Appendices

Appendix 5.12-1 Transportation Impact Analysis

Appendices

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TRANSPORTATION IMPACT ANALYSIS

INLAND VALLEY MEDICAL CENTER EXPANSION

Wildomar, California July 26, 2021

LLG Ref. 3-19-3093

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TRANSPORTATION IMPACT ANALYSIS

INLAND VALLEY MEDICAL CENTER EXPANSION

Wildomar, California July 26, 2021

1.0 Introduction

The Inland Valley Medical Center Expansion project ("project") is a proposed expansion of the existing medical center. The project site is located at 36485 Inland Valley Drive, south of Clinton Keith Road between I-15 and Inland Valley Drive in the City of Wildomar.

This Transportation Impact Analysis report has been prepared to evaluate the effects of the project on the local transportation system. Per the City's guidelines, two analyses are presented in this report: 1) a Level of Service assessment to review the operational performance of the local transportation system consistent with the City of Wildomar Mobility Plan, and 2) a Vehicle Miles Traveled assessment to evaluate significant Project impacts under the California Environmental Quality Act (CEQA).

This report has been organized as follows:

- Project Description
- Level of Service (LOS) Assessment (General Plan Consistency Analysis)
 - o Study Area, Analysis Scenarios, Approach and Methodology
 - LOS Impact Thresholds
 - o Existing Conditions
 - Analysis of Existing Conditions
 - o Project Trip Generation / Distribution / Assignment
 - o Near-Term Opening Year 2026 Conditions and Cumulative Projects
 - o Analysis of Near-Term Opening Year 2026 Scenarios
 - Site Access Review
 - o Active Transportation and Public Transit Review
 - o Improvements and Recommendations
- Vehicle Miles Traveled Assessment (CEQA Analysis)
 - VMT Background
 - VMT Impact Thresholds
 - VMT Analysis Methodology
 - Project VMT Analysis
 - Significant VMT Impacts and Mitigation Measures

2.0 PROJECT DESCRIPTION

2.1 Project Location

The Inland Valley Medical Center is located on a 22.24-acre site in the City of Wildomar. The site is bounded by Clinton Keith to the north, Inland Valley Drive to the east, Prielipp Road to the south, and Interstate 15 (I-15) the west.

Figure 2–1 and Figure 2–2 depicts the Project Vicinity Map and Project Area Map

2.2 Project Description

The project will provide for expanding the existing Inland Valley Medical Center with a new addition to the hospital that includes expansion of all services and critical ancillary support for 100 new patient beds, bringing the campus total to 202 beds.

The existing buildings include several one and two-story structures: Buildings A, B-H, C, I, a Central Utility Plant (CUP), and an Administration building. Buildings A and I house patient rooms and Building B-H houses the diagnostic and treatment areas. The Administration building houses non-clinical functions. Building C will be demolished.

Demolition of existing Building C will allow new construction on the 7-story tower to commence. The podium area of the new tower will connect to existing buildings I and A, unifying the hospital campus. The ground level will be the emergency department with direct entry/access for walk-in patients and ambulance, with Operating Rooms on the second floor above. The bed tower will be above the podium and center on axis with Building A. The new tower is placed to allow the existing hospital Building B-H, and the existing CUP to remain operations during construction.

Modifications to Building I, which currently houses patient rooms on the second floor over open parking stalls, will enclose the first floor for a new loading dock and Materials Management department.

Modifications to Building A, which currently houses patient rooms on the second floor, include a new main entry canopy and lobby renovation, which will be the new front door to the medical center; a connecting corridor that links the new entry with public elevators in the new tower; and renovation of spaces for relocated departments once the new hospital is completed.

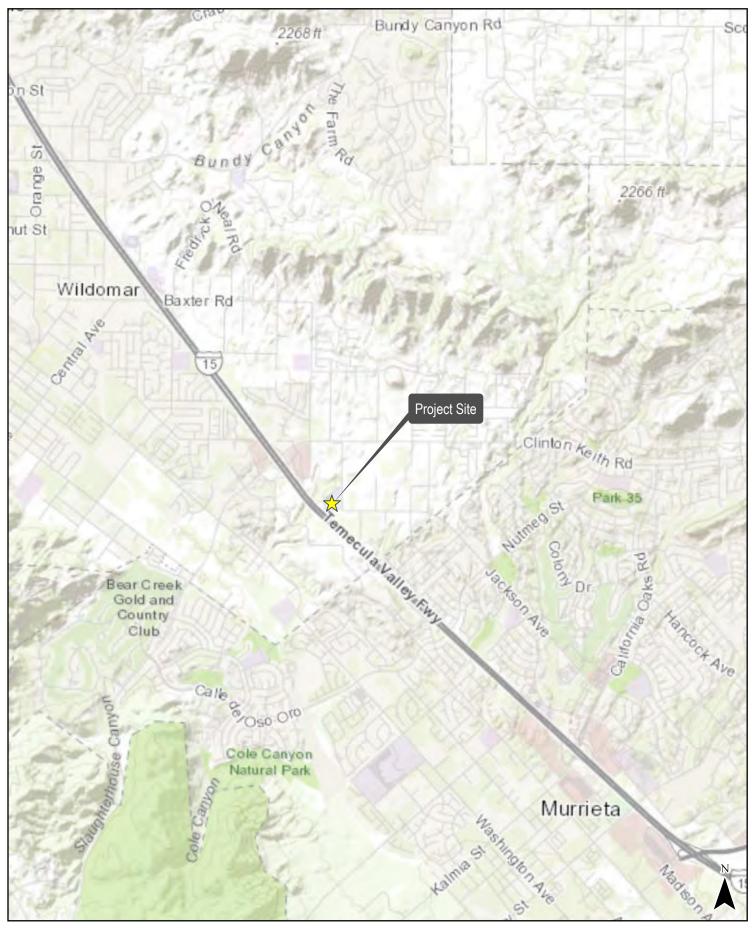
A new CUP will serve the new tower and backfeed existing Buildings I and I that are to remain. The project will conclude with demolition of existing hospital building B-H and the creation of new surface parking lots.

Opening year for the completion of the expansion project was assumed to be Year 2026.

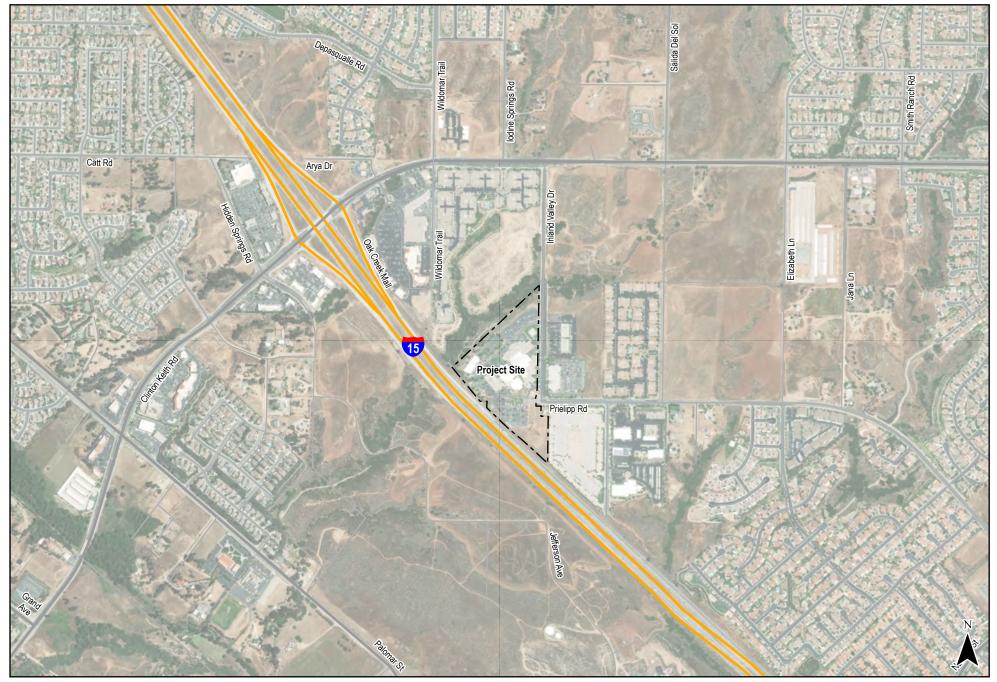
Figure 2–3 depicts the Project Site Plan.

2.3 Project Access

Regional access is available to the site via Interstate 15, utilizing the Clinton Keith Road interchange. Existing site access is via several unsignalized driveways on Inland Valley Drive between the northern end of the project site and Prielipp Road. The Project will entail closure of all driveways between the north access point and the south access point. A detailed discussion of existing and proposed project access is provided in *Section 10.0* of this report.

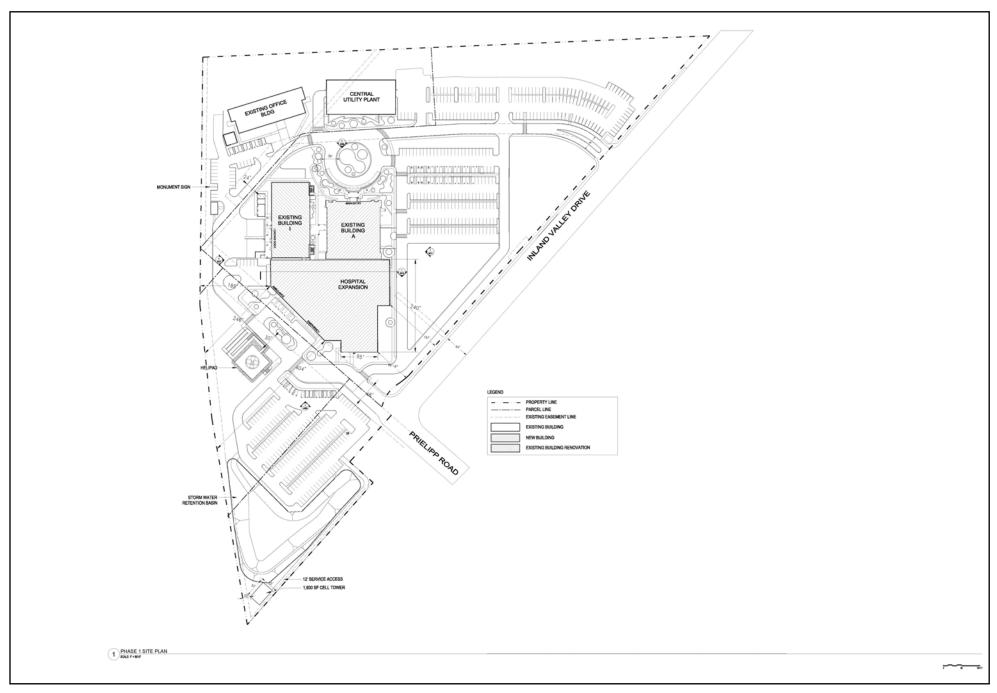


LINSCOTT LAW & GREENSPAN N:\3093\Figure Date: 11/18/2020 Time: 10:47 AM Figure 2-1 Project Vicinity Map





N:\3093\Figure Date: 4/26/2021 Time: 4:57 PM Figure 2-2 Project Area Map





N:\3093\Figure Date: 6/24/2021 Time: 11:02AM Figure 2-3 Project Site Plan

3.0 Study Area, Analysis Scenarios, Approach and Methodology

3.1 Study Area

The study area for this project encompasses locations affected by proposed project. The scope of the study area was developed in coordination with City staff using existing traffic volumes, the proposed project distribution, and a working knowledge of the local transportation.

The intersections and segments included in the study area are listed below:

<u>Intersections</u>

- 1. I-15 Southbound Ramps / Clinton Keith Road
- 2. I-15 Northbound Ramps / Clinton Keith Road
- 3. Clinton Keith Road / Arya Road
- 4. Clinton Keith Road / Wildomar Trail
- 5. Clinton Keith Road / Inland Valley Drive
- 6. Clinton Keith / Smith Ranch Road
- 7. Inland Valley Drive / Prielipp Road

SEGMENTS

- 1. Clinton Keith Road: Arya Road to Wildomar Trail
- 2. Clinton Keith Road: Wildomar Trail to Inland Valley Drive
- 3. Clinton Keith Road: Inland Valley Drive to Smith Ranch Road
- 4. Inland Valley Drive: Clinton Keith to Prielipp Road
- 5. Prielipp Road: East of Inland Valley Drive

3.2 Analysis Scenarios

This traffic analysis assesses the study area intersections and street segments in the project study area to determine and evaluate the traffic effects on the local circulation system due to the proposed project. A total of three (3) scenarios are analyzed in this study, including:

- Existing
- Near-Term Opening Year 2026
- Near-Term Opening Year 2026 + Project

3.3 Analysis Approach

Level of service (LOS) is the term used to denote the different operating conditions which occur on a given roadway segment under various traffic volume loads. It is a qualitative measure used to describe a quantitative analysis considering factors such as roadway geometries, signal phasing, speed, travel delay, freedom to maneuver, and safety. Level of service provides an index to the operational qualities of a roadway segment or an intersection. Level of service designations range from A to F, with LOS A representing the best operating conditions and LOS F representing the worst operating conditions. Level of service designation is reported differently for signalized and unsignalized intersections, as well as for roadway segments.

There are various methodologies used to analyze signalized intersections, unsignalized intersections, and street segments. The measure of effectiveness for intersection and segment operations is level of service (LOS), which denotes the operating conditions which occur at a given intersection or on a given roadway segment under various traffic volume loads.

LOS is a qualitative measure used to describe a quantitative analysis considering factors such as roadway geometries, signal phasing, speed, travel delay, freedom to maneuver, and safety. Level of service provides an index to the operational qualities of a roadway segment or an intersection. Levels of service designations range from A to F, with LOS A representing the best operating conditions and LOS F representing the worst. Level of service designation is reported differently for signalized and unsignalized intersections, as well as for roadway segments.

In the Highway Capacity Manual 6th Edition, (HCM 6), Level of Service for signalized intersections is defined in terms of delay. The level of service analysis results in seconds of delay expressed in terms of letters A through F. Delay is a measure of driver discomfort, frustration, fuel consumption, and lost travel time.

3.3.1 Signalized Intersections

For signalized intersections, LOS criteria are stated in terms of the average control delay per vehicle for a 15-minute analysis period. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay.

Table 3–1 summarizes the signalized intersections levels of service descriptions. **Table 3–2** depicts the intersection LOS and corresponding delay ranges, which are based on overall intersection delay (signalized intersections) and the average control delay for any minor movement (unsignalized intersections), respectively. LOS relative to signalized and unsignalized intersection is further described below.

Level of service A describes operations with very low delay, (i.e., less than 10.0 seconds per vehicle). This 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.

TABLE 3–1
INTERSECTION LEVEL OF SERVICE DESCRIPTIONS

Level of Service	Description
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.
В	Occurs generally with good progression and/or short cycle lengths. More vehicles stop than for LOS A, causing higher levels of average delay.
С	Results generally 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.
D	Results generally 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.
E	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.
F	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

Table 3–2
Intersection LOS & Delay Ranges

LOS	Delay (seconds/vehicle)				
LUS	Signalized Intersections	Unsignalized Intersections			
A	≤ 10.0	≤ 10.0			
В	10.1 to 20.0	10.1 to 15.0			
С	20.1 to 35.0	15.1 to 25.0			
D	35.1 to 55.0	25.1 to 35.0			
E	55.1 to 80.0	35.1 to 50.0			
F	≥ 80.1	≥ 50.1			

Source: Highway Capacity Manual 6^{th} edition

3.3.2 Unsignalized Intersections

For unsignalized intersections, LOS is determined by the computed or measured control delay and is defined for each minor movement: LOS is not defined for the intersection. Level of Service F exists when there are insufficient gaps of suitable size to allow a side street demand to safely cross through a major street traffic stream. This level of service is generally evident from extremely long control delays experienced by side-street traffic and by queuing on the minor-street approaches. The method, however, is based on a constant critical gap size; that is, the critical gap remains constant no matter how long the side-street motorist waits. LOS F may also appear in the form of side-street vehicles selecting smaller-than-usual gaps. In such cases, safety may be a problem, and some disruption to the major traffic stream may result. It is important to note that LOS F may not always result in long queues but may result in adjustments to normal gap acceptance behavior, which are more difficult to observe in the field than queuing.

3.3.3 Street Segments

Street segment analysis is based upon the comparison of daily traffic volumes (ADTs) to the Riverside County's *Roadway Classification*, *Level of Service*, *and ADT Table*. *Table* 3–3 provides segment capacities for different street classifications, based on traffic volumes and roadway characteristics.

TABLE 3–3
RIVERSIDE COUNTY
DAILY ROADWAY CAPACITY VALUES

Facility	Number	Maxim	e (ADT)	
	of Lanes	LOS C	LOS D	LOS E
Collector	2	10,400	11,700	13,000
Secondary	4	20,700	23,300	25,900
Major	4	27,300	30,700	34,100
Arterial	2	14,400	16,200	18,000
Arterial	4	28,700	32,300	35,900
Mountain Arterial (3)	2	12,900	14,500	16,100
Mountain Arterial	3	16,700	18,800	20,900
Mountain Arterial	4	29,800	33,500	37,200
Urban Arterial	4	28,700	32,300	35,900
Urban Arterial	6	43,100	48,500	53,900
Urban Arterial	8	57,400	64,600	71,800
Expressway	4	32,700	36,800	40,900
Expressway	6	49,000	55,200	61,300
Expressway	8	65,400	73,500	81,700
Freeway	4	61,200	68,900	76,500
Freeway	6	94,000	105,800	117,500
Freeway	8	128,400	144,500	160,500
Freeway	10	160,500	180,500	200,600
Ramp ⁽⁴⁾	1	16,000	18,000	20,000

Notes:

- 1. All capacity figures are based on optimum conditions and are intended as guidelines for planning purposed only.
- 2 Maximum two-way ADT values are based on the 1999 Modified Highway Capacity Manual Level of Service Tables, as defined in the Riverside County Congestion Management Program.
- 3 Two-way roadways designated as future roadways that confirm to design standards for vertical and horizontal alignment are analyzed as arterials.
- 4. Ramp capacity is given as a one-way traffic volume.

Revised: March 2001

4.0 Level of Service Impact Thresholds

The City of Wildomar is currently in the process of developing its inaugural comprehensive Mobility Element and Active Transportation Plan, as well as updated guidelines for the preparation of transportation studies. Consistent with City of Wildomar's historic practice, the County of Riverside Transportation Analysis Guidelines (December 2020) are used to analyze Level of Service (LOS) to maintain consistency with the City's General Plan. Following the implementation of Senate Bill (SB) 743 as of July 1, 2020, vehicular delay (i.e., LOS) is no longer used for CEQA impact determination.

Vehicle Miles Traveled (VMT) analysis within the City of Wildomar is addressed separately, beginning in Section 13.0 of this report.

Within the City of Wildomar, LOS D is considered acceptable for Circulation Plan roadway facilities based on the City's General Plan and the 2013 Housing Element Environmental Impact Report.

4.1 Conditions for Operational Improvements

Operational improvements would be required under the following conditions:

- 1. When existing traffic conditions exceed the General Plan target LOS.
- 2. When project traffic, when added to existing traffic, will deteriorate the LOS to below the target LOS.
- 3. When cumulative traffic exceeds the target LOS.

4.2 Improvements to Address Level of Service Deficiencies

Improvements for project level impacts should focus on providing operations that offset the project impact (e.g., achieve a "no project" level of service). Improvements could consist of signal timing improvements, lane restriping, or new lanes to study facilities.

Cumulative deficiencies should include a fair share contribution toward achieving acceptable levels of service as noted below. Alternative, if a cumulative location is included in an existing traffic impact fee program (such as TUMF), payment of those fees would constitute an appropriate contribution.

For improvements that are needed where the applicant is not solely responsible, a fair share computation should be computed and reported for each such mitigation. The fair share amount should be calculated using the following formula:

Fair share = project trips / project trips + future development trips

Trips noted above should correspond to the peak hour where the deficiency occurs for intersection assessment or daily trips for roadway segment impacts. If a project degrades operations during both peak hours, then the analysis should identify the peak hour for fair share assessment that has the highest project burden for fair share contribution.

5.0 Existing Conditions

Effective evaluation of the traffic impacts associated with the proposed Project requires an understanding of the existing transportation system within the project area.

Figure 5–1 shows an existing conditions diagram, including existing signalized intersections and lane configurations.

5.1 Existing Street Network

The following is a description of the existing street network in the study area. All existing functional classifications referenced are based on the City of Wildomar *Mobility Plan Existing Conditions Report* (June 2020)

Clinton Keith Road

Clinton Keith Road has a functional classification of 6-Lane Urban Arterial from the I-15 Southbound Ramps to Wildomar Trail with six vehicle travel lanes and a combination of striped and raised median. The existing functional classification is 4-Lane Urban Arterial from Wildomar Trail to Inland Valley Drive with four vehicle travel lanes and a raised median. Clinton Keith Road has a functional classification of a 2-Lane Collector from Inland Valley Drive to Smith Ranch Road and is currently built as a two-lane undivided roadway. Curb, gutter, and sidewalks are provided along certain parts of the roadway. Bike lanes are only provided from I-15 Northbound Ramps to Wildomar Trail on Clinton Keith Road. A bus stop is provided at intersection Clinton Keith Road/ Wildomar Trail. Within the study area, on-street parking is prohibited, and the posted speed limit is generally 35-45 mph.

Interstate 15

Interstate 15 (I-15) is a major freeway that extends northwest and southeast through Riverside County. It is located west of the proposed project site which gives access to the site via northbound and southbound on-ramps and off-ramps at Clinton Keith Road. The posted speed limit is 70 mph.

Inland Valley Drive

Inland Valley Drive has an existing functional classification of 2-Lane Collector and is currently built as a two-lane undivided road. A Two-Way Left Turn Lane (TWLTL) is provided from the Inland Valley Medical Center main (northerly) access to Prielipp Road. Bike lanes are not provided on either side of the roadway. Curb, gutter, and sidewalks are provided along certain parts of the roadway. Bus stops are provided along this roadway segment. On-street parking is permitted along certain parts of the street and the posted speed limit is 45 mph.

Prielipp Road

Prielipp Road has a functional classification of 2-Lane Collector and is currently built as a two-lane undivided roadway from Inland Valley Drive to the City Limit. Bike lanes are not provided on either side of the roadway. Bus stops are provided along this roadway segment. Curb, gutter, and sidewalks are provided along both curbs. On-street parking is permitted, and the posted speed limit is 40 mph.

Bicycle, pedestrian, and Transportation Review.	transit	conditions	are	described	in	more	detail	in	Section	11.0,	Active

5.2 Existing Traffic Volumes

Table 5–1 is a summary of the most recent available average daily traffic volumes (ADTs) collected in September 2019 for the City of Wildomar *Mobility Plan Existing Conditions Report* (June 2020). LLG commissioned additional traffic counts in the study area during November 2020 which confirmed that local traffic volumes remain between 8-15% lower than 2019 due to the ongoing COVID-19 pandemic. As such, the 2019 traffic volumes are used as the existing baseline for analysis in this report.

Peak hour traffic counts at the study area intersections were supplemented with additional data from the *Wildomar Campus Master Plan Draft Traffic Study* (September 2016) as part of the *I-15 Corridor Campus Master Plan EIR* (August 2017) for the Mt. San Jacinto Community College District. Peak hour traffic counts at two (2) intersections not included in the City *Existing Conditions Report* were obtained from this report. These counts were conducted in May 2016. As such, a growth rate of 2% per year was applied for a period of three (3) years to adjust these counts to the Year 2019 baseline, with minor volume balancing between closely spaced intersections applied.

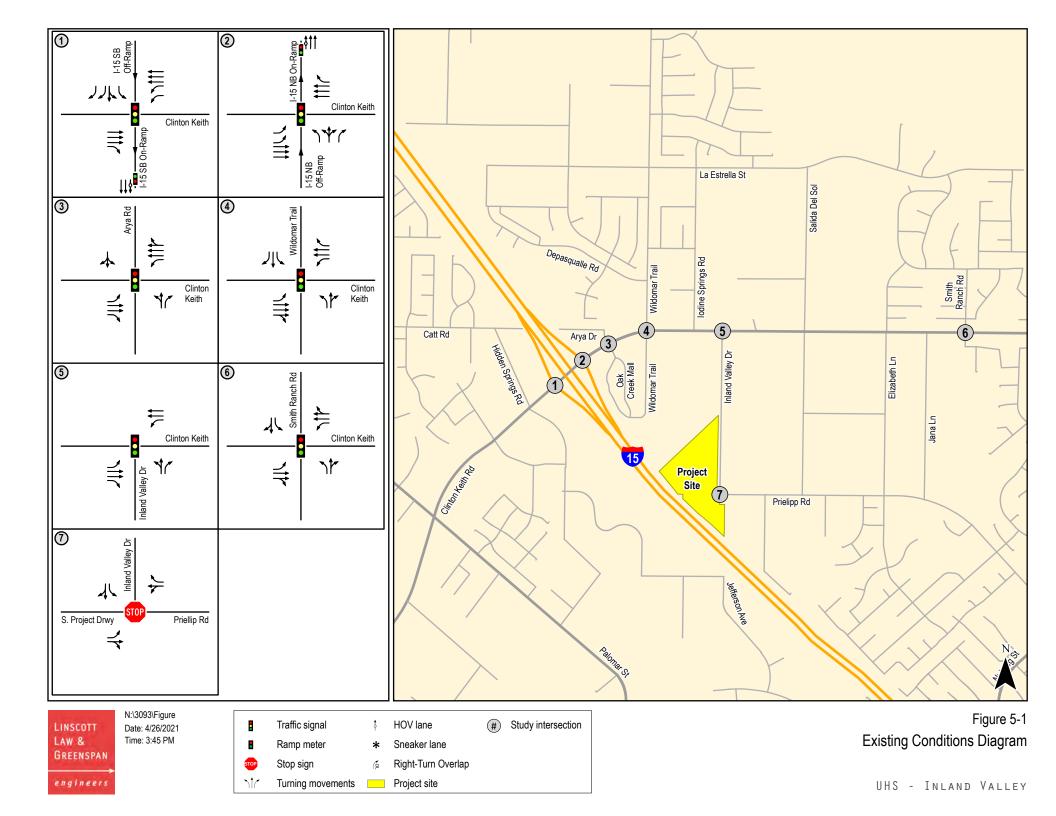
Figure 5–2 depicts the Existing Traffic Volumes. Appendix A contains the manual count sheets.

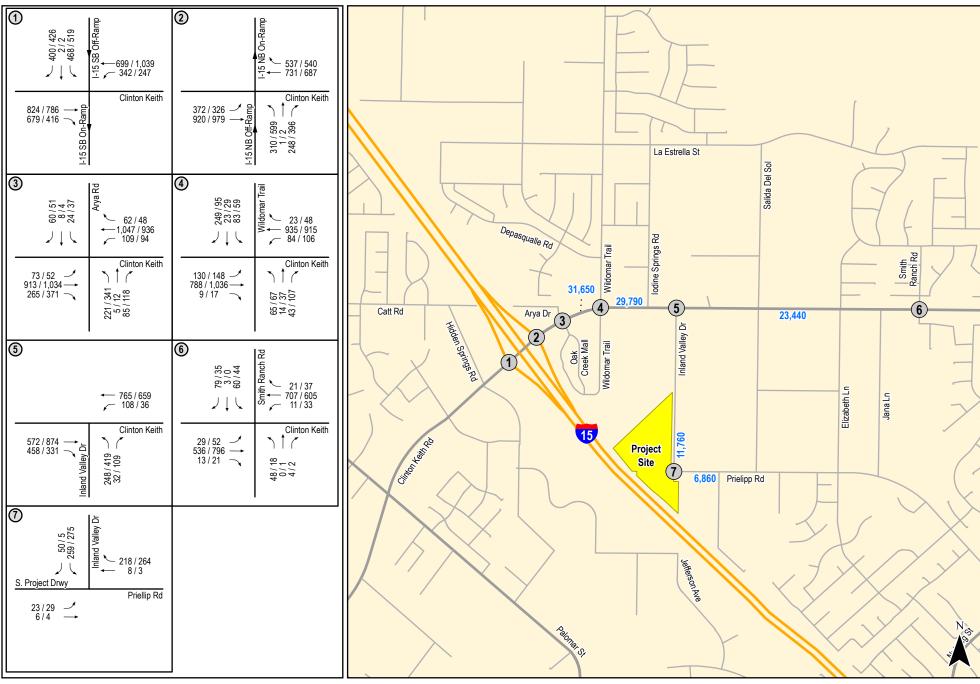
TABLE 5–1
EXISTING TRAFFIC VOLUMES

Street	t Segment	ADT ^a
Clinto	on Keith Road	
1.	Arya Road to Wildomar Trail	31,650
2.	Wildomar Trail to Inland Valley Drive	29,790
3.	Inland Valley Drive to Smith Ranch Road	23,440
Inlan	d Valley Drive	
4.	Clinton Keith Road to Prielipp Road	11,760
Prieli	pp Road	
5.	East of Inland Valley Drive	6,860

Footnotes:

a. Average Daily Traffic Volumes.





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Study Intersections

Intersection AM/PM Peak Hour Volumes

x,xxx Average Daily Traffic (ADT)

Figure 5-2 Existing Traffic Volumes

6.0 ANALYSIS OF EXISTING CONDITIONS

6.1 Peak Hour Intersection Levels of Service

Table 6–1 summarizes the Existing peak hour intersection operations. As seen in *Table 6–1*, all intersections are calculated to operate at acceptable LOS C or better.

Appendix B provides the Existing peak hour intersection analysis worksheets.

Table 6–1
Existing Intersection Operations

Int	ersection	Control Type	Peak Hour	Delaya	LOSb
1.	I-15 Southbound Ramps / Clinton Keith Road	Signal	AM PM	24.7 20.0	C B
2.	I-15 Northbound Ramps / Clinton Keith Road	Signal	AM PM	20.3 24.5	C C
3.	Clinton Keith Road / Arya Road	Signal	AM PM	28.0 28.4	C C
4.	Clinton Keith Road / Wildomar Trail	Signal	AM PM	14.8 12.5	B B
5.	Clinton Keith Road / Inland Valley Drive	Signal	AM PM	13.0 15.6	B B
6.	Clinton Keith Road / Smith Ranch Road	Signal	AM PM	16.0 14.6	B B
7.	Inland Valley Drive / Prielipp Road	AWSC°	AM PM	11.1 12.8	B B

Footnotes:

SIGNALIZ	ED	UNSIGNALIZED			
Delay	LOS	Delay	LOS		
$0.0 \le 10.0$	A	$0.0 \le 10.0$	A		
10.1 to 20.0	В	10.1 to 15.0	В		
20.1 to 35.0	C	15.1 to 25.0	C		
35.1 to 55.0	D	25.1 to 35.0	D		
55.1 to 80.0	E	35.1 to 50.0	E		
≥ 80.1	F	≥ 50.1	F		

a. Average delay expressed in seconds per vehicle.

b. Level of Service.

c. AWSC – All-Way Stop Controlled intersection. Average delay is reported.

6.2 Daily Street Segment Levels of Service

Table 6–2 summarizes the Existing segment operations. As seen in *Table 6–2*, all study area segments are calculated to currently operate at LOS D or better except the following:

- Segment #3. Clinton Keith Road: Inland Valley Drive to Smith Ranch Road LOS F
- Segment #4. Inland Valley Drive: Clinton Keith Road to Prielipp Road LOS E

TABLE 6–2
EXISTING STREET SEGMENT OPERATIONS

Street Segment		Classification	Capacity (LOS E) ^a	ADT b	LOSc	V/C d	LOS Threshold Exceeded?	
Clinton Keith Road								
1.	Arya Road to Wildomar Trail	6-lane Urban Arterial	53,900	31,650	A	0.587	No	
2.	Wildomar Trail to Inland Valley Drive	4-lane Urban Arterial	35,900	29,790	D	0.830	No	
3.	Inland Valley Drive to Smith Ranch Road	2-lane Collector	13,000	23,440	F	1.803	Yes	
Inl	and Valley Drive							
4.	Clinton Keith Road to Prielipp Road	2-lane Collector	13,000	11,760	Е	0.905	Yes	
Prielipp Road								
5.	East of Inland Valley Drive	2-lane Collector	13,000	6,860	A	0.528	No	

Footnotes:

a. Capacities based on Riverside County Roadway Classification Table.

b. Average Daily Traffic Volumes.

c. Level of Service.

d. Volume to Capacity.

7.0 PROJECT TRIP GENERATION/DISTRIBUTION/ASSIGNMENT

7.1 Trip Generation

The trip generation rates for the "Hospital" land use from the *Institute of Transportation Engineer Trip Generation Manual*, 10th Edition were used to develop the trip generation for the proposed project.

According to ITE, hospital trip generation is calculated based on the number of patient beds. As noted in *Section 2.2*, the project will expand the existing Inland Valley Medical Center with a new addition to the hospital that includes expansion of all services and critical ancillary support for 100 new patient beds, while 18 beds in existing facilities will be removed, a net increase of 82 beds bringing the campus total to 202 beds.

Table 7–1 tabulates the total project traffic generation. The total project is calculated to generate approximately 1,830 ADT with 149 AM peak hour trips (107 inbound / 42 outbound) and 155 PM peak hour trips (43 inbound / 112 outbound).

TABLE 7–1
PROJECT TRIP GENERATION

	Quantity	Daily Trip Ends (ADT) ^a		AM Peak Hour				PM Peak Hour					
Land Use					In:Out	Volume				In:Out	Volume		
		Rate ^b	Volume	Rate	Split	In	Out	Total	Rate	Split	In	Out	Total
Proposed Uses													
Hospital (ITE 610)	100 beds	22.32 /bed	2,232	1.84	72:28	131	51	182	1.89	28:72	53	136	189
Existing Uses to be removed													
Hospital (ITE 610)	18 beds	22.32 /bed	402	1.84	72:28	24	9	33	1.89	28:72	10	24	34
Net Trips	_	_	1,830	_	_	107	42	149	_	_	43	112	155

Footnotes:

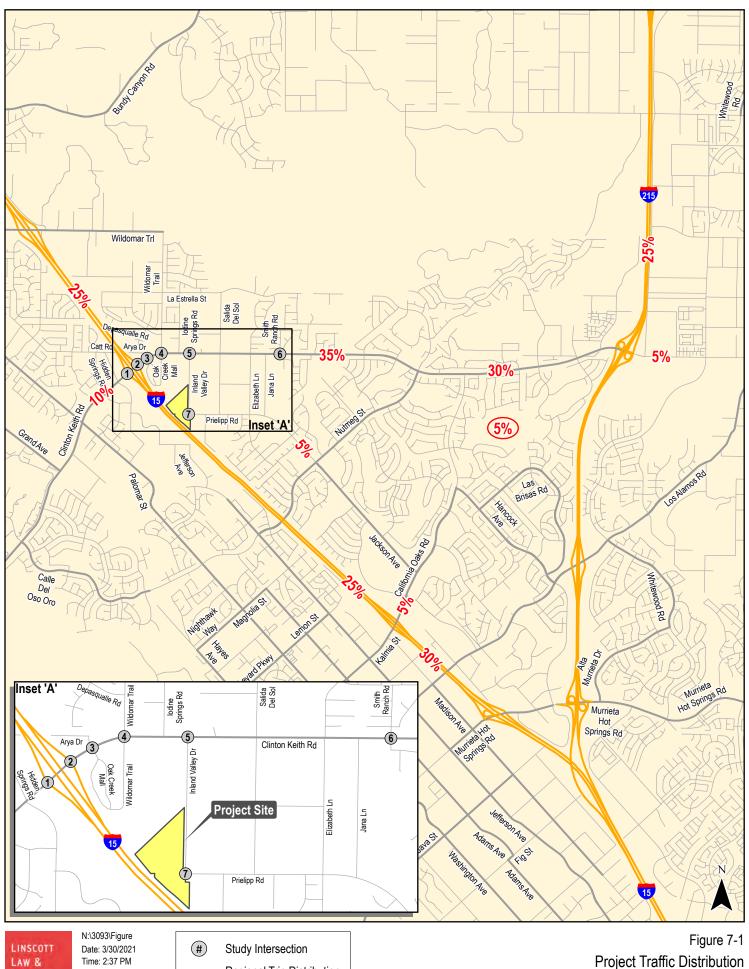
7.2 Trip Distribution and Assignment

Trip distribution is the process of determining traffic percentage splits on the regional and local roadway network. Trip distribution for the project was based upon the existing traffic patterns, the land use characteristics of the project, the roadway network and the general location of other land uses to which project trips would originate or terminate.

Figure 7–1 depicts the Project Trip Distribution and Figure 7–2 depicts the Project Trip Assignment.

a. ADT = Average Daily Traffic.

b. Trip rates from Institute of Transportation Engineers Trip Generation Manual, 10th Ed.



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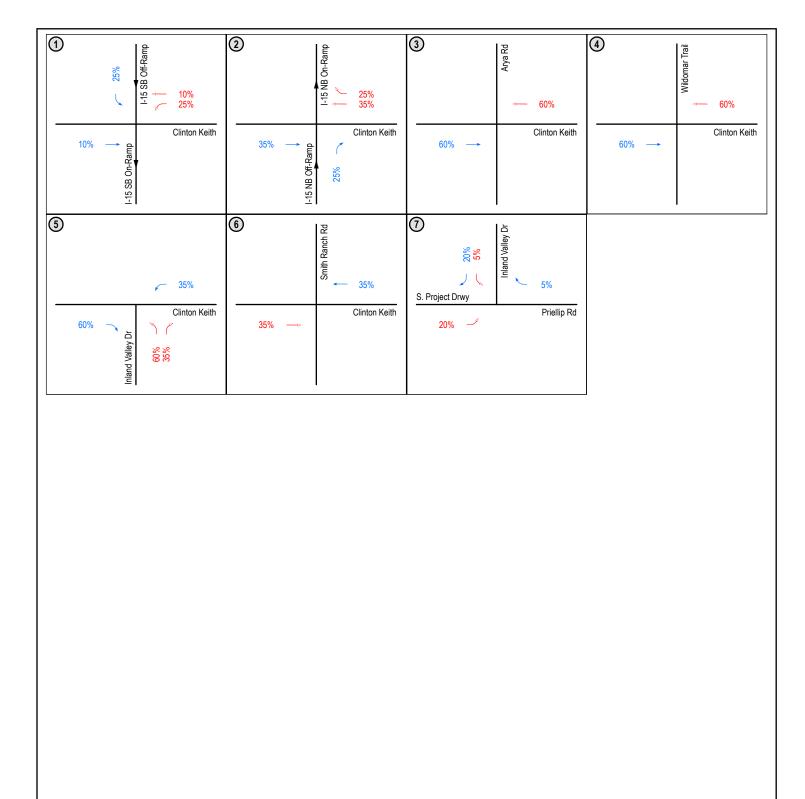
XX %

Regional Trip Distribution

(x %)

Local Trip Distribution

Project Traffic Distribution (Page 1 of 2)





Study Intersection

Time: 3:46 PM



Inbound Trip Distribution



Outbound Trip Distribution



Figure 7-1 Project Traffic Distribution (Page 2 of 2)



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Study Intersections

 $\uparrow \uparrow
ightharpoonup$ Intersection AM/PM Peak Hour Volumes

x,xxx Average Daily Traffic (ADT)

Figure 7-2 Project Traffic Volumes

8.0 Near-Term Opening Year 2026 and Cumulative Projects Conditions

8.1 Cumulative Projects

Cumulative projects are other projects in the study area that will add traffic to the local circulation system in the near future. LLG coordinated with City of Wildomar staff to identify relevant, pending cumulative projects in the study area that could be constructed and generating traffic in the study area vicinity by the time of project opening. Based on this research, ten (10) cumulative projects were identified nearby that would add traffic to study area intersections and street segments.

- 1. Oak Springs Ranch Phase 2 is a proposed project to develop a 288-unit apartment project on the southwesterly vacant portion of the Oak Springs Ranch Specific Plan located at the southwest corner of Inland Valley Drive and Clinton Keith Road. The project is currently under review.
- 2. Wildomar Ridge Residential is an approved project to develop 77 single family detached and attached residences. The project site is located east of Wildomar Trail and north of Clinton Keith Road. The project was approved on 2/8/2017.
- 3. Westpark Promenade is an approved mixed-use project to develop 118,354 square feet of commercial retail and 191 for-sale townhomes/condos. The project site located north of Arya Road. The project was approved on 12/14/2016.
- 4. Villa Sienna Apartments is an approved project for the development of 170 multi-family apartment units. The project site is located north of Prielipp Road between Elizabeth Lane and Jana Lane. The project was approved on 11/12/2015.
- 5. Grove Park Mixed Use is an approved project to develop a 50,000 square foot retail center and a 162-unit multi-family apartment project. The project site is located southwest of Salida Del Sol and Clinton Keith Road. The project was approved on 2/10/2016.
- 6. Horizons Mixed Use is an approved project to develop an 86-unit assisted living facility and a 138-unit multi-family townhome/condominium project. The project site is located north of Prielipp Road and west of Elizabeth Lane. The project was approved on 2/10/2016.
- 7. Rancon Medical & Retail Center is an approved project for the development of 96,240 square feet of medical, office, and retail uses. The project site is located southwest of Clinton Keith Road and Elizabeth Lane. The project was approved on 10/1/2014.
- 8. Clinton Keith Village Retail Center is an approved project to develop a 40,000 square foot commercial retail center, including a 7-Eleven gas station with alcohol sales. The project site is located on the northeast corner of Wildomar Trail and Clinton Keith Road. As of December 2020, the project is under construction.
- 9. Smith Ranch Self Storage is an approved project to develop a 150,000 square foot self-storage facility with RV parking and 10,000 square foot office building. The project site is located on the southwest corner of Smith Ranch Road and Clinton Keith Road. As of December 2020, the project is under construction.

10. Mt. San Jacinto Community College District is proposing a staged construction program for the new I-15 Corridor Campus of Mt. San Jacinto College (MSJC). The project site is northeast of Clinton Keith Road and Salida del Sol in the City of Wildomar on a vacant 78.32-acre parcel. The campus would accommodate approximately 15,000 part-time or 10,000 full-time equivalent (FTE) students at ultimate build-out, expected between Year 2035 through 2038, depending on enrollment demand and funding availability. Approximately 400 staff would also be employed at full build-out.

The MSJC project has an opening year of 2022. Phase II of construction, which will serve up to 2,800 FTE students is anticipated to occur between Years 2024 through 2027. Therefore, the Project Opening Year 2026, MSJC Phase II traffic is assumed. MSJC Phase II is calculated to generate 3,444 ADT with 336 AM peak hour trips (280 in/ 56 out) and 336 PM peak hour trips (224 in/ 112 out).

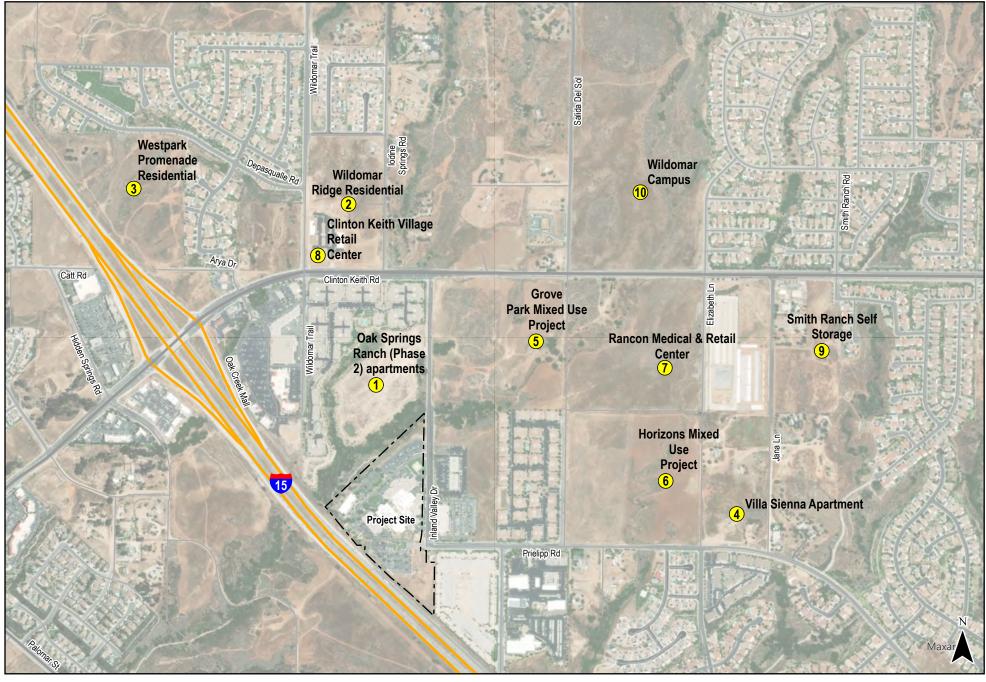
Remaining cumulative development and ambient growth in the Project study area was accounted for with a 2% annual growth rate. The 2% growth rate was applied to existing Year 2020 traffic data for a period of six years to reach Opening Year 2026. Traffic generated by the identified cumulative project was added to develop Near-Term Opening Year 2026 conditions.

