17.74	20.13	32.65	0.00	15.14				
Approach Delay [s/veh]		8.56		10.43	0.00	9.72				
Approach LOS		Α		В	А	A				
Intersection Delay [s/veh]	9.39									
Intersection LOS	Intersection LOS A									

#### **Evening Peak Hour**

# Intersection Level Of Service Report

#### Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type: All-way stop Delay (sec / veh): 10.1 Analysis Method: HCM 2010 Level Of Service: В Analysis Period: 15 minutes Volume to Capacity (v/c): 0.274

#### Intersection Setup

Name												
Approach	١	lorthboun	d	S	outhboun	d	E	Eastbound	d	Westbound		
Lane Configuration		Left Thru Right			<b>4</b> r		•	1  r		7  -		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		50.00			50.00			55.00		55.00		
Grade [%]	0.00		0.00		0.00			0.00				
Crosswalk	Yes		Yes		Yes			No				

#### Volumes

Name												
Base Volume Input [veh/h]	21	70	34	11	108	17	21	340	184	44	92	32
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	21	70	34	11	108	17	21	340	184	44	92	32
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	18	9	3	27	4	5	85	46	11	23	8
Total Analysis Volume [veh/h]	21	70	34	11	108	17	21	340	184	44	92	32
Pedestrian Volume [ped/h]	·	0			0			0			0	

Scenario 5: 5 Year 2045 Without Project Evening Peak Hour

#### Intersection Settings

Capacity per Entry Lane [veh/h]	568	646	579	652	571	620	620	705	525	566	599
Degree of Utilization, x	0.16	0.05	0.21	0.03	0.04	0.27	0.27	0.26	0.08	0.11	0.10

#### Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.57	0.17	0.77	0.08	0.11	1.11	1.11	1.04	0.27	0.37	0.34
95th-Percentile Queue Length [ft]	14.18	4.16	19.15	2.01	2.86	27.79	27.79	26.07	6.84	9.19	8.62
Approach Delay [s/veh]	9.8	30	10.	25		10.	.26			9.78	
Approach LOS	P	٨	Е	3		E	3			Α	
Intersection Delay [s/veh]				10	.12						
Intersection LOS	В										

#### Evening Peak Hour

# Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type: Signalized Delay (sec / veh): 18.2
Analysis Method: HCM 2010 Level Of Service: B
Analysis Period: 15 minutes Volume to Capacity (v/c): 0.757

#### Intersection Setup

Name														
Approach	١	lorthboun	d	s	outhboun	d	E	Eastbound	d	V	Vestbound	d		
Lane Configuration		٦lb			רוד					7 F				
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right		
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00		
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0		
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
Speed [mph]		50.00			50.00			30.00		55.00				
Grade [%]		0.00			0.00			0.00		0.00				
Crosswalk	Yes				Yes			Yes		Yes				

#### Volumes

Name												
Base Volume Input [veh/h]	103	1806	36	21	1193	29	75	123	263	133	46	88
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	103	1806	36	21	1193	29	75	123	263	133	46	88
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	452	9	5	298	7	19	31	66	33	12	22
Total Analysis Volume [veh/h]	103	1806	36	21	1193	29	75	123	263	133	46	88
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

Evening Peak Hour

#### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

#### Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	9	33	0	8	32	0	0	29	0	0	29	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Evening Peak Hour

#### **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	5	45	45	2	41	41	15	15	15	15	15	15
g / C, Green / Cycle	0.08	0.64	0.64	0.02	0.58	0.58	0.21	0.21	0.21	0.21	0.21	0.21
(v / s)_i Volume / Saturation Flow Rate	0.06	0.52	0.53	0.01	0.35	0.35	0.06	0.04	0.18	0.11	0.03	0.06
s, saturation flow rate [veh/h]	1681	1765	1753	1681	1765	1750	1250	3360	1500	1263	1765	1500
c, Capacity [veh/h]	132	1119	1112	43	1026	1018	275	711	318	301	374	318
d1, Uniform Delay [s]	31.72	9.81	9.88	33.70	9.41	9.41	27.73	22.61	26.42	27.85	22.37	23.14
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.63	6.88	7.16	8.23	2.57	2.59	0.53	0.11	5.51	1.02	0.15	0.47
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