Figure 8–1 depicts the Cumulative Projects Location Map.

Figure 8–2 and *Figure 8–3* depict the Near-Term Opening Year 2026 Traffic Volumes without and with the Project, respectively.

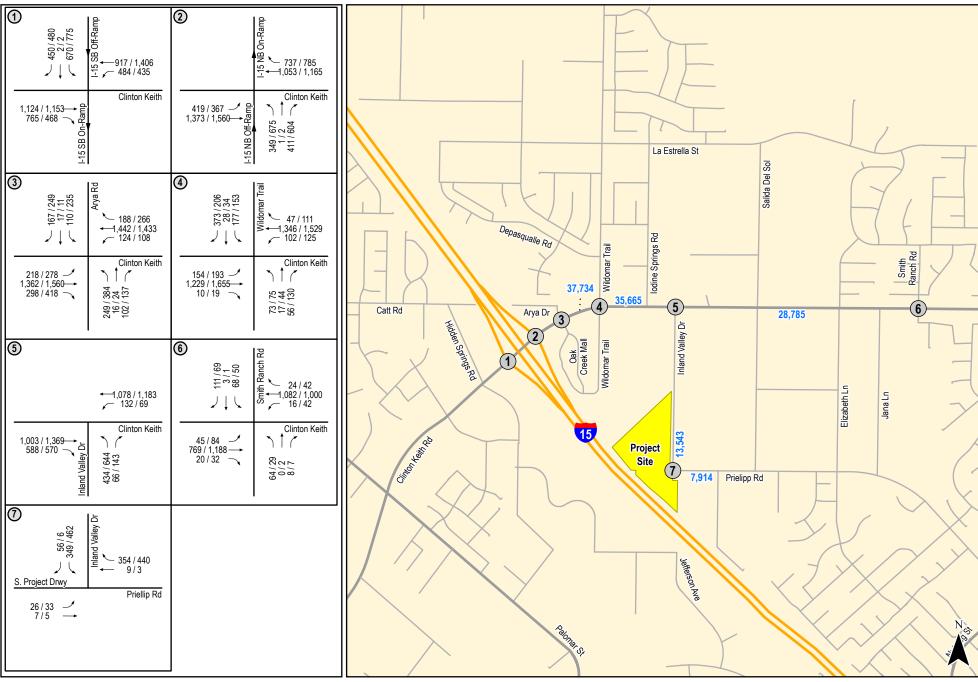
8.2 Roadway Conditions

The City of Wildomar Capital Improvement Program (CIP) includes the ultimate widening of Clinton Keith Road (CIP No. 025-1). Phase 1 of this project, which will provide four lanes of traffic and bike lanes between Wildomar Trail to the east City limits, is funded with construction imminent and anticipated to be complete prior to Opening Year 2026. This improvement is therefore assumed in Near-Term Opening Year 2026 conditions.



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N:\3093\Figure Date: 4/26/2021 Time: 4:22 PM Figure 8-1 Cumulative Project Location Map



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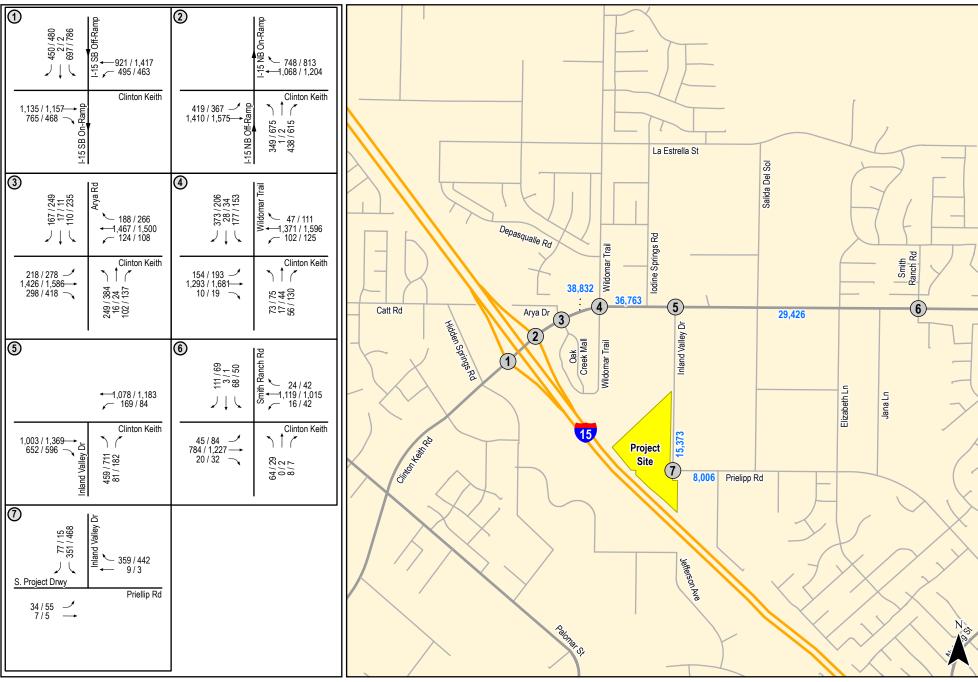
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Study Intersections

Intersection AM/PM Peak Hour Volumes

x,xxx Average Daily Traffic (ADT)

Figure 8-2 Near-Term Opening Year 2026 Traffic Volumes



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Study Intersections

↑ Intersection AM/PM Peak Hour Volumes

x,xxx Average Daily Traffic (ADT)

Figure 8-3
Near-Term Opening Year 2026 + Project Traffic Volumes

9.0 Analysis of Near-Term Opening Year 2026 Scenarios

9.1 Near-Term Opening Year 2026

9.1.1 Intersection Analysis

Table 9–1 summarizes the Near-Term Opening Year 2026 peak hour intersection operations. According to this table, all intersections are calculated to operate at LOS D or better during AM/PM peak hours except the following:

Intersection #3. Clinton Keith Road / Arya Road (LOS E during the PM peak hour)

Appendix C provides the Near-Term Opening Year 2026 peak hour intersection analysis worksheets.

9.1.2 Segment Operations

Table 9–2 summarizes the Near-Term Opening Year 2026 segment operations. Based on this table, all study area segments are calculated to continue to operate at LOS D or better except the following:

- Segment #2. Clinton Keith Road: Wildomar Trail to Inland Valley Drive LOS E
- Segment #3. Clinton Keith Road: Inland Valley Drive to Smith Ranch Road LOS F
- Segment #4. Inland Valley Drive: Clinton Keith Road to Prielipp Road LOS F

9.2 Near-Term Opening Year 2026 + Project

9.2.1 Intersection Analysis

Table 9–1 summarizes the Near-Term Opening Year 2026 + Project peak hour intersection operations. Based on this table, with the addition of project traffic volumes all intersections are calculated to continue to operate at LOS D or better except the following:

Intersection #3. Clinton Keith Road / Arya Road (LOS E during the PM peak hour)

Using the City's applied LOS impact threshold, the project is not required to identify improvements at this intersection as the project-related increase in delay is less than the established threshold of 5.0 seconds.

Appendix D provides the Near-Term Opening Year 2026 peak hour intersection analysis worksheets.

9.2.2 Segment Operations

Table 9–2 summarizes the Near-Term Opening Year 2026 + Project segment operations. As seen in *Table 9–2*, with the addition of project traffic, all study area segments are calculated to continue to operate at LOS D or better except the following:

- Segment #2. Clinton Keith Road: Wildomar Trail to Inland Valley Drive LOS F
- Segment #3. Clinton Keith Road: Inland Valley Drive to Smith Ranch Road LOS F
- Segment #4. Inland Valley Drive: Clinton Keith Road to Prielipp Road LOS F

Using the City's applied LOS impact threshold, the project should identify improvements for the one (1) deficient segment of Inland Valley Drive **bolded** and <u>underlined</u> above, as the project adds traffic in excess of 5% of the roadway capacity (e.g., a volume-to-capacity ratio increase of 0.05). See *Section 12.0* for a discussion of recommended improvements.

Table 9–1
Near-Term Opening Year 2026 Intersection Operations

	Intersection	ction Control		Exis	ting	Near-' Opening Y		Near-T Opening Yo Proj	ear 2026 +	A ^c	LOS Threshold Exceeded?
				Delay ^a	LOS b	Delay	LOS	Delay	LOS		Exceeded:
1.	I-15 Southbound Ramps /	Cional	AM	24.7	С	47.8	D	50.4	D	2.6	No
	Clinton Keith Road	Signal	PM	20.0	В	30.7	C	31.4	C	0.7	No
2.	I-15 Northbound Ramps /	Signal	AM	20.3	C	24.7	C	26.2	C	1.5	No
	Clinton Keith Road	Signai	PM	24.5	C	43.2	D	47.3	D	4.1	No
3.	Clinton Keith Road / Arya	Signal	AM	28.0	C	>100.0	F	>100.0	F	0.4	Yes
	Road	2181111	PM	28.4	C	>100.0	F	>100.0	F	0.4	Yes
4.	Clinton Keith Road / Wildomar Trail	Signal	AM	14.8	В	18.9	В	18.9	В	0.0	No
	Wildomai Iran		PM	12.5	В	44.5	D	50.7	D	6.2	No
5.	Clinton Keith Road /	Signal	AM	13.0	В	19.7	В	25.9	C	6.2	No
	Inland Valley Drive	Signai	PM	15.6	В	36.4	D	44.8	D	8.4	No
6.	Clinton Keith / Smith	Signal	AM	16.0	В	24.5	С	26.3	C	1.8	No
	Ranch Road	2.5	PM	14.6	В	25.7	С	27.5	C	1.8	No

Continued on Next Page

TABLE 9-1 NEAR-TERM OPENING YEAR 2026 INTERSECTION OPERATIONS

Intersection	Control Type	Peak Hour	Exis	sting		Term Year 2026	Near-1 Opening Yo Proj	ear 2026 +	Λ ^c	LOS Threshold Exceeded?
	-3P		Delay ^a	LOS b	Delay	LOS	Delay	LOS		Exceeded:
			Ca	ontinued from I	Previous Page					
7. Inland Valley Drive /	AWSC d	AM	11.1	В	15.2	С	15.5	С	0.3	No
Prielipp Road	AWSC	PM	12.8	В	29.0	D	31.6	D	2.6	No

Footnotes:

- a. Average delay expressed in seconds per vehicle.
- b. Level of Service.
- c. Increase in delay due to Project Traffic.
 d. AWSC All-Way Stop Controlled intersection. Average delay is reported.

SIGNALIZ	ED	UNSIGNALIZED				
Delay	LOS	Delay	LOS			
$0.0 \le 10.0$	A	$0.0 \le 10.0$	A			
10.1 to 20.0	В	10.1 to 15.0	В			
20.1 to 35.0	C	15.1 to 25.0	C			
35.1 to 55.0	D	25.1 to 35.0	D			
55.1 to 80.0	E	35.1 to 50.0	E			
≥ 80.1	F	≥ 50.1	F			

Table 9–2
Near-Term Opening Year 2026 Street Segment Operations

Street Segment	Capacity			Near- Opening Y		26	Openin	Near-Term Opening Year 2026 + Project		$\Delta^{ m e}$	LOS Threshold	
	(LOS E) a	ADT b	LOS	V/C d	ADT	LOS	V/C	ADT	LOS	V/C		Exceeded?
Clinton Keith Road												
1. Arya Road to Wildomar Trail	53,900	31,650	A	0.587	48,991	Е	0.909	50,089	E	0.929	0.020	Yes
2. Wildomar Trail to Inland Valley Drive	35,900	29,790	D	0.830	46,380	F	1.292	47,478	F	1.323	0.031	Yes
3. Inland Valley Drive to Smith Ranch Road ^f	13,000 (35,900)	23,440	F	1.803	36,015	F	1.385	36,656	F	1.021	0.018	Yes
Inland Valley Drive												
4. Clinton Keith Road to Prielipp Road	13,000	11,760	Е	0.905	18,003	F	1.385	19,833	F	1.526	0.141	Yes
Prielipp Road												
5. East of Inland Valley Drive	13,000	6,860	A	0.528	11,023	D	0.848	1 1,115	D	0.855	0.007	No

Footnotes:

- a. Capacities based on Riverside County Roadway Classification Table.
- b. Average Daily Traffic Volumes.
- c. Level of Service.
- d. Volume to Capacity ratio.
- e. Increase in V/C ratio due to Project traffic.
- f. Clinton Keith Road Phase 1 Widening assumed complete in Near-Term Opening Year 2026 conditions. Improved capacity shown in parentheses.

General Notes:

■ **BOLD** and **SHADING** indicate LOS threshold exceeded and the need for improvements.

10.0 SITE ACCESS REVIEW

10.1 Existing Site Access

Currently, primary access to the site for patients and visitors is via an unsignalized driveway located at the northern end of the site. Employee parking is located at the south end of the site, with this driveway forming the west leg of the all-way stop controlled intersection of Inland Valley Drive / Prielipp Road. Three other unsignalized secondary driveways are provided along Inland Valley Drive for ambulances, surgery center pick-up/drop-off, and service loading/drop-off.

10.2 Proposed Site Access

The project proposes to consolidate the several secondary access points between the northern end of the site and Prielipp Road. At project buildout the northern access point will serve all non-emergency patient, visitor, and staff entry and drop-off. The driveway at the southern access point opposite Prielipp Road will serve emergency entry and drop-off, including ambulance and walk-in patients, as well as service loading/drop-off. Existing driveways between these two locations will be closed.

Figure 10–1 illustrates existing conditions at the Project driveways. *Figure 10–2* shows Existing + Project traffic volumes and *Figure 10–3* shows Near-Term Opening Year 2026 with Project traffic volumes.

Table 10–1 shows the calculated levels of service at Project access points under Near-Term Opening Year 2026 as well as Existing traffic conditions with the addition of the Project. As shown in *Table 10–1*, both driveways are calculated to operate at LOS D or better under Existing + Project conditions. With the addition of ambient growth plus cumulative projects the northern driveway is calculated to operate at a deficient LOS in both peak hours. Inland Valley Drive / Prielipp Road continues to operate at acceptable LOS D or better.

Appendix E contains the site access intersection analysis worksheets.

Table 10–1
Project Access Intersection Operations

Intersection	Control Type	Peak Hour	Existing +	Project	Near-Term Opening Year 2026 + Project		
	71	Delay a LOS b			Delay	LOS	
A. Inland Valley Drive /	MCCCC	AM	26.4	D	41.6	Е	
N. Project Driveway		MSSC PM	33.7	D	>100.0	F	
B. Inland Valley Drive /	AWSC d	AM	11.0	В	16.2	C	
Prielipp Road	AWSC	PM	11.6	В	25.8	D	

Footnotes:

- a. Average delay expressed in seconds per vehicle.
- b. Level of Service
- Minor Street Stop-Controlled intersection. Minor street left-turn delay reported.
- d. All-Way Stop-Controlled intersection. Average delay reported.

UNSIGNALIZED								
DELAY/LOS THRESHOLDS								
Delay	LOS							
$0.0 \le 10.0$	A							
10.1 to 15.0	В							
15.1 to 25.0	C							
25.1 to 35.0	D							
35.1 to 50.0	E							
≥ 50.1	F							

10.3 Traffic Signal Warrants

Based on the analysis of both project access intersections as shown in *Table 10–1*, Inland Valley Drive / Prielipp Road is calculated to operate at LOS D or better in near-term with Project conditions. The northern project driveway is calculated to operate at LOS D with the addition of Project traffic to existing conditions; however, with the addition of ambient growth and cumulative projects the driveway operations would degrade to LOS E or F.

Traffic signal warrant analysis has been completed to determine if a signal would be warranted at either location under future conditions. Warrants were prepared separately for the Existing + Project and Near-Term Opening Year 2026 with Project scenarios. As outlined in Chapter 4C, "Traffic Control Signal Needs Studies," of the 2014 California Manual on Uniform Traffic Control Devices (California MUTCD), the peak hour warrant (Warrant 3) was analyzed for the two (2) subject project access points to determine if a traffic signal would be warranted under the Near-Term Opening Year 2026 + Project conditions.

The lane configurations at the north project driveway at Inland Valley Drive are as follows:

- Inland Valley Drive (southbound): 1 shared thru/right-turn lane; 1 left-turn lane (two-way left-turn lane)
- KB Home Driveway (westbound): 1 shared left/thru/right-turn lane
- Inland Valley Drive (northbound): 1 shared thru/right-turn lane; 1 left-turn lane (two-way left-turn lane)
- Inland Valley Medical Center North Driveway: 1 shared left/thru/right-turn lane

Inland Valley Drive (northbound / southbound) is the major street at this location.

The lane configurations at Inland Valley Drive / Prielipp Road are as follows:

- Inland Valley Drive (southbound): 1 right-turn lane; 1 shared thru/left-turn lane
- Prielipp Road (westbound): 1 shared left/thru lane; 1 right-turn lane
- Inland Valley Medical Center South Driveway: 1 shared thru/right-turn lane; 1 left-turn lane

The major street turns at this intersection. Inland Valley Drive (southbound) and Prielipp Road (westbound) are the major street approaches.

Warrant 3 consists of two categories. The need for a traffic shall be considered if the criteria in either of the two categories are met. Category A requires three (3) conditions to be met for the same one (1) hour of an average day: 1) minor street delay exceeding four (4) vehicle-hours, 2) minor street volume exceeding 100 vehicles per hour, and 3) total entering volume at the intersection exceeding 800 vehicles. Category B plots the AM and PM entering volumes on a linear graphic (Figure 4C-4 of the MUTCD) to determine if the volumes exceed the allowable thresholds. For the signal warrant to be met, either Category A or B must be satisfied.

Table 10–2a & 10–2b below illustrate the two categories and summarize results for the Inland Valley Drive / N. Project Driveway intersection under both scenarios. Similarly, *Table 10–3a & 10–3b* provide results for Inland Valley Drive / Prielipp Road.

Appendix F contains the complete details of the warrant analysis including Figure 4C-4.

As shown in the tables below, neither Category A nor Category B are satisfied at Inland Valley Drive / N. Project Driveway under the Existing + Project scenario. With the addition of growth and cumulative projects, both Category A and Category B are satisfied under the Near-Term Opening Year 2026 with Project scenario.

At Inland Valley Drive / Prielipp Road, neither Category A nor Category B are satisfied under either scenario.

Table 10–2a Warrant 3: Peak Hour – Existing + Project Inland Valley Drive / N. Project Driveway

Warrant 3 – Peak Hour	Categ	ory A <u>or</u> (Category B Satisfied *	No 🗸		
Category A (All Parts 1, 2, and 3 below must be	Satisfied *	Yes	No 🗸			
The total delay experien controlled by a STOP significant approach and and an annual and annual	four vehicle-hours for a	Yes	No 🗸			
2. The volume on the same vph for one moving lane AND	-	Yes 🗸	No			
3. The entering volume ser vph for the intersections per hour for intersections	with four o	r more ap	proaches or 650 vehicles	Yes	No	
<u>Category B</u>			Satisfied *	Yes	No 🗸	
Approach Lanes	One	Two	Warrant Volume	AM	PM	
Both Approaches -Major Street	X		See Figure 4C-4 below	876	784	
Highest Approach -Minor Street	X		See Figure 4C-4 below	65	172	
The plotted point falls above the app	ure 4C-4.	Yes	No ✓			

Table 10–2B Warrant 3: Peak Hour – Year 2026 With Project Inland Valley Drive / N. Project Driveway

Warrant 3 – Peak Hour	Categ	ory A <u>or</u> (Category B Satisfied *	Yes	✓	No			
Category A (All Parts 1, 2, and 3 below must be	satisfied)		Satisfied *	Yes	✓	No			
controlled by a STOP sig	controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach and five vehicle-hours for a two-lane approach;								
2. The volume on the same vph for one moving lane AND		Yes	✓	No					
3. The entering volume ser vph for the intersections per hour for intersections	with four o	or more ap	proaches or 650 vehicles	Yes	✓	No			
<u>Category B</u>			Satisfied *	Yes	✓	No			
Approach Lanes	One	Two	Warrant Volume	AM		PM			
Both Approaches -Major Street	X		See Figure 4C-4 below	1,140		1,169			
Highest Approach -Minor Street	See Figure 4C-4 below	70		183					
The plotted point falls above the applicable curve on Figure 4C-4. Yes ✓ No									

Table 10–3a Warrant 3: Peak Hour – Existing + Project Inland Valley Drive / Prielipp Road

Warrant 3 – Peak Hour	Categ	ory A <u>or</u> (Category B Satisfied *	Yes	No ✓				
Category A (All Parts 1, 2, and 3 below must be	satisfied)		Satisfied *	Yes	No 🗸				
The total delay experien controlled by a STOP sig one-lane approach and a AND	gn equals o	or exceeds	four vehicle-hours for a	Yes	No 🗸				
	vph for one moving lane of traffic or 150 vph for two moving lanes;								
3. The entering volume ser vph for the intersections per hour for intersections	with four o	or more ap	proaches or 650 vehicles	Yes	No 🗸				
<u>Category B</u>		Satisfied *	Yes	No 🗸					
Approach Lanes	One	Two	Warrant Volume	AM	PM				
Both Approaches -Major Street		See Figure 4C-4 below	563	564					
Highest Approach -Minor Street	X		See Figure 4C-4 below	37	55				
The plotted point falls above the app	Yes	No ✓							

TABLE 10–3B WARRANT 3: PEAK HOUR – YEAR 2026 WITH PROJECT INLAND VALLEY DRIVE / PRIELIPP ROAD

Warran	t 3 – Peak Hour	Catego	ory A <u>or</u> C	Category B Satisfied *	Yes		No	✓
Categor (All Parts	y A s 1, 2, and 3 below must be s	Satisfied *	Yes		No	✓		
1.	The total delay experienc controlled by a STOP sign one-lane approach and fi AND	four vehicle-hours for a	Yes		No	✓		
2.	The volume on the same-ruph for one moving lane AND	-	Yes		No	✓		
3.	The entering volume serv vph for the intersections w per hour for intersections	proaches or 650 vehicles	Yes	✓	No			
Category B				Satisfied *	Yes		No	✓
	Approach Lanes	One	Two	Warrant Volume	AM		PM	
Both Approaches -Major Street				See Figure 4C-4 below	796		928	
Highest A	Approach -Minor Street	See Figure 4C-4 below	41		60			
The plott	ed point falls above the appl	are 4C-4.	Yes		No	✓		

10.4 Recommended Site Access Improvements

As shown in *Sections 10.2* and *10.3*, the Project's northern driveway on Inland Valley Drive is calculated to deteriorate from acceptable operations under Existing + Project conditions to unacceptable operations with the addition of ambient growth and cumulative projects under Near-Term Opening Year 2026 with Project conditions.

Signal warrants would not be met for Existing + Project conditions but would be satisfied for Near-Term Opening Year 2026 with Project conditions. Per the MUTCD, the satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal. However, no other improvements within the existing right-of-way and intersection control were identified that would provide acceptable LOS at this intersection.

Because the deficient LOS at this location occurs only with the addition of cumulative projects traffic, a fair share contribution toward the construction of a signal is appropriate. The Project's proportionate fair share toward signalization of this intersection is 31.3% according to the County of Riverside fair share formula. Fair share calculations for all applicable locations are provided in *Section 12.3* of this

report. Post-signalization intersection operations are shown in *Table 10–4*. As shown, the driveway would operate at LOS B or better during peak hours following signalization.

Appendix E also contains the post-improvement site access intersection analysis worksheets.

Table 10–4
Post-Improvement Project Access Intersection Operations

Intersection	Control Peak		Near-Term Opening Year 2026 + Project			
	Type	Hour	Delay ^a	LOS b		
A. Inland Valley Drive /	Signal	AM PM	8.7	A		
N. Project Driveway	Ü	PM	10.8	В		

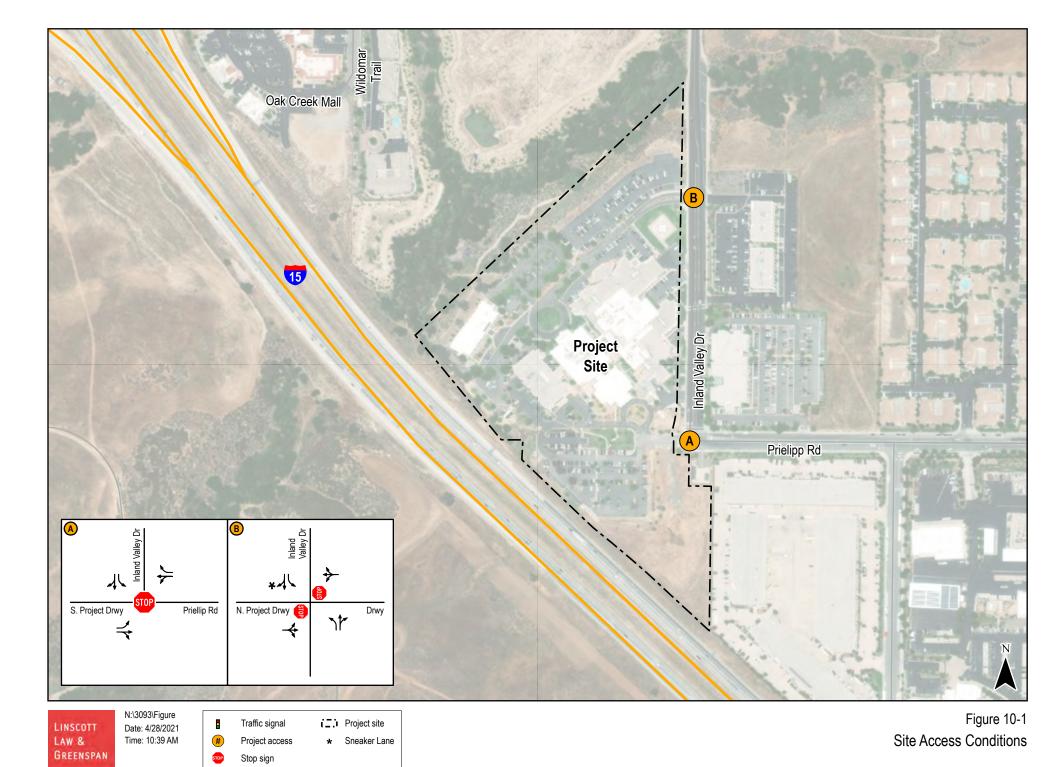
Footnotes:

- a. Average delay expressed in seconds per vehicle.
- b. Level of Service

SIGNALIZED								
DELAY/LOS THRESHOLDS								
Delay	LOS							
$0.0 \le 10.0$	A							
10.1 to 20.0	В							
20.1 to 35.0	C							
35.1 to 55.0	D							
55.1 to 80.0	E							
≥ 80.1	F							

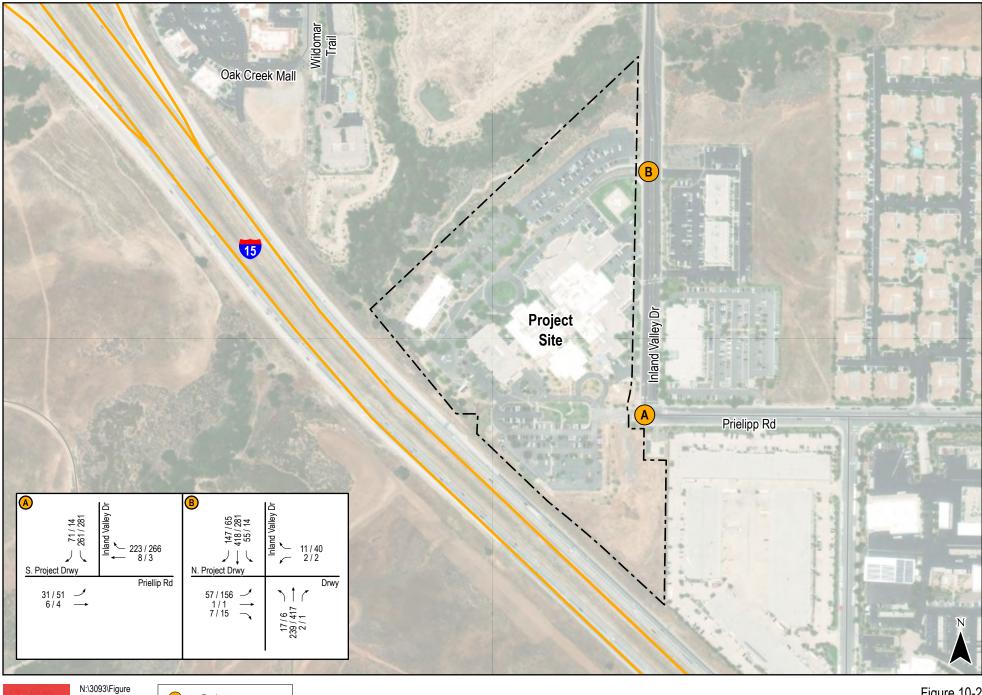
Based on the review of existing conditions and the proposed site plan, the following additional improvements are recommended:

- All project access driveways shall be evaluated to ensure adequate sight distance is provided to the satisfaction of the City engineer.
- All project access driveways shall be evaluated to ensure adequate turning radius using emergency response design vehicle.
- Provide enhanced signage to improve visibility and direct users (i.e., patients, visitors, staff, ambulance, and service/loading) to the appropriate areas.



Turning movements

UHS - INLAND VALLEY



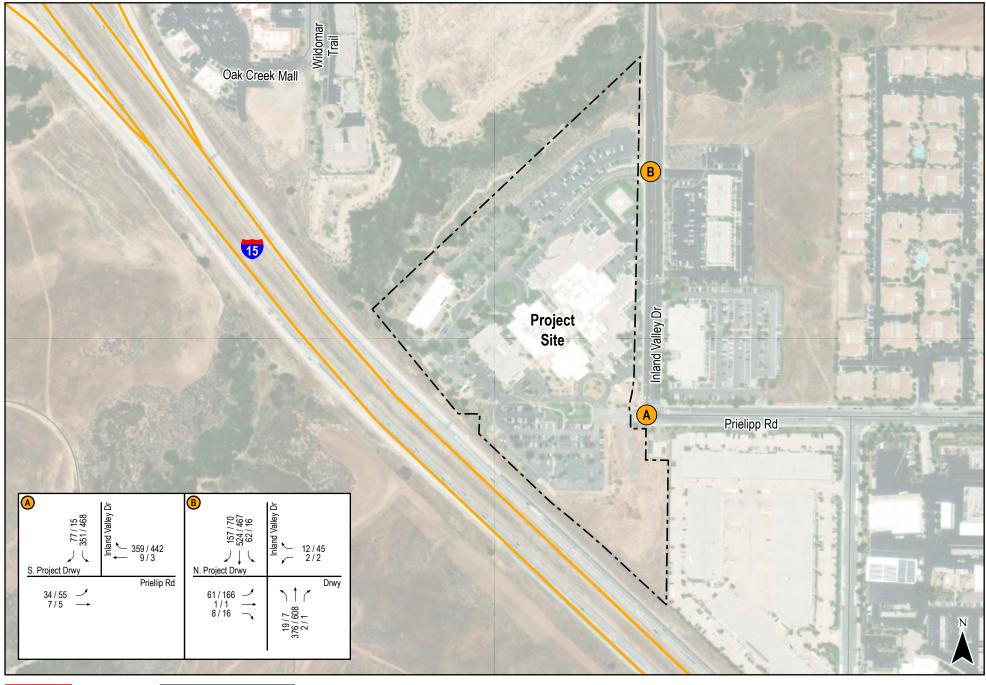
LINSCOTT
LAW &
GREENSPAN
engineers

N:\3093\Figure Date: 4/28/2021 Time: 10:46 AM Project access

Project site

Intersection Volumes

Figure 10-2 Site Access Volumes (Existing + Project)



LINSCOTT
LAW &
GREENSPAN
engineers

N:\3093\Figure Date: 4/28/2021 Time: 10:43 AM

Project access
Project site
Intersection Volumes

Figure 10-3 Site Access Volumes (Opening Year 2026 + Project)

11.0 ACTIVE TRANSPORTATION REVIEW

This section presents the pedestrian, bicycle, and transit conditions in the Project area.

11.1 Pedestrian Traffic Review

Continuous sidewalks are provided along both sides of Clinton Keith Road from I-15 to Inland Valley Drive. From Inland Valley Drive to Smith Ranch Road, sidewalks are generally missing, with limited exceptions where parcels adjacent to Clinton Keith Road have been developed.

On Inland Valley Drive, continuous sidewalks are provided on both sides of the road from the project site to Prielipp Road and are not provided between the project site and Clinton Keith Road. Continuous sidewalks are provided on both sides of Prielipp Road from Inland Valley Drive to Yamas Drive.

ADA compliant curb ramps are provided at all the signalized intersections and unsignalized intersection.

The signalized intersections of I-15 Southbound Ramps/ Clinton Keith Road and I-15 Northbound Ramps/ Clinton Keith Road currently only allows pedestrian crossing along the north and south leg of the intersection.

The signalized intersections of Arya Road/ Clinton Keith Road and Smith Ranch Road/ Clinton Keith Road currently allows pedestrian crossing along the north, south, and west leg.

The signalized intersection of Wildomar Trail/ Clinton Keith Road provides striped pedestrian crossings on all four legs of the intersection controlled by flashing pedestrian signals.

The signalized intersection Inland Valley Drive/ Clinton Keith Road currently only allows pedestrian crossing along the south leg of the intersection.

The unsignalized intersection Inland Valley Drive/ Prielipp Road provides striped pedestrian crossing on the north and west leg of the intersection. Pedestrian crossing is allowed on all four legs of the intersection.

11.2 Bicycle Traffic Review

Currently, there is a Class II bike lane on Clinton Keith Road from I-15 Southbound Ramps to Wildomar Trail. There are no other existing bike facilities within the study area.

Class II bike lanes are planned to be extended on Clinton Keith Road from Wildomar Trail to the eastern city limits as part of the Clinton Keith Road Widening capital improvement project.

Figure 11–1 illustrates the Active Transportation conditions in the study area.

11.3 Transit Traffic Review

Transit service is the study area is provided by Riverside Transit Authority (RTA) Route 23. Route 23 serves Temecula, Murrieta, and Wildomar and operates hourly between 5:20 AM and 8:30 PM on

weekdays with approximate one-hour headways. Weekend service operates between 7:20 AM and 7:20 PM also with an approximate one-hour headways. *Figure 11–2* illustrates the Transit Conditions in the study area.

The project site is located within ¼ mile walking distance from two stop pairs serving Route 23 located along Inland Valley Drive and Prielipp Road. *Table 11–1* summarizes the existing amenities at the stops located within ¼ mile of the project site.

TABLE 11–1
EXISTING AMENITIES BY BUS STOP

Intersection	Route	Stop ID	Direction of Travel	Average Daily Ridership	Amenities
Inland Valley Dr @	23	1338	NB	53a	Sign and Pole, Route Designations, Transit Information, Schedule Display, Route Map, Red Curb, Seating, ADA Compliant, Bus Pad
Inland Valley Dr @ Hospital (Prielipp Rd)		1342	SB	86	Sign and Pole, Route Designations, Transit Information, Schedule Display, Route Map, Seating, Passenger Shelter, ADA Compliant, Extended Sidewalk, Kiosk, Trash Receptacle
	23	2524	EB	14	Sign and Pole, Route Designations, Transit Information, Red Curb
Inland Valley Dr & Prielipp Rd		2522	WB	15	Sign and Pole, Route Designations, Transit Information, Schedule Display, Route Map, Red Curb, Seating, Trash Receptacle

11.4 Active Transportation Recommendations

The following active transportation improvements are recommended in the immediate vicinity of the Project site.

11.4.1 Inland Valley Drive / Northerly Project Access / Stonebridge Medical Center Northerly Access

As discussed in *Section 10.0*, signalization of this intersection is anticipated in the future with traffic volumes from area development added to those generated by the Project. At that time, the future signal will provide a controlled pedestrian crossing and pedestrian crossing activity north of Prielipp Road should be channelized to this location.

Pending the future signal, the existing marked crosswalk located near the Stonebridge Medical Center Southerly Access provides a convenient location located approximately at the mid-point of developed parcels on either side of the roadway. Additional uncontrolled crossings are not recommended.



11.4.2 Inland Valley Drive / Stonebridge Medical Center Southerly Access

This location, between Inland Valley Medical Center ambulance and surgery center access, provides a marked crosswalk with advanced yield lines.

As discussed above, with the future signalization of the northerly driveway serving the Project site on the west and the Stonebridge Medical Center to the east, pedestrian activity should be directed to the controlled crossing provided by the traffic signal following its construction. At that time, this midblock crossing should be considered for removal.

In the interim, it is recommended that low-cost improvements consistent with MUTCD guidance be provided. Per MUTCD Section 3B.18:

If a marked crosswalk exists across an uncontrolled roadway where the speed limit exceeds 40 mph and the roadway has four or more lanes of travel and an ADT of 12,000 vehicles per day or greater, advanced yield lines with associated Yield Here to Pedestrians (R1-5, R1-5a) signs

should be placed 20 to 50 feet in advance of the crosswalk, adequate visibility should be provided by parking prohibitions, pedestrian crossing (W11-2) warning signs with diagonal downward pointing arrow (W16-7p) plaques should be installed at the crosswalk, a high-visibility crosswalk marking pattern should be used (See Figure 3B-17(CA)).

To meet MUTCD recommendations, the following should be provided:

- Provide Yield Here to Pedestrians (R1-5) signage in advance of crosswalk.
- Consider restriping existing solid stop bar with yield lines per MUTCD
- Restripe the crosswalk with a high-visibility crosswalk marking pattern

Figure 11–3 depicts the recommended improvements at this location.



11.4.3 Inland Valley Drive / Prielipp Road

At this intersection it is recommended to restripe the existing crosswalks with high visibility continental markings to the satisfaction of the City engineer. *Figure 11–4* depicts the recommended improvements at this location.



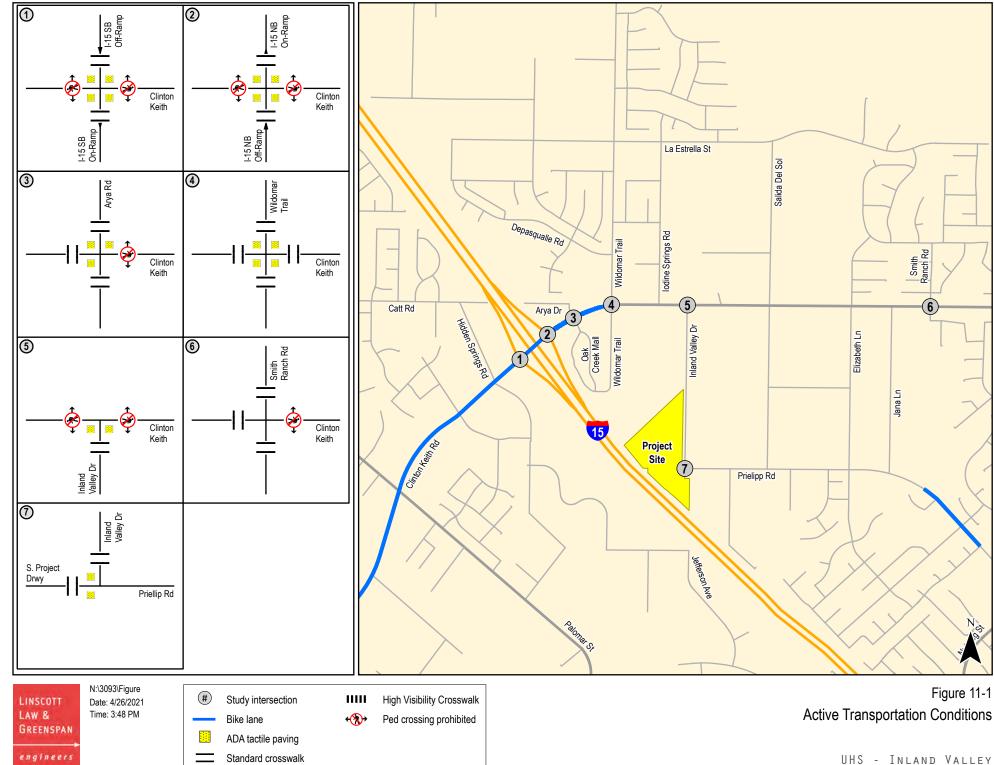
11.4.4 Other Locations

The following active transportation improvements should also be considered:

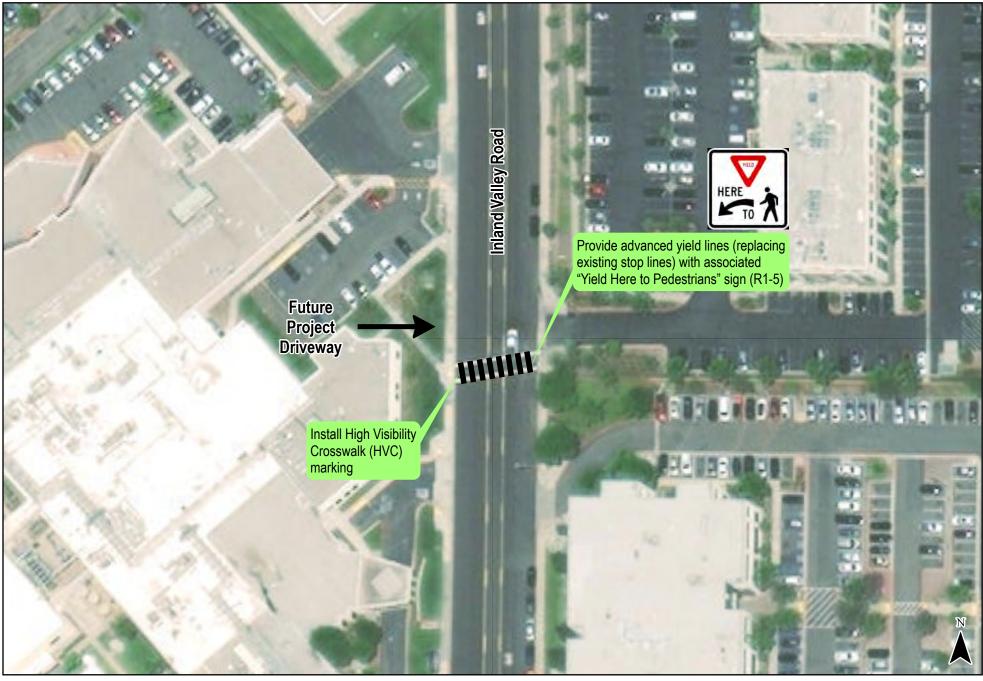
• If feasible, enhance the existing bus stop located on the east side of Inland Valley Drive (stop ID: 1338) with a bus shelter and trash receptacle outside the sidewalk area consistent with Riverside Transit Authority (RTA) design standards.



Provide short-term bicycle parking on-site to current City standards.









N:\3093\Figure Date: 5/3/2021 Time: 4:31 PM Figure 11-3
Proposed Improvements
Inland Valley Drive / Stonebridge Southerly Access





N:\3093\Figure Date: 5/3/2021 Time: 4:36 PM Figure 11-4
Proposed Improvements
Inland Valley Drive / Prielipp Road

12.0 IMPROVEMENTS AND RECOMMENDATIONS

12.1 Operational Deficiencies

Based on the intersection and segment analyses provided in this report, the following operational deficiencies are noted.

12.1.1 Existing Conditions

The following facilities are calculated to exceed the target LOS under existing conditions:

- Street Segment #3. Clinton Keith Road: Inland Valley Drive to Smith Ranch Road LOS F
- Street Segment #4. Inland Valley Drive: Clinton Keith Road to Prielipp Road LOS F

12.1.2 Near-Term Opening Year 2026 Conditions

The following facilities are calculated to exceed the target LOS under Near-Term Opening Year 2026 conditions:

- Intersection #3. Clinton Keith Road / Arya Road LOS F (AM/PM peak hours)
- Street Segment #1. Clinton Keith Road: Arya Road to Wildomar Trail LOS E
- Street Segment #2. Clinton Keith Road: Wildomar Trail to Inland Valley Drive LOS F
- Street Segment #3. Clinton Keith Road: Inland Valley Drive to Smith Ranch Road LOS F
- Street Segment #4. Inland Valley Drive: Clinton Keith Road to Prielipp Road LOS F

12.2 Level of Service Improvements

12.2.1 Existing Conditions

The following improvements have been identified to address the LOS deficiencies identified under existing conditions:

- TRA-1. Street Segment #3. Clinton Keith Road: Inland Valley Drive to Smith Ranch Road The City of Wildomar Capital Improvement Program (CIP) includes the ultimate widening of Clinton Keith Road (CIP No. 025-1). Phase 1 of this project, which will provide four lanes of traffic and bike lanes between Wildomar Trail to the east City limits, is funded with construction imminent and anticipated to be complete prior to Opening Year 2026. This improvement is assumed in Near-Term Opening Year 2026 conditions and would improve existing street segment operations to LOS B or better as shown in Table 12–1.
- TRA-2. Street Segment #4. Inland Valley Drive: Clinton Keith Road to Prielipp Road Inland Valley Drive from Clinton Keith Road to Prielipp Road is currently built as a two-lane collector. A two-way left-turn lane is provided along the southern portion of this segment in the area fronting the Project site on the west side of the roadway and other existing medical office buildings on the east side of the roadway. The parcels fronting Inland Valley Drive north of this area have not been developed and frontage improvements have not been completed.

Inland Valley Drive has an ultimate classification of 4-Lane Secondary Collector according to Wildomar Circulation Plan.

Street improvements for Inland Valley Drive from Clinton Keith Rd to Prielipp Rd are listed in the City of Wildomar Development Impact Fee (DIF) program (Table 3.1). Per the City of Wildomar 2015 Impact Fee Study Update:

"the two inside travel lanes across the frontage of any development project are considered project improvements necessary for access to the development, and therefore will be the direct responsibility of abutting developers on either side of the street. Any additional street improvements...are covered by the impact fees calculated in this chapter."

Therefore, much of the necessary widening and frontage improvements to improve Inland Valley Drive to a Secondary Collector will be the responsibility of abutting developers as the parcels north of the Project site develop. The remaining street improvements are covered by the impact fees calculated. As the required improvement is included in an existing traffic impact fee program to which the Project will pay into, payment of those fees constitutes an appropriate contribution to the deficiency identified and no further payment or improvements are required. This improvement would improve existing street segment operations to LOS A as shown in *Table 12–1*.

Table 12–1
Existing Street Segment Operations

	Street Segment		ADT a	Existing			Existing w/ Improvements		
#				Capacity ^b	LOS c	LOS Threshold Exceeded?	Capacity	LOS	LOS Threshold Exceeded?
	Clinton Keith Road								
TRA-1	3.	Inland Valley Drive to Smith Ranch Road	23,440	13,000	F	Yes	35,900	В	No
	Inland Valley Drive								
TRA-2	4.	Clinton Keith Road to Prielipp Road	11,760	13,000	F	Yes	25,900	A	No

Footnotes:

- Average Daily Traffic Volumes.
- b. Capacities based on Riverside County Roadway Classification Table.
- c. Level of Service.

12.2.2 Near-Term Opening Year 2026 Conditions

The following improvements have been identified to address the LOS deficiencies identified in Near-Term Opening Year 2026 conditions. Each improvement was evaluated to determine if it is an eligible facility in the WRCOG/CVAG TUMF or other approved funding mechanism. If improvements with an approved funding mechanism can provide the target LOS, payment into the TUMF (and/or other

adopted funding program) will be considered as the project's cumulative contribution toward the identified improvements. For improvements needed beyond those eligible within an adopted funding program that project's proportionate fair share contribution is identified.

- TRA-3. *Intersection #3. Clinton Keith Road / Arya Road* Traffic signal improvements at Clinton Keith Road / Arya Drive to modify the intersection to its ultimate configuration are identified in the City of Wildomar DIF program. The Impact Fee share is planned to be 50% of the total cost of the improvement. The Project will contribute required impact fees that will partially fund this improvement. The Project will also contribute a fair share of 5.0% to the unfunded cost of the improvement, not to exceed 50% of the total cost.
- TRA-4. Street Segment #1. Clinton Keith Road: Arya Road to Wildomar Trail This street segment is built to its ultimate six lane cross-section. However, the signalized intersections on Clinton Keith Road from the I-15 interchange to Wildomar Trail are closely spaced and these intersections provide the transportation constraint on operational capacity on this segment. Intersection #4, Clinton Keith Road / Wildomar Trail is calculated to operate at LOS D or better. Intersection #3, Clinton Keith Road / Arya Drive is calculated to be deficient, but improvements are identified in TRA-3. The Project will also contribute a fair share of 5.7%, based on the Project's weighted average fair share across the corridor, to signal synchronization along Clinton Keith Road.

Traffic signal improvements at Clinton Keith Road / Wildomar Trail are also identified in the City of Wildomar DIF program, to which the Project will contribute required fees.

TRA-5. Street Segment #2. Clinton Keith Road: Wildomar Trail to Inland Valley Drive – Phase 2 (ultimate widening) will provide six lanes of traffic and bike lanes on Clinton Keith Road from I-15 to Elizabeth Lane as part of the City of Wildomar Capital Improvement Program (CIP No. 025-1). Clinton Keith Road Widening Phase 2 is eligible for funding from the Transportation Uniform Mitigation Fees (TUMF) program. The Project's required payment into the TUMF program represents the Project's contribution toward this improvement. As shown in Table 12–2, this street segment would operate at acceptable LOS D following completion of this improvement. The Project will also contribute a fair share of 5.7%, based on the Project's weighted average fair share across the corridor, to signal synchronization along Clinton Keith Road.

Intersection improvements on Clinton Keith Road at Wildomar Trail, Inland Valley Drive, and Smith Ranch Road are also identified in the City of Wildomar DIF program, which would contribute toward improved traffic operations on Clinton Keith Road.

TRA-6. Street Segment #3. Clinton Keith Road: Inland Valley Drive to Smith Ranch Road - Phase 2 (ultimate widening) will provide six lanes of traffic and bike lanes on Clinton Keith Road from I-15 to Elizabeth Lane as part of the City of Wildomar Capital Improvement Program (CIP No. 025-1). The Project's required payment into the TUMF program represents the Project's contribution toward this improvement. As shown in Table 12–2, this street

segment would operate at LOS B following completion of this improvement. The Project will also contribute a fair share of 5.7%, based on the Project's weighted average fair share across the corridor, to signal synchronization along Clinton Keith Road.

- TRA-7. *Street Segment #4. Inland Valley Drive: Clinton Keith Road to Prielipp Road* The completion of TRA-2 would also address this deficiency in Near-Term Opening Year 2026 conditions. As shown in *Table 12–2*, this street segment would operate at LOS C in Near-Term Opening Year 2026 conditions with the completion of this improvement.
- TRA-8. *Project Access #A. Inland Valley Drive / Northerly Project Driveway:* Provide a fair share contribution of 31.3% toward the future signalization of this driveway. The future traffic signal should provide north-south protected left-turn phasing. As shown in *Table 10–4*, this intersection would operate at LOS B or better following completion of this improvement.

Table 12–2
Near-Term Street Segment Operations

	Street Segment		ADT a	Near-Term with Project			Near-Term with Project w/ Improvements		
#				Capacity ^b	LOS c	LOS Threshold Exceeded?	Capacity	LOS	LOS Threshold Exceeded?
	Clinton Keith Road								
TRA-4	3.	Arya Drive to Wildomar Trail	50,089	53,900	Е	Yes	53,900	E	No ^d
TRA-5	4.	Wildomar Trail to Inland Valley Drive	47,478	35,900	F	Yes	53,900	D	No
TRA-6	5.	Inland Valley Drive to Smith Ranch Road	36,656	35,900	F	Yes	53,900	В	No
	Inland Valley Drive								
TRA-7	6.	Clinton Keith Road to Prielipp Road	19,833	13,000	F	Yes	25,900	С	No

Footnotes:

- a. Average Daily Traffic Volumes.
- b. Capacities based on Riverside County Roadway Classification Table.
- c. Level of Service
- d. Segment is built to its ultimate capacity, however, TRA-3, TRA-4 will improve operations at the signalized intersections bounding this segment. These intersections are the constraint on operational capacity on this short segment.

12.3 Fair Share

The project's fair share was identified for improvements needed beyond those eligible within an adopted funding program. *Table 12–4* provides the fair share calculations. Fair share calculations were completed using the trips associated with the development of the proposed Project in Near-Term Opening Year 2026 conditions. The fair share was calculated using the following formula:

For intersections, the combined AM and PM peak hour volumes were used to calculate the fair share percentages. For street segments, the ADT volumes were used.

TABLE 12–4
FAIR SHARE CALCULATIONS

MM#	Toronto	Near-Term Opening with Projec		Improvement Cost Estimate		
	Location	Formula	Fair Share	Total Cost	Fair Share (\$)	
TRA-3	Intersection #3. Clinton Keith Road / Arya Drive	<u>182</u> = (9,578–5,970)	5.0%	\$111,464 b	\$5,573	
TRA-4	Segment #1. Clinton Keith Road: Arya Drive to Wildomar Trail	1,098 = (50,089–31,650)	6.0%	_	_	
TRA-5	Segment #2. Clinton Keith Road: Wildomar Trail to Inland Valley Drive	$\frac{1,098}{(47,478-29,790)} =$	6.2%	_	_	
TRA-6	Segment #3. Clinton Keith Road: Inland Valley Drive to Smith Ranch Road	<u>641</u> = (36,656–23,440)	4.9%	_	_	
TRA-4, 5, 6	Clinton Keith Road: Arya Drive to Smith Ranch Road (Average)	$\frac{946}{(44,741-28,293)} =$	5.7%	\$16,000°	\$912	
TRA-8	Inland Valley Drive / N. Project Driveway	305 =	31.3%	\$250,000	\$78,250	

Footnotes:

- a. Fair share = Project Traffic / (Total Traffic Existing Traffic)
- b. Total cost of intersection improvements per City of Wildomar DIF program is \$222,928. The impact fee is planned to cover 50% of the cost of the improvements. The Project's fair share is calculated based on the remaining 50%.
- c. The cost of this improvement is calculated for the Clinton Keith Road corridor between Arya Drive and Smith Ranch Road. Corridor includes four (4) signalized intersections. Local timing, coordination timing, field support, and stamped timing sheet estimated at \$4,000 per intersection.

12.4 Summary of Other Recommended Improvements

The following site access improvements are recommended:

- All project access driveways shall be evaluated to ensure adequate sight distance is provided to the satisfaction of the City engineer.
- All project access driveways shall be evaluated to ensure adequate turning radius using emergency response design vehicle.
- Provide enhanced signage to improve visibility and direct users (i.e., patients, visitors, staff, ambulance, and service/loading) to the appropriate areas.

In addition, the following active transportation improvements should be considered:

- Inland Valley Drive / Northerly Project Access / Stonebridge Medical Center Northerly Access
 - O As discussed in *Section 10.0*, signalization of this intersection is anticipated in the future with traffic volumes from area development added to those generated by the Project. At that time, the future signal will provide a controlled pedestrian crossing and pedestrian crossing activity north of Prielipp Road should be channelized to this location.
 - o Pending the future signal, the existing marked crosswalk located near the Stonebridge Medical Center Southerly Access provides a convenient location located approximately at the mid-point of developed parcels on either side of the roadway. Additional uncontrolled crossings are not recommended.
- Inland Valley Drive / Stonebridge Medical Center Southerly Access (between Inland Valley Medical Center ambulance and surgery center access)
 - o Provide Yield Here to Pedestrians (R1-5) signage in advance of crosswalk.
 - o Consider restriping existing solid stop bar with yield lines per MUTCD.
 - o Restripe the crosswalk with a high-visibility crosswalk marking pattern.
- Inland Valley Drive / Prielipp Road
 - o Restripe the existing crosswalks with high visibility continental markings to the satisfaction of the City engineer.
- If feasible, enhance the existing bus stop located on the east side of Inland Valley Drive (stop ID: 1338) with a bus shelter and trash receptacle outside the sidewalk area consistent with Riverside Transit Authority (RTA) design standards.
- Provide short-term bicycle parking on-site to current City standards.

13.0 VEHICLE MILES TRAVELED OVERVIEW

This section presents an overview and background on the VMT and the implementation of California State Law Senate Bill 743 (SB 743) requiring its use in the evaluation of transportation impacts for CEQA.

13.1 VMT Background

VMT is defined as the "amount and distance of automobile travel attributable to a project" per CEQA Guidelines Section 15064.3. VMT is a measure of the use and efficiency of the transportation network as well land uses in a region. VMTs are calculated based on individual vehicle trips generated and their associated trip lengths. VMT accounts for two-way (roundtrip) travel and is estimated for a typical weekday for the purposes of measuring transportation impacts.

13.2 Senate Bill 743

In September 2013, the Governor's Office signed SB 743 into law, starting a process that fundamentally changes the way transportation impact analysis is conducted under CEQA. These changes include the elimination of auto delay, level of service (LOS), and similar measurements of vehicular roadway capacity and traffic congestion as the basis for determining significant impacts. The guidance identifies VMT as the most appropriate CEQA transportation metric, along with the elimination of Auto Delay/LOS for CEQA purposes statewide. The justification for this paradigm shift is that Auto Delay/LOS impacts lead to improvements that increase roadway capacity and therefore induce more traffic and greenhouse gas emissions.

In December 2018, after over five years of stakeholder-driven development, the California Natural Resource Agency certified and adopted the CEQA Statute. Effective July 1, 2020, the VMT guidelines shall apply statewide.

13.3 CEQA Statute

The following is an excerpt from Section 15064.3 Determining the Significance of Transportation Impacts.

Subdivision (a): Purpose

This section describes specific considerations for evaluating a project's transportation impacts. Generally, vehicle miles traveled is the most appropriate measure of transportation impacts. For the purposes of this section, "vehicle miles traveled" refers to the amount and distance of automobile travel attributable to a project. Other relevant considerations may include the effects of the project on transit and non-motorized travel. Except as provided in subdivision (b)(2) below (regarding roadway capacity), a project's effect on automobile delay shall not constitute a significant environmental impact.

Subdivision (b): Criteria for Analyzing Transportation Impacts

While subdivision (a) sets forth general principles related to transportation analysis, subdivision (b) focuses on specific criteria for determining the significance of transportation

impacts. It is further divided into four subdivisions: (1) land use projects, (2) transportation projects, (3) qualitative analysis, and (4) methodology.

Subdivision (b)(1): Land Use Projects

Vehicle miles traveled exceeding an applicable threshold of significance may indicate a significant impact. Generally, projects within one-half mile of either an existing major transit stop or a stop along an existing high-quality transit corridor should be presumed to cause a less than significant transportation impact. Projects that decrease vehicle miles traveled in the project area compared to existing conditions should be presumed to have a less than significant transportation impact.

Subdivision (b)(2): Transportation Projects

Transportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact. For roadway capacity projects, agencies have discretion to determine the appropriate measure of transportation impact consistent with CEQA and other applicable requirements. To the extent that such impacts have already been adequately addressed at a programmatic level, such as in a regional transportation plan EIR, a lead agency may tier from that analysis as provided in Section 15152.

Subdivision (b)(3): Qualitative Analysis

If existing models or methods are not available to estimate the vehicle miles traveled for the particular project being considered, a lead agency may analyze the project's vehicle miles traveled qualitatively. Such a qualitative analysis would evaluate factors such as the availability of transit, proximity to other destinations, etc. For many projects, a qualitative analysis of construction traffic may be appropriate.

Subdivision (b)(4): Methodology

A lead agency has discretion to choose the most appropriate methodology to evaluate a project's vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's vehicle miles traveled and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate vehicle miles traveled and any revisions to model outputs should be documented and explained in the environmental document prepared for the project. The standard of adequacy in Section 15151 shall apply to the analysis described in this section.

Subdivision (c): Applicability

The provisions of this section shall apply prospectively as described in section 15007. A lead agency may elect to be governed by the provisions of this section immediately. Beginning on July 1, 2020, the provisions of this section shall apply statewide.

13.4 Local / Regional Agency Transition to SB743

The City of Wildomar is currently in the process of developing its inaugural comprehensive Mobility Element and Active Transportation Plan, as well as updated guidelines for the preparation of transportation studies.

However, the City has adopted VMT CEQA Threshold Policy Guidelines by City Council Resolution (June 10, 2020). For detailed analysis, screening, and methodology this report relies on the County of Riverside's *Transportation Analysis Guidelines* (December 2020) which incorporate SB 743 and CEQA VMT analysis, except as it differs from the City of Wildomar's recommended VMT thresholds.

14.0 VMT Analysis Methodology

Per the City guidance, each project will be evaluated to determine if it can be screened from needing a separate VMT analysis. The determination will be made during the Pre-Application Review or during consultation with the Planning Department prior to making application. These screening determinations are not absolute, and the City may determine that a project specific VMT analysis must be prepared to support the project.

For projects that do not screen out of VMT analysis the project generated VMT is compared to the VMT expected to be generated by the General Plan land use assumed for the project site.

Project Screening 14.1

When a project is being considered, the first task will be to see if it should be screened out of needing to conduct a detailed VMT analysis.

The following projects are considered to have a de minimis effect on VMT and the City may determine that a project specific VMT analysis is unnecessary.

- Any project that generates or attracts 110 or fewer daily trips. This generally corresponds to the following "typical" development potentials:
 - 11 single family housing units
 - 16 multi-family, condominiums, or townhouse units
 - 10,000 sq. ft. of office
 - 15,000 sq. ft. of light industrial
 - 63,000 sq. ft. of warehousing
 - 79,000 sq. ft. of high cube transload and short-term storage warehouse
- Projects statutorily or categorically exempt from CEQA.
- Locally serving retail 50,000 square feet or less
- Mixed use projects with at least 30 percent residential

This list is based on the Office of Planning and Research (OPR) Technical Advisory on Evaluating Transportation Impacts in CEOA and should be considered preliminary with an expectation that the City will amend it over time.

As the list of screening criteria provided in the City's adopted resolution should be considered preliminary, the following list of screening criteria per the County of Riverside and other local jurisdictions were considered in screening for project types presumed to cause a less-than-significant impact:

Projects near high-quality transit

- Affordable housing
- Local essential service (local-serving day care, police or fire facility, medical/dental building under 50,000 square feet, government offices, local or community parks)
- Map-based screening (area of development is under threshold as shown in screening map as allowed by Transportation Department)
- Office and other employment-related land uses reducing commutes outside the local area.
- Local-serving day care centers, pre-K and K-12 schools
- Local parks and civic uses
- Local-serving gas stations, banks, and hotels (e.g., non-destination hotels)
- Local serving community colleges that are consistent with SCAG RTP/SCS assumptions
- Student housing projects

Generally, projects that require a General Plan Amendment or are of sufficient size to require an environmental impact report would need to conduct a project-specific analysis of VMT using the City's adopted methodology. Not all larger projects would automatically result in greater VMT however, so each project will be reviewed, and a determination made.

14.2 VMT Assessment for Non-Screened Development

Based on the adopted resolution, the City of Wildomar recommends that the Riverside County Travel Demand Model (RIVTAM) for calculating the appropriate VMT per service population in the region. This methodology will be used for conducting detailed VMT assessments for projects not screened out using the criteria bove.

14.3 VMT Impact Significance Thresholds

14.3.1 CEQA Thresholds

The City of Wildomar has selected VMT thresholds of significance based on guidance the Western Riverside Council of Governments (WRCOG) Implementation Study adjusted by City staff to meet the needs of the City.

Related to the City's approach to VMT in comparing a project to the City's General Plan Update and EIR and the potential analysis of CEQA VMT Impact Thresholds, two sections of CEQA are important to consider first:

- 1. Section 15183. Projects Consistent with a Community Plan or Zoning
 - (a) CEQA mandates that projects which are consistent with the development density established by existing zoning, community plan, or general plan policies for which an EIR was certified shall not require additional environmental review, except as might be necessary to examine whether

there are project-specific significant effects which are peculiar to the project or its site. This streamlines the review of such projects and reduces the need to prepare repetitive environmental studies.

2. Section 15130. Discussion of Cumulative Impacts

(e) If a cumulative impact was adequately addressed in a prior EIR for a community plan, zoning action, or general plan, and the project is consistent with that plan or action, then an EIR for such a project should not further analyze that cumulative impact, as provided in CEQA Section 15183(j).

As such, and as noted above projects that are consistent with the General Plan Update EIR do not typically require additional environmental review, except in certain situations. Therefore impacts, whether in the local context or cumulative would start with consideration of the land use in the General Plan. Additionally, projects should consider whether a potential impact is addressed in the City's General Plan.

14.3.2 City Thresholds

WRCOG evaluated potential VMT threshold within the context of SB 743, legal opinions related to the legislation, proposed CEQA Guidelines updates, and the Technical Advisory produce by OPR.

Fehr & Peers examined the OPR recommendation of a 15 percent reduction and concluded that a ruralsuburban area such as Wildomar would struggle to achieve this level of reduction as many VMT reduction strategies assume an urban and transit rich environment.

Therefore, City staff recommended the City adopt the Southern California Association of Governments (SCAG) Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) future year VMT projects by jurisdiction or subregion thresholds. The portion of the RTP/SCS that affects Wildomar is based on the land use element of the City's General Plan. As such, this assumes that projects consistent with the General Plan are also consistent with the RTP/SCS and should not require additional analysis for VMT.

Projects that require amendment to the General Plan that trigger an EIR will need to complete a VMT analysis. Other amendments to the General Plan would need to be evaluated on a case-by-case basis.

Future projects must demonstrate that they will reduce existing VMT by at least 3 percent. Projects that cannot demonstrate a 3 percent reduction in VMT will be required to conduct additional analysis and add mitigation as appropriate. If project design or operational features cannot reduce VMT below the threshold then an EIR may be required for the City to consider a statement of overriding considerations.

15.0 Project VMT Analysis

15.1 General Plan Consistency

The Project is consistent with the adopted General Plan Land Use Element. According to the City of Wildomar's adopted threshold, it is assumed that projects consistent with the General Plan are also consistent with the RTP/SCS and should not require additional analysis for VMT.

It is therefore concluded that the project would not result in a significant CEQA impact.

15.2 Project Screening

Based on the VMT screening criteria in *Section 14.1*, the project falls under the "office and other employment-related land uses reducing commutes outside the local area" category that presumes a less than significant VMT impact would occur with the proposed land use. The Project has been determined to be consistent with the adopted General Plan, therefore, no further analysis is required. However, an analysis of substantial evidence of the project's employment reducing commutes outside the local area is also provided informationally.

Per CEQA Section 15064.3 "Projects that decrease vehicle miles traveled in the project area compared to existing conditions should be considered to have a less than significant transportation impact." The expansion of the Inland Valley Medical Center will provide additional employment opportunities for area residents that may otherwise commute farther distances outside the region in search of employment.

Substantial evidence for this conclusion is provided by an evaluation of the geographic distribution of employees at the existing Inland Valley Medical Center. *Table 15–1* provides a summary of the distribution of current employees by ZIP code. Included in *Table 15–1* are all ZIP codes containing five or more employees, representing over 92% of the total current employment at the IVMC.

Also calculated in *Table 15–1* is the average commute time to and from each of these ZIP codes during the AM/PM peak hours, which are ultimately averaged and weighted by the proportion of IVMC employees in each are to determine the average commute time for the existing site. The inbound travel time is based on travel during the AM peak period (7-9 AM) and the outbound travel time is based on travel during the PM peak period (4-6 PM). While employee shifts vary at the IVMC, this approach provides a commute time comparable to the citywide average.

This average commute time to/from the IVMC was then compared to the citywide average commute time as obtained from the most recently available American Community Survey data. As shown in *Table 15–1*, the typical commute to/from the Project site is substantially less than the citywide average for Wildomar. The average commute to/from the Project site is estimated to be 21.0 minutes or about 40% less than the average commute for all Wildomar. The expansion of employment associated with the Project will provide additional opportunities to area residents in closer proximity that the current average commute.

Based on this the VMT/Employee would be below the City's significance threshold of at least 3% below existing VMT/Employee and is considered to have a less than significant transportation impact.

Additionally, although the project is not located within a Transit Priority Area, there is bus service immediately adjacent to the site, with stops on Inland Valley Drive and Prielipp Road, which has the potential for increased ridership and/or service in the future that would further reduce project VMT.

TABLE 15–1
PROJECT VERSUS CITYWIDE COMMUTE TIME

ZID C. I	# of	Distance to	Inbound Travel	Outbound Travel	Average Travel
ZIP Code	Employees	IVMC (mi.)	Time (min.)	Time(min.)	Time (min.)
92081	5	38.7	40	40	40
92223	5	49.4	45	50	47.5
92548	5	21.0	24	26	25
92553	5	30.4	30	35	32.5
92557	5	34.5	35	40	37.5
92026	6	34.2	30	30	30
92069	6	36.2	35	35	35
92879	6	29.4	28	30	29
92555	7	42.4	40	45	42.5
92582	7	26.8	40	40	40
92590	9	15.1	22	22	22
92057	10	32.4	30	35	32.5
92583	12	33.3	40	45	42.5
92543	13	22.1	30	30	30
92570	13	19.3	24	26	25
92544	15	37.5	70	75	72.5
92028	16	23.0	24	26	25
92883	16	20.8	22	24	23
92571	18	20.5	24	26	25
92587	24	14.0	20	22	21
92545	26	21.2	28	30	29
92585	32	17.5	18	20	19
92586	33	13.9	18	20	19
92532	41	9.4	14	14	14
92596	60	13.6	22	24	23
92530	75	17.9	26	28	27
92595	94	3.1	8	8	8
92591	99	12.6	16	18	17
92584	136	8.8	14	16	15
92592	159	20.9	26	30	28
92562	206	12.1	20	22	21
92563	219	7.2	14	16	15
	Medical Center				21.0 a
City of Wildon					37.4 в
Difference: Mi	inutes/Percent				-16.4 /-43%

Footnotes:

- a. Average commute time to IVMC weighted by number of employees (existing).
- b. Source: 2019 American Community Survey 5-Year Estimates (Table DP03).

16.0 SIGNIFICANT VMT IMPACTS AND MITIGATION MEASURES

Given the project is presumed less than significant as proposed, no mitigation measures with respect to VMT are required.

Recommendations are made in this report to facilitate improved vehicular and non-vehicular circulation and site access, as discussed in detail in *Section 12.0*.



TECHNICAL APPENDICES INLAND VALLEY MEDICAL CENTER EXPANSION

Wildomar, California July 26, 2021

LLG Ref. 3-19-3093

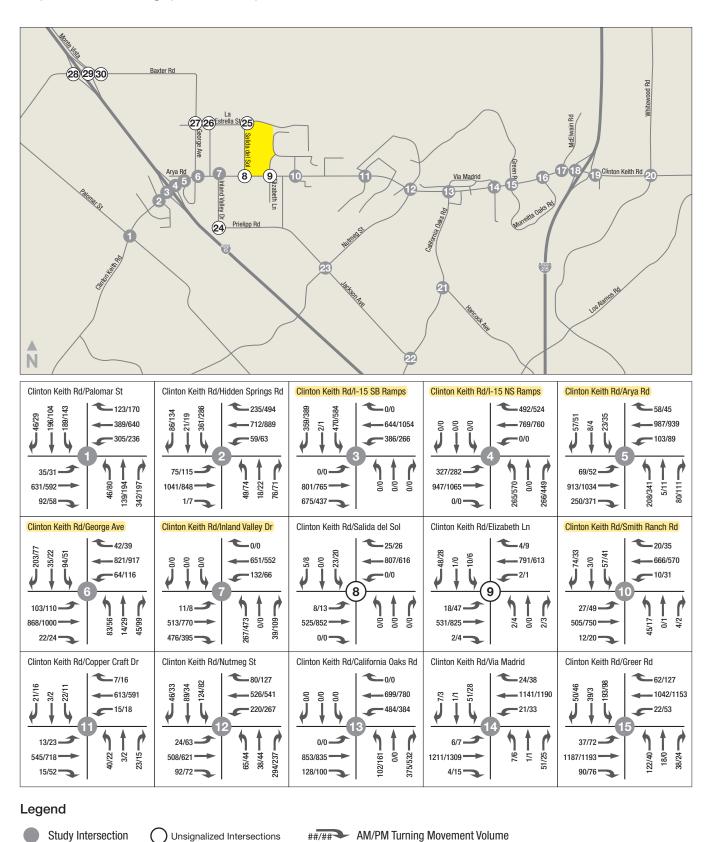
Linscott, Law & Greenspan, Engineers

4542 Ruffner Street
Suite 100
San Diego, CA 92111
858.300.8800 τ
858.300.8810 F
www.llgengineers.com

	Appendix A
	Intersection & Segment Count Sheets
nscott, Law & Greenspan, <i>engineers</i>	LLG Ref. 3-19-3093

2016 – 2019 Counts – For Analysis

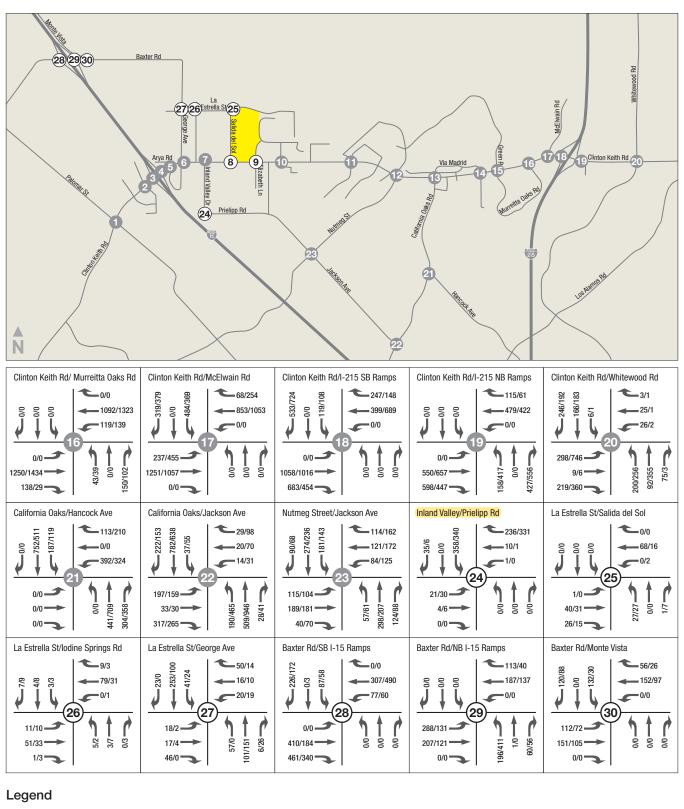
Figure 4 Existing (Year 2016) Intersection Peak Hour Traffic Volumes



Wildomar Campus Master Plan Traffic Study

IBI GROUP September 2016

Figure 4 Existing (Year 2016) Intersection Peak Hour Traffic Volumes



Study Intersection Unsignalized Intersections ##/## AM/PM Turning Movement Volume

As shown in Table 4, all study area intersections currently operate at acceptable LOS under Existing (Year 2016) Conditions with the exception of the following 4 intersections:

- Palomar Street/Clinton Keith Road : LOS E in the AM peak hour
- California Oaks Road/Clinton Keith Road: LOS F in the AM peak hour
- Murrieta Oaks Avenue/Clinton Keith Road: LOS E in the AM peak hour and LOS F in the PM peak hour
- Whitewood Road and Clinton Keith Road: LOS F in the PM peak hour

3.9 Existing Roadway Segment LOS

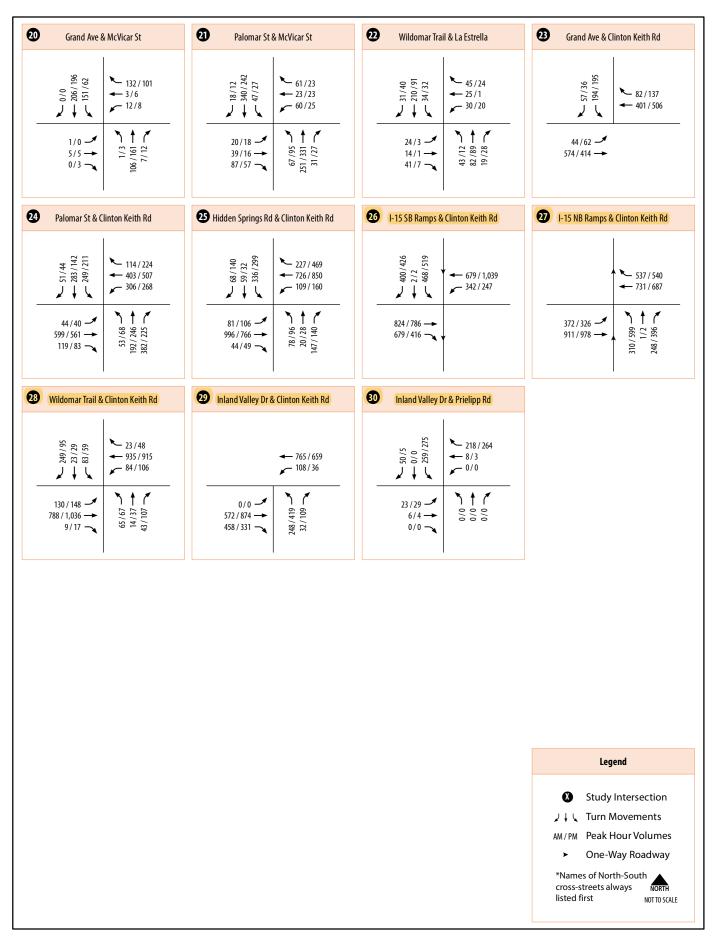
Table 5 provides a summary of the Existing (Year 2016) Conditions roadway segment capacity analysis based on the capacity thresholds identified on Table 3. As shown on Table 5, 2 out of the 8 existing study area roadway segments exceed the average daily vehicle capacity thresholds.

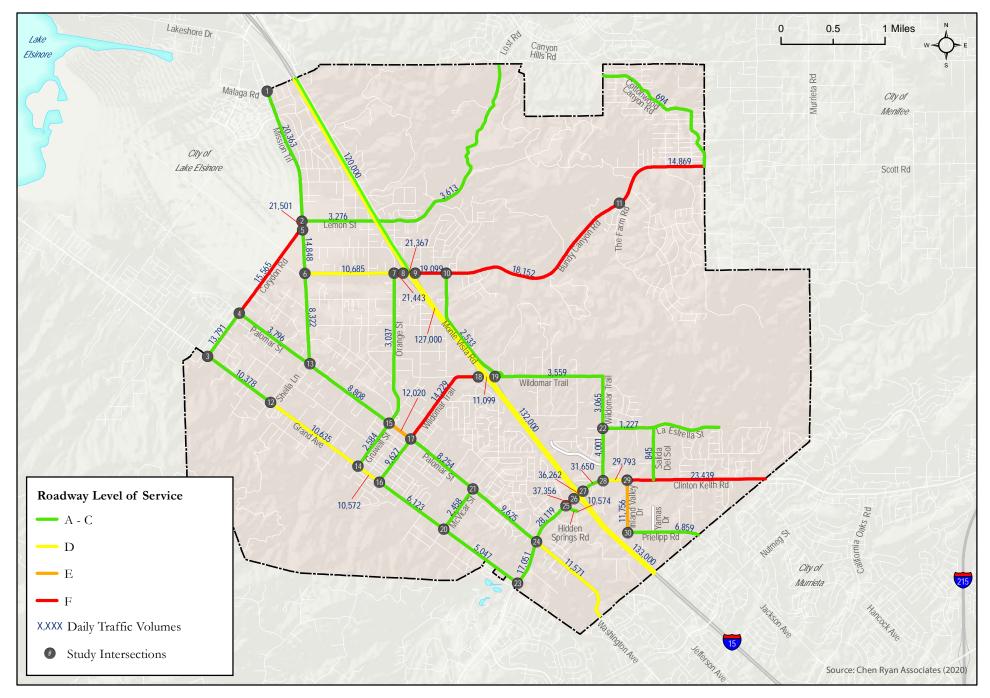
Table 5: Existing Roadway Segment Analysis

ID	Roadway	From	То	# Lanes	Estimated Daily Capacity	2016	V/C Ratio
Α	Clinton Keith	Palomar	Hidden Springs	4D	34,100	25,484	0.75
В	Clinton Keith	Inland Valley	Salida del Sol	2U	13,000	18,911	1.45
С	Clinton Keith	Salida del Sol	Elizabeth	2U	13,000	18,973	1.46
D	Clinton Keith	Nutmeg	California Oaks	4U	34,100	22,968	0.67
Е	Clinton Keith	Greer	Murietta Oaks	4U	34,100	32,517	0.95
F	Clinton Keith	West of V	Vhitewood	6U	53,900	13,898	0.26
G	Baxter	East of M	onte Vista	2U	13,000	3,303	0.25
Н	La Estrella	East of	George	2U	13,000	1,209	0.09

Bolded: Potentially exceeds capacity (v/c 1.01-1.25); Bolded and Shaded: Exceeds capacity (v/c >1.26)

As indicated in Section 2.5, the roadway segment analysis is used as a planning tool to evaluate the adequacy of existing roadway segment capacities. A v/c ratio of greater than 1.01 to 1.25 suggests that additional review is required; however, if adjacent intersections provide the lanes needed to achieve acceptable peak hour LOS, then segment capacity improvements between key intersections may not be needed. For roadway segments significantly exceeding capacity (v/c ratio > 1.25) then additional through lane roadway capacity and intersection improvements are more likely to be needed.