#### Lane Group Results

X, volume / capacity	0.78	0.82	0.83	0.49	0.60	0.60	0.27	0.17	0.83	0.44	0.12	0.28
d, Delay for Lane Group [s/veh]	41.35	16.69	17.05	41.92	11.98	12.01	28.26	22.73	31.93	28.87	22.51	23.61
Lane Group LOS	D	В	В	D	В	В	С	С	С	С	С	С
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	No	No	No
50th-Percentile Queue Length [veh/ln]	1.91	8.50	8.62	0.42	4.80	4.77	1.15	0.81	4.46	1.93	0.55	1.10
50th-Percentile Queue Length [ft/ln]	47.64	212.40	215.41	10.54	120.02	119.30	28.75	20.18	111.55	48.20	13.76	27.51
95th-Percentile Queue Length [veh/ln]	3.43	13.28	13.43	0.76	8.39	8.35	2.07	1.45	7.93	3.47	0.99	1.98
95th-Percentile Queue Length [ft/ln]	85.75	331.90	335.77	18.97	209.86	208.87	51.75	36.32	198.15	86.76	24.76	49.52

Version 6.00-03 Scenario 5: 5 Year 2045 Without Project

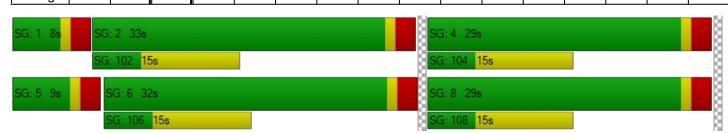
Evening Peak Hour

#### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	41.35	16.86	17.05	41.92	11.99	12.01	28.26	22.73	31.93	28.87	22.51	23.61
Movement LOS	D	В	В	D	В	В	С	С	С	С	С	С
d_A, Approach Delay [s/veh]		18.16			12.50			28.87			26.04	
Approach LOS	B B C								С			
d_I, Intersection Delay [s/veh]						18	.16					
Intersection LOS						E	3					
Intersection V/C		0.757										

#### Sequence

	Ring 1	1	2	4	-	-	-	-	-	-	-	-	ı	-	-	-	-
	Ring 2	5	6	8	-	-	-	-	-	-	-	-	ı	-	-	-	-
ſ	Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Τ	Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Evening Peak Hour

# The Cactus Avenue Cannabis Facility

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Scenario 5 Year 2045 Without Project 7/17/2024

# **Turning Movement Volume: Detail**

ID	Intersection	Volume Type	Northbound			Southbound			Eastbound			Westbound			Total
	Name		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
1		Final Base	0	137	176	96	92	27	0	0	0	58	3	48	637
	Koala Road (NS) at Rancho Road (EW)	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
		In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
		Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	0	137	176	96	92	27	0	0	0	58	3	48	637

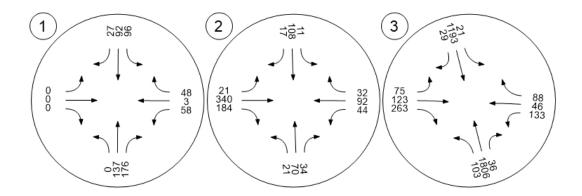
ID	Intersection	Volume Type	Northbound			Southbound			Eastbound			Westbound			Total
	Name		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
		Final Base	21	70	34	11	108	17	21	340	184	44	92	32	974
	Bellflower Street (NS) at Rancho Road (EW)	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
		In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
		Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
	(LVV)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	21	70	34	11	108	17	21	340	184	44	92	32	974

ID	Intersection	Volume Type	Northbound			Southbound			Eastbound			Westbound			Total
	Name		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
3		Final Base	103	1806	36	21	1193	29	75	123	263	133	46	88	3916
	Highway 395 (NS) at Rancho Road (EW)	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
		In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3		Net New Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	103	1806	36	21	1193	29	75	123	263	133	46	88	3916

**Evening Peak Hour** 

Traffic Volume - Future Total Volume







# The Cactus Avenue Cannabis Facility Scenario 6: 6 Copy of Year 2045 Without Project

Morning Peak Hour

#### The Cactus Avenue Cannabis Facility

Vistro File: C:\...\AM.vistro

Scenario 6 Copy of Year 2045 Without Project

Report File: C:\...\AMFYp.pdf

7/17/2024

#### **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	WB Left	0.374	10.3	В
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	WB Thru	0.398	11.7	В
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.771	24.5	С