Wildomar Mobility Plan

Figure 4.30 Daily Traffic Volumes and Roadway Level of Service





Table 4.13 Existing Roadway Level of Service

Corydon Road Palomar Street to Mission Trail 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 15,565 1.197 F Lemon Street Mission Trail to 1-15 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 3,276 0.252 C Lemon Street I-15 to Lost Road 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 3,613 0.278 C Bundy Canyon Road Mission Trail to Orange Street 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 10,685 0.822 D Bundy Canyon Road Orange Street to I-15 SB Ramps 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 21,367 0.595 C Bundy Canyon Road I-15 NB Ramps to Monte Vista Road 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 18,152 1.367 F Bundy Canyon Road Monte Vista Road to The Farm Road 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,869 1.144 F Gruwell Street Grand Avenue to Palomar Street 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,229	Roadway	Segment	Count Dates	Functional Classification	Capacity (LOS E)	ADT	V/C	LOS
Lemon Street Mission Trail to I-15 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 3,276 0.252 C Lemon Street I-15 to Lost Road 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 3,613 0.278 C Bundy Canyon Road Mission Trail to Orange Street 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 10,685 0.822 D Bundy Canyon Road Orange Street to I-15 SB Ramps 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 21,343 0.597 C Bundy Canyon Road I-15 NB Ramps to Monte Vista Road 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 18,152 1.36 F Bundy Canyon Road Monte Vista Road to The Farm Road 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 18,152 1.36 F Bundy Canyon Road The Farm Road to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,869 1.14 F Gruwell Street Grand Avenue to Palomar Street 9/25/2019 & 9/25/2019 2-Lane Collector 13,000 9,627 <	Corydon Road	Grand Avenue to Palomar Street	9/24/2019 & 9/25/2019	2-Lane Arterial	18,000	13,791	0.766	С
Lemon Street I-15 to Lost Road 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 3,613 0.278 C Bundy Canyon Road Mission Trail to Orange Street 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 10,685 0.822 D Bundy Canyon Road Orange Street to I-15 SB Ramps 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 21,443 0.597 C Bundy Canyon Road I-15 SB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 21,367 0.595 C Bundy Canyon Road I-15 NB Ramps to Monte Vista Road 9/25/2019 & 9/26/2019 2-Lane Arterial 18,000 18,152 1.306 F Bundy Canyon Road Monte Vista Road to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 18,152 1.306 F Bundy Canyon Road The Farm Road to City Limit 9/25/2019 & 9/25/2019 2-Lane Collector 13,000 14,669 1.14 F Grund Yaceute to Palomar Street 9/22/2019 & 9/25/2019 2-Lane Collector 13,000 1,622 1.095	Corydon Road	Palomar Street to Mission Trail	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	15,565	1.197	F
Bundy Canyon Road Mission Trail to Orange Street 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 10,685 0.822 D Bundy Canyon Road Orange Street to I-15 SB Ramps 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 21,443 0.597 C Bundy Canyon Road I-15 SB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 21,367 0.595 C Bundy Canyon Road I-15 NB Ramps to Monte Vista Road 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 18,152 1.396 F Bundy Canyon Road Monte Vista Road to The Farm Road 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 18,152 1.396 F Bundy Canyon Road The Farm Road to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,869 1.144 F Gruwell Street Grand Avenue to Palomar Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 9,627 0,741 C Wildomar Trail* Palomar Street to I-15 SB Ramps Sto I-15 NB Ramps 9/25/2019 & 9/26/2019 2-Lane Collector <td>Lemon Street</td> <td>Mission Trail to I-15</td> <td>9/24/2019 & 9/25/2019</td> <td>2-Lane Collector</td> <td>13,000</td> <td>3,276</td> <td>0.252</td> <td>С</td>	Lemon Street	Mission Trail to I-15	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	3,276	0.252	С
Bundy Canyon Road Orange Street to I-15 SB Ramps 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 21,443 0.597 C Bundy Canyon Road I-15 SB Ramps to Monte Vista Road 9/25/2019 & 9/26/2019 2-Lane Arterial 18,000 19,099 1.061 F Bundy Canyon Road Monte Vista Road to The Farm Road 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 18,152 1.396 F Bundy Canyon Road The Farm Road to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,869 1.14 F Gruwell Street Grand Avenue to Palomar Street 9/24/2019 & 9/26/2019 2-Lane Collector 13,000 1,580 0.199 C Wildomar Trail ¹ Grand Avenue to Palomar Street 9/24/2019 & 9/26/2019 2-Lane Collector 13,000 1,629 1.095 F Wildomar Trail ² Palomar Street to I-15 SB Ramps 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 1,029 0.854 D Wildomar Trail ² I-15 NB Ramps to Wildomar Trail ³ 9/25/2019 & 9/26/2019 2-Lane Collector 13,000<	Lemon Street	I-15 to Lost Road	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	3,613	0.278	С
Bundy Canyon Road I-15 SB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 21,367 0.595 C Bundy Canyon Road I-15 NB Ramps to Monte Vista Road 9/25/2019 & 9/26/2019 2-Lane Arterial 18,000 19,099 1.061 F Bundy Canyon Road Monte Vista Road to The Farm Road 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 18,152 1.396 F Bundy Canyon Road The Farm Road to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,869 1.14 F Bundy Canyon Road The Farm Road to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,869 1.14 F Bundy Canyon Road The Farm Road to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,269 1.199 C Wildomar Traili* Grand Avenue to Palomar Street 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,229 1.095 F Wildomar Traili* Palomar Street or I-15 NB Ramps 9/25/2019 & 9/26/2019 2-Lane Collector 13,000	Bundy Canyon Road	Mission Trail to Orange Street	9/25/2019 & 9/26/2019	2-Lane Collector	13,000	10,685	0.822	D
Bundy Canyon Road I-15 NB Ramps to Monte Vista Road 9/25/2019 & 9/26/2019 2-Lane Arterial 18,000 19,099 1.061 F Bundy Canyon Road Monte Vista Road to The Farm Road 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 18,152 1.396 F Bundy Canyon Road The Farm Road to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,869 1.144 F Gruwell Street Grand Avenue to Palomar Street 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 2,584 0.199 C Wildomar Trail¹ Grand Avenue to Palomar Street 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 9,627 0.741 C Wildomar Trail² Palomar Street to I-15 NB Ramps 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,229 1.095 F Wildomar Trail² I-15 NB Ramps to Wildomar Trail³ 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 3,559 0.274 C La Estrella Street Wildomar Trail³ to Eastern Terminus 10/1/2019 & 10/2/2019 2-Lane Collector 13,000	Bundy Canyon Road	Orange Street to I-15 SB Ramps	9/25/2019 & 9/26/2019	4-Lane Urban Arterial	35,900	21,443	0.597	С
Bundy Canyon Road Monte Vista Road to The Farm Road 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 18,152 1.396 F Bundy Canyon Road The Farm Road to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,869 1.144 F Gruwell Street Grand Avenue to Palomar Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 2,584 0.199 C Wildomar Trail¹ Grand Avenue to Palomar Street 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 9,627 0.741 C Wildomar Trail¹ Palomar Street to 1-15 SB Ramps 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 14,229 1.095 F Wildomar Trail² I-15 SB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 11,099 0.854 D Wildomar Trail² I-15 SB Ramps to Wildomar Trail³ 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 11,099 0.854 D Wildomar Trail³ 10 Eastern Terminus 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 1,227 0.094 C La Estrella Street Wildomar Trail³ to Eastern Terminus 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 1,227 0.094 C McVicar Street Grand Avenue to Palomar Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 2,458 0.189 C C C C C C Grand Avenue to Palomar Street 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 2,458 0.189 C C C C C C C C C C C C C C C C C C C	Bundy Canyon Road	I-15 SB Ramps to I-15 NB Ramps	9/25/2019 & 9/26/2019	4-Lane Urban Arterial	35,900	21,367	0.595	С
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Wildomar Trail² I-15 SB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 11,099 0.854 D Wildomar Trail² I-15 NB Ramps to Wildomar Trail³ 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 3,559 0.274 C La Estrella Street Wildomar Trail³ to Eastern Terminus 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 1,227 0.094 C McVicar Street Grand Avenue to Palomar Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 2,458 0.189 C Clinton Keith Road Grand Avenue to Palomar Street 9/25/2019 & 9/25/2019 4-Lane Collector 13,000 2,458 0.189 C Clinton Keith Road Grand Avenue to Palomar Street 9/25/2019 & 9/25/2019 4-Lane Urban Arterial 35,900 28,119 0.658 C Clinton Keith Road Hidden Springs Road to I-15 SB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 37,356 0.694 C Clinton Keith Road I-15 NB Ramps to Wildomar Trail⁴ 9/25/2019 & 9/26/2019 6-Lane Urban Arterial	Wildomar Trail ¹	Grand Avenue to Palomar Street	9/25/2019 & 9/26/2019	2-Lane Collector	13,000	9,627	0.741	С
Wildomar Trail² I-15 NB Ramps to Wildomar Trail³ 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 3,559 0.274 C La Estrella Street Wildomar Trail³ to Eastern Terminus 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 1,227 0.094 C McVicar Street Grand Avenue to Palomar Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 2,458 0.189 C Clinton Keith Road Grand Avenue to Palomar Street 9/25/2019 & 9/26/2019 4-Lane Secondary 25,900 17,051 0.658 C Clinton Keith Road Palomar Street to Hidden Springs Road 10/1/2019 & 10/2/2019 4-Lane Urban Arterial 35,900 28,119 0.783 C Clinton Keith Road Hidden Springs Road to I-15 SB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 37,356 0.694 C Clinton Keith Road I-15 NB Ramps to Wildomar Trail⁴ 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 31,650 0.588 C Clinton Keith Road I-15 NB Ramps to Wildomar Trail⁴ to Inland Valley Drive to City Limit 9/25/2019 &	Wildomar Trail ¹	Palomar Street to I-15 SB Ramps	9/25/2019 & 9/26/2019	2-Lane Collector	13,000	14,229	1.095	F
La Estrella Street Wildomar Trail³ to Eastern Terminus 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 1,227 0.094 C McVicar Street Grand Avenue to Palomar Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 2,458 0.189 C Clinton Keith Road Grand Avenue to Palomar Street 9/25/2019 & 9/26/2019 4-Lane Secondary 25,900 17,051 0.658 C Clinton Keith Road Palomar Street to Hidden Springs Road 10/1/2019 & 10/2/2019 4-Lane Urban Arterial 35,900 28,119 0.783 C Clinton Keith Road Hidden Springs Road to I-15 SB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 37,356 0.694 C Clinton Keith Road I-15 SB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 36,262 0.673 C Clinton Keith Road I-15 NB Ramps to Wildomar Trail⁴ 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 31,650 0.588 C Clinton Keith Road Wildomar Trail⁴ to Inland Valley Drive 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 31,650 0.588 C Clinton Keith Road Wildomar Trail⁴ to Inland Valley Drive 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 29,793 0.830 D Clinton Keith Road Inland Valley Drive to City Limit 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 23,439 1.803 F Prielipp Road Inland Valley Drive to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 6,859 0.528 C Grand Avenue Sheila Lane Gruwell Street 9/24/2019 8-9/25/2019 2-Lane Collector 13,000 10,378 0.577 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 8-9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	Wildomar Trail ²	I-15 SB Ramps to I-15 NB Ramps	9/25/2019 & 9/26/2019	2-Lane Collector	13,000	11,099	0.854	D
McVicar Street Grand Avenue to Palomar Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 2,458 0.189 C Clinton Keith Road Grand Avenue to Palomar Street 9/25/2019 & 9/26/2019 4-Lane Secondary 25,900 17,051 0.658 C Clinton Keith Road Palomar Street to Hidden Springs Road 10/1/2019 & 10/2/2019 4-Lane Urban Arterial 35,900 28,119 0.783 C Clinton Keith Road Hidden Springs Road to I-15 SB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 37,356 0.694 C Clinton Keith Road I-15 NB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 36,262 0.673 C Clinton Keith Road I-15 NB Ramps to Wildomar Trail ⁴ 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 31,650 0.588 C Clinton Keith Road Wildomar Trail ⁴ to Inland Valley Drive 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 29,793 0.830 D Clinton Keith Road Inland Valley Drive to City Limit 10/1/2019 & 9/26/2019	Wildomar Trail ²	I-15 NB Ramps to Wildomar Trail ³	9/25/2019 & 9/26/2019	2-Lane Collector	13,000	3,559	0.274	С
Clinton Keith Road Grand Avenue to Palomar Street 9/25/2019 & 9/26/2019 4-Lane Secondary 25,900 17,051 0.658 C Clinton Keith Road Palomar Street to Hidden Springs Road 10/1/2019 & 10/2/2019 4-Lane Urban Arterial 35,900 28,119 0.783 C Clinton Keith Road Hidden Springs Road to I-15 SB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 37,356 0.694 C Clinton Keith Road I-15 SB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 36,262 0.673 C Clinton Keith Road I-15 NB Ramps to Wildomar Trail ⁴ 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 31,650 0.588 C Clinton Keith Road Wildomar Trail ⁴ to Inland Valley Drive 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 29,793 0.830 D Clinton Keith Road Inland Valley Drive to City Limit 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 23,439 1.803 F Prielipp Road Inland Valley Drive to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 6,859 0.528 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	La Estrella Street	Wildomar Trail ³ to Eastern Terminus	10/1/2019 & 10/2/2019	2-Lane Collector	13,000	1,227	0.094	С
Clinton Keith Road Palomar Street to Hidden Springs Road 10/1/2019 & 10/2/2019 4-Lane Urban Arterial 35,900 28,119 0.783 C Clinton Keith Road Hidden Springs Road to I-15 SB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 37,356 0.694 C Clinton Keith Road I-15 SB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 36,262 0.673 C Clinton Keith Road I-15 NB Ramps to Wildomar Trail ⁴ 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 31,650 0.588 C Clinton Keith Road Wildomar Trail ⁴ to Inland Valley Drive 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 29,793 0.830 D Clinton Keith Road Inland Valley Drive to City Limit 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 23,439 1.803 F Prielipp Road Inland Valley Drive to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 6,859 0.528 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,378 0.577 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	McVicar Street	Grand Avenue to Palomar Street	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	2,458	0.189	С
Clinton Keith Road Hidden Springs Road to I-15 SB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 37,356 0.694 C Clinton Keith Road I-15 SB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 36,262 0.673 C Clinton Keith Road I-15 NB Ramps to Wildomar Trail ⁴ 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 31,650 0.588 C Clinton Keith Road Wildomar Trail ⁴ to Inland Valley Drive 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 29,793 0.830 D Clinton Keith Road Inland Valley Drive to City Limit 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 23,439 1.803 F Prielipp Road Inland Valley Drive to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 6,859 0.528 C Grand Avenue Corydon Road to Sheila Lane 9/24/2019 & 9/25/2019 2-Lane Arterial 18,000 10,378 0.577 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	Clinton Keith Road	Grand Avenue to Palomar Street	9/25/2019 & 9/26/2019	4-Lane Secondary	25,900	17,051	0.658	С
Clinton Keith Road I-15 SB Ramps to I-15 NB Ramps 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 36,262 0.673 C Clinton Keith Road I-15 NB Ramps to Wildomar Trail ⁴ 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 31,650 0.588 C Clinton Keith Road Wildomar Trail ⁴ to Inland Valley Drive 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 29,793 0.830 D Clinton Keith Road Inland Valley Drive to City Limit 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 23,439 1.803 F Prielipp Road Inland Valley Drive to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 6,859 0.528 C Grand Avenue Corydon Road to Sheila Lane 9/24/2019 & 9/25/2019 2-Lane Arterial 18,000 10,378 0.577 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	Clinton Keith Road	Palomar Street to Hidden Springs Road	10/1/2019 & 10/2/2019	4-Lane Urban Arterial	35,900	28,119	0.783	С
Clinton Keith Road I-15 NB Ramps to Wildomar Trail ⁴ 9/25/2019 & 9/26/2019 6-Lane Urban Arterial 53,850 31,650 0.588 C Clinton Keith Road Wildomar Trail ⁴ to Inland Valley Drive 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 29,793 0.830 D Clinton Keith Road Inland Valley Drive to City Limit 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 23,439 1.803 F Prielipp Road Inland Valley Drive to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 6,859 0.528 C Grand Avenue Corydon Road to Sheila Lane 9/24/2019 & 9/25/2019 2-Lane Arterial 18,000 10,378 0.577 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	Clinton Keith Road	Hidden Springs Road to I-15 SB Ramps	9/25/2019 & 9/26/2019	6-Lane Urban Arterial	53,850	37,356	0.694	С
Clinton Keith Road Wildomar Trail ⁴ to Inland Valley Drive 9/25/2019 & 9/26/2019 4-Lane Urban Arterial 35,900 29,793 0.830 D Clinton Keith Road Inland Valley Drive to City Limit 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 23,439 1.803 F Prielipp Road Inland Valley Drive to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 6,859 0.528 C Grand Avenue Corydon Road to Sheila Lane 9/24/2019 & 9/25/2019 2-Lane Arterial 18,000 10,378 0.577 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	Clinton Keith Road	I-15 SB Ramps to I-15 NB Ramps	9/25/2019 & 9/26/2019	6-Lane Urban Arterial	53,850	36,262	0.673	С
Clinton Keith Road Inland Valley Drive to City Limit 10/1/2019 & 10/2/2019 2-Lane Collector 13,000 23,439 1.803 F Prielipp Road Inland Valley Drive to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 6,859 0.528 C Grand Avenue Corydon Road to Sheila Lane 9/24/2019 & 9/25/2019 2-Lane Arterial 18,000 10,378 0.577 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	Clinton Keith Road	I-15 NB Ramps to Wildomar Trail ⁴	9/25/2019 & 9/26/2019	6-Lane Urban Arterial	53,850	31,650	0.588	C
Prielipp Road Inland Valley Drive to City Limit 9/25/2019 & 9/26/2019 2-Lane Collector 13,000 6,859 0.528 C Grand Avenue Corydon Road to Sheila Lane 9/24/2019 & 9/25/2019 2-Lane Arterial 18,000 10,378 0.577 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	Clinton Keith Road	Wildomar Trail ⁴ to Inland Valley Drive	9/25/2019 & 9/26/2019	4-Lane Urban Arterial	35,900	29,793	0.830	D
Grand Avenue Corydon Road to Sheila Lane 9/24/2019 & 9/25/2019 2-Lane Arterial 18,000 10,378 0.577 C Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	Clinton Keith Road	Inland Valley Drive to City Limit	10/1/2019 & 10/2/2019	2-Lane Collector	13,000	23,439	1.803	F
Grand Avenue Sheila Lane to Gruwell Street 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,635 0.818 D	Prielipp Road	Inland Valley Drive to City Limit	9/25/2019 & 9/26/2019	2-Lane Collector	13,000	6,859	0.528	C
	Grand Avenue	Corydon Road to Sheila Lane	9/24/2019 & 9/25/2019	2-Lane Arterial	18,000	10,378	0.577	С
Grand Avenue Gruwell Street to Wildomar Trail ¹ 9/24/2019 & 9/25/2019 2-Lane Collector 13,000 10,572 0.813 D	Grand Avenue	Sheila Lane to Gruwell Street	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	10,635	0.818	D
	Grand Avenue	Gruwell Street to Wildomar Trail ¹	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	10,572	0.813	D





Table 4.13 Existing Roadway Level of Service

Roadway	Segment	Count Dates	Functional Classification	Capacity (LOS E)	ADT	V/C	LOS
Grand Avenue	Wildomar Trail ¹ to McVicar Street	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	6,123	0.471	С
Grand Avenue	McVicar Street to Clinton Keith Road	10/9/2019 & 10/10/2019	2-Lane Collector	13,000	5,047	0.388	С
Palomar Street	Corydon Road to Mission Trail	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	3,796	0.292	С
Palomar Street	Mission Trail to Orange Street/Gruwell Street	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	8,808	0.678	С
Palomar Street	Orange Street/Gruwell Street to Wildomar Trail ¹	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	12,020	0.925	E
Palomar Street	Wildomar Trail ¹ to McVicar Street	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	8,254	0.635	С
Palomar Street	McVicar Street to Clinton Keith Road	9/24/2019 & 9/25/2019	2-Lane Arterial	18,000	9,625	0.535	С
Palomar Street	Clinton Keith Road to City Limit	9/24/2019 & 9/25/2019	2-Lane Collector	13,000	11,571	0.890	D
Mission Trail	City Limit to Lemon Street	9/24/2019 & 9/25/2019	4-Lane Arterial	35,900	20,363	0.567	С
Mission Trail	Lemon Street to Corydon Road	10/9/2019 & 10/10/2019	4-Lane Major	34,100	21,501	0.631	С
Mission Trail	Corydon Road to Bundy Canyon Road	9/24/2019 & 9/25/2019	4-Lane Arterial	35,900	14,848	0.414	С
Mission Trail	Bundy Canyon Road to Palomar Street	9/24/2019 & 9/25/2019	4-Lane Arterial	35,900	8,322	0.232	С
Orange Street	Bundy Canyon Road to Palomar Street	9/25/2019 & 9/26/2019	2-Lane Collector	13,000	3,037	0.234	С
Monte Vista Road	Bundy Canyon Road to Wildomar Trail ²	9/25/2019 & 9/26/2019	2-Lane Collector	13,000	2,533	0.195	С
Hidden Springs Road	Clinton Keith Road to South of Clinton Keith Road	9/25/2019 & 9/26/2019	4-Lane Arterial	35,900	10,574	0.295	С
Wildomar Trail ³	Wildomar Trail ¹ to La Estrella Street	10/9/2019 & 10/10/2019	2-Lane Collector	13,000	3,065	0.236	С
Wildomar Trail ⁴	La Estrella Street to Clinton Keith Road	9/25/2019 & 9/26/2019	2-Lane Collector	13,000	4,001	0.308	С
Inland Valley Drive	Clinton Keith Road to Prielipp Road	9/25/2019 & 9/26/2019	2-Lane Collector	13,000	11,756	0.904	E
Salida Del Sol	La Estrella Street to Clinton Keith Road	10/1/2019 & 10/2/2019	2-Lane Collector	13,000	845	0.065	С
Cottonwood Canyon Road	City Limit to Bundy Canyon Road	9/25/2019 & 9/26/2019	Unpaved Road	N/A	694		C or better

Source: Counts Unlimited, Inc. (September-October 2019)

Note:

Bold letter indicates substandard LOS E and F.



¹ Formerly Central Street.

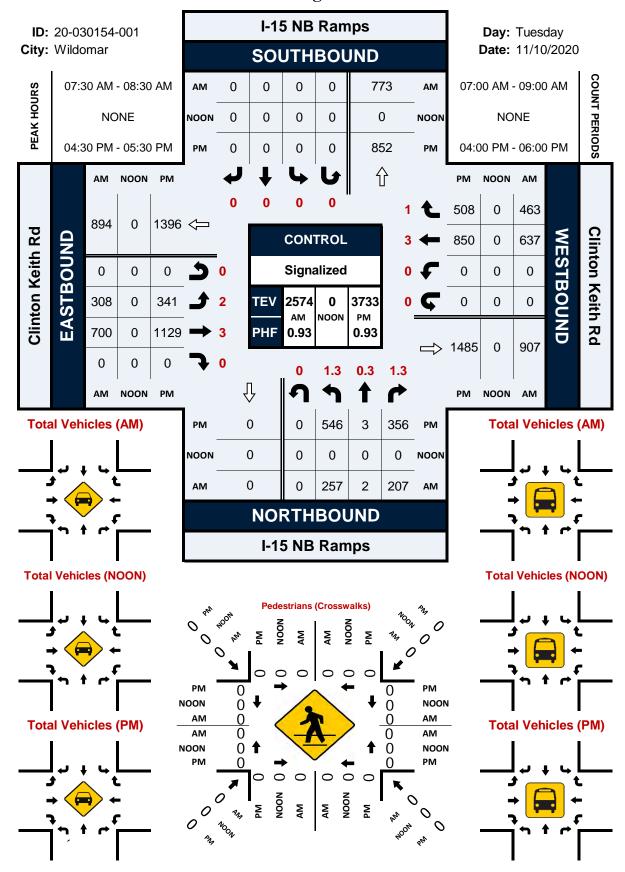
² Formerly Baxter Road.

³ Formerly Porras Road.

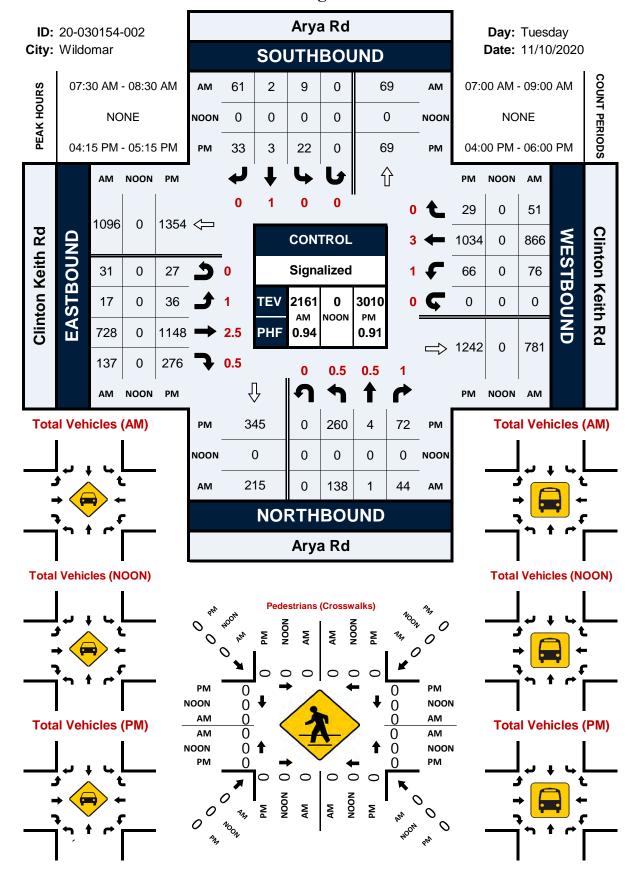
⁴ Formerly George Avenue.

2020 Counts - For Validation

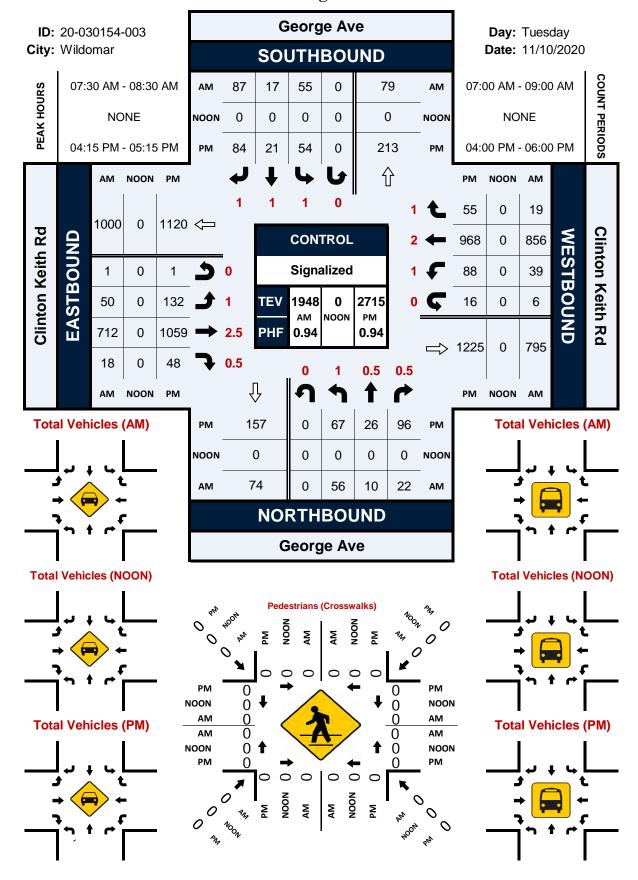
I-15 NB Ramps & Clinton Keith Rd



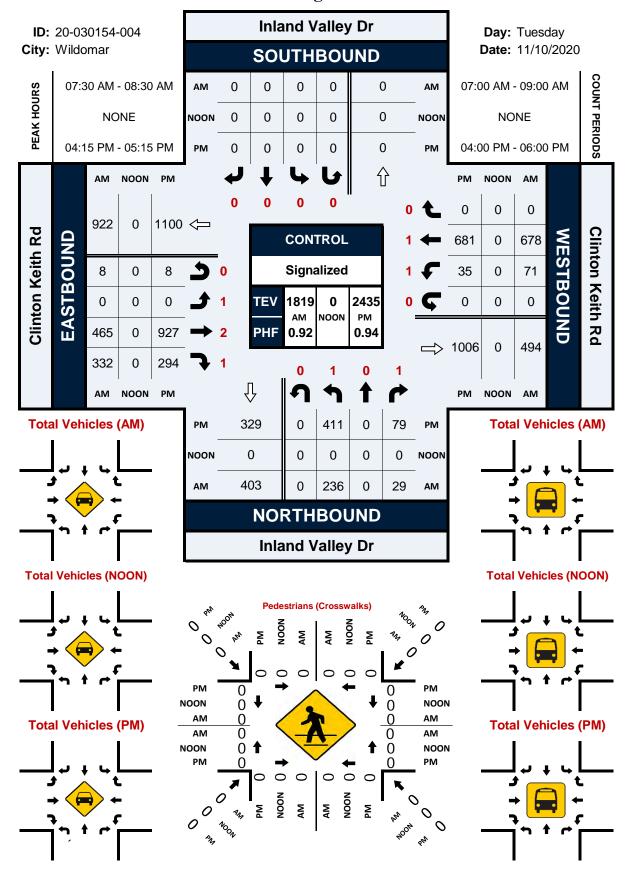
Arya Rd & Clinton Keith Rd



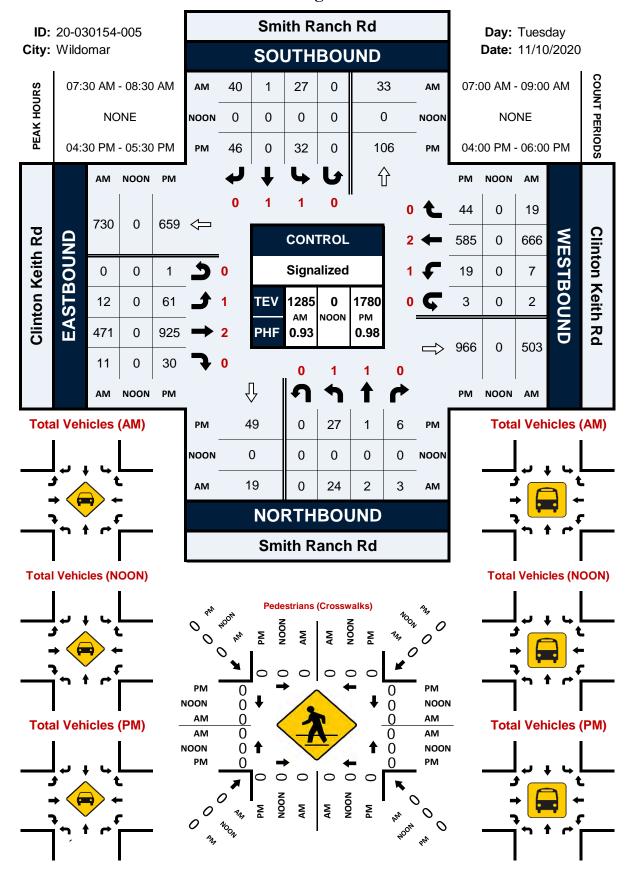
George Ave & Clinton Keith Rd



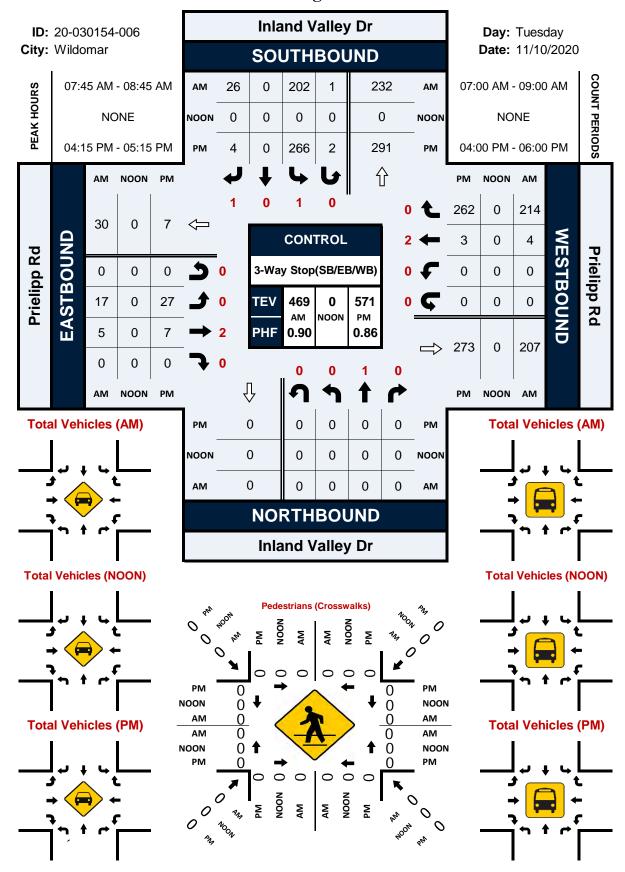
Inland Valley Dr & Clinton Keith Rd



Smith Ranch Rd & Clinton Keith Rd



Inland Valley Dr & Prielipp Rd



Clinton Keith Rd Bet. Arya Rd & George Ave

Day: Tuesday Date: 11/10/2020

City: Wildomar
Project #: CA20_030155_001

	DAILY TOTALS			NB		SB		EB	WE	3					То	otal
	DAILT TOTALS			0		0		13,273	14,72	2					27,	995
AM Period	NB SB	EB		WB		TO	TAL	PM Period	NB	SB	EB		WB		TO	TAL
00:00 00:15		33 22		18 16		51 38		12:00 12:15			210 212		206 259		416 471	
00:15		24		18		42		12:30			212		286		471	
00:45		27	106	20	72	47	178	12:45			211	839	230	981	441	1820
01:00		13		18		31		13:00			223		201		424	
01:15		28		9		37		13:15			220		204		424	
01:30 01:45		13 12	66	15 14	56	28 26	122	13:30 13:45			222 188	853	252 263	920	474 451	1773
02:00		9	00	16	30	25	122	14:00			230	033	236	320	466	1773
02:15		14		21		35		14:15			245		245		490	
02:30		11	42	13	C 7	24	110	14:30			246	052	258	000	504	1051
02:45 03:00		9 11	43	17 24	67	26 35	110	14:45 15:00			232 250	953	259 279	998	491 529	1951
03:15		15		30		45		15:15			275		269		544	
03:30		10		38		48		15:30			283		260		543	
03:45		18	54	39	131	57	185	15:45			239	1047	317	1125	556	2172
04:00 04:15		17 15		59 78		76 93		16:00 16:15			295 279		299 298		594 577	
04:30		20		117		137		16:30			290		292		582	
04:45		44	96	101	355	145	451	16:45			297	1161	255	1144	552	2305
05:00		52		109		161		17:00			306		340		646	
05:15 05:30		49 47		109 134		158 181		17:15 17:30			281 280		247 224		528 504	
05:45		89	237	138	490	227	727	17:45			275	1142	213	1024	488	2166
06:00		73		130		203		18:00			278		197		475	
06:15		88		157		245		18:15			253		190		443	
06:30 06:45		110 148	419	196 187	670	306 335	1089	18:30 18:45			214 263	1008	166 161	714	380 424	1722
07:00		127	415	171	070	298	1009	19:00			226	1008	143	/14	369	1/22
07:15		138		232		370		19:15			169		135		304	
07:30		177		245		422		19:30			158		128		286	
07:45 08:00		197 170	639	282 250	930	479 420	1569	19:45 20:00			140 113	693	119 102	525	259 215	1218
08:15		207		240		447		20:15			122		102		215	
08:30		173		253		426		20:30			113		89		202	
08:45		198	748	275	1018	473	1766	20:45			96	444	69	365	165	809
09:00		148		225		373 374		21:00 21:15			88 95		88 60		176 155	
09:15 09:30		163 156		211 207		363		21:30			95 68		42		110	
09:45		178	645	239	882	417	1527	21:45			70	321	50	240	120	561
10:00		172		201		373		22:00			67		36		103	
10:15		154		227		381		22:15 22:30			63		42		105	
10:30 10:45		158 171	655	230 220	878	388 391	1533	22:45			54 55	239	26 26	130	80 81	369
11:00		168		218		386		23:00			36		29	-30	65	
11:15		172		217		389		23:15			44		28		72	
11:30		206	727	214	906	420	1622	23:30 23:45			30	120	30 24	111	60 52	240
11:45 TOTALS		181	727 4435	247	896 6445	428	1623 10880	TOTALS			28	138 8838	24	111 8277	52	249 17115
SPLIT %			40.8%		59.2%		38.9%	SPLIT %				51.6%		48.4%		61.1%
	DAILY TOTALS			NB		SB		EB	WE	:						otal
				0		0		13,273	14,72	2					27,	995
AM Peak Hour			11:30		07:45		11:45	PM Peak Hour				16:30		15:45		16:15
AM Pk Volume			809		1025		1807	PM Pk Volume				1174		1206		2357
Pk Hr Factor			0.954		0.909		0.918	Pk Hr Factor				0.959		0.951		0.912
7 - 9 Volume			1387		1948		3335	4 - 6 Volume				2303		2168		4471
7 - 9 Peak Hour			07:30		07:45		07:45	4 - 6 Peak Hour 4 - 6 Pk Volume				16:30		16:15		16:15
7 - 9 Pk Volume Pk Hr Factor			751 0.907		1025 0.909		1772 0.925	Pk Hr Factor				1174 0.959		1185 0.871		2357 0.912
PK HI FACTOR	0.000		0.907		0.909		0.925	rk mi ractor	0.00		J. U UU	0.959		0.871		0.912

Clinton Keith Rd Bet. George Ave & Inland Valley Dr

Day: Tuesday Date: 11/10/2020

City: Wildomar **Project #:** CA20_030155_002

	DAILY TOTALS			NB		SB		EB	WE	3_					To	otal
	DAILT TOTALS			0		0		13,147	14,11	L7					27,	264
AM Period	NB SB	EB		WB		TC	TAL	PM Period	NB	SB	EB		WB		то	TAL
00:00 00:15		30 23		20 20		50 43		12:00 12:15			216 217		234 238		450 455	
00:30		24		26		50		12:30			217		235		450	
00:45		28	105	20	86	48	191	12:45			202	850	203	910	405	1760
01:00 01:15		12 26		12 14		24 40		13:00 13:15			200 225		206 196		406 421	
01:30		13		11		24		13:30			244		241		485	
01:45		13	64	10	47	23	111	13:45			192	861	211	854	403	1715
02:00 02:15		9 14		19 18		28 32		14:00 14:15			240 240		222 281		462 521	
02:30		10		7		17		14:30			254		344		598	
02:45		10	43	26	70	36	113	14:45			248	982	314	1161	562	2143
03:00 03:15		7 8		21 29		28 37		15:00 15:15			268 266		292 278		560 544	
03:30		8		28		36		15:30			299		282		581	
03:45		14	37	42	120	56	157	15:45			213	1046	251	1103	464	2149
04:00 04:15		15 13		70 79		85 92		16:00 16:15			298 270		253 231		551 501	
04:13		20		106		126		16:30			303		249		552	
04:45		46	94	98	353	144	447	16:45			283	1154	262	995	545	2149
05:00 05:15		45 53		97 101		142 154		17:00 17:15			297 261		299 266		596 527	
05:30		49		110		159		17:30			281		243		524	
05:45		94	241	112	420	206	661	17:45			266	1105	228	1036	494	2141
06:00 06:15		84 85		141 156		225 241		18:00 18:15			275 230		210 167		485 397	
06:30		119		164		283		18:30			209		153		362	
06:45		155	443	173	634	328	1077	18:45			252	966	175	705	427	1671
07:00 07:15		131 134		198 186		329 320		19:00 19:15			208 179		137 110		345 289	
07:30		173		223		396		19:30			140		127		267	
07:45		198	636	233	840	431	1476	19:45			147	674	102	476	249	1150
08:00 08:15		164 204		245 221		409 425		20:00 20:15			106 120		105 104		211 224	
08:30		168		246		414		20:30			125		85		210	
08:45		191	727	214	926	405	1653	20:45			104	455	72	366	176	821
09:00 09:15		140 162		172 204		312 366		21:00 21:15			85 85		91 52		176 137	
09:30		143		188		331		21:30			74		64		138	
09:45		170	615	211	775	381	1390	21:45			66	310	71	278	137	588
10:00 10:15		159 166		232 180		391 346		22:00 22:15			64 59		35 59		99 118	
10:30		161		202		363		22:30			46		44		90	
10:45		181	667	183	797	364	1464	22:45			59	228	44	182	103	410
11:00 11:15		160 176		206 231		366 407		23:00 23:15			30 42		22 24		52 66	
11:30		196		212		407		23:30			28		32		60	
11:45		185	717	221	870	406	1587	23:45			27	127	35	113	62	240
TOTALS			4389		5938		10327	TOTALS				8758		8179		16937
SPLIT %			42.5%		57.5%		37.9%	SPLIT %				51.7%		48.3%		62.1%
	DAILY TOTALS			NB		SB		ЕВ	WE	B					To	tal
	DAILI TOTALS			0		0		13,147	14,11	17					27,	264
AM Peak Hour			11:45		07:45		11:45	PM Peak Hour				16:00		14:15		14:30
AM Pk Volume			833		945		1761	PM Pk Volume				1154		1231		2264
Pk Hr Factor			0.960		0.960		0.968	Pk Hr Factor			0	0.952		0.895		0.946
7 - 9 Volume 7 - 9 Peak Hour			1363 07:30		1766 07:45		3129 07:45	4 - 6 Volume 4 - 6 Peak Hour				2259 16:00		2031 16:30		4290 16:30
7 - 9 Pk Volume			739		945		1679	4 - 6 Pk Volume				1154		10.30		2220
Pk Hr Factor	0.000 0.000		0.906		0.960		0.974	Pk Hr Factor	0.00	0	0.000	0.952		0.900		0.931

Clinton Keith Rd Bet. Inland Valley Dr & Smith Ranch Rd

Day: Tuesday Date: 11/10/2020

City: Wildomar Project #: CA20_030155_003

	DAILY TOTALS			NB		SB		EB	WB							otal
				0		0		9,832	10,108						19,	940
AM Period	NB SB	EB		WB		TO	TAL	PM Period	NB	SB	EB		WB		TO	TAL
00:00 00:15		20 16		8 13		28 29		12:00 12:15			172 139		139 145		311 284	
00:30		21		11		32		12:30			154		156		310	
00:45		22	79	14	46	36	125	12:45			150	615	143	583	293	1198
01:00		13		7		20		13:00			144		141		285	
01:15 01:30		20 14		9 12		29 26		13:15 13:30			146 162		153 154		299 316	
01:45		6	53	7	35	13	88	13:45			152	604	170	618	322	1222
02:00		11		13		24		14:00			182		151		333	
02:15		11		12		23		14:15			163		183		346	
02:30 02:45		6 5	33	8 12	45	14 17	78	14:30 14:45			220 178	743	163 152	649	383 330	1392
03:00		6		21	-13	27	,,,	15:00			164	7-13	198	013	362	1332
03:15		8		18		26		15:15			196		194		390	
03:30		11	22	28	101	39	124	15:30			236	765	158	770	394	1544
03:45 04:00		8 12	33	34 44	101	42 56	134	15:45 16:00			169 237	765	229 171	779	398 408	1544
04:15		18		57		75		16:15			226		207		433	
04:30		16		91		107		16:30			258	05-	179		437	
04:45		23 38	69	80 73	272	103	341	16:45 17:00			265 263	986	167	724	432 445	1710
05:00 05:15		38 31		73 87		111 118		17:00 17:15			263		182 164		393	
05:30		42		98		140		17:30			235		166		401	
05:45		51	162	109	367	160	529	17:45			208	935	176	688	384	1623
06:00		54		103		157		18:00 18:15			211		147		358	
06:15 06:30		68 79		125 139		193 218		18:30			188 152		151 125		339 277	
06:45		89	290	153	520	242	810	18:45			173	724	122	545	295	1269
07:00		63		161		224		19:00			163		100		263	
07:15 07:30		95 139		152 184		247 323		19:15 19:30			143 121		87 80		230 201	
07:45		124	421	227	724	351	1145	19:45			96	523	84	351	180	874
08:00		112		179		291		20:00			99		71		170	
08:15		132		175		307		20:15			94		59		153	
08:30 08:45		124 116	484	184 216	754	308 332	1238	20:30 20:45			82 68	343	50 43	223	132 111	566
09:00		96	101	152	751	248	1230	21:00			71	3-13	25	223	96	300
09:15		97		172		269		21:15			79		21		100	
09:30		109	121	143 170	627	252 302	1071	21:30 21:45			44 44	220	36 39	121	80 83	250
09:45 10:00		132 127	434	139	637	266	1071	22:00			40	238	27	121	67	359
10:15		119		135		254		22:15			41		26		67	
10:30		120	460	172	F.C.2	292	4676	22:30			45	46.	21	00	66	252
10:45 11:00		122 132	488	142 145	588	264 277	1076	22:45 23:00			38 24	164	15 17	89	53 41	253
11:15		142		140		282		23:15			35		22		57	
11:30		144		145		289		23:30			26		20		46	
11:45		121	539	137	567	258	1106	23:45			22	107	23	82	45	189
TOTALS			3085		4656		7741	TOTALS				6747		5452		12199
SPLIT %			39.9%		60.1%		38.8%	SPLIT %				55.3%		44.7%		61.2%
	DAILY TOTALS			NB		SB		EB	WB						To	otal
	DAILT TOTALS			0		0		9,832	10,108						19,	940
AM Peak Hour			11:45		07:30		07:30	PM Peak Hour				16:30		15:45		16:15
AM Pk Volume			586		765		1272	PM Pk Volume				1015		786		1747
Pk Hr Factor			0.852		0.843		0.906	Pk Hr Factor				0.958		0.858		0.981
7 - 9 Volume			905		1478		2383	4 - 6 Volume				1921		1412		3333
7 - 9 Peak Hour			07:30		07:30		07:30	4 - 6 Peak Hour 4 - 6 Pk Volume				16:30		16:15		16:15
7 - 9 Pk Volume Pk Hr Factor			507 0.912		765 0.843		1272 0.906	Pk Hr Factor				1015 0.958		735 0.888		1747 0.981
I KIII Factor	0.000 0.000		0.512		0.043		0.500	I KIII FACTOI	0.000	0:00		0.330		0.000		0.301

Inland Valley Dr Bet. Clinton Keith Rd & Prielipp Rd

Day: Tuesday Date: 11/10/2020

City: Wildomar
Project #: CA20_030155_004

	D	AILY T	ГОТА	LS		NB	SB		EB		WB							otal
				0		5,042	4,983		0		0							,025
AM Period	NB		SB		EB	WB	TO	ΓAL	PM Period	NB		SB		EB	\	WB		OTAL
00:00 00:15	11 6		5 8				16 14		12:00 12:15	110 109		89 88					199 197	
00:30	8		6				14		12:30	96		75					171	
00:45	11	36	7	26			18	62	12:45	88	403	100	352				188	755
01:00 01:15	12 6		4 9				16 15		13:00 13:15	65 64		88 93					153 157	
01:30	5		1				6		13:30	95		87					182	
01:45	4	27	6	20			10	47	13:45	88	312	80	348				168	660
02:00 02:15	4 9		1 1				5 10		14:00 14:15	77 89		85 105					162 194	
02:30	7		4				11		14:30	135		87					222	
02:45	3	23	3	9			6	32	14:45	87	388	92	369				179	757
03:00 03:15	6 7		3 4				9 11		15:00 15:15	87 85		89 105					176 190	
03:30	6		2				8		15:30	118		105					223	
03:45	9	28	11	20			20	48	15:45	100	390	86	385				186	775
04:00 04:15	13 16		5 4				18 20		16:00 16:15	114 103		94 74					208 177	
04:30	22		6				28		16:30	119		99					218	
04:45	16	67	29	44			45	111	16:45 17:00	107 170	443	75	342				182	785
05:00 05:15	20 20		17 30				37 50		17:00 17:15	170 89		81 67					251 156	
05:30	27		20				47		17:30	82		75					157	
05:45	22	89	50	117			72	206	17:45	75	416	85	308				160	724
06:00 06:15	14 31		27 22				41 53		18:00 18:15	80 68		78 78					158 146	
06:30	53		51				104		18:30	63		75					138	
06:45	31	129	101	201			132	330	18:45	53	264	92	323				145	587
07:00 07:15	37 52		63 48				100 100		19:00 19:15	63 50		62 55					125 105	
07:30	61		63				124		19:30	73		43					116	
07:45	74	224	121	295			195	519	19:45	45	231	53	213				98	444
08:00 08:15	67 63		88 133				155 196		20:00 20:15	55 37		33 33					88 70	
08:30	79		97				176		20:30	32		31					63	
08:45	62	271	111	429			173	700	20:45	27	151	26	123				53	274
09:00 09:15	62 57		69 97				131 154		21:00 21:15	38 24		15 16					53 40	
09:30	70		70				140		21:30	20		27					47	
09:45	74	263	79	315			153	578	21:45	15	97	16	74				31	171
10:00 10:15	68 93		65 68				133 161		22:00 22:15	14 15		17 21					31 36	
10:30	66		74				140		22:30	11		13					24	
10:45	80	307	77	284			157	591	22:45	20	60	10	61				30	121
11:00 11:15	102 86		69 56				171 142		23:00 23:15	12 15		9 10					21 25	
11:30	89		82				171		23:30	12		4					16	
11:45	101	378	85	292			186	670	23:45	6	45	10	33				16	78
TOTALS		1842		2052				3894	TOTALS		3200		2931					6131
SPLIT %		47.3%		52.7%				38.8%	SPLIT %		52.2%		47.8%					61.2%
	D.	AILY 1	ГОТА	LS		NB F 042	SB		EB		WB							otal
						5,042	4,983		0		0						_ 10	,025
AM Peak Hour		11:45		07:45				11:30	PM Peak Hour		16:15		14:45					16:15
AM Pk Volume Pk Hr Factor		416 0.945		439 0.825				753 0.946	PM Pk Volume Pk Hr Factor		499 0.734		391 0.931					828 0.825
7 - 9 Volume		495		724	0	0		1219	4 - 6 Volume		859		650		0		0	1509
7 - 9 Peak Hour		07:45		07:45				07:45	4 - 6 Peak Hour		16:15		16:00					16:15
7 - 9 Pk Volume		283		439				722	4 - 6 Pk Volume		499		342					828
Pk Hr Factor		0.896		0.825	0.00	0.000)	0.921	Pk Hr Factor		0.734		0.864	0.	.000	0.0	000	0.825

Prielipp Rd E/O Inland Valley Rd

Day: Tuesday Date: 11/10/2020

City: Wildomar **Project #:** CA20_030155_005

	DAILY TOTALS			NB		SB		EB	1	NB_							otal
	DAILT TOTALS			0		0		3,136	3,	194						6,3	330
AM Period	NB SB	EB		WB		TO	TAL	PM Period	NB	S	В	EB		WB		TO	TAL
00:00		4		6		10		12:00				58		63		121	
00:15		5		2		7		12:15 12:30				61		67		128	
00:30 00:45		0 4	13	4 2	14	4 6	27	12:45				46 58	223	66 66	262	112 124	485
01:00		2		4	14	6		13:00				48	223	41	202	89	403
01:15		9		2		11		13:15				51		41		92	
01:30		0		1		1		13:30				45		70		115	
01:45		3	14	3	10	6	24	13:45				43	187	56	208	99	395
02:00 02:15		1 1		1 4		2 5		14:00 14:15				48 48		54 59		102 107	
02:30		0		3		3		14:30				64		84		148	
02:45		2	4	3	11	5	15	14:45				54	214	52	249	106	463
03:00		1		3		4		15:00				61		59		120	
03:15		3		4		7		15:15				66		52		118	
03:30 03:45		1 4	9	4 5	16	5 9	25	15:30 15:45				71 62	260	70 55	236	141 117	496
04:00		6	3	14	10	20	23	16:00				72	200	75	230	147	430
04:15		1		14		15		16:15				53		55		108	
04:30		2		20		22		16:30				76		67		143	
04:45		17	26	17	65	34	91	16:45				76	277	60	257	136	534
05:00 05:15		14 22		19 14		33 36		17:00 17:15				70 46		81 57		151 103	
05:30		10		26		36		17:30				74		48		122	
05:45		29	75	22	81	51	156	17:45				65	255	39	225	104	480
06:00		15		9		24		18:00				73		49		122	
06:15		10		27		37		18:15				59		43		102	
06:30		13	60	40	100	53	477	18:30 18:45				52	227	41	160	93	406
06:45 07:00		30 35	68	33 32	109	63 67	177	19:00				53 50	237	36 28	169	89 78	406
07:15		28		42		70		19:15				47		23		70	
07:30		25		47		72		19:30				34		21		55	
07:45		56	144	59	180	115	324	19:45				49	180	28	100	77	280
08:00		51		59		110 107		20:00 20:15				37		24		61	
08:15 08:30		58 47		49 58		107		20:15				29 33		24 25		53 58	
08:45		55	211	48	214	103	425	20:45				20	119	22	95	42	214
09:00		36		46		82		21:00				13		21		34	
09:15		56		33		89		21:15				14		17		31	
09:30		37	450	38	161	75	240	21:30				19		9		28	115
09:45 10:00		29 29	158	44 45	161	73 74	319	21:45 22:00				11 13	57	11 7	58	22	115
10:00		42		54		96		22:15				12		8		20	
10:30		35		38		73		22:30				9		6		15	
10:45		43	149	48	185	91	334	22:45				8	42	16	37	24	79
11:00		42		68		110		23:00				7		4		11	
11:15 11:30		41 49		47 59		88 108		23:15 23:30				8 4		3 10		11 14	
11:45		49 57	189	59	233	116	422	23:45				6	25	2	19	8	44
TOTALS			1060		1279		2339	TOTALS					2076		1915		3991
SPLIT %			45.3%		54.7%		37.0%	SPLIT %					52.0%		48.0%		63.0%
	DAILY TOTALS			NB 0		SB 0		EB 3,136		NB 194							otal 330
									— з,	134						-0,5	
AM Peak Hour			11:30		11:45		11:45	PM Peak Hour					16:00		16:30		16:15
AM Pk Volume			225		255		477	PM Pk Volume					277		265		538
Pk Hr Factor			0.922		0.951		0.932	Pk Hr Factor		0			0.911		0.818		0.891
7 - 9 Volume			355		394		749 07:45	4 - 6 Volume					532 16:00		482 16:20		1014
7 - 9 Peak Hour 7 - 9 Pk Volume			07:45		07:45		07:45	4 - 6 Peak Hour 4 - 6 Pk Volume					16:00		16:30		16:15
Pk Hr Factor			212 0.914		225 0.953		437 0.950	Pk Hr Factor					277 0.911		265 0.818		538 0.891
FK III FACLUF	0.000		0.914		0.953		0.950	rk mr ractor	U.	.000	0.00	U	0.911		0.618		0.031

APPENDIX B

PEAK HOUR INTERSECTION ANALYSIS WORKSHEETS - EXISTING

	۶	→	*	•	←	4	1	†	~	/	†	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ተተተ	7	1,1	^					ሻ	र्स	77
Traffic Volume (veh/h)	0	824	679	342	699	0	0	0	0	468	2	400
Future Volume (veh/h)	0	824	679	342	699	0	0	0	0	468	2	400
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	1870	1870
Adj Flow Rate, veh/h	0	896	738	372	760	0				510	0	435
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	2	2
Cap, veh/h	0	2636	818	446	3555	0				623	0	554
Arrive On Green	0.00	0.52	0.52	0.17	0.93	0.00				0.17	0.00	0.17
Sat Flow, veh/h	0	5274	1585	3456	5274	0				3563	0	3170
Grp Volume(v), veh/h	0	896	738	372	760	0				510	0	435
Grp Sat Flow(s), veh/h/ln	0	1702	1585	1728	1702	0				1781	0	1585
Q Serve(g_s), s	0.0	9.3	37.9	9.4	1.2	0.0				12.4	0.0	11.8
Cycle Q Clear(g_c), s	0.0	9.3	37.9	9.4	1.2	0.0				12.4	0.0	11.8
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2636	818	446	3555	0				623	0	554
V/C Ratio(X)	0.00	0.34	0.90	0.83	0.21	0.00				0.82	0.00	0.78
Avail Cap(c_a), veh/h	0	2636	818	553	3555	0				800	0	712
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.92	0.92	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.8	19.7	36.4	1.1	0.0				35.8	0.0	35.5
Incr Delay (d2), s/veh	0.0	0.4	15.1	6.8	0.1	0.0				4.2	0.0	3.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	3.2	15.2	4.0	0.3	0.0				5.6	0.0	4.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.1	34.8	43.2	1.2	0.0				39.9	0.0	38.8
LnGrp LOS	Α	В	С	D	А	Α				D	Α	D
Approach Vol, veh/h		1634			1132						945	
Approach Delay, s/veh		22.9			15.0						39.4	
Approach LOS		C			В						D	
Timer - Assigned Phs	1	2		4		6						
	16.2					68.5						
Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s		52.3		21.5		5.8						
	4.6	5.8		5.8								
Max Green Setting (Gmax), s Max Q Clear Time (q_c+11), s	14.4	39.2		20.2		58.2						
	11.4	39.9		14.4		3.2						
Green Ext Time (p_c), s	0.2	0.0		1.3		3.4						
Intersection Summary			24.7									
HCM 6th Ctrl Delay			24.7									
HCM 6th LOS			С									
Notes												

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻሻ	ተተተ			ተተተ	7	*	4	7				
Traffic Volume (veh/h)	372	920	0	0	731	537	310	1	248	0	0	0	
Future Volume (veh/h)	372	920	0	0	731	537	310	1	248	0	0	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0				
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00				
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870				
Adj Flow Rate, veh/h	400	989	0	0	786	519	416	0	178				
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93				
Percent Heavy Veh, %		0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93				
	472	3657					552		245				
Cap, veh/h		0.72	0	0	2671	829		0					
Arrive On Green	0.14		0.00	0.00	0.52	0.52	0.15	0.00	0.15				
Sat Flow, veh/h	3456	5274	0	0	5274	1585	3563	0	1585				
Grp Volume(v), veh/h	400	989	0	0	786	519	416	0	178				
Grp Sat Flow(s),veh/h/l		1702	0	0	1702	1585	1781	0	1585				
Q Serve(g_s), s	10.2	6.1	0.0	0.0	7.8	20.9	10.1	0.0	9.6				
Cycle Q Clear(g_c), s	10.2	6.1	0.0	0.0	7.8	20.9	10.1	0.0	9.6				
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00				
Lane Grp Cap(c), veh/ł		3657	0	0	2671	829	552	0	245				
V/C Ratio(X)	0.85	0.27	0.00	0.00	0.29	0.63	0.75	0.00	0.73				
Avail Cap(c_a), veh/h	495	3657	0	0	2671	829	1029	0	458				
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Upstream Filter(I)	0.89	0.89	0.00	0.00	0.90	0.90	1.00	0.00	1.00				
Uniform Delay (d), s/ve	h 37.9	4.5	0.0	0.0	12.1	15.2	36.4	0.0	36.2				
Incr Delay (d2), s/veh	11.3	0.2	0.0	0.0	0.3	3.2	2.1	0.0	4.1				
Initial Q Delay(d3),s/ve	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
%ile BackOfQ(50%),ve		1.5	0.0	0.0	2.7	7.2	4.5	0.0	3.9				
Unsig. Movement Dela		1											
LnGrp Delay(d),s/veh	49.2	4.7	0.0	0.0	12.4	18.4	38.5	0.0	40.3				
LnGrp LOS	D	Α	А	А	В	В	D	А	D				
Approach Vol, veh/h		1389	• •	,,	1305			594					
Approach Vol, ven/ii Approach Delay, s/veh		17.5			14.8			39.0					
Approach LOS		17.3 B			В			D					
Approach LOS		D			D			D					
Timer - Assigned Phs		2			5	6		8					
Phs Duration (G+Y+Ro	:), s	70.3			17.4	52.9		19.7					
Change Period (Y+Rc)		5.8			5.1	5.8		5.8					
Max Green Setting (Gn		52.4			12.9	34.4		26.0					
Max Q Clear Time (g_c		8.1			12.2	22.9		12.1					
Green Ext Time (p_c),		7.7			0.1	5.3		1.9					
Intersection Summary					0.1	0.0		1.7					
HCM 6th Ctrl Delay			20.3										
HCM 6th LOS			С										
Votes													

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	*	ተተኈ		*	ተተኈ			स	7		4		
Traffic Volume (veh/h)	73	913	265	109	1047	62	221	5	85	24	8	60	
Future Volume (veh/h)	73	913	265	109	1047	62	221	5	85	24	8	60	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	78	971	282	116	1114	66	235	5	90	26	9	64	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	99	1692	490	141	2237	132	229	4	523	39	29	52	
Arrive On Green	0.06	0.43	0.43	0.16	0.91	0.91	0.33	0.33	0.33	0.33	0.33	0.33	
	1781	3930	1139	1781	4930	292	508	11	1585	0.33	87	158	
Sat Flow, veh/h													
Grp Volume(v), veh/h	78	841	412	116	769	411	240	0	90	99	0	0	
Grp Sat Flow(s), veh/h/l		1702	1665	1781	1702	1818	519	0	1585	245	0	0	
Q Serve(g_s), s	5.0	21.7	21.7	7.3	4.4	4.4	0.0	0.0	4.7	0.0	0.0	0.0	
Cycle Q Clear(g_c), s	5.0	21.7	21.7	7.3	4.4	4.4	38.3	0.0	4.7	38.3	0.0	0.0	
Prop In Lane	1.00		0.68	1.00		0.16	0.98		1.00	0.26		0.65	
Lane Grp Cap(c), veh/h		1466	717	141	1544	825	233	0	523	120	0	0	
V/C Ratio(X)	0.78	0.57	0.57	0.82	0.50	0.50	1.03	0.00	0.17	0.82	0.00	0.00	
Avail Cap(c_a), veh/h	198	1466	717	250	1544	825	233	0	523	120	0	0	
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.96	0.96	0.96	0.86	0.86	0.86	1.00	0.00	1.00	1.00	0.00	0.00	
Uniform Delay (d), s/ve	h 54.1	25.0	25.0	48.1	3.1	3.1	43.9	0.0	27.6	32.3	0.0	0.0	
Incr Delay (d2), s/veh	4.8	1.6	3.2	4.0	1.0	1.9	67.3	0.0	0.2	35.3	0.0	0.0	
Initial Q Delay(d3),s/ve	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	h/ln2.3	8.6	8.7	3.1	1.2	1.4	11.2	0.0	1.8	3.1	0.0	0.0	
Unsig. Movement Dela		١											
LnGrp Delay(d),s/veh	58.9	26.6	28.2	52.0	4.1	5.0	111.2	0.0	27.7	67.6	0.0	0.0	
LnGrp LOS	E	С	С	D	Α	Α	F	А	С	E	А	А	
Approach Vol, veh/h		1331			1296		•	330			99		
Approach Delay, s/veh		29.0			8.7			88.4			67.6		
Approach LOS		2 7.0 C			Α.			60.4 F			67.0 F		
		U									L		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	5), \$5.3	56.7		44.0	12.6	59.4		44.0					
Change Period (Y+Rc)	, s 6.1	6.8		* 5.7	6.1	6.8		* 5.7					
Max Green Setting (Gn		42.8		* 38	12.9	46.2		* 38					
Max Q Clear Time (q_c				40.3	7.0	6.4		40.3					
Green Ext Time (p_c),		13.2		0.0	0.0	19.6		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			28.0										
HCM 6th LOS			20.0 C										
			U										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement E	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	^	7	ሻ	^	7	ሻ	ĵ.		ሻ	†	7	
	130	788	9	84	935	23	65	14	43	83	23	249	
Future Volume (veh/h)	130	788	9	84	935	23	65	14	43	83	23	249	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1	00.1		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln 18	870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	138	838	10	89	995	24	69	15	46	88	24	265	
Peak Hour Factor 0).94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	163	2067	922	111	1963	875	257	77	235	275	355	301	
).18	1.00	1.00	0.12	1.00	1.00	0.19	0.19	0.19	0.19	0.19	0.19	
Sat Flow, veh/h 1	781	3554	1585	1781	3554	1585	1090	405	1242	1341	1870	1585	
Grp Volume(v), veh/h	138	838	10	89	995	24	69	0	61	88	24	265	
Grp Sat Flow(s), veh/h/ln1	781	1777	1585	1781	1777	1585	1090	0	1647	1341	1870	1585	
Q Serve(g_s), s	8.7	0.0	0.0	5.6	0.0	0.0	6.4	0.0	3.6	6.9	1.2	18.9	
Cycle Q Clear(g_c), s	8.7	0.0	0.0	5.6	0.0	0.0	7.7	0.0	3.6	10.5	1.2	18.9	
	1.00		1.00	1.00		1.00	1.00		0.75	1.00		1.00	
Lane Grp Cap(c), veh/h	163	2067	922	111	1963	875	257	0	312	275	355	301	
V/C Ratio(X) 0).84	0.41	0.01	0.80	0.51	0.03	0.27	0.00	0.20	0.32	0.07	0.88	
Avail Cap(c_a), veh/h	267	2067	922	192	1963	875	380	0	497	425	564	478	
	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 0).87	0.87	0.87	0.90	0.90	0.90	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh 4	16.6	0.0	0.0	50.1	0.0	0.0	41.7	0.0	39.6	44.0	38.6	45.7	
J \ /.	5.3	0.5	0.0	4.5	0.8	0.1	0.6	0.0	0.3	0.7	0.1	11.1	
J ().	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/li		0.1	0.0	2.5	0.2	0.0	1.8	0.0	1.5	2.3	0.6	8.3	
Unsig. Movement Delay, s													
3 . ,	51.9	0.5	0.0	54.6	0.8	0.1	42.3	0.0	39.9	44.6	38.7	56.8	
LnGrp LOS	D	A	<u>A</u>	D	<u>A</u>	A	D	Α	D	D	D	<u>E</u>	_
Approach Vol, veh/h		986			1108			130			377		
Approach Delay, s/veh		7.7			5.1			41.1			52.8		
Approach LOS		А			Α			D			D		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc), 1	\$3.3	74.3		28.4	16.7	70.9		28.4					
Change Period (Y+Rc), s		6.8		6.4	6.1	6.8		6.4					
Max Green Setting (Gma)		49.2		35.0	17.4	44.3		35.0					
Max Q Clear Time (g_c+l		2.0		20.9	10.7	2.0		9.7					
Green Ext Time (p_c), s		15.3		1.1	0.1	16.9		0.6					
Intersection Summary													
HCM 6th Ctrl Delay			14.8										
HCM 6th LOS			14.0 B										
HOW OUT LOS			D										

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Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	J
Lane Configurations	t TD0	^	7	ነ	^	ኘ	7	
Traffic Volume (veh/h)	0	572	458	108	765	248	32	
Future Volume (veh/h)	0	572	458	108	765	248	32	
Initial Q (Qb), veh		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)			1.00	1.00		1.00	1.00	
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	1	No			No	No		
Adj Sat Flow, veh/h/ln		1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h		622	448	117	832	270	35	
Peak Hour Factor		0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %		2	2	2	2	2	2	
Cap, veh/h		2049	914	143	2522	308	274	
Arrive On Green		1.00	1.00	0.08	0.71	0.17	0.17	
Sat Flow, veh/h		3647	1585	1781	3647	1781	1585	
Grp Volume(v), veh/h		622	448	117	832	270	35	
Grp Sat Flow(s), veh/h/ln		1777	1585	1781	1777	1781	1585	
Q Serve(g_s), s		0.0	0.0	7.5	10.3	17.1	2.2	
		0.0	0.0	7.5	10.3	17.1	2.2	
Cycle Q Clear(g_c), s		0.0		1.00	10.3	1.00		
Prop In Lane		2040	1.00 914	1.00	2522		1.00 274	
Lane Grp Cap(c), veh/h V/C Ratio(X)		2049	0.49			308		
. ,		0.30		0.82	0.33	0.88	0.13	
Avail Cap(c_a), veh/h		2049	914	275	2522	505	450	
HCM Platoon Ratio		2.00	2.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		0.93	0.93	0.94	0.94	1.00	1.00	
Uniform Delay (d), s/veh		0.0	0.0	52.5	6.4	46.7	40.6	
Incr Delay (d2), s/veh		0.4	1.7	4.0	0.3	10.8	0.3	
Initial Q Delay(d3),s/veh	//	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.1	0.4	3.4	3.3	8.3	8.0	
Unsig. Movement Delay,	s/ven		17	Г/ Г	/ 7	Г7 Г	40.0	
LnGrp Delay(d),s/veh		0.4	1.7	56.5	6.7	57.5	40.8	
LnGrp LOS		Α	A	<u>E</u>	A	E	D	
Approach Vol, veh/h		1070			949	305		
Approach Delay, s/veh		0.9			12.9	55.6		
Approach LOS		Α			В	Е		
Timer - Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc),	1 5 /	74.4				89.8		26.2
Change Period (Y+Rc),		7.5				7.5		6.1
Max Green Setting (Gma		45.5				57.4		32.9
3 \	, .							
Max Q Clear Time (g_c+		2.0				12.3		19.1
Green Ext Time (p_c), s	0.0	4.7				4.9		0.9
Intersection Summary								
HCM 6th Ctrl Delay			13.0					
HCM 6th LOS			В					
			_					
Notes								

User approved ignoring U-Turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	ħβ		ሻ	↑ ↑		ሻ	f)		ሻ	ĥ		
Traffic Volume (veh/h)	29	536	13	11	707	21	48	0	4	60	3	79	
Future Volume (veh/h)	29	536	13	11	707	21	48	0	4	60	3	79	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	31	576	14	12	760	23	52	0	4	65	3	85	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	64	1147	28	28	1068	32	95	0	176	110	7	184	
Arrive On Green	0.04	0.32	0.32	0.02	0.30	0.30	0.05	0.00	0.11	0.06	0.12	0.12	
Sat Flow, veh/h	1781	3546	86	1781	3521	107	1781	0	1585	1781	54	1539	
Grp Volume(v), veh/h	31	288	302	12	383	400	52	0	4	65	0	88	
Grp Sat Flow(s), veh/h/lr	1781	1777	1855	1781	1777	1851	1781	0	1585	1781	0	1593	
Q Serve(g_s), s	8.0	5.9	5.9	0.3	8.6	8.6	1.3	0.0	0.1	1.6	0.0	2.3	
Cycle Q Clear(g_c), s	0.8	5.9	5.9	0.3	8.6	8.6	1.3	0.0	0.1	1.6	0.0	2.3	
Prop In Lane	1.00		0.05	1.00		0.06	1.00		1.00	1.00		0.97	
Lane Grp Cap(c), veh/h	64	575	600	28	539	562	95	0	176	110	0	191	
V/C Ratio(X)	0.49	0.50	0.50	0.44	0.71	0.71	0.55	0.00	0.02	0.59	0.00	0.46	
Avail Cap(c_a), veh/h	198	788	823	198	788	821	198	0	738	277	0	813	
HCM 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	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/veh	າ 21.3	12.3	12.3	22.0	13.9	14.0	20.8	0.0	17.9	20.6	0.0	18.5	
Incr Delay (d2), s/veh	5.7	0.7	0.7	10.4	1.8	1.7	4.9	0.0	0.1	5.0	0.0	1.7	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	n/lr0.4	1.8	1.9	0.2	2.8	2.9	0.6	0.0	0.0	0.7	0.0	8.0	
Unsig. Movement Delay	, s/veh	1											
LnGrp Delay(d),s/veh	27.0	13.0	13.0	32.4	15.7	15.6	25.7	0.0	17.9	25.6	0.0	20.2	
LnGrp LOS	С	В	В	С	В	В	С	Α	В	С	Α	С	
Approach Vol, veh/h		621			795			56			153		
Approach Delay, s/veh		13.7			15.9			25.2			22.5		
Approach LOS		В			В			С			С		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	s5 7	21.6	7.4	10.4	6.6	20.7	7.8	10.0					
Change Period (Y+Rc),		7.0	5.0	5.0	5.0	7.0	5.0	5.0					
Max Green Setting (Gm		20.0	5.0	23.0	5.0	20.0	7.0	21.0					
Max Q Clear Time (g_c-		7.9	3.3	4.3	2.8	10.6	3.6	21.0					
Green Ext Time (p_c), s		2.5	0.0	0.4	0.0	3.0	0.0	0.0					
•	0.0	2.0	0.0	0.4	0.0	3.0	0.0	0.0					
Intersection Summary			4.										
HCM 6th Ctrl Delay			16.0										
HCM 6th LOS			В										

Interception Delay along						
Intersection Delay, s/veh	h10.6					
Intersection LOS	В					
N. 4	ED!		MOT	11122	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations				- 7	Y	
Traffic Vol, veh/h	23	6	8	218	259	50
Future Vol, veh/h	23	6	8	218	259	50
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	26	7	9	242	288	56
Number of Lanes	1	1	1	1	1	0
	·	•	•	•		
Approach	EB		WB		SB	
Opposing Approach	WB		EB			
Opposing Lanes	2		2		0	
Conflicting Approach Let	ft SB				WB	
Conflicting Lanes Left	1		0		2	
Conflicting Approach Rig	aht		SB		EB	
Conflicting Lanes Right	0		1		2	
HCM Control Delay	9.1		9.6		11.5	
HCM LOS	Α		A		В	
	_					
Lane	E	[RI n1	ロロロックい			
Vol Left, %						SBLn1
VOI LCIL, 70		100%	0%	0%	0%	84%
Vol Thru, %		100%				
		100%	0%	0%	0%	84%
Vol Thru, % Vol Right, %		100% 0% 0%	0% 100% 0%	0% 100% 0%	0% 0% 100%	84% 0% 16%
Vol Thru, % Vol Right, % Sign Control		100% 0% 0% Stop	0% 100% 0% Stop	0% 100%	0% 0% 100% Stop	84% 0% 16% Stop
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		100% 0% 0% Stop 23	0% 100% 0% Stop 6	0% 100% 0% Stop 8	0% 0% 100% Stop 218	84% 0% 16% Stop 309
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		100% 0% 0% Stop 23 23	0% 100% 0% Stop 6 0	0% 100% 0% Stop 8 0	0% 0% 100% Stop 218 0	84% 0% 16% Stop 309 259
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		100% 0% 0% Stop 23 23	0% 100% 0% Stop 6 0	0% 100% 0% Stop 8 0	0% 0% 100% Stop 218 0	84% 0% 16% Stop 309 259 0
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		100% 0% 0% Stop 23 23 0	0% 100% 0% Stop 6 0 6	0% 100% 0% Stop 8 0 8	0% 0% 100% Stop 218 0 0	84% 0% 16% Stop 309 259 0
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		100% 0% 0% Stop 23 23 0 0	0% 100% 0% Stop 6 0 6	0% 100% 0% Stop 8 0 8	0% 0% 100% Stop 218 0 0 218 242	84% 0% 16% Stop 309 259 0 50 343
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		100% 0% 0% Stop 23 23 0 0	0% 100% 0% Stop 6 0 6 0 7	0% 100% 0% Stop 8 0 8 0 9	0% 0% 100% Stop 218 0 0 218 242 7	84% 0% 16% Stop 309 259 0 50 343 2
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		100% 0% 0% Stop 23 23 0 0 26 7	0% 100% 0% Stop 6 0 6 0 7 7	0% 100% 0% Stop 8 0 8 0 9 7 0.013	0% 0% 100% Stop 218 0 0 218 242 7 0.318	84% 0% 16% Stop 309 259 0 50 343 2 0.446
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd		100% 0% 0% Stop 23 23 0 0 26 7 0.044 6.158	0% 100% 0% Stop 6 0 6 0 7 7 0.01 5.652	0% 100% 0% Stop 8 0 8 0 7 0.013 5.431	0% 0% 100% Stop 218 0 0 218 242 7 0.318 4.724	84% 0% 16% Stop 309 259 0 50 343 2 0.446 4.68
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd Convergence, Y/N		100% 0% 0% Stop 23 23 0 0 26 7 0.044 6.158 Yes	0% 100% 0% Stop 6 0 6 0 7 7 7 0.01 5.652 Yes	0% 100% 0% Stop 8 0 8 0 9 7 0.013 5.431 Yes	0% 0% 100% Stop 218 0 0 218 242 7 0.318 4.724 Yes	84% 0% 16% Stop 309 259 0 50 343 2 0.446 4.68 Yes
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd Convergence, Y/N Cap	1)	100% 0% Stop 23 23 0 0 26 7 0.044 6.158 Yes 579	0% 100% 0% Stop 6 0 6 0 7 7 0.01 5.652 Yes 631	0% 100% 0% Stop 8 0 8 0 9 7 0.013 5.431 Yes 658	0% 0% 100% Stop 218 0 0 218 242 7 0.318 4.724 Yes 758	84% 0% 16% Stop 309 259 0 50 343 2 0.446 4.68 Yes 769
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd Convergence, Y/N Cap Service Time	d)	100% 0% Stop 23 23 0 0 26 7 0.044 6.158 Yes 579 3.917	0% 100% 0% Stop 6 0 7 7 0.01 5.652 Yes 631 3.41	0% 100% 0% Stop 8 0 8 0 9 7 0.013 5.431 Yes 658 3.172	0% 0% 100% Stop 218 0 0 218 242 7 0.318 4.724 Yes 758 2.465	84% 0% 16% Stop 309 259 0 50 343 2 0.446 4.68 Yes 769 2.719
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd Convergence, Y/N Cap Service Time HCM Lane V/C Ratio	d)	100% 0% Stop 23 23 0 0 26 7 0.044 6.158 Yes 579 3.917 0.045	0% 100% 0% Stop 6 0 6 0 7 7 0.01 5.652 Yes 631 3.41 0.011	0% 100% 0% Stop 8 0 8 0 9 7 0.013 5.431 Yes 658 3.172 0.014	0% 0% 100% Stop 218 0 0 218 242 7 0.318 4.724 Yes 758 2.465 0.319	84% 0% 16% Stop 309 259 0 50 343 2 0.446 4.68 Yes 769 2.719 0.446
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay	d)	100% 0% Stop 23 23 0 0 26 7 0.044 6.158 Yes 579 3.917 0.045 9.2	0% 100% 0% Stop 6 0 6 0 7 7 0.01 5.652 Yes 631 3.41 0.011 8.5	0% 100% 0% Stop 8 0 8 0 9 7 0.013 5.431 Yes 658 3.172 0.014 8.2	0% 0% 100% Stop 218 0 0 218 242 7 0.318 4.724 Yes 758 2.465 0.319 9.7	84% 0% 16% Stop 309 259 0 50 343 2 0.446 4.68 Yes 769 2.719 0.446 11.5
Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd Convergence, Y/N Cap Service Time HCM Lane V/C Ratio	d)	100% 0% Stop 23 23 0 0 26 7 0.044 6.158 Yes 579 3.917 0.045	0% 100% 0% Stop 6 0 6 0 7 7 0.01 5.652 Yes 631 3.41 0.011	0% 100% 0% Stop 8 0 8 0 9 7 0.013 5.431 Yes 658 3.172 0.014	0% 0% 100% Stop 218 0 0 218 242 7 0.318 4.724 Yes 758 2.465 0.319	84% 0% 16% Stop 309 259 0 50 343 2 0.446 4.68 Yes 769 2.719 0.446

HCM 6th AWSC

Synchro 10 Report

1: I-15 SB Ramps & Clinton Keith Rd

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ተተተ	7	1,1	ተተተ					¥	र्स	77
Traffic Volume (veh/h)	0	786	416	247	1039	0	0	0	0	519	2	426
Future Volume (veh/h)	0	786	416	247	1039	0	0	0	0	519	2	426
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	1870	1870
Adj Flow Rate, veh/h	0	854	452	268	1129	0				565	0	463
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	2	2
Cap, veh/h	0	2599	807	351	3380	0				745	0	663
Arrive On Green	0.00	0.51	0.51	0.10	0.66	0.00				0.21	0.00	0.21
Sat Flow, veh/h	0	5274	1585	3456	5274	0				3563	0	3170
Grp Volume(v), veh/h	0	854	452	268	1129	0				565	0	463
Grp Sat Flow(s),veh/h/ln	0	1702	1585	1728	1702	0				1781	0	1585
Q Serve(g_s), s	0.0	8.9	17.6	6.8	8.6	0.0				13.4	0.0	12.2
Cycle Q Clear(g_c), s	0.0	8.9	17.6	6.8	8.6	0.0				13.4	0.0	12.2
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2599	807	351	3380	0				745	0	663
V/C Ratio(X)	0.00	0.33	0.56	0.76	0.33	0.00				0.76	0.00	0.70
Avail Cap(c_a), veh/h	0	2599	807	515	3380	0				1077	0	958
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.85	0.85	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	13.0	15.2	39.4	6.6	0.0				33.4	0.0	33.0
Incr Delay (d2), s/veh	0.0	0.3	2.8	3.4	0.2	0.0				1.9	0.0	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	3.1	6.1	2.9	2.4	0.0				5.9	0.0	4.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.4	18.0	42.7	6.8	0.0				35.3	0.0	34.3
LnGrp LOS	Α	В	В	D	Α	Α				D	Α	С
Approach Vol, veh/h		1306			1397						1028	
Approach Delay, s/veh		15.0			13.7						34.9	
Approach LOS		В			В						С	
Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	13.8	51.6		24.6		65.4						
Change Period (Y+Rc), s	4.6	5.8		5.8		5.8						
Max Green Setting (Gmax), s	13.4	33.2		27.2		51.2						
Max Q Clear Time (g_c+l1), s	8.8	19.6		15.4		10.6						
Green Ext Time (p_c), s	0.4	6.0		3.4		9.1						
Intersection Summary												
			20.0									
HCM 6th Ctrl Delay			20.0 B									
HCM 6th LOS			Б									
Notes												

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1,1	ተተተ			ተተተ	7	Ĭ	₩	7			
Traffic Volume (veh/h)	326	979	0	0	687	540	599	2	396	0	0	0
Future Volume (veh/h)	326	979	0	0	687	540	599	2	396	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	351	1053	0	0	739	523	777	0	285			
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	429	3126	0	0	2203	684	922	0	410			
Arrive On Green	0.12	0.61	0.00	0.00	0.43	0.43	0.26	0.00	0.26			
Sat Flow, veh/h	3456	5274	0	0	5274	1585	3563	0	1585			
Grp Volume(v), veh/h	351	1053	0	0	739	523	777	0	285			
Grp Sat Flow(s), veh/h/ln	1728	1702	0	0	1702	1585	1781	0	1585			
Q Serve(g_s), s	8.9	9.1	0.0	0.0	8.7	25.2	18.6	0.0	14.6			
Cycle Q Clear(q_c), s	8.9	9.1	0.0	0.0	8.7	25.2	18.6	0.0	14.6			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	429	3126	0	0	2203	684	922	0	410			
V/C Ratio(X)	0.82	0.34	0.00	0.00	0.34	0.76	0.84	0.00	0.69			
Avail Cap(c_a), veh/h	495	3126	0	0	2203	684	1116	0	497			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.89	0.89	0.00	0.00	0.80	0.80	1.00	0.00	1.00			
Uniform Delay (d), s/veh	38.4	8.5	0.0	0.0	17.0	21.7	31.6	0.0	30.1			
Incr Delay (d2), s/veh	8.3	0.3	0.0	0.0	0.3	6.5	5.1	0.0	3.2			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	4.1	2.8	0.0	0.0	3.1	9.5	8.4	0.0	5.8			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	46.7	8.8	0.0	0.0	17.3	28.2	36.7	0.0	33.4			
LnGrp LOS	D	Α	Α	А	В	С	D	Α	С			
Approach Vol, veh/h		1404			1262			1062				
Approach Delay, s/veh		18.3			21.8			35.8				
Approach LOS		В			С			D				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		60.9			16.3	44.6		29.1				
Change Period (Y+Rc), s		5.8			5.1	5.8		5.8				
Max Green Setting (Gmax), s		50.2			12.9	32.2		28.2				
Max Q Clear Time (g_c+l1), s		11.1			10.9	27.2		20.2				
Green Ext Time (p_c), s		8.2			0.3	2.8		2.7				
η — /		0.2			0.3	2.0		2.1				
Intersection Summary			6.1-									
HCM 6th Ctrl Delay			24.5									
HCM 6th LOS			С									
Notes												

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	↑ ↑₽		ሻ	ተተኈ		ሻ	₽			4	
Traffic Volume (veh/h)	52	1034	371	94	936	48	341	12	118	37	4	51
Future Volume (veh/h)	52	1034	371	94	936	48	341	12	118	37	4	51
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	57	1136	408	103	1029	53	375	13	130	41	4	56
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	89	1648	592	127	2317	119	465	48	477	195	34	230
Arrive On Green	0.05	0.44	0.44	0.09	0.62	0.62	0.33	0.33	0.33	0.33	0.33	0.33
Sat Flow, veh/h	1781	3705	1330	1781	4973	256	1343	146	1461	465	103	707
Grp Volume(v), veh/h	57	1044	500	103	704	378	375	0	143	101	0	0
Grp Sat Flow(s), veh/h/ln	1781	1702	1631	1781	1702	1824	1343	0	1607	1275	0	0
Q Serve(g_s), s	3.7	29.0	29.0	6.7	12.8	12.8	24.3	0.0	7.8	2.9	0.0	0.0
Cycle Q Clear(g_c), s	3.7	29.0	29.0	6.7	12.8	12.8	34.9	0.0	7.8	10.6	0.0	0.0
Prop In Lane	1.00		0.82	1.00		0.14	1.00		0.91	0.41		0.55
Lane Grp Cap(c), veh/h	89	1514	726	127	1586	850	465	0	524	459	0	0
V/C Ratio(X)	0.64	0.69	0.69	0.81	0.44	0.44	0.81	0.00	0.27	0.22	0.00	0.00
Avail Cap(c_a), veh/h	140	1514	726	180	1586	850	554	0	631	554	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.91	0.91	0.91	0.89	0.89	0.89	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	55.0	26.2	26.2	52.6	14.4	14.4	39.7	0.0	29.4	30.1	0.0	0.0
Incr Delay (d2), s/veh	2.6	2.4	4.8	10.3	0.8	1.5	7.3	0.0	0.3	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	11.5	11.6	3.2	4.3	4.8	11.4	0.0	3.1	2.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	57.5	28.6	31.1	62.9	15.2	15.9	47.0	0.0	29.7	30.3	0.0	0.0
LnGrp LOS	E	C	С	E	В	В	D	A	С	С	A	A
Approach Vol, veh/h		1601			1185			518			101	
Approach Delay, s/veh		30.4			19.6			42.2			30.3	
Approach LOS		С			В			72.2 D			C	
											C	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.5	59.3		44.2	12.0	61.8		44.2				
Change Period (Y+Rc), s	6.1	6.8		* 5.7	6.1	6.8		* 5.7				
Max Green Setting (Gmax), s	11.9	41.2		* 46	9.3	43.8		* 46				
Max Q Clear Time (g_c+I1), s	8.7	31.0		12.6	5.7	14.8		36.9				
Green Ext Time (p_c), s	0.0	8.8		0.6	0.0	15.0		1.5				
Intersection Summary												
HCM 6th Ctrl Delay			28.4									
HCM 6th LOS			С									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Existing PM 4: Wildomar Trail & Clinton Keith Rd

	۶	→	•	•	←	4	1	†	~	/	†	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	^	7	ሻ	^	7	ሻ	₽		ሻ		7
Traffic Volume (veh/h)	148	1036	17	106	915	48	67	37	107	59	29	95
Future Volume (veh/h)	148	1036	17	106	915	48	67	37	107	59	29	95
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	157	1102	18	113	973	51	71	39	114	63	31	101
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	182	2138	953	137	2047	913	242	66	194	150	295	250
Arrive On Green	0.20	1.00	1.00	0.15	1.00	1.00	0.16	0.16	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	1258	420	1229	1234	1870	1585
Grp Volume(v), veh/h	157	1102	18	113	973	51	71	0	153	63	31	101
Grp Sat Flow(s), veh/h/ln	1781	1777	1585	1781	1777	1585	1258	0	1649	1234	1870	1585
Q Serve(g_s), s	10.0	0.0	0.0	7.3	0.0	0.0	6.0	0.0	10.2	5.9	1.7	6.8
Cycle Q Clear(g_c), s	10.0	0.0	0.0	7.3	0.0	0.0	7.7	0.0	10.2	16.1	1.7	6.8
Prop In Lane	1.00	0400	1.00	1.00	00.47	1.00	1.00	0	0.75	1.00	005	1.00
Lane Grp Cap(c), veh/h	182	2138	953	137	2047	913	242	0	261	150	295	250
V/C Ratio(X)	0.86	0.52	0.02	0.82	0.48	0.06	0.29	0.00	0.59	0.42	0.10	0.40
Avail Cap(c_a), veh/h	285	2138	953	229	2047	913	416	0	489	321	555	470
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.62	0.62	0.62	0.83	0.83	0.83	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.1 6.0	0.0	0.0	49.1 3.9	0.0	0.0	45.8 0.7	0.0	46.1 2.1	53.6 1.9	42.5 0.2	44.7
Incr Delay (d2), s/veh	0.0	0.6	0.0	0.0	0.7	0.1	0.7	0.0	0.0	0.0	0.2	1.0
Initial Q Delay(d3),s/veh %ile BackOfQ(50%),veh/ln	4.2	0.0	0.0	3.1	0.0	0.0	1.9	0.0	4.3	1.9	0.0	2.7
Unsig. Movement Delay, s/veh		0.2	0.0	ა. I	0.2	0.0	1.9	0.0	4.3	1.7	0.0	2.1
LnGrp Delay(d),s/veh	52.1	0.6	0.0	53.1	0.7	0.1	46.5	0.0	48.2	55.4	42.7	45.7
LnGrp LOS	J2.1	Α	Α	55.1 D	Α	Α	40.5 D	Α	40.2 D	55.4 E	42.7 D	43.7 D
Approach Vol, veh/h	U	1277		U	1137		<u> </u>	224	U	<u> </u>	195	D
Approach Delay, s/veh		6.9			5.8			47.7			48.4	
Approach LOS		0.9 A			3.6 A			47.7 D			40.4 D	
•					А						D	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.2	77.8		25.0	18.2	74.8		25.0				
Change Period (Y+Rc), s	6.1	6.8		6.4	6.1	6.8		6.4				
Max Green Setting (Gmax), s	15.2	48.5		35.0	18.9	44.8		35.0				
Max Q Clear Time (g_c+l1), s	9.3	2.0		18.1	12.0	2.0		12.2				
Green Ext Time (p_c), s	0.1	22.2		0.6	0.1	16.8		1.1				
Intersection Summary												
HCM 6th Ctrl Delay			12.5									
HCM 6th LOS			В									

		→	•	•	•	4	/	
Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	ħ	^	7	ሻ	^	ሻ	7	
Traffic Volume (veh/h)	0	874	331	36	659	419	109	
Future Volume (veh/h)	0	874	331	36	659	419	109	
Initial Q (Qb), veh		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		U	1.00	1.00	· ·	1.00	1.00	
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No	1.00	1.00	No	No	1.00	
Adj Sat Flow, veh/h/ln		1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h		930	317	38	701	446	116	
Peak Hour Factor		0.94	0.94	0.94	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2	2	2	2	
Cap, veh/h		1872	835	54	2163	492	438	
Arrive On Green		1.00	1.00	0.03	0.61	0.28	0.28	
Sat Flow, veh/h		3647	1585	1781	3647	1781	1585	
Grp Volume(v), veh/h		930	317	38	701	446	116	
Grp Sat Flow(s), veh/h/ln		1777	1585	1781	1777	1781	1585	
Q Serve(g_s), s		0.0	0.0	2.5	11.3	28.5	6.7	
Cycle Q Clear(q_c), s		0.0	0.0	2.5	11.3	28.5	6.7	
Prop In Lane		0.0	1.00	1.00	11.5	1.00	1.00	
Lane Grp Cap(c), veh/h		1872	835	54	2163	492	438	
V/C Ratio(X)		0.50	0.38	0.71	0.32	0.91	0.27	
Avail Cap(c_a), veh/h		1872	835	104	2163	693	617	
HCM Platoon Ratio		2.00	2.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		0.85	0.85	0.98	0.98	1.00	1.00	
Uniform Delay (d), s/veh		0.0	0.0	56.7	11.3	41.2	33.4	
Incr Delay (d2), s/veh		0.8	1.1	6.1	0.4	12.9	0.4	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		0.2	0.3	1.2	4.2	13.8	2.6	
Unsig. Movement Delay, s/veh		0.2	0.0	1.2	1.2	10.0	2.0	
LnGrp Delay(d),s/veh		0.8	1.1	62.8	11.6	54.1	33.7	
LnGrp LOS		Α	A	62.6 E	В	D	C	
Approach Vol, veh/h		1247	, , , , , , , , , , , , , , , , , , ,		739	562		
Approach Delay, s/veh		0.9			14.3	49.9		
Approach LOS		Α			14.3 B	T7.7		
Timer - Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	9.7	69.7				79.3		38.7
Change Period (Y+Rc), s	6.1	7.5				7.5		6.1
Max Green Setting (Gmax), s	6.9	45.5				46.4		45.9
Max Q Clear Time (g_c+I1), s	4.5	2.0				13.3		30.5
Green Ext Time (p_c), s	0.0	6.7				3.8		2.1
Intersection Summary								
HCM 6th Ctrl Delay			15.6					
HCM 6th LOS			В					
Notes								

	۶	→	•	•	←	4	1	†	~	/	†	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		∱ ⊅		ሻ	∱ β		ሻ	₽		ሻ	₽	
Traffic Volume (veh/h)	52	796	21	33	605	37	18	1	2	44	0	35
Future Volume (veh/h)	52	796	21	33	605	37	18	1	2	44	0	35
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	53	812	21	34	617	38	18	1	2	45	0	36
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	97	1179	30	69	1079	66	40	38	77	86	0	150
Arrive On Green	0.05	0.33	0.33	0.04	0.32	0.32	0.02	0.07	0.07	0.05	0.00	0.09
Sat Flow, veh/h	1781	3539	92	1781	3400	209	1781	557	1113	1781	0	1585
Grp Volume(v), veh/h	53	408	425	34	322	333	18	0	3	45	0	36
Grp Sat Flow(s), veh/h/ln	1781	1777	1854	1781	1777	1833	1781	0	1670	1781	0	1585
Q Serve(g_s), s	1.2	8.5	8.6	0.8	6.5	6.5	0.4	0.0	0.1	1.1	0.0	0.9
Cycle Q Clear(g_c), s	1.2	8.5	8.6	0.8	6.5	6.5	0.4	0.0	0.1	1.1	0.0	0.9
Prop In Lane	1.00	F02	0.05	1.00	F/4	0.11	1.00	0	0.67	1.00	0	1.00
Lane Grp Cap(c), veh/h	97 0.55	592 0.69	617 0.69	69 0.49	564 0.57	581 0.57	40 0.45	0.00	115 0.03	86 0.52	0.00	150 0.24
V/C Ratio(X) Avail Cap(c_a), veh/h	207	825	861	207	825	851	207	0.00	853	248	0.00	847
HCM 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
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	19.8	12.4	12.4	20.3	12.3	12.3	20.8	0.00	18.7	20.0	0.00	18.1
Incr Delay (d2), s/veh	1.8	1.7	1.7	2.0	1.1	1.1	2.9	0.0	0.1	1.8	0.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.6	2.7	0.3	2.0	2.0	0.2	0.0	0.0	0.4	0.0	0.3
Unsig. Movement Delay, s/veh		2.0	2.,	0.0	2.0	2.0	0.2	0.0	0.0	0.1	0.0	0.0
LnGrp Delay(d),s/veh	21.6	14.2	14.1	22.3	13.4	13.3	23.7	0.0	18.8	21.8	0.0	18.7
LnGrp LOS	С	В	В	C	В	В	C	A	В	С	A	В
Approach Vol, veh/h		886			689			21			81	
Approach Delay, s/veh		14.6			13.8			23.0			20.4	
Approach LOS		В			В			С			С	
	1	2	3	1		4	7	8				
Timer - Assigned Phs Phs Duration (G+Y+Rc), s	6.7	21.3	6.0	9.1	7.3	20.7	7.1	8.0				
Change Period (Y+Rc), s	5.0	7.0	5.0	5.0	5.0	7.0	5.0	5.0				
Max Green Setting (Gmax), s	5.0	20.0	5.0	23.0	5.0	20.0	6.0	22.0				
Max Q Clear Time (g_c+l1), s	2.8	10.6	2.4	2.9	3.2	8.5	3.1	2.1				
Green Ext Time (p_c), s	0.0	3.8	0.0	0.1	0.0	3.3	0.0	0.0				
4 - 7	0.0	3.0	0.0	0.1	0.0	٥.٥	0.0	0.0				
Intersection Summary			4									
HCM 6th Ctrl Delay			14.6									
HCM 6th LOS			В									