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Scenario 6: 6 Copy of Year 2045 Without Project

Morning Peak Hour

#### Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):10.3Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.374

## Intersection Setup

Name													
Approach	١	lorthboun	d	S	Southbound			Eastbound	d	V	Westbound		
Lane Configuration		٦١٢			+			+		+			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	0	0	0	0	0	0	0	0	0	
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00			55.00			30.00		
Grade [%]		0.00			0.00			0.00		0.00			
Crosswalk		Yes			Yes			Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	0	69	52	59	82	0	0	0	0	147	0	57
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	4	0	0	0	0	0	0	52	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	69	56	59	82	0	0	0	0	199	0	57
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	17	14	15	21	0	0	0	0	50	0	14
Total Analysis Volume [veh/h]	0	69	56	59	82	0	0	0	0	199	0	57
Pedestrian Volume [ped/h]	·	0			0			0		·	0	

Scenario 6: 6 Copy of Year 2045 Without Project

Morning Peak Hour

#### Intersection Settings

Lanes						
Capacity per Entry Lane [veh/h]	662	662	760	654	649	685
Degree of Utilization, x	0.00	0.10	0.07	0.22	0.00	0.37
Movement, Approach, & Intersection Res	sults					
95th-Percentile Queue Length [veh]	0.00	0.35	0.24	0.81	0.00	1.73
95th-Percentile Queue Length [ft]	0.00	8.69	5.95	20.35	0.00	43.34
Approach Delay [s/veh]		8.34		10.01	0.00	11.35
Approach LOS		Α		В	Α	В
Intersection Delay [s/veh]				10.	27	
Intersection LOS				E	3	

Scenario 6: 6 Copy of Year 2045 Without Project

Morning Peak Hour

# Intersection Level Of Service Report

Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):11.7Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.398

#### Intersection Setup

Name													
Approach	١	lorthboun	d	S	Southbound			Eastbound	t t	V	Westbound		
Lane Configuration		<b>4</b> r		46			•	1  r		ПÌ			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	0	0	1	0	0	1	1	0	0	1	0	0	
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00			55.00			55.00		
Grade [%]	0.00				0.00		0.00			0.00			
Crosswalk		Yes			Yes			Yes		No			

#### Volumes

Name												
Base Volume Input [veh/h]	98	53	21	18	65	64	9	136	29	11	411	8
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	3	0	0	0	0	3	0	4	0	0	46	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	101	53	21	18	65	67	9	140	29	11	457	8
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	13	5	5	16	17	2	35	7	3	114	2
Total Analysis Volume [veh/h]	101	53	21	18	65	67	9	140	29	11	457	8
Pedestrian Volume [ped/h]		0			0			0			0	

Scenario 6: 6 Copy of Year 2045 Without Project

Morning Peak Hour

#### Intersection Settings

Capacity per Entry Lane [veh/h]	530	620	537	607	501	538	538	600	540	584	587
Degree of Utilization, x	0.29	0.03	0.15	0.11	0.02	0.13	0.13	0.05	0.02	0.40	0.40

#### Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.20 0.11		0.54	0.37	0.05	0.45	0.45	0.15	0.06	1.90	1.89
95th-Percentile Queue Length [ft]	29.95	2.63	13.60	9.25	1.37	11.14	11.14	3.80	1.56	47.56	47.27
Approach Delay [s/veh]	11.	82	10.	07		10.	15			12.77	
Approach LOS	Е	3	E		Е	3			В		
Intersection Delay [s/veh]				11.71							
Intersection LOS				ı	В						

Scenario 6: 6 Copy of Year 2045 Without Project

Morning Peak Hour

# Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type:SignalizedDelay (sec / veh):24.5Analysis Method:HCM 2010Level Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.771

#### Intersection Setup

Name													
Approach	١	Northboun	d	s	Southbound			Eastbound	d	Westbound			
Lane Configuration		٦١٢		ᆌ			•	1  r		пIF			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0	
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00			30.00			55.00		
Grade [%]		0.00			0.00			0.00		0.00			
Crosswalk		Yes			Yes			Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	341	925	24	51	1309	117	22	66	89	130	106	12
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	23	0	0	0	0	20	2	0	2	0	3	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	364	925	24	51	1309	137	24	66	91	130	109	12
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	91	231	6	13	327	34	6	17	23	33	27	3
Total Analysis Volume [veh/h]	364	925	24	51	1309	137	24	66	91	130	109	12
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

Morning Peak Hour

#### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

#### Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	44	51	0	11	18	0	0	18	0	0	18	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Scenario 6: 6 Copy of Year 2045 Without Project

Morning Peak Hour

#### **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
I2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	20	54	54	3	38	38	13	13	13	13	13	13
g / C, Green / Cycle	0.24	0.68	0.68	0.04	0.48	0.48	0.16	0.16	0.16	0.16	0.16	0.16
(v / s)_i Volume / Saturation Flow Rate	0.22	0.27	0.27	0.03	0.41	0.42	0.02	0.02	0.06	0.10	0.03	0.04
s, saturation flow rate [veh/h]	1681	1765	1749	1681	1765	1707	1265	3360	1500	1330	1765	1705
c, Capacity [veh/h]	411	1202	1191	72	846	818	224	550	246	250	289	279
d1, Uniform Delay [s]	29.17	5.57	5.57	37.82	18.51	18.64	32.58	28.53	29.78	34.33	28.98	28.99
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	6.57	0.98	0.99	12.33	11.44	12.41	0.21	0.10	0.93	1.68	0.36	0.38
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

#### Lane Group Results

X, volume / capacity	0.89	0.40	0.40	0.71	0.86	0.87	0.11	0.12	0.37	0.52	0.21	0.22
d, Delay for Lane Group [s/veh]	35.73	6.55	6.56	50.15	29.95	31.05	32.78	28.63	30.71	36.01	29.33	29.38
Lane Group LOS	D	А	Α	D	С	С	С	С	С	D	С	С
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	6.79	2.48	2.47	1.16	12.42	12.39	0.43	0.54	1.58	2.35	0.95	0.93
50th-Percentile Queue Length [ft/ln]	169.77	62.05	61.66	29.12	310.44	309.69	10.70	13.39	39.58	58.83	23.70	23.37
95th-Percentile Queue Length [veh/ln]	11.06	4.47	4.44	2.10	18.20	18.16	0.77	0.96	2.85	4.24	1.71	1.68
95th-Percentile Queue Length [ft/ln]	276.62	111.69	111.00	52.41	454.92	454.00	19.26	24.09	71.24	105.89	42.65	42.07

Scenario 6: 6 Copy of Year 2045 Without Project

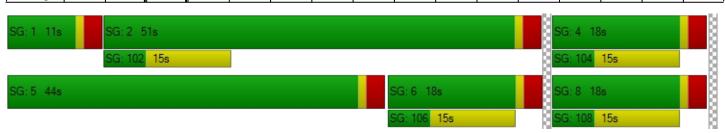
Morning Peak Hour

#### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	35.73 6.56 6.56		50.15	30.44	31.05	32.78	28.63	30.71	36.01	29.35	29.38	
Movement LOS	D A A			D	С	С	С	С	С	D	С	С
d_A, Approach Delay [s/veh]		14.65			31.16			30.23			32.80	
Approach LOS	В				С			С			С	
d_I, Intersection Delay [s/veh]						24	.55					
Intersection LOS	С											
Intersection V/C	0.771											

## Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	ı	-	-	1	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Scenario 6: 6 Copy of Year 2045 Without Project

Morning Peak Hour

# The Cactus Avenue Cannabis Facility

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Report File: C:\...\AMFYp.pdf

Scenario 6 Copy of Year 2045 Without Project 7/17/2024

# **Turning Movement Volume: Detail**

ID Intersection	Valuma Tyna	N	orthbou	nd	So	outhbou	nd	Е	astbour	ıd	W	/estbour	nd	Total	
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
	Final Base	0	69	52	59	82	0	0	0	0	147	0	57	466	
	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	
1	Koala Road (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
!	Road (EW)	Net New Trips	0	0	4	0	0	0	0	0	0	52	0	0	56
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Future Total	0	69	56	59	82	0	0	0	0	199	0	57	522	