Intersection						
Intersection Delay, s/veh	11.2					
Intersection LOS	В					
Mayamant	EDI	EDT	MDT	WIDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<u></u>	<u> </u>	<u>^</u>	7	W	_
Traffic Vol, veh/h	29	4	3	264	275	5
Future Vol, veh/h	29	4	3	264	275	5
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	34	5	3	307	320	6
Number of Lanes	1	1	1	1	1	0
Approach	EB		WB		SB	
Opposing Approach	WB		EB			
Opposing Lanes	2		2		0	
Conflicting Approach Left	SB				WB	
Conflicting Lanes Left	1		0		2	
Conflicting Approach Right			SB		EB	
Conflicting Lanes Right	0		1		2	
HCM Control Delay	9.3		10.7		12	
HCM LOS	Α.		В		В	
Long		FDI -1	EDI 22	\//D1 ~1	WDI ~2	CD! ~1
Lane		EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %		100%	0%	0%	0%	98%
Vol Left, % Vol Thru, %		100% 0%	0% 100%	0% 100%	0% 0%	98% 0%
Vol Left, % Vol Thru, % Vol Right, %		100% 0% 0%	0% 100% 0%	0% 100% 0%	0% 0% 100%	98% 0% 2%
Vol Left, % Vol Thru, % Vol Right, % Sign Control		100% 0% 0% Stop	0% 100% 0% Stop	0% 100% 0% Stop	0% 0% 100% Stop	98% 0% 2% Stop
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		100% 0% 0% Stop 29	0% 100% 0% Stop 4	0% 100% 0% Stop 3	0% 0% 100% Stop 264	98% 0% 2% Stop 280
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		100% 0% 0% Stop 29 29	0% 100% 0% Stop 4	0% 100% 0% Stop 3	0% 0% 100% Stop 264	98% 0% 2% Stop 280 275
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		100% 0% 0% Stop 29 29	0% 100% 0% Stop 4 0	0% 100% 0% Stop 3 0	0% 0% 100% Stop 264 0	98% 0% 2% Stop 280 275 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		100% 0% 0% Stop 29 29 0	0% 100% 0% Stop 4 0 4	0% 100% 0% Stop 3 0	0% 0% 100% Stop 264 0 0	98% 0% 2% Stop 280 275 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		100% 0% 0% Stop 29 29 0	0% 100% 0% Stop 4 0 4	0% 100% 0% Stop 3 0 3	0% 0% 100% Stop 264 0	98% 0% 2% Stop 280 275 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		100% 0% 0% Stop 29 29 0 0 34	0% 100% 0% Stop 4 0 4	0% 100% 0% Stop 3 0	0% 0% 100% Stop 264 0 0 264 307	98% 0% 2% Stop 280 275 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		100% 0% 0% Stop 29 29 0	0% 100% 0% Stop 4 0 4	0% 100% 0% Stop 3 0 3	0% 0% 100% Stop 264 0 0 264 307	98% 0% 2% Stop 280 275 0 5
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		100% 0% 0% Stop 29 29 0 0 34	0% 100% 0% Stop 4 0 4 0 5	0% 100% 0% Stop 3 0 3 0 3	0% 0% 100% Stop 264 0 0 264 307	98% 0% 2% Stop 280 275 0 5 326
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		100% 0% 0% Stop 29 0 0 34 7 0.058	0% 100% 0% Stop 4 0 4 0 5 7	0% 100% 0% Stop 3 0 3 0 3 7	0% 0% 100% Stop 264 0 0 264 307 7 0.403	98% 0% 2% Stop 280 275 0 5 326 2
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		100% 0% 0% Stop 29 29 0 0 34 7 0.058 6.213 Yes	0% 100% 0% Stop 4 0 4 0 5 7 0.007 5.707 Yes	0% 100% 0% Stop 3 0 3 7 0.005 5.436 Yes	0% 0% 100% Stop 264 0 0 264 307 7 0.403 4.729 Yes	98% 0% 2% Stop 280 275 0 5 326 2 0.448 4.949 Yes
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		100% 0% 0% Stop 29 0 0 34 7 0.058 6.213 Yes 573	0% 100% 0% Stop 4 0 4 0 5 7 0.007 5.707 Yes 623	0% 100% 0% Stop 3 0 3 7 0.005 5.436 Yes 656	0% 0% 100% Stop 264 0 0 264 307 7 0.403 4.729 Yes 758	98% 0% 2% Stop 280 275 0 5 326 2 0.448 4.949 Yes 726
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		100% 0% 0% Stop 29 0 0 34 7 0.058 6.213 Yes 573 3.988	0% 100% 0% Stop 4 0 4 0 5 7 0.007 5.707 Yes 623 3.481	0% 100% 0% Stop 3 0 3 7 0.005 5.436 Yes 656 3.186	0% 0% 100% Stop 264 0 0 264 307 7 0.403 4.729 Yes 758 2.479	98% 0% 2% Stop 280 275 0 5 326 2 0.448 4.949 Yes 726 3.001
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		100% 0% 0% Stop 29 0 0 34 7 0.058 6.213 Yes 573 3.988 0.059	0% 100% 0% Stop 4 0 4 0 5 7 0.007 5.707 Yes 623 3.481 0.008	0% 100% 0% Stop 3 0 3 7 0.005 5.436 Yes 656 3.186 0.005	0% 0% 100% Stop 264 0 0 264 307 7 0.403 4.729 Yes 758 2.479 0.405	98% 0% 2% Stop 280 275 0 5 326 2 0.448 4.949 Yes 726 3.001 0.449
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		100% 0% 0% Stop 29 0 0 34 7 0.058 6.213 Yes 573 3.988 0.059 9.4	0% 100% 0% Stop 4 0 4 0 5 7 0.007 5.707 Yes 623 3.481 0.008 8.5	0% 100% 0% Stop 3 0 3 7 0.005 5.436 Yes 656 3.186 0.005 8.2	0% 0% 100% Stop 264 0 0 264 307 7 0.403 4.729 Yes 758 2.479 0.405 10.7	98% 0% 2% Stop 280 275 0 5 326 2 0.448 4.949 Yes 726 3.001 0.449
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		100% 0% 0% Stop 29 0 0 34 7 0.058 6.213 Yes 573 3.988 0.059	0% 100% 0% Stop 4 0 4 0 5 7 0.007 5.707 Yes 623 3.481 0.008	0% 100% 0% Stop 3 0 3 7 0.005 5.436 Yes 656 3.186 0.005	0% 0% 100% Stop 264 0 0 264 307 7 0.403 4.729 Yes 758 2.479 0.405	98% 0% 2% Stop 280 275 0 5 326 2 0.448 4.949 Yes 726 3.001 0.449

HCM 6th AWSC

NUMBER of Velloci Analysis Synchro 10 Report

APPENDIX C

PEAK HOUR INTERSECTION ANALYSIS WORKSHEETS – NEAR-TERM OPENING YEAR 2026

LINSCOTT, LAW & GREENSPAN, engineers

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		^	7	777	^					ሻ	4	77
Traffic Volume (veh/h)	0	1124	765	484	917	0	0	0	0	670	2	450
Future Volume (veh/h)	0	1124	765	484	917	0	0	0	0	670	2	450
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	1870	1870
Adj Flow Rate, veh/h	0	1222	832	526	997	0				729	0	489
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	2	2
Cap, veh/h	0	2121	658	592	3257	0				831	0	739
Arrive On Green	0.00	0.42	0.42	0.23	0.85	0.00				0.23	0.00	0.23
Sat Flow, veh/h	0	5274	1585	3456	5274	0				3563	0	3170
Grp Volume(v), veh/h	0	1222	832	526	997	0				729	0	489
Grp Sat Flow(s),veh/h/ln	0	1702	1585	1728	1702	0				1781	0	1585
Q Serve(g_s), s	0.0	16.6	37.4	13.3	3.6	0.0				17.8	0.0	12.6
Cycle Q Clear(g_c), s	0.0	16.6	37.4	13.3	3.6	0.0				17.8	0.0	12.6
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2121	658	592	3257	0				831	0	739
V/C Ratio(X)	0.00	0.58	1.26	0.89	0.31	0.00				0.88	0.00	0.66
Avail Cap(c_a), veh/h	0	2121	658	630	3257	0				918	0	817
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.80	0.80	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	20.2	26.3	33.9	2.7	0.0				33.3	0.0	31.3
Incr Delay (d2), s/veh	0.0	1.1	130.5	11.0	0.2	0.0				8.4	0.0	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	6.1	36.3	5.8	0.9	0.0				8.4	0.0	4.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	21.4	156.9	44.9	2.9	0.0				41.6	0.0	32.5
LnGrp LOS	Α	С	F	D	Α	Α				D	Α	<u>C</u>
Approach Vol, veh/h		2054			1523						1218	
Approach Delay, s/veh		76.2			17.4						38.0	
Approach LOS		Е			В						D	
Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	20.0	43.2		26.8		63.2						
Change Period (Y+Rc), s	4.6	5.8		5.8		5.8						
Max Green Setting (Gmax), s	16.4	34.2		23.2		55.2						
Max Q Clear Time (g_c+l1), s	15.3	39.4		19.8		5.6						
Green Ext Time (p_c), s	0.2	0.0		1.2		4.7						
Intersection Summary												
HCM 6th Ctrl Delay			47.8									
HCM 6th LOS			D									
Notes												

	۶	→	•	•	←	•	4	†	<i>></i>	\	+	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1,1	ተተተ			ተተተ	7	Ţ	₩	7			
Traffic Volume (veh/h)	419	1373	0	0	1053	737	349	1	411	0	0	0
Future Volume (veh/h)	419	1373	0	0	1053	737	349	1	411	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	451	1476	0	0	1132	712	523	0	284			
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	532	3384	0	0	2308	717	742	0	330			
Arrive On Green	0.15	0.66	0.00	0.00	0.45	0.45	0.21	0.00	0.21			
Sat Flow, veh/h	3456	5274	0	0	5274	1585	3563	0	1585			
Grp Volume(v), veh/h	451	1476	0	0	1132	712	523	0	284			
Grp Sat Flow(s), veh/h/ln	1728	1702	0	0	1702	1585	1781	0	1585			
Q Serve(g_s), s	11.4	12.3	0.0	0.0	14.0	40.2	12.3	0.0	15.6			
Cycle Q Clear(g_c), s	11.4	12.3	0.0	0.0	14.0	40.2	12.3	0.0	15.6			
Prop In Lane	1.00	12.0	0.00	0.00	14.0	1.00	1.00	0.0	1.00			
Lane Grp Cap(c), veh/h	532	3384	0.00	0.00	2308	717	742	0	330			
V/C Ratio(X)	0.85	0.44	0.00	0.00	0.49	0.99	0.70	0.00	0.86			
Avail Cap(c_a), veh/h	611	3384	0.00	0.00	2308	717	839	0.00	373			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.69	0.69	0.00	0.00	0.29	0.29	1.00	0.00	1.00			
Uniform Delay (d), s/veh	37.0	7.2	0.0	0.0	17.4	24.5	33.1	0.0	34.4			
Incr Delay (d2), s/veh	6.9	0.3	0.0	0.0	0.2	16.7	2.3	0.0	16.6			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	5.1	3.5	0.0	0.0	5.0	16.5	5.4	0.0	7.4			
Unsig. Movement Delay, s/veh		3.3	0.0	0.0	3.0	10.5	5.7	0.0	7.7			
LnGrp Delay(d),s/veh	44.0	7.5	0.0	0.0	17.6	41.2	35.4	0.0	50.9			
LnGrp LOS	D	7.5 A	Α	Α	В	T1.2	D	Α	D			
Approach Vol, veh/h	U	1927	А	Д	1844	<u> </u>	D D	807	<u> </u>			
Approach Delay, s/veh		16.0			26.7			40.8				
Approach LOS		В			20.7 C			40.6 D				
Approach LOS		D			C			D				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		65.4			19.0	46.5		24.6				
Change Period (Y+Rc), s		5.8			5.1	5.8		5.8				
Max Green Setting (Gmax), s		57.2			15.9	36.2		21.2				
Max Q Clear Time (q_c+l1), s		14.3			13.4	42.2		17.6				
Green Ext Time (p_c), s		13.7			0.4	0.0		1.2				
Intersection Summary												
HCM 6th Ctrl Delay			24.7									
HCM 6th LOS			С									
Notes												

Lane Configurations		۶	→	*	•	←	4	1	†	/	/	Ţ	4
Traffic Volume (veh/h)	Movement	EBL		EBR	WBL	WBT	WBR	NBL			SBL	SBT	SBR
Future Volume (veh/m) 18 1362 288 124 1442 188 249 16 102 110 17 167 initial Q (Ob), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Lane Configurations												
Initial O (20b), weh O	Traffic Volume (veh/h)						188	249					167
Ped-Bike Adj(A_pbT)	Future Volume (veh/h)			298	124	1442	188		16		110	17	167
Parking Bus, Adj			0			0			0			0	0
Work Zöne On Ápproach	Ped-Bike Adj(A_pbT)	1.00						1.00					
Adj Sat Flow, xeh/nh/n 1870 1870 1870 1870 1870 1870 1870 1870	Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Flow Rate, veh/h Peak Hour Factor O.94 O.94 O.94 O.94 O.94 O.94 O.94 O.94													
Peak Hour Factor 0.94 0.06 Interescel Common 0.06 0.06 0.06 0.07 0.07 0.07 0.02 0.03 0.03 0.03 0.03 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			1870			1870	1870	1870					1870
Percent Heavy Veh, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Adj Flow Rate, veh/h	232	1449	317	132	1534	200	265	17	109		18	178
Cap, veh/h Officen Off	Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Arrive On Green 0.15 0.43 0.43 0.18 0.75 0.75 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32	Percent Heavy Veh, %	2	2						2	2			2
Sat Flow, veh/h	Cap, veh/h	259	1805	394	156	1704	222	281	14	510	43	20	26
Grp Volume(v), veh/h Grp Sat Flow(s), veh/h/ln 1781 1702 1706 1708 1708 1708 1708 1708 1708 1708 1708	Arrive On Green	0.15	0.43	0.43	0.18	0.75	0.75	0.32	0.32	0.32	0.32	0.32	0.32
Grp Sat Flow(s),veh/h/ln	Sat Flow, veh/h	1781	4195	915	1781	4572	595	688	44	1585	0	62	81
Grp Sat Flow(s),veh/h/ln	Grp Volume(v), veh/h	232	1175	591	132	1142	592	282	0	109	313	0	0
Q Serve(g_s), s			1702	1706	1781	1702	1763	732	0	1585	143	0	0
Cycle Q Clear(g_c), s												0.0	
Prop In Lane													
Lane Grp Cap(c), veh/h 259 1465 734 156 1269 657 296 0 510 89 0 0 0 V/C Ratio(X) 0,90 0,80 0,81 0,84 0,90 0,90 0,95 0,00 0,21 3,53 0,00 0,00 Avail Cap(c_a), veh/h 269 1465 734 164 1269 657 296 0 510 89 0 0 0,00 Avail Cap(c_a), veh/h 100 1,00 1,00 1,00 2,00 2,00 1,00 1,00													
V/C Ratio(X) 0.90 0.80 0.81 0.84 0.90 0.90 0.95 0.00 0.21 3.53 0.00 0.00 Avail Cap(c_a), veh/h 269 1465 734 164 1269 657 296 0 510 89 0 0 HCM Platoon Ratio 1.00 1.00 1.00 2.00 2.00 1.00			1465			1269			0			0	
Avail Cap(c_a), veh/h 269 1465 734 164 1269 657 296 0 510 89 0 0 HCM Platoon Ratio 1.00 1.00 1.00 2.00 2.00 2.00 1.00 1.00												0.00	
HCM Platoon Ratio 1.00 1.00 1.00 1.00 2.00 2.00 2.00 1.00	, ,												
Upstream Filter(I) 0.88 0.88 0.88 0.52 0.52 0.52 1.00 0.00 1.00 1.00 0.00 0.00 Uniform Delay (d), s/veh 48.7 28.7 28.8 47.1 13.1 13.1 42.4 0.0 28.7 39.5 0.0 0.0 0.0 Incr Delay (d2), s/veh 25.5 4.2 8.2 16.7 5.9 10.5 39.9 0.0 0.2 1167.6 0.0 0.0 Mild BackOfQ(50%),veh/ln 8.2 14.1 15.0 4.0 5.5 6.5 11.5 0.0 2.2 31.3 0.0 0.0 Unsig. Movement Delay, s/veh 8.2 14.1 15.0 4.0 5.5 6.5 11.5 0.0 2.2 31.3 0.0 0.0 Unsig. Movement Delay, s/veh 74.2 32.9 37.0 63.8 18.9 23.6 82.4 0.0 28.9 1207.1 0.0 0.0 LnGrp LoS E C D												1.00	
Uniform Delay (d), s/veh													
Incr Delay (d2), s/veh													
Initial Q Delay(d3),s/veh													
%ile BackOfQ(50%),veh/ln 8.2 14.1 15.0 4.0 5.5 6.5 11.5 0.0 2.2 31.3 0.0 0.0 Unsig. Movement Delay, s/veh 74.2 32.9 37.0 63.8 18.9 23.6 82.4 0.0 28.9 1207.1 0.0 0.0 LnGrp LOS E C D E B C F A C F A A Approach Vol, veh/h 1998 1866 391 313 Approach Delay, s/veh 38.9 23.6 67.5 1207.1 Approach LOS D C E F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 16.3 56.7 43.0 23.0 50.0 43.0 Change Period (Y+Rc), s 6.1 6.8 *5.7 6.1 6.8 *5.7 Max Green Setting (Gmax), s 10.7 49.4 *37 17.5 42.6 *37 Max Q Clear Time (g_c+I1), s 10.3 37.0 39.3													
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 74.2 32.9 37.0 63.8 18.9 23.6 82.4 0.0 28.9 1207.1 0.0 0.0 LnGrp LOS E C D E B C F A C F A A Approach Vol, veh/h 1998 1866 391 313 Approach Delay, s/veh 38.9 23.6 67.5 1207.1 Approach LOS D C E F F Imer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 16.3 56.7 43.0 23.0 50.0 43.0 Change Period (Y+Rc), s 6.1 6.8 *5.7 6.1 6.8 *5.7 Max Green Setting (Gmax), s 10.7 49.4 *37 17.5 42.6 *37 Max Q Clear Time (g_c+I1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary HCM 6th Ctrl Delay 115.1 HCM 6th Ctrl Delay 115.1 HCM 6th LOS F													
LnGrp Delay(d),s/veh 74.2 32.9 37.0 63.8 18.9 23.6 82.4 0.0 28.9 1207.1 0.0 0.0 LnGrp LOS E C D E B C F A C F A A Approach Vol, veh/h 1998 1866 391 313 Approach Delay, s/veh 38.9 23.6 67.5 1207.1 Approach LOS D C E F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 16.3 56.7 43.0 23.0 50.0 43.0 Change Period (Y+Rc), s 6.1 6.8 *5.7 6.1 6.8 *5.7 Max Green Setting (Gmax), s 10.7 49.4 *37 17.5 42.6 *37 Max Q Clear Time (g_c+l1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary													
LnGrp LOS E C D E B C F A C F A A Approach Vol, veh/h 1998 1866 391 313 Approach Delay, s/veh 38.9 23.6 67.5 1207.1 Approach LOS D C E F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 16.3 56.7 43.0 23.0 50.0 43.0 Change Period (Y+Rc), s 6.1 6.8 * 5.7 6.1 6.8 * 5.7 Max Green Setting (Gmax), s 10.7 49.4 * 37 17.5 42.6 * 37 Max Q Clear Time (g_c+l1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary HCM 6th LOS F			32.9	37.0	63.8	18.9	23.6	82.4	0.0	28.9	1207.1	0.0	0.0
Approach Vol, veh/h Approach Delay, s/veh Approach Delay, s/veh Approach LOS D C E F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 16.3 56.7 43.0 23.0 50.0 43.0 Change Period (Y+Rc), s 6.1 6.8 *5.7 Max Green Setting (Gmax), s 10.7 49.4 *37 17.5 42.6 *37 Max Q Clear Time (g_c+I1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 Intersection Summary HCM 6th Ctrl Delay HCM 6th Ctrl Delay 115.1 HCM 6th LOS F													
Approach Delay, s/veh 38.9 23.6 67.5 1207.1 Approach LOS D C E F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 16.3 56.7 43.0 23.0 50.0 43.0 Change Period (Y+Rc), s 6.1 6.8 *5.7 6.1 6.8 *5.7 Max Green Setting (Gmax), s 10.7 49.4 *37 17.5 42.6 *37 Max Q Clear Time (g_c+l1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary HCM 6th LOS F	-												
Approach LOS D C E F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 16.3 56.7 43.0 23.0 50.0 43.0 Change Period (Y+Rc), s 6.1 6.8 *5.7 Max Green Setting (Gmax), s 10.7 49.4 *37 17.5 42.6 *37 Max Q Clear Time (g_c+I1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary HCM 6th Ctrl Delay 115.1 HCM 6th LOS F	• •												
Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 16.3 56.7 43.0 23.0 50.0 43.0 Change Period (Y+Rc), s 6.1 6.8 *5.7 6.1 6.8 *5.7 Max Green Setting (Gmax), s 10.7 49.4 *37 17.5 42.6 *37 Max Q Clear Time (g_c+I1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary HCM 6th Ctrl Delay 115.1 HCM 6th LOS F			_						_			_	
Phs Duration (G+Y+Rc), s 16.3 56.7 43.0 23.0 50.0 43.0 Change Period (Y+Rc), s 6.1 6.8 *5.7 6.1 6.8 *5.7 Max Green Setting (Gmax), s 10.7 49.4 *37 17.5 42.6 *37 Max Q Clear Time (g_c+I1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary HCM 6th Ctrl Delay 115.1 HCM 6th LOS F	•	1	2		4	5	6		8				
Change Period (Y+Rc), s 6.1 6.8 *5.7 6.1 6.8 *5.7 Max Green Setting (Gmax), s 10.7 49.4 *37 17.5 42.6 *37 Max Q Clear Time (g_c+l1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary HCM 6th Ctrl Delay 115.1 HCM 6th LOS F		16.3											
Max Green Setting (Gmax), s 10.7 49.4 * 37 17.5 42.6 * 37 Max Q Clear Time (g_c+l1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary HCM 6th Ctrl Delay 115.1 HCM 6th LOS F													
Max Q Clear Time (g_c+l1), s 10.3 37.0 39.3 16.8 32.2 39.3 Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary HCM 6th Ctrl Delay 115.1 HCM 6th LOS F													
Green Ext Time (p_c), s 0.0 11.1 0.0 0.0 9.3 0.0 Intersection Summary HCM 6th Ctrl Delay 115.1 HCM 6th LOS F													
Intersection Summary HCM 6th Ctrl Delay 115.1 HCM 6th LOS F	.0_ ,												
HCM 6th Ctrl Delay 115.1 HCM 6th LOS F	·	0.0	11.1		0.0	0.0	7.0		0.0				
HCM 6th LOS F				115 1									
	Notes			Г									

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

1. Wilderhal Trail & C	ၨ				<u></u>	4	_	•	_	ν.	1	
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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		^	7	ሻ	^	7	ሻ	f)		ሻ		7
Traffic Volume (veh/h)	154	1229	10	102	1346	47	73	17	56	177	28	373
Future Volume (veh/h)	154	1229	10	102	1346	47	73	17	56	177	28	373
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	164	1307	11	109	1432	50	78	18	60	188	30	397
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	188	1737	775	133	1626	725	310	103	342	371	506	429
Arrive On Green	0.21	0.98	0.98	0.15	0.91	0.91	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	961	379	1264	1321	1870	1585
Grp Volume(v), veh/h	164	1307	11	109	1432	50	78	0	78	188	30	397
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	961	0	1643	1321	1870	1585
Q Serve(g_s), s	10.3	3.6	0.0	6.9	20.5	0.3	7.6	0.0	4.2	14.7	1.4	28.3
Cycle Q Clear(g_c), s	10.3	3.6	0.0	6.9	20.5	0.3	9.0	0.0	4.2	19.0	1.4	28.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.77	1.00		1.00
Lane Grp Cap(c), veh/h	188	1737	775	133	1626	725	310	0	444	371	506	429
V/C Ratio(X)	0.87	0.75	0.01	0.82	0.88	0.07	0.25	0.00	0.18	0.51	0.06	0.93
Avail Cap(c_a), veh/h	198	1737	775	155	1626	725	340	0	496	413	564	478
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.54	0.54	0.54	0.70	0.70	0.70	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.0	0.7	0.7	48.6	3.5	2.7	34.7	0.0	32.4	39.7	31.4	41.2
Incr Delay (d2), s/veh	18.1	1.7	0.0	16.5	5.2	0.1	0.4	0.0	0.2	1.1	0.0	22.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.9	8.0	0.0	3.4	2.8	0.1	1.8	0.0	1.7	4.9	0.6	13.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	63.0	2.4	0.7	65.1	8.8	2.8	35.1	0.0	32.6	40.7	31.4	64.1
LnGrp LOS	E	А	Α	E	Α	Α	D	Α	С	D	С	<u>E</u>
Approach Vol, veh/h		1482			1591			156			615	
Approach Delay, s/veh		9.1			12.4			33.9			55.4	
Approach LOS		А			В			С			Е	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.7	63.5		37.8	18.4	59.9		37.8				
Change Period (Y+Rc), s	6.1	6.8		6.4	6.1	6.8		6.4				
Max Green Setting (Gmax), s	40.4	51.6		35.0	12.9	48.8		35.0				
Max Q Clear Time (g_c+I1), s	10.1	01.0										
Green Ext Time (p_c), s	8.9	5.6		30.3	12.3	22.5		11.0				
					12.3 0.0	22.5 19.3		11.0 0.8				
Intersection Summary	8.9	5.6		30.3								
Intersection Summary HCM 6th Ctrl Delay	8.9	5.6	18.9	30.3								

05/07/2021

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Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	Ð	^	7	*	^	*	7	
Traffic Volume (veh/h)	0	1003	588	132	1078	434	66	
Future Volume (veh/h)	0	1003	588	132	1078	434	66	
Initial Q (Qb), veh		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)			1.00	1.00		1.00	1.00	
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No	,,,,,		No	No		
Adj Sat Flow, veh/h/ln		1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h		1090	575	143	1172	472	72	
Peak Hour Factor		0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %		2	2	2	2	2	2	
Cap, veh/h		1600	714	170	2126	507	451	
Arrive On Green		0.90	0.90	0.10	0.60	0.28	0.28	
Sat Flow, veh/h		3647	1585	1781	3647	1781	1585	
Grp Volume(v), veh/h		1090	575	143	1172	472	72	
Grp Sat Flow(s), veh/h/ln		1777	1585	1781	1777	1781	1585	
Q Serve(g_s), s		9.2	15.3	9.2	22.9	29.9	3.9	
Cycle Q Clear(q_c), s		9.2	15.3	9.2	22.9	29.9	3.9	
Prop In Lane		7.2	1.00	1.00	22.7	1.00	1.00	
Lane Grp Cap(c), veh/h		1600	714	170	2126	507	451	
V/C Ratio(X)		0.68	0.81	0.84	0.55	0.93	0.16	
Avail Cap(c_a), veh/h		1600	714	213	2126	567	504	
HCM Platoon Ratio		2.00	2.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		0.66	0.66	0.70	0.70	1.00	1.00	
Uniform Delay (d), s/veh		3.6	3.9	51.6	14.0	40.4	31.1	
Incr Delay (d2), s/veh		1.6	6.4	13.0	0.7	21.5	0.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		1.8	2.8	4.6	8.4	15.6	1.5	
Unsig. Movement Delay, s/veh			2.0		0	.0.0		
LnGrp Delay(d),s/veh		5.2	10.4	64.6	14.7	61.9	31.3	
LnGrp LOS		A	В	E	В	E	C	
Approach Vol, veh/h		1665			1315	544		
Approach Delay, s/veh		7.0			20.1	57.8		
Approach LOS		Α.			C C	57.0 E		
Timer - Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	17.2	59.7				76.9		39.1
Change Period (Y+Rc), s	6.1	7.5				7.5		6.1
Max Green Setting (Gmax), s	13.9	45.5				53.4		36.9
Max Q Clear Time (g_c+I1), s	11.2	17.3				24.9		31.9
Green Ext Time (p_c), s	0.0	8.9				7.3		1.1
Intersection Summary								
HCM 6th Ctrl Delay			19.7					
HCM 6th LOS			В					
Notes								

	۶	→	•	•	←	4	1	†	~	/	†	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	∱ ∱		ሻ	ተ ኈ		7	₽		ሻ	₽	
Traffic Volume (veh/h)	45	769	20	16	1082	24	64	0	8	68	3	111
Future Volume (veh/h)	45	769	20	16	1082	24	64	0	8	68	3	111
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	48	827	22	17	1163	26	69	0	9	73	3	119
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	85	1386	37	37	1297	29	107	0	180	110	5	180
Arrive On Green	0.05	0.39	0.39	0.02	0.37	0.37	0.06	0.00	0.11	0.06	0.12	0.12
Sat Flow, veh/h	1781	3536	94	1781	3553	79	1781	0	1585	1781	39	1552
Grp Volume(v), veh/h	48	416	433	17	581	608	69	0	9	73	0	122
Grp Sat Flow(s), veh/h/ln	1781	1777	1853	1781	1777	1856	1781	0	1585	1781	0	1591
Q Serve(g_s), s	1.4	9.9	9.9	0.5	16.5	16.5	2.0	0.0	0.3	2.1	0.0	3.9
Cycle Q Clear(g_c), s	1.4	9.9	9.9	0.5	16.5	16.5	2.0	0.0	0.3	2.1	0.0	3.9
Prop In Lane	1.00	/0/	0.05	1.00	/ 10	0.04	1.00	0	1.00	1.00	0	0.98
Lane Grp Cap(c), veh/h	85	696	726	37	649	678	107	0	180	110	0	184
V/C Ratio(X)	0.57 167	0.60 696	0.60 726	0.46 167	0.90 665	0.90 695	0.65 167	0.00	0.05 563	0.66 300	0.00	0.66 685
Avail Cap(c_a), veh/h HCM 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
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	24.9	12.9	12.9	25.9	16.0	16.0	24.6	0.00	21.1	24.5	0.00	22.6
Incr Delay (d2), s/veh	5.8	1.4	1.3	8.5	14.7	14.2	6.4	0.0	0.1	6.6	0.0	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	3.2	3.4	0.3	7.7	8.0	1.0	0.0	0.0	1.0	0.0	1.6
Unsig. Movement Delay, s/veh		0.2	5.4	0.5	7.7	0.0	1.0	0.0	0.1	1.0	0.0	1.0
LnGrp Delay(d),s/veh	30.7	14.3	14.2	34.4	30.7	30.2	31.0	0.0	21.2	31.1	0.0	26.7
LnGrp LOS	С	В	В	C	C	C	C	A	C	С	A	C
Approach Vol, veh/h		897			1206			78			195	
Approach Delay, s/veh		15.1			30.5			29.8			28.4	
Approach LOS		В			С			C			C	
	1		า	1			7					
Timer - Assigned Phs Phs Duration (C. V. Pa) s	<u> </u>	27.0	3	11.2	5	6 24 F	0.2	11 1				
Phs Duration (G+Y+Rc), s	6.1 5.0	27.9	8.2 5.0	11.2	7.5 5.0	26.5	8.3 5.0	11.1 5.0				
Change Period (Y+Rc), s Max Green Setting (Gmax), s	5.0	7.0	5.0	5.0	5.0	7.0		19.0				
Max Q Clear Time (g_c+l1), s	2.5	20.0 11.9	4.0	23.0 5.9	3.4	20.0 18.5	9.0 4.1	2.3				
Green Ext Time (p_c), s	0.0	3.0	0.0	0.6	0.0	1.0	0.1	0.0				
η = ,	0.0	3.0	0.0	0.0	0.0	1.0	0.1	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			24.5									
HCM 6th LOS			С									

Interception						
Intersection						
Intersection Delay, s/veh	14.8					
Intersection LOS	В					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ሻ	†	†	7	W	
Traffic Vol, veh/h	26	7	9	354	349	56
Future Vol, veh/h	26	7	9	354	349	56
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	28	8	10	385	379	61
Number of Lanes	1	1	1	1	1	0
Approach	EB		WB		SB	
Opposing Approach	WB		EB			
Opposing Lanes	2		2		0	
Conflicting Approach Left	SB		_		WB	
Conflicting Lanes Left	1		0		2	
Conflicting Approach Right			SB		EB	
Conflicting Lanes Right	0		1		2	
HCM Control Delay	9.7		13.6		16.3	
HCM LOS	А		В		С	
Lane						
Lanc		EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
		EBLn1 100%	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %		100%	0%	0%	0%	86%
Vol Left, % Vol Thru, %		100% 0%	0% 100%	0% 100%	0% 0%	86% 0%
Vol Left, % Vol Thru, % Vol Right, %		100% 0% 0%	0% 100% 0%	0% 100% 0%	0% 0% 100%	86% 0% 14%
Vol Left, % Vol Thru, % Vol Right, % Sign Control		100% 0% 0% Stop	0% 100%	0% 100% 0% Stop	0% 0% 100% Stop	86% 0% 14% Stop
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		100% 0% 0% Stop 26	0% 100% 0% Stop 7	0% 100% 0% Stop 9	0% 0% 100% Stop 354	86% 0% 14% Stop 405
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		100% 0% 0% Stop 26 26	0% 100% 0% Stop	0% 100% 0% Stop 9	0% 0% 100% Stop 354	86% 0% 14% Stop 405 349
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		100% 0% 0% Stop 26 26 0	0% 100% 0% Stop 7 0	0% 100% 0% Stop 9	0% 0% 100% Stop 354 0	86% 0% 14% Stop 405 349 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		100% 0% 0% Stop 26 26 0	0% 100% 0% Stop 7 0 7	0% 100% 0% Stop 9 0	0% 0% 100% Stop 354 0 0	86% 0% 14% Stop 405 349 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		100% 0% 0% Stop 26 26 0	0% 100% 0% Stop 7 0	0% 100% 0% Stop 9	0% 0% 100% Stop 354 0	86% 0% 14% Stop 405 349 0 56
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		100% 0% 0% Stop 26 26 0 0 28	0% 100% 0% Stop 7 0 7	0% 100% 0% Stop 9 0 9	0% 0% 100% Stop 354 0 0 354 385	86% 0% 14% Stop 405 349 0 56 440
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		100% 0% 0% Stop 26 26 0 0 28 7	0% 100% 0% Stop 7 0 7 0 8 7	0% 100% 0% Stop 9 0 9 0 10 7	0% 0% 100% Stop 354 0 0 354 385 7 0.539	86% 0% 14% Stop 405 349 0 56 440 2
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		100% 0% 0% Stop 26 26 0 0 28	0% 100% 0% Stop 7 0 7 0 8	0% 100% 0% Stop 9 0 9	0% 0% 100% Stop 354 0 0 354 385	86% 0% 14% Stop 405 349 0 56 440
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		100% 0% 0% Stop 26 26 0 0 28 7 0.054 6.833 Yes	0% 100% 0% Stop 7 0 7 0 8 7 0.013 6.323 Yes	0% 100% 0% Stop 9 0 10 7 0.016 5.752 Yes	0% 0% 100% Stop 354 0 0 354 385 7 0.539 5.042 Yes	86% 0% 14% Stop 405 349 0 56 440 2 0.621 5.078 Yes
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		100% 0% 0% Stop 26 26 0 0 28 7 0.054 6.833 Yes 527	0% 100% 0% Stop 7 0 7 0 8 7 0.013	0% 100% 0% Stop 9 0 9 0 10 7 0.016 5.752	0% 0% 100% Stop 354 0 0 354 385 7 0.539 5.042 Yes 708	86% 0% 14% Stop 405 349 0 56 440 2 0.621 5.078 Yes 704
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		100% 0% 0% Stop 26 26 0 0 28 7 0.054 6.833 Yes	0% 100% 0% Stop 7 0 7 0 8 7 0.013 6.323 Yes 569	0% 100% 0% Stop 9 0 10 7 0.016 5.752 Yes 616	0% 0% 100% Stop 354 0 0 354 385 7 0.539 5.042 Yes	86% 0% 14% Stop 405 349 0 56 440 2 0.621 5.078 Yes
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		100% 0% 0% Stop 26 26 0 0 28 7 0.054 6.833 Yes 527 4.533	0% 100% 0% Stop 7 0 7 0 8 7 0.013 6.323 Yes 569 4.023	0% 100% 0% Stop 9 0 10 7 0.016 5.752 Yes 616 3.542	0% 0% 100% Stop 354 0 0 354 385 7 0.539 5.042 Yes 708 2.832	86% 0% 14% Stop 405 349 0 56 440 2 0.621 5.078 Yes 704 3.169
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		100% 0% 0% Stop 26 26 0 0 28 7 0.054 6.833 Yes 527 4.533 0.053	0% 100% 0% Stop 7 0 7 0 8 7 0.013 6.323 Yes 569 4.023 0.014	0% 100% 0% Stop 9 0 10 7 0.016 5.752 Yes 616 3.542 0.016	0% 0% 100% Stop 354 0 0 354 385 7 0.539 5.042 Yes 708 2.832 0.544	86% 0% 14% Stop 405 349 0 56 440 2 0.621 5.078 Yes 704 3.169 0.625

HCM 6th AWSC

Synchro 10 Report

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ተተተ	7	1,1	^					ሻ	र्स	77
Traffic Volume (veh/h)	0	1153	468	435	1406	0	0	0	0	775	2	480
Future Volume (veh/h)	0	1153	468	435	1406	0	0	0	0	775	2	480
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	1870	1870
Adj Flow Rate, veh/h	0	1253	509	473	1528	0				843	0	522
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	2	2
Cap, veh/h	0	1944	604	557	3028	0				991	0	882
Arrive On Green	0.00	0.38	0.38	0.05	0.20	0.00				0.28	0.00	0.28
Sat Flow, veh/h	0	5274	1585	3456	5274	0				3563	0	3170
Grp Volume(v), veh/h	0	1253	509	473	1528	0				843	0	522
Grp Sat Flow(s), veh/h/ln	0	1702	1585	1728	1702	0				1781	0	1585
Q Serve(g_s), s	0.0	18.1	26.4	12.2	24.0	0.0				20.1	0.0	12.8
Cycle Q Clear(g_c), s	0.0	18.1	26.4	12.2	24.0	0.0				20.1	0.0	12.8
Prop In Lane	0.00	10.1	1.00	1.00	21.0	0.00				1.00	0.0	1.00
Lane Grp Cap(c), veh/h	0.00	1944	604	557	3028	0.00				991	0	882
V/C Ratio(X)	0.00	0.64	0.84	0.85	0.50	0.00				0.85	0.00	0.59
Avail Cap(c_a), veh/h	0.00	1944	604	599	3028	0.00				1100	0.00	979
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.60	0.60	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	22.9	25.4	41.5	24.4	0.0				30.7	0.0	28.1
Incr Delay (d2), s/veh	0.0	1.7	13.5	6.7	0.4	0.0				6.0	0.0	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	6.9	11.2	6.0	10.8	0.0				9.2	0.0	4.8
Unsig. Movement Delay, s/veh	0.0	0.7	11.2	0.0	10.0	0.0				7.2	0.0	4.0
LnGrp Delay(d),s/veh	0.0	24.5	38.9	48.2	24.8	0.0				36.7	0.0	28.9
LnGrp LOS	Α	24.5 C	30.9 D	40.2 D	24.0 C	0.0 A				30.7 D	0.0 A	20.9 C
	A		D	U		A				D		
Approach Vol, veh/h		1762			2001						1365	
Approach Delay, s/veh		28.7			30.3						33.7	
Approach LOS		С			С						С	
Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	19.1	40.1		30.8		59.2						
Change Period (Y+Rc), s	4.6	5.8		5.8		5.8						
Max Green Setting (Gmax), s	15.6	30.4		27.8		50.6						
Max Q Clear Time (g_c+l1), s	14.2	28.4		22.1		26.0						
Green Ext Time (p_c), s	0.3	1.6		2.9		11.6						
Intersection Summary												
HCM 6th Ctrl Delay			30.7									
HCM 6th LOS			C									
Notes												

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1,1	ተተተ			ተተተ	7	Ţ	₩	7			
Traffic Volume (veh/h)	367	1560	0	0	1165	785	675	2	604	0	0	0
Future Volume (veh/h)	367	1560	0	0	1165	785	675	2	604	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	395	1677	0	0	1253	759	929	0	433			
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	457	2909	0	0	1945	604	1074	0	478			
Arrive On Green	0.13	0.57	0.00	0.00	0.38	0.38	0.30	0.00	0.30			
Sat Flow, veh/h	3456	5274	0	0	5274	1585	3563	0	1585			
Grp Volume(v), veh/h	395	1677	0	0	1253	759	929	0	433			
Grp Sat Flow(s), veh/h/ln	1728	1702	0	0	1702	1585	1781	0	1585			
Q Serve(g_s), s	10.1	18.9	0.0	0.0	18.1	34.3	22.2	0.0	23.6			
Cycle Q Clear(g_c), s	10.1	18.9	0.0	0.0	18.1	34.3	22.2	0.0	23.6			
Prop In Lane	1.00	10.7	0.00	0.00	10.1	1.00	1.00	0.0	1.00			
Lane Grp Cap(c), veh/h	457	2909	0.00	0.00	1945	604	1074	0	478			
V/C Ratio(X)	0.86	0.58	0.00	0.00	0.64	1.26	0.87	0.00	0.91			
Avail Cap(c_a), veh/h	457	2909	0.00	0.00	1945	604	1116	0.00	497			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.60	0.60	0.00	0.00	0.09	0.09	1.00	0.00	1.00			
Uniform Delay (d), s/veh	38.3	12.4	0.0	0.0	22.9	27.9	29.7	0.0	30.2			
Incr Delay (d2), s/veh	10.2	0.5	0.0	0.0	0.2	117.1	7.1	0.0	19.8			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	4.7	6.1	0.0	0.0	6.6	31.3	10.2	0.0	11.3			
Unsig. Movement Delay, s/veh		0.1	0.0	0.0	0.0	31.3	10.2	0.0	11.5			
LnGrp Delay(d),s/veh	48.4	12.9	0.0	0.0	23.0	144.9	36.8	0.0	50.1			
LnGrp LOS	40.4 D	12.7 B	Α	Α	23.0 C	F	30.0 D	Α	50.1 D			
	D	2072	A		2012	ı	D D	1362	U			
Approach Vol, veh/h Approach Delay, s/veh								41.0				
Approach LOS		19.7			69.0							
Approach LOS		В			E			D				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		57.1			17.0	40.1		32.9				
Change Period (Y+Rc), s		5.8			5.1	5.8		5.8				
Max Green Setting (Gmax), s		50.2			11.9	33.2		28.2				
Max Q Clear Time (g_c+l1), s		20.9			12.1	36.3		25.6				
Green Ext Time (p_c), s		14.3			0.0	0.0		1.5				
Intersection Summary												
HCM 6th Ctrl Delay			43.2									
HCM 6th LOS			D									
Notes												