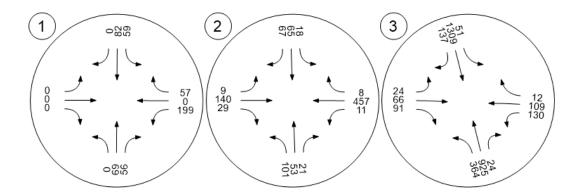
ID Intersection	Valuma Tuna	N	orthbou	nd	So	outhbou	nd	Е	astboun	ıd	W	/estbour	nd	Total	
טו	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
Bellflower	Final Base	98	53	21	18	65	64	9	136	29	11	411	8	923	
	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	ı	
2	Street (NS) at	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Rancho Road (EW)	Net New Trips	3	0	0	0	0	3	0	4	0	0	46	0	56
	(EVV)	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	101	53	21	18	65	67	9	140	29	11	457	8	979

ID	ID Intersection	Valuma Tuna	N	orthbour	nd	So	outhbou	nd	Е	astbour	ıd	W	/estbour	nd	Total
l ID	Name	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
Highway 395	Final Base	341	925	24	51	1309	117	22	66	89	130	106	12	3192	
	Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	
	Highway 395 (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Road (EW)	Net New Trips	23	0	0	0	0	20	2	0	2	0	3	0	50
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Future Total	364	925	24	51	1309	137	24	66	91	130	109	12	3242	

Morning Peak Hour

Traffic Volume - Future Total Volume





The Cactus Avenue Cannabis Facility Scenario 6: 6 Year 2045 With Project

**Evening Peak Hour** 

#### The Cactus Avenue Cannabis Facility

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Report File: C:\...\PMFYp.pdf

Scenario 6 Year 2045 With Project

7/17/2024

#### **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Koala Road (NS) at Rancho Road (EW)	All-way stop	HCM 2010	SB Left	0.314	9.6	Α
2	Bellflower Street (NS) at Rancho Road (EW)	All-way stop	HCM 2010	EB Thru	0.303	10.3	В
3	Highway 395 (NS) at Rancho Road (EW)	Signalized	HCM 2010	SB Left	0.768	19.0	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Evening Peak Hour

#### Intersection Level Of Service Report Intersection 1: Koala Road (NS) at Rancho Road (EW)

Control Type:All-way stopDelay (sec / veh):9.6Analysis Method:HCM 2010Level Of Service:AAnalysis Period:15 minutesVolume to Capacity (v/c):0.314

#### Intersection Setup

Name												
Approach	١	lorthboun	d	S	outhboun	d	ı	Eastbound	d	V	Vestbound	d
Lane Configuration		Left Thru Right			+			+			+	
Turning Movement	Left			Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00 12.00 12.00		12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	50.00				50.00			55.00			30.00	
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes				Yes			Yes			Yes	

#### Volumes

Name												
Base Volume Input [veh/h]	0	137	176	96	92	27	0	0	0	58	3	48
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	37	0	0	0	0	0	0	15	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	137	213	96	92	27	0	0	0	73	3	48
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	34	53	24	23	7	0	0	0	18	1	12
Total Analysis Volume [veh/h]	0	137	213	96	92	27	0	0	0	73	3	48
Pedestrian Volume [ped/h]	0			0			0			0		

Evening Peak Hour

#### Intersection Settings

Lanes												
Capacity per Entry Lane [veh/h]	702	702	814	685	596	630						
Degree of Utilization, x	0.00	0.20	0.26	0.31	0.00	0.20						
Movement, Approach, & Intersection Results												
95th-Percentile Queue Length [veh]	0.00	0.72	1.05	1.34	0.00	0.73						
95th-Percentile Queue Length [ft]	0.00	18.01	26.23	33.51	0.00	18.18						
Approach Delay [s/veh]		8.84		10.63	0.00	10.11						
Approach LOS	A B A B											
Intersection Delay [s/veh]	9.63											
Intersection LOS	A											

#### Evening Peak Hour

# Intersection Level Of Service Report

Intersection 2: Bellflower Street (NS) at Rancho Road (EW)

Control Type: All-way stop Delay (sec / veh): 10.3 Analysis Method: HCM 2010 Level Of Service: В Analysis Period: 15 minutes Volume to Capacity (v/c): 0.303