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	ተተ _ጉ		7	ተ ተኈ			€Î	7		4	
Traffic Volume (veh/h)	278	1560	418	108	1433	266	384	24	137	235	11	249
Future Volume (veh/h)	278	1560	418	108	1433	266	384	24	137	235	11	249
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	302	1696	454	117	1558	289	417	26	149	255	12	271
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	195	1167	306	134	1108	205	470	26	756	45	1	1
Arrive On Green	0.11	0.29	0.29	0.02	0.08	0.08	0.48	0.48	0.48	0.48	0.48	0.48
Sat Flow, veh/h	1781	4027	1057	1781	4331	800	861	54	1585	0	2	2
Grp Volume(v), veh/h	302	1429	721	117	1223	624	443	0	149	538	0	0
Grp Sat Flow(s),veh/h/ln	1781	1702	1680	1781	1702	1726	915	0	1585	4	0	0
Q Serve(g_s), s	12.9	34.2	34.2	7.7	30.2	30.2	0.0	0.0	6.4	0.0	0.0	0.0
Cycle Q Clear(g_c), s	12.9	34.2	34.2	7.7	30.2	30.2	56.3	0.0	6.4	56.3	0.0	0.0
Prop In Lane	1.00		0.63	1.00		0.46	0.94		1.00	0.47		0.50
Lane Grp Cap(c), veh/h	195	987	487	134	871	442	496	0	756	47	0	0
V/C Ratio(X)	1.55	1.45	1.48	0.87	1.40	1.41	0.89	0.00	0.20	11.44	0.00	0.00
Avail Cap(c_a), veh/h	195	987	487	134	871	442	496	0	756	47	0	0
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.73	0.73	0.73	0.31	0.31	0.31	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	52.5	41.9	41.9	57.0	54.0	54.0	31.3	0.0	17.8	56.6	0.0	0.0
Incr Delay (d2), s/veh	265.6	205.8	224.8	16.6	184.0	189.5	18.4	0.0	0.1	4741.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	20.0	41.9	43.9	4.2	36.0	37.2	14.8	0.0	2.4	63.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	318.2	247.7	266.7	73.6	238.1	243.5	49.6	0.0	17.9	4798.3	0.0	0.0
LnGrp LOS	F	F	F	Е	F	F	D	Α	В	F	Α	Α
Approach Vol, veh/h		2452			1964			592			538	
Approach Delay, s/veh		261.9			230.0			41.7			4798.3	
Approach LOS		F			F			D			F	
	1			1		/					•	
Timer - Assigned Phs	15.0	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.0	41.0		62.0	19.0	37.0		62.0				
Change Period (Y+Rc), s	6.1	6.8		* 5.7	6.1	6.8		* 5.7				
Max Green Setting (Gmax), s	8.9	34.2		* 56	12.9	30.2		* 56				
Max Q Clear Time (g_c+I1), s	9.7	36.2		58.3	14.9	32.2		58.3				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			667.2									
HCM 6th LOS			F									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	^	7	ሻ	^	7	ሻ	₽		*		7
Traffic Volume (veh/h)	193	1655	19	125	1529	111	75	44	130	153	34	206
Future Volume (veh/h)	193	1655	19	125	1529	111	75	44	130	153	34	206
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	205	1761	20	133	1627	118	80	47	138	163	36	219
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	180	1796	801	142	1720	767	327	105	309	249	470	399
Arrive On Green	0.03	0.17	0.17	0.11	0.64	0.64	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	1125	419	1230	1199	1870	1585
Grp Volume(v), veh/h	205	1761	20	133	1627	118	80	0	185	163	36	219
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1125	0	1649	1199	1870	1585
Q Serve(g_s), s	11.9	58.2	1.2	8.7	49.2	3.5	6.9	0.0	11.2	15.7	1.7	14.2
Cycle Q Clear(g_c), s	11.9	58.2	1.2	8.7	49.2	3.5	8.6	0.0	11.2	26.8	1.7	14.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.75	1.00		1.00
Lane Grp Cap(c), veh/h	180	1796	801	142	1720	767	327	0	415	249	470	399
V/C Ratio(X)	1.14	0.98	0.02	0.94	0.95	0.15	0.24	0.00	0.45	0.65	0.08	0.55
Avail Cap(c_a), veh/h	180	1796	801	142	1720	767	378	0	489	303	555	470
HCM Platoon Ratio	0.33	0.33	0.33	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.47	0.47	0.47	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.0	48.6	24.8	52.5	19.6	11.5	37.0	0.0	37.2	48.5	33.7	38.4
Incr Delay (d2), s/veh	70.1	3.3	0.0	35.1	6.7	0.2	0.4	0.0	0.8	3.7	0.1	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.1	28.3	0.4	5.1	16.0	1.2	1.9	0.0	4.6	4.9	0.8	5.6
Unsig. Movement Delay, s/veh		F1 0	24.0	07./	2/2	117	07.4	0.0	20.0	F0.0	22.0	20.5
LnGrp Delay(d),s/veh	127.2	51.9	24.8	87.6	26.3	11.7	37.4	0.0	38.0	52.2	33.8	39.5
LnGrp LOS	F	D 100/	С	F	C	В	D	A	D	D	C	D
Approach Vol, veh/h		1986			1878			265			418	
Approach Delay, s/veh		59.4			29.7			37.8			44.0	
Approach LOS		Е			С			D			D	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.5	66.4		36.1	18.0	63.9		36.1				
Change Period (Y+Rc), s	6.1	6.8		6.4	6.1	6.8		6.4				
Max Green Setting (Gmax), s	9.4	54.3		35.0	11.9	51.8		35.0				_
Max Q Clear Time (g_c+I1), s	10.7	60.2		28.8	13.9	51.2		13.2				
Green Ext Time (p_c), s	0.0	0.0		0.9	0.0	0.6		1.4				
Intersection Summary												
HCM 6th Ctrl Delay			44.5									
HCM 6th LOS			D									

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Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	Ð	^	7	*	^		7	
Traffic Volume (veh/h)	0	1369	570	69	1183	644	143	
Future Volume (veh/h)	0	1369	570	69	1183	644	143	
Initial Q (Qb), veh		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)			1.00	1.00		1.00	1.00	
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No	No		
Adj Sat Flow, veh/h/ln		1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h		1456	545	73	1259	685	152	
Peak Hour Factor		0.94	0.94	0.94	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2	2	2	2	
Cap, veh/h		1394	622	75	1728	710	632	
Arrive On Green		0.78	0.78	0.04	0.49	0.40	0.40	
Sat Flow, veh/h		3647	1585	1781	3647	1781	1585	
Grp Volume(v), veh/h		1456	545	73	1259	685	152	
Grp Sat Flow(s), veh/h/ln		1777	1585	1781	1777	1781	1585	
Q Serve(g_s), s		46.3	28.0	4.8	33.3	44.4	7.5	
Cycle Q Clear(g_c), s		46.3	28.0	4.8	33.3	44.4	7.5	
Prop In Lane			1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h		1394	622	75	1728	710	632	
V/C Ratio(X)		1.04	0.88	0.97	0.73	0.97	0.24	
Avail Cap(c_a), veh/h		1394	622	75	1728	723	643	
HCM Platoon Ratio		2.00	2.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		0.23	0.23	0.80	0.80	1.00	1.00	
Uniform Delay (d), s/veh		12.7	10.8	56.4	24.1	34.7	23.6	
Incr Delay (d2), s/veh		25.6	4.4	81.2	2.2	25.0	0.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		9.6	4.4	3.8	13.5	22.9	2.8	
Unsig. Movement Delay, s/veh								
LnGrp Delay(d),s/veh		38.3	15.1	137.7	26.3	59.6	23.8	
LnGrp LOS		F	В	F	С	E	С	
Approach Vol, veh/h		2001			1332	837		
Approach Delay, s/veh		32.0			32.4	53.1		
Approach LOS		С			С	D		
	1							0
Timer - Assigned Phs Phs Duration (C+V+Ps) s	11 1	52.0				64.0		8 E2 1
Phs Duration (G+Y+Rc), s	11.1	53.8				64.9		53.1
Change Period (Y+Rc), s	6.1	7.5				7.5		6.1 47.9
Max Green Setting (Gmax), s Max Q Clear Time (q_c+11), s	5.0	45.4				44.4 35.3		47.9
	6.8	48.3 0.0				35.3 4.6		0.7
Green Ext Time (p_c), s	0.0	0.0				4.0		0.7
Intersection Summary								
HCM 6th Ctrl Delay			36.4					
HCM 6th LOS			D					
Notes								

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	J.	∱ }		¥	↑ ↑		, J	ef		7	ef.	
Traffic Volume (veh/h)	84	1188	32	42	1000	42	29	2	7	50	1	69
Future Volume (veh/h)	84	1188	32	42	1000	42	29	2	7	50	1	69
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	86	1212	33	43	1020	43	30	2	7	51	1	70
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	123	1353	37	80	1246	53	60	34	118	90	2	171
Arrive On Green	0.07	0.38	0.38	0.04	0.36	0.36	0.03	0.09	0.09	0.05	0.11	0.11
Sat Flow, veh/h	1781	3534	96	1781	3474	146	1781	365	1276	1781	22	1566
Grp Volume(v), veh/h	86	609	636	43	522	541	30	0	9	51	0	71
Grp Sat Flow(s),veh/h/ln	1781	1777	1853	1781	1777	1844	1781	0	1641	1781	0	1588
Q Serve(g_s), s	2.4	16.5	16.5	1.2	13.7	13.7	8.0	0.0	0.3	1.4	0.0	2.1
Cycle Q Clear(g_c), s	2.4	16.5	16.5	1.2	13.7	13.7	8.0	0.0	0.3	1.4	0.0	2.1
Prop In Lane	1.00		0.05	1.00		0.08	1.00		0.78	1.00		0.99
Lane Grp Cap(c), veh/h	123	680	710	80	637	662	60	0	152	90	0	173
V/C Ratio(X)	0.70	0.90	0.90	0.54	0.82	0.82	0.50	0.00	0.06	0.57	0.00	0.41
Avail Cap(c_a), veh/h	174	694	723	174	694	720	174	0	672	243	0	713
HCM 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
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	23.3	14.8	14.8	24.0	14.9	14.9	24.3	0.0	21.2	23.8	0.0	21.3
Incr Delay (d2), s/veh	2.7	14.2	13.8	2.1	7.4	7.1	2.3	0.0	0.1	2.1	0.0	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	7.5	7.8	0.5	5.4	5.6	0.4	0.0	0.1	0.6	0.0	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.0	29.1	28.7	26.1	22.3	22.1	26.6	0.0	21.3	25.9	0.0	22.4
LnGrp LOS	С	С	С	С	С	С	С	Α	С	С	Α	С
Approach Vol, veh/h		1331			1106			39			122	
Approach Delay, s/veh		28.7			22.3			25.4			23.9	
Approach LOS		С			С			С			С	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	7.3	26.6	6.7	10.6	8.5	25.4	7.6	9.7				
Change Period (Y+Rc), s	5.0	7.0	5.0	5.0	5.0	7.0	5.0	5.0				
Max Green Setting (Gmax), s	5.0	20.0	5.0	23.0	5.0	20.0	7.0	21.0				
Max Q Clear Time (g_c+I1), s	3.2	18.5	2.8	4.1	4.4	15.7	3.4	2.3				
Green Ext Time (p_c), s	0.0	1.1	0.0	0.2	0.0	2.6	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			25.7									
HCM 6th LOS			С									

05/07/2021

Intersection						
Intersection Delay, s/veh	23.3					
Intersection LOS	С					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ኝ	<u> </u>	<u>₩</u>	7	¥	JDIK
Traffic Vol, veh/h	33	5	3	440	462	6
Future Vol, veh/h	33	5	3	440	462	6
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	36	5	3	478	502	7
Number of Lanes	1	1	1	1	1	0
	•	1	•	 	-	U
Approach	EB		WB		SB	
Opposing Approach	WB		EB			
Opposing Lanes	2		2		0	
Conflicting Approach Left	SB				WB	
Conflicting Lanes Left	1		0		2	
Conflicting Approach Right			SB		EB	
Conflicting Lanes Right	0		1		2	
HCM Control Delay	10.6		21.1		26.4	
HCM LOS	В		С		D	
Lane		EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
		EBLn1 100%	EBLn2	WBLn1	WBLn2	SBLn1 99%
Vol Left, %						
Vol Left, % Vol Thru, %		100% 0%	0% 100%	0% 100%	0% 0%	99% 0%
Vol Left, % Vol Thru, % Vol Right, %		100% 0% 0%	0% 100% 0%	0% 100% 0%	0% 0% 100%	99% 0% 1%
Vol Left, % Vol Thru, % Vol Right, % Sign Control		100% 0% 0% Stop	0% 100% 0% Stop	0% 100% 0% Stop	0% 0% 100% Stop	99% 0% 1% Stop
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		100% 0% 0% Stop 33	0% 100% 0% Stop 5	0% 100% 0% Stop 3	0% 0% 100%	99% 0% 1% Stop 468
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		100% 0% 0% Stop 33 33	0% 100% 0% Stop 5	0% 100% 0% Stop 3	0% 0% 100% Stop 440	99% 0% 1% Stop 468 462
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		100% 0% 0% Stop 33 33	0% 100% 0% Stop 5 0	0% 100% 0% Stop 3 0	0% 0% 100% Stop 440 0	99% 0% 1% Stop 468 462 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		100% 0% 0% Stop 33 33 0	0% 100% 0% Stop 5 0	0% 100% 0% Stop 3 0	0% 0% 100% Stop 440 0	99% 0% 1% Stop 468 462 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		100% 0% 0% Stop 33 33 0 0	0% 100% 0% Stop 5 0	0% 100% 0% Stop 3 0 3	0% 0% 100% Stop 440 0 0 440 478	99% 0% 1% Stop 468 462 0 6
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		100% 0% 0% Stop 33 33 0 0	0% 100% 0% Stop 5 0 5 7	0% 100% 0% Stop 3 0 3 0 3	0% 0% 100% Stop 440 0 0 440 478	99% 0% 1% Stop 468 462 0 6 509
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		100% 0% 0% Stop 33 33 0 0 7	0% 100% 0% Stop 5 0 5 7 0.01	0% 100% 0% Stop 3 0 3 0 3 7	0% 0% 100% Stop 440 0 440 478 7 0.724	99% 0% 1% Stop 468 462 0 6 509 2
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		100% 0% 0% Stop 33 33 0 0 0 36 7 0.073 7.366	0% 100% 0% Stop 5 0 5 7 0.01 6.853	0% 100% 0% Stop 3 0 3 0 3 7 0.006 6.161	0% 0% 100% Stop 440 0 0 440 478 7 0.724 5.448	99% 0% 1% Stop 468 462 0 6 509 2 0.79 5.589
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		100% 0% 0% Stop 33 33 0 0 36 7 0.073 7.366 Yes	0% 100% 0% Stop 5 0 5 7 0.01 6.853 Yes	0% 100% 0% Stop 3 0 3 7 0.006 6.161 Yes	0% 0% 100% Stop 440 0 0 440 478 7 0.724 5.448 Yes	99% 0% 1% Stop 468 462 0 6 509 2 0.79 5.589 Yes
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		100% 0% 0% Stop 33 33 0 0 36 7 0.073 7.366 Yes 484	0% 100% 0% Stop 5 0 5 7 0.01 6.853 Yes 520	0% 100% 0% Stop 3 0 3 7 0.006 6.161 Yes 580	0% 0% 100% Stop 440 0 440 478 7 0.724 5.448 Yes 665	99% 0% 1% Stop 468 462 0 6 509 2 0.79 5.589 Yes 646
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		100% 0% 0% Stop 33 33 0 0 36 7 0.073 7.366 Yes 484 5.142	0% 100% 0% Stop 5 0 5 7 0.01 6.853 Yes 520 4.628	0% 100% 0% Stop 3 0 3 7 0.006 6.161 Yes 580 3.906	0% 0% 100% Stop 440 0 440 478 7 0.724 5.448 Yes 665 3.193	99% 0% 1% Stop 468 462 0 6 509 2 0.79 5.589 Yes 646 3.628
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		100% 0% 0% Stop 33 33 0 0 36 7 0.073 7.366 Yes 484 5.142 0.074	0% 100% 0% Stop 5 0 5 7 0.01 6.853 Yes 520 4.628 0.01	0% 100% 0% Stop 3 0 3 7 0.006 6.161 Yes 580 3.906 0.005	0% 0% 100% Stop 440 0 440 478 7 0.724 5.448 Yes 665 3.193 0.719	99% 0% 1% Stop 468 462 0 6 509 2 0.79 5.589 Yes 646 3.628 0.788
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		100% 0% 0% Stop 33 33 0 0 36 7 0.073 7.366 Yes 484 5.142 0.074 10.7	0% 100% 0% Stop 5 0 5 7 0.01 6.853 Yes 520 4.628 0.01 9.7	0% 100% 0% Stop 3 0 3 7 0.006 6.161 Yes 580 3.906 0.005 8.9	0% 0% 100% Stop 440 0 440 478 7 0.724 5.448 Yes 665 3.193 0.719 21.2	99% 0% 1% Stop 468 462 0 6 509 2 0.79 5.589 Yes 646 3.628 0.788 26.4
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		100% 0% 0% Stop 33 33 0 0 36 7 0.073 7.366 Yes 484 5.142 0.074	0% 100% 0% Stop 5 0 5 7 0.01 6.853 Yes 520 4.628 0.01	0% 100% 0% Stop 3 0 3 7 0.006 6.161 Yes 580 3.906 0.005	0% 0% 100% Stop 440 0 440 478 7 0.724 5.448 Yes 665 3.193 0.719	99% 0% 1% Stop 468 462 0 6 509 2 0.79 5.589 Yes 646 3.628 0.788

APPENDIX D

PEAK HOUR INTERSECTION ANALYSIS WORKSHEETS – NEAR-TERM OPENING YEAR 2026 + PROJECT

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		^	7	777	ተተተ					ሻ	र्स	77
Traffic Volume (veh/h)	0	1135	765	495	921	0	0	0	0	697	2	450
Future Volume (veh/h)	0	1135	765	495	921	0	0	0	0	697	2	450
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	1870	1870
Adj Flow Rate, veh/h	0	1234	832	538	1001	0				759	0	489
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	2	2
Cap, veh/h	0	2073	643	603	3224	0				854	0	760
Arrive On Green	0.00	0.41	0.41	0.23	0.84	0.00				0.24	0.00	0.24
Sat Flow, veh/h	0	5274	1585	3456	5274	0				3563	0	3170
Grp Volume(v), veh/h	0	1234	832	538	1001	0				759	0	489
Grp Sat Flow(s), veh/h/ln	0	1702	1585	1728	1702	0				1781	0	1585
Q Serve(g_s), s	0.0	17.0	36.5	13.6	3.8	0.0				18.5	0.0	12.5
Cycle Q Clear(g_c), s	0.0	17.0	36.5	13.6	3.8	0.0				18.5	0.0	12.5
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2073	643	603	3224	0				854	0	760
V/C Ratio(X)	0.00	0.60	1.29	0.89	0.31	0.00				0.89	0.00	0.64
Avail Cap(c_a), veh/h	0	2073	643	630	3224	0				918	0	817
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.79	0.79	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	20.9	26.7	33.7	3.0	0.0				33.1	0.0	30.8
Incr Delay (d2), s/veh	0.0	1.3	143.2	11.6	0.2	0.0				9.6	0.0	1.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	6.4	37.8	6.0	0.9	0.0				8.9	0.0	4.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	22.2	170.0	45.3	3.2	0.0				42.7	0.0	31.9
LnGrp LOS	Α	С	F	D	Α	Α				D	Α	С
Approach Vol, veh/h		2066			1539						1248	
Approach Delay, s/veh		81.7			17.9						38.5	
Approach LOS		F			В						D	
Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	20.3	42.3		27.4		62.6						
Change Period (Y+Rc), s	4.6	5.8		5.8		5.8						
Max Green Setting (Gmax), s	16.4	34.2		23.2		55.2						
Max Q Clear Time (g_c+l1), s	15.6	38.5		20.5		5.8						
Green Ext Time (p_c), s	0.1	0.0		1.0		4.7						
Intersection Summary												
HCM 6th Ctrl Delay			50.4									
HCM 6th LOS			D									
Notes												

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1,1	ተተተ			ተተተ	7	ř	- 4	7			
Traffic Volume (veh/h)	419	1410	0	0	1068	748	349	1	438	0	0	0
Future Volume (veh/h)	419	1410	0	0	1068	748	349	1	438	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	451	1516	0	0	1148	723	537	0	298			
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	532	3349	0	0	2273	706	767	0	341			
Arrive On Green	0.15	0.66	0.00	0.00	0.45	0.45	0.22	0.00	0.22			
Sat Flow, veh/h	3456	5274	0	0	5274	1585	3563	0	1585			
Grp Volume(v), veh/h	451	1516	0	0	1148	723	537	0	298			
Grp Sat Flow(s),veh/h/ln	1728	1702	0	0	1702	1585	1781	0	1585			
Q Serve(g_s), s	11.4	13.1	0.0	0.0	14.5	40.1	12.5	0.0	16.4			
Cycle Q Clear(g_c), s	11.4	13.1	0.0	0.0	14.5	40.1	12.5	0.0	16.4			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	532	3349	0	0	2273	706	767	0	341			
V/C Ratio(X)	0.85	0.45	0.00	0.00	0.51	1.02	0.70	0.00	0.87			
Avail Cap(c_a), veh/h	611	3349	0	0	2273	706	839	0	373			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.67	0.67	0.00	0.00	0.26	0.26	1.00	0.00	1.00			
Uniform Delay (d), s/veh	37.0	7.6	0.0	0.0	17.9	25.0	32.6	0.0	34.1			
Incr Delay (d2), s/veh	6.7	0.3	0.0	0.0	0.2	23.9	2.3	0.0	18.7			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	5.1	3.7	0.0	0.0	5.1	17.8	5.5	0.0	7.9			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	43.8	7.9	0.0	0.0	18.1	48.9	35.0	0.0	52.9			
LnGrp LOS	D	Α	Α	Α	В	F	С	Α	D			
Approach Vol, veh/h		1967			1871			835				
Approach Delay, s/veh		16.1			30.0			41.4				
Approach LOS		В			С			D				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		64.8			19.0	45.9		25.2				
Change Period (Y+Rc), s		5.8			5.1	5.8		5.8				
Max Green Setting (Gmax), s		57.2			15.9	36.2		21.2				
Max Q Clear Time (g_c+l1), s		15.1			13.4	42.1		18.4				
Green Ext Time (p_c), s		14.2			0.4	0.0		1.0				
Intersection Summary												
HCM 6th Ctrl Delay			26.2									
HCM 6th LOS			С									
Notes												

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑ ↑₽		7	↑ ↑₽			ર્ન	- 1		4	
Traffic Volume (veh/h)	218	1426	298	124	1467	188	249	16	102	110	17	167
Future Volume (veh/h)	218	1426	298	124	1467	188	249	16	102	110	17	167
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	232	1517	317	132	1561	200	265	17	109	117	18	178
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	259	1822	379	156	1708	218	281	14	510	43	20	26
Arrive On Green	0.15	0.43	0.43	0.18	0.75	0.75	0.32	0.32	0.32	0.32	0.32	0.32
Sat Flow, veh/h	1781	4235	881	1781	4583	586	688	44	1585	0	62	81
Grp Volume(v), veh/h	232	1218	616	132	1159	602	282	0	109	313	0	0
Grp Sat Flow(s),veh/h/ln	1781	1702	1712	1781	1702	1765	732	0	1585	143	0	0
Q Serve(g_s), s	14.8	36.8	37.1	8.3	31.5	31.7	0.0	0.0	5.8	0.0	0.0	0.0
Cycle Q Clear(g_c), s	14.8	36.8	37.1	8.3	31.5	31.7	37.3	0.0	5.8	37.3	0.0	0.0
Prop In Lane	1.00		0.51	1.00		0.33	0.94	_	1.00	0.37		0.57
Lane Grp Cap(c), veh/h	259	1465	737	156	1269	658	296	0	510	89	0	0
V/C Ratio(X)	0.90	0.83	0.84	0.84	0.91	0.92	0.95	0.00	0.21	3.53	0.00	0.00
Avail Cap(c_a), veh/h	269	1465	737	164	1269	658	296	0	510	89	0	0
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.87	0.87	0.87	0.50	0.50	0.50	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	48.7	29.3	29.4	47.1	13.3	13.3	42.4	0.0	28.7	39.5	0.0	0.0
Incr Delay (d2), s/veh	25.3	5.0	9.6	16.2	6.4	11.4	39.9	0.0	0.2	1167.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	15.0	16.2	4.0	5.7	6.8	11.5	0.0	2.2	31.3	0.0	0.0
Unsig. Movement Delay, s/veh		040	00.0	(0.0	40.7	047	00.4	0.0	00.0	4007.4	0.0	0.0
LnGrp Delay(d),s/veh	74.0	34.3	39.0	63.3	19.7	24.7	82.4	0.0	28.9	1207.1	0.0	0.0
LnGrp LOS	E	С	D	E	В	С	F	A	С	F	A	A
Approach Vol, veh/h		2066			1893			391			313	
Approach Delay, s/veh		40.1			24.3			67.5			1207.1	
Approach LOS		D			С			E			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	16.3	56.7		43.0	23.0	50.0		43.0				
Change Period (Y+Rc), s	6.1	6.8		* 5.7	6.1	6.8		* 5.7				
Max Green Setting (Gmax), s	10.7	49.4		* 37	17.5	42.6		* 37				
Max Q Clear Time (g_c+I1), s	10.3	39.1		39.3	16.8	33.7		39.3				
Green Ext Time (p_c), s	0.0	9.4		0.0	0.0	8.1		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			114.3									
HCM 6th LOS			F									
			•									

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	^	7	ሻ	^	7	7	₽		ሻ	↑	7
Traffic Volume (veh/h)	154	1293	10	102	1371	47	73	17	56	177	28	373
Future Volume (veh/h)	154	1293	10	102	1371	47	73	17	56	177	28	373
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	164	1376	11	109	1459	50	78	18	60	188	30	397
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	188	1735	774	134	1626	725	310	103	342	371	506	429
Arrive On Green	0.21	0.98	0.98	0.10	0.61	0.61	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	961	379	1264	1321	1870	1585
Grp Volume(v), veh/h	164	1376	11	109	1459	50	78	0	78	188	30	397
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	961	0	1643	1321	1870	1585
Q Serve(g_s), s	10.3	4.7	0.0	7.0	41.1	1.5	7.6	0.0	4.2	14.7	1.4	28.3
Cycle Q Clear(g_c), s	10.3	4.7	0.0	7.0	41.1	1.5	9.0	0.0	4.2	19.0	1.4	28.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00	_	0.77	1.00		1.00
Lane Grp Cap(c), veh/h	188	1735	774	134	1626	725	310	0	444	371	506	429
V/C Ratio(X)	0.87	0.79	0.01	0.82	0.90	0.07	0.25	0.00	0.18	0.51	0.06	0.93
Avail Cap(c_a), veh/h	198	1735	774	155	1626	725	340	0	496	413	564	478
HCM Platoon Ratio	2.00	2.00	2.00	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.49	0.49	0.49	0.68	0.68	0.68	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.0	0.8	0.7	51.4	20.4	12.6	34.7	0.0	32.4	39.7	31.4	41.2
Incr Delay (d2), s/veh	16.7	1.9	0.0	15.5	5.9	0.1	0.4	0.0	0.2	1.1	0.0	22.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	0.9	0.0	3.5	14.0	0.5	1.8	0.0	1.7	4.9	0.6	13.6
Unsig. Movement Delay, s/veh		2.7	0.7	// 0	2/ 2	10.7	25.1	0.0	22 /	40.7	21.4	/ / 1
LnGrp Delay(d),s/veh	61.7	2.7		66.9	26.2	12.7	35.1	0.0	32.6 C	40.7	31.4 C	64.1
LnGrp LOS	<u>E</u>	A 1551	A	<u>E</u>	C 1/10	В	D	A	C	D		E
Approach Vol, veh/h		1551			1618			156			615	
Approach LOS		8.9			28.5			33.9			55.4	
Approach LOS		Α			С			С			Е	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.8	63.4		37.8	18.4	59.9		37.8				
Change Period (Y+Rc), s	6.1	6.8		6.4	6.1	6.8		6.4				
Max Green Setting (Gmax), s	10.1	51.6		35.0	12.9	48.8		35.0				
Max Q Clear Time (g_c+l1), s	9.0	6.7		30.3	12.3	43.1		11.0				
Green Ext Time (p_c), s	0.0	28.6		1.1	0.0	5.1		0.8				
Intersection Summary												
HCM 6th Ctrl Delay			25.2									
HCM 6th LOS			С									

Movement EBU EBT EBR WBL WBT NBL NBR Lane Configurations II III III
Lane Configurations n †
Traffic Volume (veh/h) 0 1003 652 169 1078 459 81 Future Volume (veh/h) 0 1003 652 169 1078 459 81 Initial Q (Qb), veh 0 0 0 0 0 0 Ped-Bike Adj(A_pbT) 1.00 1.00 1.00 1.00
Future Volume (veh/h) 0 1003 652 169 1078 459 81 Initial Q (Qb), veh 0 0 0 0 0 Ped-Bike Adj(A_pbT) 1.00 1.00 1.00 1.00
Initial Q (Qb), veh 0 0 0 0 0 Ped-Bike Adj(A_pbT) 1.00 1.00 1.00 1.00
Ped-Bike Adj(A_pbT) 1.00 1.00 1.00 1.00
Parking Bus, Adj 1.00 1.00 1.00 1.00 1.00 1.00
Work Zone On Approach No No No
Adj Sat Flow, veh/h/ln 1870 1870 1870 1870 1870
Adj Flow Rate, veh/h 1090 638 184 1172 499 88
Peak Hour Factor 0.92 0.92 0.92 0.92 0.92 0.92
Percent Heavy Veh, % 2 2 2 2 2 2
Cap, veh/h 1461 652 211 2070 535 476
Arrive On Green 0.82 0.82 0.12 0.58 0.30 0.30
Sat Flow, veh/h 3647 1585 1781 3647 1781 1585
Grp Volume(v), veh/h 1090 638 184 1172 499 88
Grp Sat Flow(s), veh/h/ln 1777 1585 1781 1777 1781 1585
Q Serve(g_s), s 16.3 42.5 11.8 23.8 31.6 4.8
Cycle Q Clear(g_c), s 16.3 42.5 11.8 23.8 31.6 4.8
Prop In Lane 1.00 1.00 1.00 1.00
Lane Grp Cap(c), veh/h 1461 652 211 2070 535 476
V/C Ratio(X) 0.75 0.98 0.87 0.57 0.93 0.18
Avail Cap(c_a), veh/h 1461 652 246 2070 597 532
HCM Platoon Ratio 2.00 2.00 1.00 1.00 1.00 1.00
Upstream Filter(I) 0.62 0.62 0.67 0.67 1.00 1.00
Uniform Delay (d), s/veh 7.5 9.8 50.2 15.1 39.5 30.1
Incr Delay (d2), s/veh 2.2 23.1 16.1 0.8 21.0 0.2
Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0
%ile BackOfQ(50%),veh/ln 3.2 7.5 6.0 8.9 16.3 1.8
Unsig. Movement Delay, s/veh
LnGrp Delay(d),s/veh 9.7 32.9 66.3 15.8 60.4 30.3
LnGrp LOS A C E B E C
Approach Vol, veh/h 1728 1356 587
Approach Delay, s/veh 18.3 22.7 55.9
Approach LOS B C E
Timer - Assigned Phs 1 2 6
Phs Duration (G+Y+Rc), s 19.9 55.2 75.1 40.
Change Period (Y+Rc), s 6.1 7.5 6.
Max Green Setting (Gmax), s 16.0 41.4 51.4 38.
Max Q Clear Time (g_c+l1), s 13.8 44.5 25.8 33.
Green Ext Time (p_c), s 0.0 0.0 7.1 1.
Intersection Summary
HCM 6th Ctrl Delay 25.9
HCM 6th LOS C
Notes

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	∱ β		ň	∱ β		Ţ	f)		ň	f)	
Traffic Volume (veh/h)	45	784	20	16	1119	24	64	0	8	68	3	111
Future Volume (veh/h)	45	784	20	16	1119	24	64	0	8	68	3	111
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	48	843	22	17	1203	26	69	0	9	73	3	119
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	85	1398	36	37	1310	28	107	0	180	110	5	179
Arrive On Green	0.05	0.40	0.40	0.02	0.37	0.37	0.06	0.00	0.11	0.06	0.12	0.12
Sat Flow, veh/h	1781	3538	92	1781	3557	77	1781	0	1585	1781	39	1552
Grp Volume(v), veh/h	48	423	442	17	601	628	69	0	9	73	0	122
Grp Sat Flow(s),veh/h/ln	1781	1777	1854	1781	1777	1857	1781	0	1585	1781	0	1591
Q Serve(g_s), s	1.4	10.2	10.2	0.5	17.4	17.4	2.0	0.0	0.3	2.2	0.0	4.0
Cycle Q Clear(g_c), s	1.4	10.2	10.2	0.5	17.4	17.4	2.0	0.0	0.3	2.2	0.0	4.0
Prop In Lane	1.00		0.05	1.00		0.04	1.00		1.00	1.00		0.98
Lane Grp Cap(c), veh/h	85	702	732	37	654	684	107	0	180	110	0	184
V/C Ratio(X)	0.57	0.60	0.60	0.46	0.92	0.92	0.65	0.00	0.05	0.66	0.00	0.66
Avail Cap(c_a), veh/h	166	702	732	166	660	690	166	0	560	298	0	680
HCM 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
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	25.1	12.9	12.9	26.0	16.2	16.2	24.7	0.0	21.3	24.7	0.0	22.8
Incr Delay (d2), s/veh	5.8	1.5	1.4	8.5	17.8	17.3	6.5	0.0	0.1	6.7	0.0	4.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	3.3	3.5	0.3	8.6	8.9	1.0	0.0	0.1	1.1	0.0	1.6
Unsig. Movement Delay, s/veh		111	110	0.4.7	0.4.4	00.7	04.0	0.0	01.4	04.4	0.0	0/.0
LnGrp Delay(d),s/veh	30.9	14.4	14.3	34.6	34.1	33.6	31.2	0.0	21.4	31.4	0.0	26.9
LnGrp LOS	С	<u>B</u>	В	С	C	<u>C</u>	С	A	С	С	A	С
Approach Vol, veh/h		913			1246			78			195	
Approach Delay, s/veh		15.2			33.8			30.1			28.6	
Approach LOS		В			С			С			С	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	6.1	28.3	8.2	11.2	7.6	26.8	8.3	11.1				
Change Period (Y+Rc), s	5.0	7.0	5.0	5.0	5.0	7.0	5.0	5.0				
Max Green Setting (Gmax), s	5.0	20.0	5.0	23.0	5.0	20.0	9.0	19.0				
Max Q Clear Time (g_c+I1), s	2.5	12.2	4.0	6.0	3.4	19.4	4.2	2.3				
Green Ext Time (p_c), s	0.0	3.0	0.0	0.6	0.0	0.4	0.1	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			26.3									
HCM 6th LOS			С									

Intersection						
Intersection Delay, s/veh	16.2					
Intersection LOS	C					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ች	†	†	7	¥	02.1
Traffic Vol, veh/h	34	7	9	359	351	77
Future Vol, veh/h	34	7	9	359	351	77
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	37	8	10	390	382	84
Number of Lanes	1	1	10	1	1	0
		'	•	'		0
Approach	EB		WB		SB	
Opposing Approach	WB		EB			
Opposing Lanes	2		2		0	
Conflicting Approach Left	SB				WB	
Conflicting Lanes Left	1		0		2	
Conflicting Approach Right			SB		EB	
Conflicting Lanes Right	0		1		2	
HCM Control Delay	10		14.5		18.2	
HCM LOS	А		В		С	
Lane		EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %		100%	0%	0%	0%	82%
Vol Thru, %		0%	100%	100%	0%	0%
Vol Right, %		0%	0%	0%	100%	18%
Sign Control		Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane		34	7	9	359	428
LT Vol		34	0	0	0	351
Through Vol		0	7	9	0	0
RT Vol			0			
		0	0	0	359	77
Lane Flow Rate						
Lane Flow Rate		37 7	8 7	10 7	359 390 7	465 2
Lane Flow Rate Geometry Grp		37 7	8 7	10	390	465
Lane Flow Rate Geometry Grp Degree of Util (X)		37 7 0.071	8 7 0.014	10 7 0.016	390 7 0.566	465 2 0.671
Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		37 7 0.071 6.939	8 7 0.014 6.428	10 7 0.016 5.934	390 7 0.566 5.223	465 2 0.671 5.19
Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		37 7 0.071 6.939 Yes	8 7 0.014 6.428 Yes	10 7 0.016 5.934 Yes	390 7 0.566 5.223 Yes	465 2 0.671 5.19 Yes
Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		37 7 0.071 6.939 Yes 516	8 7 0.014 6.428 Yes 557	10 7 0.016 5.934 Yes 604	390 7 0.566 5.223 Yes 691	465 2 0.671 5.19 Yes 698
Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		37 7 0.071 6.939 Yes 516 4.682	8 7 0.014 6.428 Yes 557 4.17	10 7 0.016 5.934 Yes 604 3.663	390 7 0.566 5.223 Yes 691 2.952	465 2 0.671 5.19 Yes 698 3.213
Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		37 7 0.071 6.939 Yes 516 4.682 0.072	8 7 0.014 6.428 Yes 557 4.17 0.014	10 7 0.016 5.934 Yes 604 3.663 0.017	390 7 0.566 5.223 Yes 691 2.952 0.564	465 2 0.671 5.19 Yes 698 3.213 0.666
Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		37 7 0.071 6.939 Yes 516 4.682 0.072 10.2	8 7 0.014 6.428 Yes 557 4.17 0.014 9.3	10 7 0.016 5.934 Yes 604 3.663 0.017 8.8	390 7 0.566 5.223 Yes 691 2.952 0.564 14.6	465 2 0.671 5.19 Yes 698 3.213 0.666 18.2
Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		37 7 0.071 6.939 Yes 516 4.682 0.072	8 7 0.014 6.428 Yes 557 4.17 0.014	10 7 0.016 5.934 Yes 604 3.663 0.017	390 7 0.566 5.223 Yes 691 2.952 0.564	465 2 0.671 5.19 Yes 698 3.213 0.666

HCM 6th AWSC

Synchro 10 Report

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		^	7	1,1	^					ሻ	र्स	77
Traffic Volume (veh/h)	0	1157	468	463	1417	0	0	0	0	786	2	480
Future Volume (veh/h)	0	1157	468	463	1417	0	0	0	0	786	2	480
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	1870	1870
Adj Flow Rate, veh/h	0	1258	509	503	1540	0				855	0	522
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92				0.92	0.92	0.92
Percent Heavy Veh, %	0	2	2	2	2	0				2	2	2
Cap, veh/h	0	1896	589	581	3016	0				999	0	889
Arrive On Green	0.00	0.37	0.37	0.06	0.19	0.00				0.28	0.00	0.28
Sat Flow, veh/h	0	5274	1585	3456	5274	0				3563	0	3170
Grp Volume(v), veh/h	0	1258	509	503	1540	0				855	0	522
Grp Sat Flow(s), veh/h/ln	0	1702	1585	1728	1702	0				1781	0	1585
Q Serve(g_s), s	0.0	18.5	26.8	13.0	24.3	0.0				20.4	0.0	12.8
Cycle Q Clear(g_c), s	0.0	18.5	26.8	13.0	24.3	0.0				20.4	0.0	12.8
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1896	589	581	3016	0				999	0	889
V/C Ratio(X)	0.00	0.66	0.86	0.87	0.51	0.00				0.86	0.00	0.59
Avail Cap(c_a), veh/h	0	1896	589	599	3016	0				1100	0	979
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	0.58	0.58	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	23.6	26.2	41.5	24.6	0.0				30.7	0.0	27.9
Incr Delay (d2), s/veh	0.0	1.8	15.6	7.7	0.4	0.0				6.3	0.0	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	7.1	11.7	6.5	10.9	0.0				9.4	0.0	4.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	25.4	41.8	49.2	25.0	0.0				37.0	0.0	28.7
LnGrp LOS	Α	С	D	D	С	Α				D	Α	С
Approach Vol, veh/h		1767			2043						1377	
Approach Delay, s/veh		30.2			30.9						33.8	
Approach LOS		C			C						С	
•	1			4								
Timer - Assigned Phs	10.7	2		•		6						
Phs Duration (G+Y+Rc), s	19.7	39.2		31.0		59.0						
Change Period (Y+Rc), s	4.6	5.8		5.8		5.8						
Max Green Setting (Gmax), s	15.6	30.4		27.8		50.6						
Max Q Clear Time (g_c+l1), s	15.0	28.8		22.4		26.3						
Green Ext Time (p_c), s	0.1	1.3		2.8		11.7						
Intersection Summary												
HCM 6th Ctrl Delay			31.4									
HCM 6th LOS			С									
Notes												

	۶	→	•	•	+	•	1	†	<i>></i>	/	+	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1,1	ተተተ			ተተተ	7	ň	4	7			
Traffic Volume (veh/h)	367	1575	0	0	1204	813	675	2	615	0	0	0
Future Volume (veh/h)	367	1575	0	0	1204	813	675	2	615	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	395	1694	0	0	1295	787	932	0	441			
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	457	2895	0	0	1930	599	1084	0	482			
Arrive On Green	0.13	0.57	0.00	0.00	0.38	0.38	0.30	0.00	0.30			
Sat Flow, veh/h	3456	5274	0	0	5274	1585	3563	0	1585			
Grp Volume(v), veh/h	395	1694	0	0	1295	787	932	0	441			
Grp Sat Flow(s), veh/h/ln	1728	1702	0	0	1702	1585	1781	0	1585			
Q Serve(g_s), s	10.1	19.3	0.0	0.0	19.0	34.0	22.2	0.0	24.1			
Cycle Q Clear(g_c), s	10.1	19.3	0.0	0.0	19.0	34.0	22.2	0.0	24.1			
Prop In Lane	1.00	1710	0.00	0.00		1.00	1.00	0.0	1.00			
Lane Grp Cap(c), veh/h	457	2895	0	0	1930	599	1084	0	482			
V/C Ratio(X)	0.86	0.59	0.00	0.00	0.67	1.31	0.86	0.00	0.91			
Avail Cap(c_a), veh/h	457	2895	0	0	1930	599	1116	0	497			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.59	0.59	0.00	0.00	0.09	0.09	1.00	0.00	1.00			
Uniform Delay (d), s/veh	38.3	12.6	0.0	0.0	23.3	28.0	29.5	0.0	30.2			
Incr Delay (d2), s/veh	10.0	0.5	0.0	0.0	0.2	142.1	6.8	0.0	21.3			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	4.7	6.3	0.0	0.0	6.9	35.2	10.2	0.0	11.7			
Unsig. Movement Delay, s/veh		0.0	0.0	0.0	0.7	00.2	10.2	0.0	1 17			
LnGrp Delay(d),s/veh	48.3	13.1	0.0	0.0	23.5	170.1	36.3	0.0	51.4			
LnGrp LOS	D	В	A	Α	C	F	D	Α	D			
Approach Vol, veh/h		2089			2082	<u>'</u>		1373				
Approach Delay, s/veh		19.8			78.9			41.2				
Approach LOS		17.0 B			70.7 E			41.2 D				
Approach LO3		В			L			D				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		56.8			17.0	39.8		33.2				
Change Period (Y+Rc), s		5.8			5.1	5.8		5.8				
Max Green Setting (Gmax), s		50.2			11.9	33.2		28.2				
Max Q Clear Time (g_c+I1), s		21.3			12.1	36.0		26.1				
Green Ext Time (p_c), s		14.4			0.0	0.0		1.2				
Intersection Summary												
HCM 6th Ctrl Delay			47.3									
HCM 6th LOS			D									
Notes												

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	ተተ			ተተኈ			ર્ન	- 7		4	
Traffic Volume (veh/h)	278	1586	418	108	1500	266	384	24	137	235	11	249
Future Volume (veh/h)	278	1586	418	108	1500	266	384	24	137	235	11	249
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	302	1724	454	117	1630	289	417	26	149	255	12	271
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	195	1172	302	134	1117	197	470	26	756	45	1	1
Arrive On Green	0.11	0.29	0.29	0.02	0.08	0.08	0.48	0.48	0.48	0.48	0.48	0.48
Sat Flow, veh/h	1781	4044	1043	1781	4366	770	861	54	1585	0	2	2
Grp Volume(v), veh/h	302	1446	732	117	1269	650	443	0	149	538	0	0
Grp Sat Flow(s), veh/h/ln	1781	1702	1683	1781	1702	1732	915	0	1585	4	0	0
Q Serve(g_s), s	12.9	34.2	34.2	7.7	30.2	30.2	0.0	0.0	6.4	0.0	0.0	0.0
Cycle Q Clear(g_c), s	12.9	34.2	34.2	7.7	30.2	30.2	56.3	0.0	6.4	56.3	0.0	0.0
Prop In Lane	1.00		0.62	1.00		0.44	0.94		1.00	0.47		0.50
Lane Grp Cap(c), veh/h	195	987	488	134	871	443	496	0	756	47	0	0
V/C Ratio(X)	1.55	1.47	1.50	0.87	1.46	1.47	0.89	0.00	0.20	11.44	0.00	0.00
Avail Cap(c_a), veh/h	195	987	488	134	871	443	496	0	756	47	0	0
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.72	0.72	0.72	0.22	0.22	0.22	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	52.5	41.9	41.9	57.0	54.0	54.0	31.3	0.0	17.8	56.6	0.0	0.0
Incr Delay (d2), s/veh	265.4	213.4	233.5	12.5	206.8	213.0	18.4	0.0	0.1	4741.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	20.0	42.9	45.1	4.0	38.7	40.2	14.8	0.0	2.4	63.3	0.0	0.0
Unsig. Movement Delay, s/veh		055.0	075.4	(0.4	0/00	0/7.0	10 (0.0	47.0	4700.0	0.0	0.0
LnGrp Delay(d),s/veh	317.9	255.3	275.4	69.4	260.8	267.0	49.6	0.0	17.9	4798.3	0.0	0.0
LnGrp LOS	F	F	F	E	F	F	D	A	В	F	A	A
Approach Vol, veh/h		2480			2036			592			538	
Approach Delay, s/veh		268.9			251.8			41.7			4798.3	
Approach LOS		F			F			D			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.0	41.0		62.0	19.0	37.0		62.0				
Change Period (Y+Rc), s	6.1	6.8		* 5.7	6.1	6.8		* 5.7				
Max Green Setting (Gmax), s	8.9	34.2		* 56	12.9	30.2		* 56				
Max Q Clear Time (g_c+I1), s	9.7	36.2		58.3	14.9	32.2		58.3				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			670.5									
HCM 6th LOS			F									