## Intersection Setup

Name													
Approach	١	lorthboun	d	s	outhboun	d	ı	Eastbound	d	V	Westbound		
Lane Configuration		<b>4</b> r			<b>4</b> r		•	1  r		711-			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	0	0	1	0 0 1		1 0 0			1	0	0		
Pocket Length [ft]	100.00	100.00	50.00	100.00	100.00 100.00 100.00		100.00 100.00 100.00			0 100.00 100.00 100.0			
Speed [mph]		50.00			50.00			55.00		55.00			
Grade [%]	0.00			0.00				0.00		0.00			
Crosswalk		Yes			Yes			Yes		No			

#### Volumes

Name												
Base Volume Input [veh/h]	21	70	34	11	108	17	21	340	184	44	92	32
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	1	0	0	0	0	1	2	33	2	0	13	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	22	70	34	11	108	18	23	373	186	44	105	32
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	6	18	9	3	27	5	6	93	47	11	26	8
Total Analysis Volume [veh/h]	22	70	34	11	108	18	23	373	186	44	105	32
Pedestrian Volume [ped/h]	·	0			0			0			0	

Evening Peak Hour

#### Intersection Settings

Capacity per Entry Lane [veh/h]	562	638	573	644	567	615	615	699	520	559	589
Degree of Utilization, x	0.16	0.05	0.21	0.03	0.04	0.30	0.30	0.27	0.08	0.12	0.12

#### Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.58 0.17		0.78	0.09	0.13	1.27	1.27	1.07	0.28	0.42	0.39
95th-Percentile Queue Length [ft]	14.55 4.21		19.39	19.39 2.15		31.87	31.87	26.75	6.91	10.40	9.81
Approach Delay [s/veh]	9.9	90	10.	34		10.	.57				
Approach LOS	P	٨	Е	В		E	3				
Intersection Delay [s/veh]				10	.35						
Intersection LOS	В										

Evening Peak Hour

# Intersection Level Of Service Report Intersection 3: Highway 395 (NS) at Rancho Road (EW)

Control Type:SignalizedDelay (sec / veh):19.0Analysis Method:HCM 2010Level Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.768

#### Intersection Setup

Name													
Approach	١	Northboun	d	s	outhboun	d	E	Eastbound	d	Westbound			
Lane Configuration		٦١٢			<del>111</del>		•	1  r		٦١٢			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00 12.00 12.00			12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0	
Pocket Length [ft]	340.00	100.00	100.00	290.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
Speed [mph]		50.00			50.00			30.00			55.00		
Grade [%]	0.00		0.00		0.00			0.00					
Crosswalk		Yes			Yes			Yes		Yes			

#### Volumes

Name												
Base Volume Input [veh/h]	103	1806	36	21	1193	29	75	123	263	133	46	88
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	6	0	0	0	0	6	15	2	16	0	1	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	109	1806	36	21	1193	35	90	125	279	133	47	88
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	27	452	9	5	298	9	23	31	70	33	12	22
Total Analysis Volume [veh/h]	109	1806	36	21	1193	35	90	125	279	133	47	88
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

Evening Peak Hour

#### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	4.00

#### Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	5	5	0	5	5	0	0	5	0	0	5	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
All red [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Split [s]	9	36	0	8	35	0	0	26	0	0	26	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
l2, Clearance Lost Time [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Scenario 6: 6 Year 2045 With Project Evening Peak Hour

#### **Lane Group Calculations**

Lane Group	L	С	С	L	С	С	L	С	R	L	С	С
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
g_i, Effective Green Time [s]	6	44	44	2	40	40	15	15	15	15	15	15
g / C, Green / Cycle	0.08	0.63	0.63	0.02	0.57	0.57	0.22	0.22	0.22	0.22	0.22	0.22
(v / s)_i Volume / Saturation Flow Rate	0.06	0.52	0.53	0.01	0.35	0.35	0.07	0.04	0.19	0.11	0.03	0.06
s, saturation flow rate [veh/h]	1681	1765	1753	1681	1765	1747	1249	3360	1500	1261	1765	1500
c, Capacity [veh/h]	139	1103	1095	43	1002	992	287	743	332	312	390	332
d1, Uniform Delay [s]	31.54	10.32	10.40	33.70	10.07	10.07	27.45	22.09	26.13	27.25	21.85	22.59
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.27	7.52	7.84	8.23	2.83	2.87	0.62	0.11	5.75	0.92	0.14	0.42
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

#### Lane Group Results

X, volume / capacity	0.78	0.84	0.84	0.49	0.62	0.62	0.31	0.17	0.84	0.43	0.12	0.27
d, Delay for Lane Group [s/veh]	40.81	17.84	18.24	41.92	12.90	12.94	28.07	22.19	31.87	28.18	21.98	23.01
Lane Group LOS	D	В	В	D	В	В	С	С	С	С	С	С
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	No	No	No
50th-Percentile Queue Length [veh/ln]	2.00	9.01	9.15	0.42	5.15	5.11	1.38	0.81	4.74	1.90	0.55	1.08
50th-Percentile Queue Length [ft/ln]	49.95	225.33	228.66	10.54	128.65	127.73	34.49	20.21	118.48	47.42	13.83	27.02
95th-Percentile Queue Length [veh/ln]	3.60	13.94	14.11	0.76	8.87	8.82	2.48	1.45	8.31	3.41	1.00	1.95
95th-Percentile Queue Length [ft/ln]	89.92	348.42	352.65	18.97	221.66	220.41	62.08	36.37	207.74	85.35	24.89	48.64

Evening Peak Hour

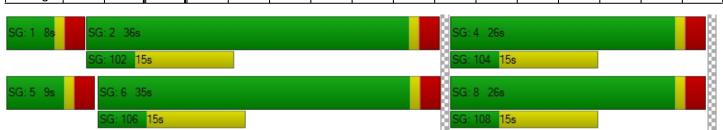
Version 6.00-03

#### Movement, Approach, & Intersection Results

										1		
d_M, Delay for Movement [s/veh]	40.81	18.04	18.24	41.92	12.92	12.94	28.07	22.19	31.87	28.18	21.98	23.01
Movement LOS	D	В	В	D	В	В	С	С	С	С	С	С
d_A, Approach Delay [s/veh]		19.31			13.41			28.73		25.40		
Approach LOS		В		В				С		С		
d_I, Intersection Delay [s/veh]						19						
Intersection LOS	В											
Intersection V/C	ection V/C 0.768											

## Sequence

Ring	1 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring	2 5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring	3 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring	4 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Evening Peak Hour

# The Cactus Avenue Cannabis Facility

Vistro File: C:\...\PM.vistro Report File: C:\...\PMFYp.pdf

Scenario 6 Year 2045 With Project 7/17/2024

# **Turning Movement Volume: Detail**

ID Intersection Name	Intersection	Values a Tree	Northbound			Southbound			Е	astbour	ıd	Westbound			Total
	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume	
		Final Base	0	137	176	96	92	27	0	0	0	58	3	48	637
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
1	Koala Road (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
'	Road (EW)	Net New Trips	0	0	37	0	0	0	0	0	0	15	0	0	52
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
	Future Total	0	137	213	96	92	27	0	0	0	73	3	48	689	

ID Intersection Name	Intersection	Valuma Tuna	Northbound			Southbound			Е	astboun	nd	Westbound			Total
	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume	
	Bellflower	Final Base	21	70	34	11	108	17	21	340	184	44	92	32	974
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	=
2	Street (NS) at	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rancho Road (EW)	Net New Trips	1	0	0	0	0	1	2	33	2	0	13	0	52
	(= (= (= (= (= (= (= (= (= (= (= (= (= (	Other	0	0	0	0	0	0	0	0	0	0	0	0	0
	Future Total	22	70	34	11	108	18	23	373	186	44	105	32	1026	

ID Intersection Name	Intersection	Valuma Tuna	Northbound			Southbound			Е	astbour	ıd	Westbound			Total
	Volume Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume	
		Final Base	103	1806	36	21	1193	29	75	123	263	133	46	88	3916
		Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
3	Highway 395 (NS) at Rancho	In Process	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Road (EW)	Net New Trips	6	0	0	0	0	6	15	2	16	0	1	0	46
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
		Future Total	109	1806	36	21	1193	35	90	125	279	133	47	88	3962

**Evening Peak Hour** 

# Traffic Volume - Future Total Volume