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	^	7	7	^	7	ሻ	4î		7	^	7
Traffic Volume (veh/h)	193	1681	19	125	1596	111	75	44	130	153	34	206
Future Volume (veh/h)	193	1681	19	125	1596	111	75	44	130	153	34	206
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	205	1788	20	133	1698	118	80	47	138	163	36	219
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	180	1796	801	142	1720	767	327	105	309	249	470	399
Arrive On Green	0.03	0.17	0.17	0.11	0.64	0.64	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	1125	419	1230	1199	1870	1585
Grp Volume(v), veh/h	205	1788	20	133	1698	118	80	0	185	163	36	219
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1125	0	1649	1199	1870	1585
Q Serve(g_s), s	11.9	59.3	1.2	8.7	55.1	3.5	6.9	0.0	11.2	15.7	1.7	14.2
Cycle Q Clear(g_c), s	11.9	59.3	1.2	8.7	55.1	3.5	8.6	0.0	11.2	26.8	1.7	14.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.75	1.00		1.00
Lane Grp Cap(c), veh/h	180	1796	801	142	1720	767	327	0	415	249	470	399
V/C Ratio(X)	1.14	1.00	0.02	0.94	0.99	0.15	0.24	0.00	0.45	0.65	0.08	0.55
Avail Cap(c_a), veh/h	180	1796	801	142	1720	767	378	0	489	303	555	470
HCM Platoon Ratio	0.33	0.33	0.33	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.09	0.39	0.39	0.39	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.0	49.0	24.8	52.5	20.7	11.5	37.0	0.0	37.2	48.5	33.7	38.4
Incr Delay (d2), s/veh	70.1	5.5	0.0	31.1	10.9	0.2	0.4	0.0	0.8	3.7	0.1	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.1	29.4	0.4	4.9	18.7	1.2	1.9	0.0	4.6	4.9	0.8	5.6
Unsig. Movement Delay, s/veh		E 4 E	0.1.0	00.7	04.5	44.	07.4	0.0	00.0	F0.0	00.0	00.5
LnGrp Delay(d),s/veh	127.2	54.5	24.8	83.6	31.5	11.6	37.4	0.0	38.0	52.2	33.8	39.5
LnGrp LOS	F	<u>D</u>	С	F	С	В	D	Α	D	D	С	D
Approach Vol, veh/h		2013			1949			265			418	
Approach Delay, s/veh		61.6			33.9			37.8			44.0	
Approach LOS		Е			С			D			D	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.5	66.4		36.1	18.0	63.9		36.1				
Change Period (Y+Rc), s	6.1	6.8		6.4	6.1	6.8		6.4				
Max Green Setting (Gmax), s	9.4	54.3		35.0	11.9	51.8		35.0				
Max Q Clear Time (g_c+I1), s	10.7	61.3		28.8	13.9	57.1		13.2				
Green Ext Time (p_c), s	0.0	0.0		0.9	0.0	0.0		1.4				
Intersection Summary												
HCM 6th Ctrl Delay			47.0									
HCM 6th LOS			D									

Max Q Clear Time (g_c+l1), s 7.9 47.6 34.9 Green Ext Time (p_c), s 0.0 0.0 5.2 Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D			-	•	•	←	4	/	
Lane Configurations Traffic Volume (veh/h) 0 1369 596 84 1183 711 182 Future Volume (veh/h) 0 1369 596 84 1183 711 182 Initial Q (Ob), veh 0 0 0 0 0 0 0 0 Ped-Bike Adj(A_pbT) 1.00 1.00 1.00 1.00 1.00 1.00 Parking Bus, Adj 1.00 1.00 1.00 1.00 1.00 1.00 Adj Sat Flow, veh/h/ln 1870 1870 1870 1870 1870 Adj Flow Rate, veh/h 1456 570 89 1259 756 194 Percrent Heavy Veh, % 2 2 2 2 2 2 2 2 Cap, veh/h 1373 613 95 1747 700 623 Arrive On Green 0.77 0.77 0.05 0.49 0.39 0.39 Sat Flow, veh/h/ln 1456 570 89 1259 756 194 Grp Volume(v), veh/h 3647 1585 1781 3647 1781 1585 Grp Volume(v), veh/h 1456 570 89 1259 756 194 Grp Sat Flow(s), veh/h/ln 1456 570 89 1259 756 194 Grp Calleme(v), veh/h 3647 1585 1781 3647 1781 1585 Grp Volume(v), veh/h 1456 570 89 1259 756 194 Grp Calleme(v), veh/h 1373 613 95 1747 700 623 Arrive On Green 0.77 0.77 0.05 0.49 0.39 0.39 Sat Flow(s), veh/h/ln 1456 570 89 1259 756 194 Grp Calleme(v), veh/h 1456 570 89 1259 756 194 Grp Calleme(v), veh/h 1373 613 5.9 32.9 46.4 10.0 Cycle Q Clear(g_c), s 45.6 34.3 5.9 32.9 46.4 10.0 Cycle Q Clear(g_c), s 45.6 34.3 5.9 32.9 46.4 10.0 Tyrop In Lane 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 1373 613 95 1747 700 623 HC Ratio(X) 1.06 0.93 0.94 0.72 1.08 0.31 Avail Cap(c_a), veh/h 1373 613 95 1747 700 623 HCM Platoon Ratio 2.00 2.00 1.00 1.00 1.00 1.00 Upstream Filter(l) 0.20 0.20 0.79 0.79 1.00 1.00 Upstream Filter(l) 0.20 0.20 0.79 0.79 1.00 1.00 Uniform Delay (d), siveh 13.4 12.1 55.6 23.6 35.8 24.8 1ncr Delay (d2), siveh 37.2 31.7 79.3 Approach Vol, veh/h 2026 1348 950 Approach Delay, siveh 37.2 31.7 79.3 Approach Delay, siveh 37.2 31.7 79.3 Approach Delay (d), siveh 37.2 31.7 79.3 Approach LOS D C E E I	Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	
Traffic Volume (veh/h)									
Future Volume (veh/h) 0 1369 596 84 1183 711 182 Initial Q (Db), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
Initial Q (Qb), veh	, ,								
Ped-Bike Adji(A_pbT)		· ·							
Parking Bus, Adj Work Zone On Approach No Work Zone On Approach No Adj Sat Flow, veh/h/ln Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h Peak Hour Factor O.94 O.94 Percent Heavy Veh, % Peak Hour Factor O.94 O.94 Percent Heavy Veh, % Original Flow, veh/h Original Flow, veh/h Peak Hour Factor O.94 O.94 O.94 O.94 O.94 O.94 O.94 O.94			U			0			
Work Zone On Approach No No No Adj Sat Flow, weh/n/In 1870 194 0.93 0.34 1781			1 00			1 00			
Adj Sat Flow, veh/h/n 1870 1940 <t< td=""><td></td><td></td><td></td><td>1.00</td><td>1.00</td><td></td><td></td><td>1.00</td><td></td></t<>				1.00	1.00			1.00	
Adj Flow Rate, veh/h Peak Hour Factor O.94 O.94 O.94 O.94 O.94 O.94 O.94 O.94				1870	1870			1870	
Peak Hour Factor 0.94 0.94 0.94 0.94 0.94 0.94 0.94 0.94 0.94 Percent Heavy Veh, % 2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Percent Heavy Veh, %									
Cap, veh/h Arrive On Green O.77 O.77 O.05 O.49 O.39 O.39 Sat Flow, veh/h 3647 1585 T781 3647 1781 1585 Grp Volume(v), veh/h 1456 Fro O Serve(g_s), s 45.6 O Serve(g_s), s 46.4 O									
Arrive On Green 0.77 0.77 0.05 0.49 0.39 0.39 Sat Flow, veh/h 3647 1585 1781 3647 1781 1585 Grp Volume(v), veh/h 1456 570 89 1259 756 194 Grp Sat Flow(s), veh/h/ln 1777 1585 1781 1777 1781 1585 O Serve(g_s), s 45.6 34.3 5.9 32.9 46.4 10.0 Cycle O Clear(g_c), s 45.6 34.3 5.9 32.9 46.4 10.0 Prop In Lane 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 1373 613 95 1747 700 623 V/C Ratio(X) 1.06 0.93 0.94 0.72 1.08 0.31 Avail Cap(c_a), veh/h 1373 613 95 1747 700 623 HCM Platoon Ratio 2.00 2.00 1.00 1.00 1.00 1.00 Upstream Filter(l) 0.20 0.20 0.79 0.79 1.00 1.00 Uniform Delay (d), s/veh 13.4 12.1 55.6 23.6 35.8 24.8 Incr Delay (d2), s/veh 31.1 6.5 61.5 2.1 57.4 0.3 Initial O Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.									
Sat Flow, veh/h 3647 1585 1781 3647 1781 1585 Grp Volume(v), veh/h 1456 570 89 1259 756 194 Grp Sat Flow(s), veh/h/In 1777 1585 1781 1777 1781 1585 Q Serve(g_S), s 45.6 34.3 5.9 32.9 46.4 10.0 Cycle Q Clear(g_c), s 45.6 34.3 5.9 32.9 46.4 10.0 Prop In Lane 1.00 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 1373 613 95 1747 700 623 V/C Ratio(X) 1.06 0.93 0.94 0.72 1.08 0.31 Avail Cap(c_a), veh/h 1373 613 95 1747 700 623 HCM Platoon Ratio 2.00 2.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 0.20 2.00 0.79 0.79 1.00 1.00									
Grp Volume(v), veh/h 1456 570 89 1259 756 194 Grp Sat Flow(s), veh/h/ln 1777 1585 1781 1777 1781 1585 Q Serve(g_s), s 45.6 34.3 5.9 32.9 46.4 10.0 Cycle Q Clear(g_c), s 45.6 34.3 5.9 32.9 46.4 10.0 Prop In Lane 1.00 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 1373 613 95 1747 700 623 V/C Ratio(X) 1.06 0.93 0.94 0.72 1.08 0.31 Avail Cap(c_a), veh/h 1373 613 95 1747 700 623 HCM Platoon Ratio 2.00 2.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 0.20 0.20 0.79 0.79 1.00 1.00 Uniform Delay (d), s/veh 13.4 12.1 55.6 23.6 35.8 24.8 <									
Grp Sat Flow(s), veh/h/ln 1777 1585 1781 1777 1781 1585 Q Serve(g_s), s 45.6 34.3 5.9 32.9 46.4 10.0 Cycle Q Clear(g_c), s 45.6 34.3 5.9 32.9 46.4 10.0 Prop In Lane 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 1373 613 95 1747 700 623 V/C Ratio(X) 1.06 0.93 0.94 0.72 1.08 0.31 Avail Cap(c_a), veh/h 1373 613 95 1747 700 623 HCM Platoon Ratio 2.00 2.00 1.00 1.00 1.00 1.00 Upstream Filter(f) 0.20 0.20 0.79 0.79 1.00 1.00 Uniform Delay (d), s/veh 13.4 12.1 55.6 23.6 35.8 24.8 Incr Delay (d2), s/veh 31.1 6.5 61.5 2.1 57.4 0.3									
Q Serve(g_s), s									
Cycle Q Člear(g_c), s 45.6 34.3 5.9 32.9 46.4 10.0 Prop In Lane 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 1373 613 95 1747 700 623 V/C Ratio(X) 1.06 0.93 0.94 0.72 1.08 0.31 Avail Cap(c_a), veh/h 1373 613 95 1747 700 623 HCM Platoon Ratio 2.00 2.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 0.20 0.20 0.79 0.79 1.00 1.00 Uniform Delay (d), s/veh 13.4 12.1 55.6 23.6 35.8 24.8 Incr Delay (d2), s/veh 31.1 6.5 61.5 2.1 57.4 0.3 Initial Q Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Wile BackOfQ(50%), veh/ln 10.8 5.1 4.2 13.3 30.0 3.7 Unsig. Movement Delay, s/veh 44.5 18.6 117.1 25.7									
Prop In Lane									
Lane Grp Cap(c), veh/h 1373 613 95 1747 700 623 V/C Ratio(X) 1.06 0.93 0.94 0.72 1.08 0.31 Avail Cap(c_a), veh/h 1373 613 95 1747 700 623 HCM Platoon Ratio 2.00 2.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 0.20 0.20 0.79 0.79 1.00 1.00 Uniform Delay (d), s/veh 13.4 12.1 55.6 23.6 35.8 24.8 Incr Delay (d2), s/veh 31.1 6.5 61.5 2.1 57.4 0.3 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/ln 10.8 5.1 4.2 13.3 30.0 3.7 Unsig. Movement Delay, s/veh LnGrp Delay(d), s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp LOS F B F C F C Approach Vol, veh/h 2026 1348 950 Approach Delay, s/veh 37.2 31.7 79.3 Approach LOS D C E Timer - Assigned Phs 1 2 6 Phs Duration (G+Y+Rc), s 12.4 53.1 65.5 5 Change Period (Y+Rc), s 6.1 7.5 7.5 Max Green Setting (Gmax), s 6.3 45.6 Max Q Clear Time (g_c+I1), s 7.9 47.6 Green Ext Time (g_c, s) 0.0 0.0 0.0 India 95 1747 700 623 Intersection Summary HCM 6th Ctrl Delay			45.0			JZ. 7			
V/C Ratio(X) 1.06 0.93 0.94 0.72 1.08 0.31 Avail Cap(c_a), veh/h 1373 613 95 1747 700 623 HCM Platoon Ratio 2.00 2.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 0.20 0.20 0.79 0.79 1.00 1.00 Uniform Delay (d), s/veh 13.4 12.1 55.6 23.6 35.8 24.8 Incr Delay (d2), s/veh 31.1 6.5 61.5 2.1 57.4 0.3 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/ln 10.8 5.1 4.2 13.3 30.0 3.7 Unsig. Movement Delay, s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp Delay(d),s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp LOS F B F C F C Approach Vol, veh/h 2026 134.8 950			1373			17/17			
Avail Cap(c_a), veh/h HCM Platoon Ratio Avail Cap(c_a), veh/h Platoon Ratio 2.00 2.00 1.00 1.00 1.00 1.00 1.00 1.0									
HCM Platoon Ratio 2.00 2.00 1.00 0.	, ,								
Upstream Filter(I) 0.20 0.20 0.79 0.79 1.00 1.00 Uniform Delay (d), s/veh 13.4 12.1 55.6 23.6 35.8 24.8 Incr Delay (d2), s/veh 31.1 6.5 61.5 2.1 57.4 0.3 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/ln 10.8 5.1 4.2 13.3 30.0 3.7 Unsig. Movement Delay, s/veh 10.8 5.1 4.2 13.3 30.0 3.7 Unsig. Movement Delay, s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp Delay(d),s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp Delay(d),s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp Delay(d),s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp LoS F B F C F									
Uniform Delay (d), s/veh									
Incr Delay (d2), s/veh 31.1 6.5 61.5 2.1 57.4 0.3 Initial Q Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%), veh/ln 10.8 5.1 4.2 13.3 30.0 3.7 Unsig. Movement Delay, s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp Delay(d), s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp LOS F B F C F C Approach Vol, veh/h 2026 1348 950 Approach Delay, s/veh 37.2 31.7 79.3 Approach LOS D C E Timer - Assigned Phs 1 2 6 Phs Duration (G+Y+Rc), s 12.4 53.1 65.5 5 Change Period (Y+Rc), s 6.1 7.5 7.5 Max Q Clear Time (g_c+I1), s 7.9 47.6 34.9 4 Green Ext Time (p_c), s									
Initial Q Delay(d3),s/veh 0.0 3.7 Unsign Movement Delay, s/veh 3.7 1.2 1.									
%ile BackOfQ(50%),veh/In 10.8 5.1 4.2 13.3 30.0 3.7 Unsig. Movement Delay, s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp LOS F B F C F C Approach Vol, veh/h 2026 1348 950 Approach Delay, s/veh 37.2 31.7 79.3 Approach LOS D C E Timer - Assigned Phs 1 2 6 Phs Duration (G+Y+Rc), s 12.4 53.1 65.5 52 Change Period (Y+Rc), s 6.1 7.5 7.5 6 Max Green Setting (Gmax), s 6.3 45.6 45.9 46 Max Q Clear Time (g_c+l1), s 7.9 47.6 34.9 48 Green Ext Time (p_c), s 0.0 0.0 5.2 0 Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D D 0									
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh LnGrp Delay(d),s/veh LnGrp LOS F B F C F C Approach Vol, veh/h Approach Delay, s/veh Approach LOS D C E Timer - Assigned Phs 1 2 6 Phs Duration (G+Y+Rc), s 12.4 53.1 Change Period (Y+Rc), s 6.1 7.5 Amax Green Setting (Gmax), s 6.3 45.6 Max Q Clear Time (g_c+I1), s 7.9 47.6 Green Ext Time (p_c), s 0.0 0.0 Intersection Summary HCM 6th LOS D 44.8 HCM 6th LOS D 44.5 18.6 117.1 25.7 93.2 25.1 C F C F C C F C C F C Approach Vol, veh/h 2026 1348 950 A31.7 79.3 Approach LOS D C E 44.8 44.8 44.8 44.8 HCM 6th LOS D									
LnGrp Delay(d),s/veh 44.5 18.6 117.1 25.7 93.2 25.1 LnGrp LOS F B F C F C Approach Vol, veh/h 2026 1348 950 Approach Delay, s/veh 37.2 31.7 79.3 Approach LOS D C E Timer - Assigned Phs 1 2 6 Phs Duration (G+Y+Rc), s 12.4 53.1 65.5 52 Change Period (Y+Rc), s 6.1 7.5 7.5 6 Max Green Setting (Gmax), s 6.3 45.6 45.9 46 Max Q Clear Time (g_c+I1), s 7.9 47.6 34.9 48 Green Ext Time (p_c), s 0.0 0.0 5.2 0 Intersection Summary 44.8 HCM 6th LOS D D			10.0	J. I	7.2	10.0	30.0	5.7	
LnGrp LOS F B F C F C Approach Vol, veh/h 2026 1348 950 Approach Delay, s/veh 37.2 31.7 79.3 Approach LOS D C E Timer - Assigned Phs 1 2 6 Phs Duration (G+Y+Rc), s 12.4 53.1 65.5 52. Change Period (Y+Rc), s 6.1 7.5 7.5 6. Max Green Setting (Gmax), s 6.3 45.6 45.9 46. Max Q Clear Time (g_c+l1), s 7.9 47.6 34.9 48. Green Ext Time (p_c), s 0.0 0.0 5.2 0. Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D D			115	18 6	117 1	25.7	03.2	25.1	
Approach Vol, veh/h 2026 1348 950 Approach Delay, s/veh 37.2 31.7 79.3 Approach LOS D C E Timer - Assigned Phs 1 2 6 Phs Duration (G+Y+Rc), s 12.4 53.1 65.5 52.5 Change Period (Y+Rc), s 6.1 7.5 7.5 6.5 Max Green Setting (Gmax), s 6.3 45.6 45.9 46.5 Max Q Clear Time (g_c+l1), s 7.9 47.6 34.9 48.6 Green Ext Time (p_c), s 0.0 0.0 5.2 0.0 Intersection Summary 44.8 HCM 6th LOS D D 44.8	1 3 . ,								
Approach Delay, s/veh 37.2 31.7 79.3 Approach LOS D C E Timer - Assigned Phs 1 2 6 Phs Duration (G+Y+Rc), s 12.4 53.1 65.5 52.6 Change Period (Y+Rc), s 6.1 7.5 7.5 6.7 Max Green Setting (Gmax), s 6.3 45.6 45.9 46.6 Max Q Clear Time (g_c+l1), s 7.9 47.6 34.9 48.6 Green Ext Time (p_c), s 0.0 0.0 5.2 0.0 Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D				D	<u>'</u>			<u> </u>	
Approach LOS D C E Timer - Assigned Phs 1 2 6 Phs Duration (G+Y+Rc), s 12.4 53.1 65.5 52. Change Period (Y+Rc), s 6.1 7.5 7.5 6. Max Green Setting (Gmax), s 6.3 45.6 45.9 46. Max Q Clear Time (g_c+I1), s 7.9 47.6 34.9 48. Green Ext Time (p_c), s 0.0 0.0 5.2 0.0 Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D									
Timer - Assigned Phs 1 2 6 8 Phs Duration (G+Y+Rc), s 12.4 53.1 65.5 52.5 Change Period (Y+Rc), s 6.1 7.5 7.5 6.7 Max Green Setting (Gmax), s 6.3 45.6 45.9 46.4 Max Q Clear Time (g_c+I1), s 7.9 47.6 34.9 48.4 Green Ext Time (p_c), s 0.0 0.0 5.2 0.0 Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D									
Phs Duration (G+Y+Rc), s 12.4 53.1 65.5 52.5 Change Period (Y+Rc), s 6.1 7.5 7.5 6.1 Max Green Setting (Gmax), s 6.3 45.6 45.9 46.4 Max Q Clear Time (g_c+l1), s 7.9 47.6 34.9 48.4 Green Ext Time (p_c), s 0.0 0.0 5.2 0.0 Intersection Summary 44.8 HCM 6th LOS D	Approacti LOS		U			C	E		
Change Period (Y+Rc), s 6.1 7.5 6.6 Max Green Setting (Gmax), s 6.3 45.6 45.9 46.4 Max Q Clear Time (g_c+I1), s 7.9 47.6 34.9 48.4 Green Ext Time (p_c), s 0.0 0.0 5.2 0.0 Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D D	Timer - Assigned Phs	1	2				6		8
Max Green Setting (Gmax), s 6.3 45.6 45.9 46. Max Q Clear Time (g_c+l1), s 7.9 47.6 34.9 48. Green Ext Time (p_c), s 0.0 0.0 5.2 0.0 Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D D	Phs Duration (G+Y+Rc), s	12.4	53.1				65.5		52.
Max Q Clear Time (g_c+l1), s 7.9 47.6 34.9 48. Green Ext Time (p_c), s 0.0 0.0 5.2 0. Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D		6.1	7.5				7.5		6.
Green Ext Time (p_c), s 0.0 0.0 5.2 0.0 Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D	Max Green Setting (Gmax), s	6.3	45.6				45.9		46.
Intersection Summary HCM 6th Ctrl Delay 44.8 HCM 6th LOS D	Max Q Clear Time (g_c+l1), s	7.9	47.6				34.9		48.
HCM 6th Ctrl Delay 44.8 HCM 6th LOS D	Green Ext Time (p_c), s	0.0	0.0				5.2		0.0
HCM 6th Ctrl Delay 44.8 HCM 6th LOS D	Intersection Summary								
HCM 6th LOS D				44.8					
	Notes								

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	∱ β		ሻ	∱ β		7	₽		ሻ	ĵ∍	
Traffic Volume (veh/h)	84	1227	32	42	1015	42	29	2	7	50	1	69
Future Volume (veh/h)	84	1227	32	42	1015	42	29	2	7	50	1	69
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	86	1252	33	43	1036	43	30	2	7	51	1	70
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	122	1364	36	79	1257	52	60	34	118	90	2	170
Arrive On Green	0.07	0.39	0.39	0.04	0.36	0.36	0.03	0.09	0.09	0.05	0.11	0.11
Sat Flow, veh/h	1781	3537	93	1781	3477	144	1781	365	1276	1781	22	1566
Grp Volume(v), veh/h	86	629	656	43	529	550	30	0	9	51	0	71
Grp Sat Flow(s),veh/h/ln	1781	1777	1854	1781	1777	1844	1781	0	1641	1781	0	1588
Q Serve(g_s), s	2.4	17.3	17.3	1.2	14.0	14.0	0.9	0.0	0.3	1.4	0.0	2.1
Cycle Q Clear(g_c), s	2.4	17.3	17.3	1.2	14.0	14.0	0.9	0.0	0.3	1.4	0.0	2.1
Prop In Lane	1.00		0.05	1.00		0.08	1.00		0.78	1.00		0.99
Lane Grp Cap(c), veh/h	122	685	715	79	642	667	60	0	152	90	0	173
V/C Ratio(X)	0.70	0.92	0.92	0.54	0.82	0.82	0.50	0.00	0.06	0.57	0.00	0.41
Avail Cap(c_a), veh/h	173	690	720	173	690	716	173	0	669	242	0	709
HCM 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
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	23.5	15.0	15.1	24.1	15.0	15.0	24.4	0.0	21.3	23.9	0.0	21.4
Incr Delay (d2), s/veh	2.7	17.3	16.9	2.1	7.8	7.6	2.3	0.0	0.1	2.1	0.0	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	8.4	8.7	0.5	5.6	5.8	0.4	0.0	0.1	0.6	0.0	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.2	32.4	31.9	26.2	22.8	22.5	26.8	0.0	21.5	26.0	0.0	22.6
LnGrp LOS	С	С	С	С	С	С	С	A	С	С	А	<u>C</u>
Approach Vol, veh/h		1371			1122			39			122	
Approach Delay, s/veh		31.8			22.8			25.6			24.0	
Approach LOS		С			С			С			С	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	7.3	26.9	6.7	10.6	8.5	25.6	7.6	9.8				
Change Period (Y+Rc), s	5.0	7.0	5.0	5.0	5.0	7.0	5.0	5.0				
Max Green Setting (Gmax), s	5.0	20.0	5.0	23.0	5.0	20.0	7.0	21.0				
Max Q Clear Time (g_c+I1), s	3.2	19.3	2.9	4.1	4.4	16.0	3.4	2.3				
Green Ext Time (p_c), s	0.0	0.5	0.0	0.2	0.0	2.5	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			27.5									
HCM 6th LOS			С									

-						
Intersection						
Intersection Delay, s/veh	25.8					
Intersection LOS	23.6 D					
Intersection LOS	U					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7			7	W	
Traffic Vol, veh/h	55	5	3	442	468	15
Future Vol, veh/h	55	5	3	442	468	15
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	60	5	3	480	509	16
Number of Lanes	1	1	1	1	1	0
Approach	EB		WB		SB	
Opposing Approach	WB		EB		30	
	WB 2				0	
Opposing Lanes			2		0 WB	
Conflicting Approach Left	SB		0			
Conflicting Lanes Left	1		0		2	
Conflicting Approach Right	0		SB		EB	
Conflicting Lanes Right	11.2		1		20.2	
HCM Control Delay HCM LOS	11.2		22.8		30.3 D	
HUM LUS	В		С			
110111 200						
110IN 200						
Lane		EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
		EBLn1 100%		WBLn1		SBLn1 97%
Lane			EBLn2		WBLn2	97% 0%
Lane Vol Left, %		100%	EBLn2 0%	0%	WBLn2 0%	97%
Lane Vol Left, % Vol Thru, %		100% 0%	EBLn2 0% 100%	0% 100%	WBLn2 0% 0%	97% 0%
Lane Vol Left, % Vol Thru, % Vol Right, %		100% 0% 0%	EBLn2 0% 100% 0%	0% 100% 0%	WBLn2 0% 0% 100%	97% 0% 3%
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control		100% 0% 0% Stop	EBLn2 0% 100% 0% Stop	0% 100% 0% Stop	WBLn2 0% 0% 100% Stop	97% 0% 3% Stop
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		100% 0% 0% Stop 55	EBLn2 0% 100% 0% Stop 5	0% 100% 0% Stop 3	WBLn2 0% 0% 100% Stop 442	97% 0% 3% Stop 483
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		100% 0% 0% Stop 55 55	EBLn2 0% 100% 0% Stop 5 0	0% 100% 0% Stop 3 0	WBLn2 0% 0% 100% Stop 442 0	97% 0% 3% Stop 483 468
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		100% 0% 0% Stop 55 55 0	EBLn2 0% 100% 0% Stop 5 0 5	0% 100% 0% Stop 3 0	WBLn2 0% 0% 100% Stop 442 0 0 442	97% 0% 3% Stop 483 468 0
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		100% 0% 0% Stop 55 55	EBLn2 0% 100% 0% Stop 5 0 5	0% 100% 0% Stop 3 0	WBLn2 0% 0% 100% Stop 442 0 0	97% 0% 3% Stop 483 468 0 15
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		100% 0% 0% Stop 55 55 0	EBLn2 0% 100% 0% Stop 5 0 5 0 5 5	0% 100% 0% Stop 3 0 3	WBLn2 0% 0% 100% Stop 442 0 0 442 480	97% 0% 3% Stop 483 468 0 15 525
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		100% 0% 0% Stop 55 55 0 0 60 7	EBLn2 0% 100% 0% Stop 5 0 5 7 0.011	0% 100% 0% Stop 3 0 3 7	WBLn2 0% 0% 100% Stop 442 0 0 442 480 7 0.744	97% 0% 3% Stop 483 468 0 15 525 2
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		100% 0% 0% Stop 55 55 0 0 60 7 0.124 7.473	EBLn2 0% 100% 0% Stop 5 0 5 7 0.011 6.959	0% 100% 0% Stop 3 0 3 0 3 7 0.006 6.286	WBLn2 0% 100% Stop 442 0 442 480 7 0.744 5.572	97% 0% 3% Stop 483 468 0 15 525 2 0.828 5.678
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		100% 0% 0% Stop 55 55 0 0 60 7 0.124 7.473 Yes	EBLn2 0% 100% 0% Stop 5 0 5 7 0.011 6.959 Yes	0% 100% 0% Stop 3 0 3 7 0.006 6.286 Yes	WBLn2 0% 100% Stop 442 0 442 480 7 0.744 5.572 Yes	97% 0% 3% Stop 483 468 0 15 525 2 0.828 5.678 Yes
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		100% 0% 0% Stop 55 55 0 0 60 7 0.124 7.473 Yes 477	EBLn2 0% 100% 0% Stop 5 0 5 7 0.011 6.959 Yes 511	0% 100% 0% Stop 3 0 3 7 0.006 6.286 Yes 568	WBLn2 0% 100% Stop 442 0 442 480 7 0.744 5.572 Yes 649	97% 0% 3% Stop 483 468 0 15 525 2 0.828 5.678 Yes 635
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		100% 0% 0% Stop 55 55 0 0 60 7 0.124 7.473 Yes 477 5.262	EBLn2 0% 100% 0% Stop 5 0 5 7 0.011 6.959 Yes 511 4.747	0% 100% 0% Stop 3 0 3 7 0.006 6.286 Yes 568 4.044	WBLn2 0% 0% 100% Stop 442 0 0 442 480 7 0.744 5.572 Yes 649 3.33	97% 0% 3% Stop 483 468 0 15 525 2 0.828 5.678 Yes 635 3.725
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		100% 0% 0% Stop 55 55 0 0 60 7 0.124 7.473 Yes 477 5.262 0.126	EBLn2 0% 100% 0% Stop 5 0 5 7 0.011 6.959 Yes 511 4.747 0.01	0% 100% 0% Stop 3 0 3 7 0.006 6.286 Yes 568 4.044 0.005	WBLn2 0% 0% 100% Stop 442 0 0 442 480 7 0.744 5.572 Yes 649 3.33 0.74	97% 0% 3% Stop 483 468 0 15 525 2 0.828 5.678 Yes 635 3.725 0.827
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		100% 0% 0% Stop 55 55 0 0 60 7 0.124 7.473 Yes 477 5.262 0.126 11.3	EBLn2 0% 100% 0% Stop 5 0 5 7 0.011 6.959 Yes 511 4.747 0.01 9.8	0% 100% 0% Stop 3 0 3 7 0.006 6.286 Yes 568 4.044 0.005 9.1	WBLn2 0% 0% 100% Stop 442 0 0 442 480 7 0.744 5.572 Yes 649 3.33 0.74 22.9	97% 0% 3% Stop 483 468 0 15 525 2 0.828 5.678 Yes 635 3.725 0.827 30.3
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		100% 0% 0% Stop 55 55 0 0 60 7 0.124 7.473 Yes 477 5.262 0.126	EBLn2 0% 100% 0% Stop 5 0 5 7 0.011 6.959 Yes 511 4.747 0.01	0% 100% 0% Stop 3 0 3 7 0.006 6.286 Yes 568 4.044 0.005	WBLn2 0% 0% 100% Stop 442 0 0 442 480 7 0.744 5.572 Yes 649 3.33 0.74	97% 0% 3% Stop 483 468 0 15 525 2 0.828 5.678 Yes 635 3.725 0.827

HCM 6th AWSC

Synchro 10 Report

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APPENDIX	ΚĿ
SITE ACCESS INTERSECTION ANALYSIS WORKSHE	ETS
LINSCOTT, LAW & GREENSPAN, engineers LLG Ref. 3-19- Inland Valley Medical Center Expa	-3093

Intersection												
Int Delay, s/veh	2.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	ĵ.		ሻ	†	7
Traffic Vol, veh/h	57	1	7	2	0	11	17	239	2	55	418	147
Future Vol, veh/h	57	1	7	2	0	11	17	239	2	55	418	147
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	- -	-	None	-	-	None	-	-	None	-	-	None
Storage Length	_	_	-	_	_	-	100	_	-	100	_	100
Veh in Median Storage	. # -	0	_	_	1	_	-	0	_	-	0	-
Grade, %	-	0	_	_	0	_	_	0	_	_	0	
Peak Hour Factor	86	86	86	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	66	1	8	2	0	13	20	278	2	64	486	171
IVIVIIIL I IOVV						13	20	270		- 04	700	171
Major/Mina-	Minera			Minera			Mole-1			Anican		
	Minor2	001		Minor1	440 (Major1			Major2		
Conflicting Flow All	940	934	486	1023	1104	279	657	0	0	280	0	0
Stage 1	614	614	-	319	319	-	-	-	-	-	-	-
Stage 2	326	320	-	704	785	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018		3.518	4.018	3.318		-	-	2.218	-	-
Pot Cap-1 Maneuver	244	266	581	214	211	760	931	-	-	1283	-	-
Stage 1	479	483	-	693	653	-	-	-	-	-	-	-
Stage 2	687	652	-	428	404	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	227	247	581	199	196	760	931	-	-	1283	-	-
Mov Cap-2 Maneuver	227	247	-	302	290	-	-	-	-	-	-	-
Stage 1	469	459	-	678	639	-	-	-	-	-	-	-
Stage 2	661	638	-	400	384	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	26.4			11			0.6			0.7		
HCM LOS	D			В								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1V	VBL n1	SBL	SBT	SBR			
Capacity (veh/h)		931			243	616	1283					
HCM Lane V/C Ratio		0.021	-	-	0.311		0.05	-	-			
HCM Control Delay (s)		9	_	-	26.4	11	8	-	-			
HCM Lane LOS		A	-		20.4 D	В	A	-	-			
HCM 95th %tile Q(veh	١	0.1	-	-	1.3	0.1	0.2	-	-			
HOW FOUT TOUTE Q(VEH))	0.1	-	-	1.3	0.1	0.2	-	-			

HCM 6th TWSC

Synchro 10 Report

Intersection												
Int Delay, s/veh	6.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	ĵ.		*	1	7
Traffic Vol., veh/h	156	1	15	2	0	40	6	417	1	14	281	65
Future Vol, veh/h	156	1	15	2	0	40	6	417	1	14	281	65
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	100	-	100
Veh in Median Storage	2,# -	0	-	-	1	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	163	1	16	2	0	42	6	434	1	15	293	68
Major/Minor I	Minor2		1	Minor1			Major1		1	Major2		
Conflicting Flow All	791	770	293	813	838	435	361	0	0	435	0	0
Stage 1	323	323	-	447	447	-	-	-	-	-	-	-
Stage 2	468	447	-	366	391	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318		4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	307	331	746	297	302	621	1198	-	-	1125	-	-
Stage 1	689	650	-	591	573	-	-	-	-	-	-	-
Stage 2	575	573	-	653	607	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	282	325	746	286	297	621	1198	-	-	1125	-	-
Mov Cap-2 Maneuver	282	325	-	407	401	-	-	-	-	-	-	-
Stage 1	686	642	-	588	570	-	-	-	-	-	-	-
Stage 2	534	570	-	630	599	-	-	-	-	-	-	-
-												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	33.7			11.4			0.1			0.3		
HCM LOS	D			В								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1198	-	-	298	606	1125	-	-			
HCM Lane V/C Ratio		0.005	-	-	0.601	0.072	0.013	-	-			
HCM Control Delay (s)		8	-	-	33.7	11.4	8.2	-	-			
HCM Lane LOS		Α	-	-	D	В	Α	-	-			
HCM 95th %tile Q(veh))	0	-	-	3.6	0.2	0	-	-			

HCM 6th TWSC

Synchro 10 Report

Intersection												
Int Delay, s/veh	3.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
	LDL		LDK	WDL		WDK	NDL		NDK	JDL		JDK 7
Lane Configurations Traffic Vol, veh/h	61	↔ 1	8	2	4 0	12	1 9	7→ 376	2	1 62	↑ 524	157
Future Vol, veh/h	61	1	8	2	0	12	19	376	2	62	524	157
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	02	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	Siup -	Siup	None	310p	310p	None	-	-	None	-	-	None
Storage Length	_	_	None	_	_	-	100	_	TVOTIC	100	_	100
Veh in Median Storage		0	_	_	1	_	100	0	_	-	0	-
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	66	1	9	2	0	13	21	409	2	67	570	171
		-						,		0,	3,3	
Major/Minor	Minor2			Minor1			Major1		1	Major2		
Conflicting Flow All	1163	1157	570	1247	1327	410	741	0	0	411	0	0
Stage 1	704	704	370	452	452	410	/41	U	U	411	U	U
Stage 2	459	453	-	795	875						-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	_		4.12		
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-		_	_	-	_	_
Critical Hdwy Stg 2	6.12	5.52	_	6.12	5.52	_	-	-	_	-	_	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	_	2.218	-	-
Pot Cap-1 Maneuver	172	196	521	150	155	642	866	-	-	1148	-	-
Stage 1	428	440		587	570	-	-	_	_	-	-	_
Stage 2	582	570	-	381	367	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	158	180	521	138	142	642	866	-	-	1148	-	-
Mov Cap-2 Maneuver	158	180	-	248	245	-	-	-	-	-	-	-
Stage 1	418	414	-	573	556	-	-	-	-	-	-	-
Stage 2	556	556	-	352	346	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	41.6			12.1			0.4			0.7		
HCM LOS	E			В								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1\	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		866	-	-	470	523	1148	-	-			
HCM Lane V/C Ratio		0.024	-	-	0.442		0.059	-	-			
HCM Control Delay (s)		9.3	-			12.1	8.3	-	-			
HCM Lane LOS		Α	-	-	E	В	Α	-	-			
HCM 95th %tile Q(veh)	0.1	-	-	2	0.1	0.2	-	-			

HCM 6th TWSC

NJ 2003 Valley of Valley A natural Surperson Synchro 10 Report

Intersection													
Int Delay, s/veh	27.4												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		ች	î,			↑	7	
Traffic Vol, veh/h	166	1	16	2	0	45	7	608	1	16	467	70	
Future Vol, veh/h	166	1	16	2	0	45	7	608	1	16	467	70	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	100	-	-	100	-	100	
Veh in Median Storage	2,# -	0	-	-	1	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	173	1	17	2	0	47	7	633	1	17	486	73	
Major/Minor I	Minor2			Minor1			Major1		ľ	Major2			
Conflicting Flow All	1191	1168	486	1214	1241	634	559	0	0	634	0	0	
Stage 1	520	520	-	648	648	-	-	-	-	-	-	-	
Stage 2	671	648	-	566	593	-	-	-	-	-	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	~ 164	193	581	158	175	479	1012	-	-	949	-	-	
Stage 1	539	532	-	459	466	-	-	-	-	-	-	-	
Stage 2	446	466	-	509	493	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	~ 145	188	581	150	171	479	1012	-	-	949	-	-	
Mov Cap-2 Maneuver	~ 145	188	-	281	292	-	-	-	-	-	-	-	
Stage 1	535	522	-	456	463	-	-	-	-	-	-	-	
Stage 2	400	463	-	485	484	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	204.6			13.7			0.1			0.3			
HCM LOS	F			В									
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1\		SBL	SBT	SBR				
Capacity (veh/h)		1012	-	-	155	465	949	-	-				
HCM Lane V/C Ratio		0.007	-	-		0.105		-	-				
HCM Control Delay (s)		8.6	-	-	204.6	13.7	8.9	-	-				
HCM Lane LOS		А	-	-	F	В	Α	-	-				
HCM 95th %tile Q(veh))	0	-	-	11	0.4	0.1	-	-				
Notes													
~: Volume exceeds cap	pacity	\$: De	elay exc	ceeds 3	00s	+: Com	putation	Not D	efined	*: All	major	volume i	in platoon
	, ,		,										

HCM 6th TWSC
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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	₽		ሻ	•	7
Traffic Volume (veh/h)	61	1	8	2	0	12	19	376	2	62	524	157
Future Volume (veh/h)	61	1	8	2	0	12	19	376	2	62	524	157
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	66	1	9	2	0	13	21	409	2	67	570	171
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	339	2	15	154	3	129	48	718	4	127	805	683
Arrive On Green	0.09	0.09	0.09	0.09	0.00	0.09	0.03	0.39	0.39	0.07	0.43	0.43
Sat Flow, veh/h	1268	19	173	185	39	1456	1781	1860	9	1781	1870	1585
Grp Volume(v), veh/h	76	0	0	15	0	0	21	0	411	67	570	171
Grp Sat Flow(s), veh/h/ln	1461	0	0	1680	0.0	0	1781	0	1869 5.2	1781	1870	1585
Q Serve(g_s), s Cycle Q Clear(g_c), s	1.2 1.5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	5.2	1.1	7.4 7.4	2.0
Prop In Lane	0.87	0.0	0.0	0.3	0.0	0.0	1.00	0.0	0.00	1.00	7.4	1.00
Lane Grp Cap(c), veh/h	356	0	0.12	286	0	0.67	48	0	721	1.00	805	683
V/C Ratio(X)	0.21	0.00	0.00	0.05	0.00	0.00	0.44	0.00	0.57	0.53	0.71	0.25
Avail Cap(c_a), veh/h	1092	0.00	0.00	1091	0.00	0.00	299	0.00	1476	299	1477	1252
HCM 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
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	13.0	0.0	0.0	12.5	0.0	0.0	14.3	0.0	7.2	13.3	6.9	5.4
Incr Delay (d2), s/veh	0.3	0.0	0.0	0.1	0.0	0.0	6.3	0.0	0.7	3.3	1.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.9	0.4	1.2	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	13.3	0.0	0.0	12.5	0.0	0.0	20.5	0.0	7.9	16.7	8.1	5.6
LnGrp LOS	В	Α	Α	В	Α	Α	С	Α	Α	В	Α	Α
Approach Vol, veh/h		76			15			432			808	
Approach Delay, s/veh		13.3			12.5			8.5			8.3	
Approach LOS		В			В			Α			Α	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.6	16.0		7.1	5.3	17.3		7.1				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.0	23.5		18.0	5.0	23.5		18.0				
Max Q Clear Time (g_c+I1), s	3.1	7.2		3.5	2.3	9.4		2.3				
Green Ext Time (p_c), s	0.0	2.0		0.2	0.0	3.4		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			8.7									
HCM 6th LOS			Α									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		7	₽		7	↑	7
Traffic Volume (veh/h)	166	1	16	2	0	45	7	608	1	16	467	70
Future Volume (veh/h)	166	1	16	2	0	45	7	608	1	16	467	70
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	173	1	17	2	0	47	7	633	1	17	486	73
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	424	1	23	107	7	278	17	797	1	39	822	697
Arrive On Green	0.18	0.18	0.18	0.18	0.00	0.18	0.01	0.43	0.43	0.02	0.44	0.44
Sat Flow, veh/h	1302	8	128	25	41	1538	1781	1867	3	1781	1870	1585
Grp Volume(v), veh/h	191	0	0	49	0	0	7	0	634	17	486	73
Grp Sat Flow(s), veh/h/ln	1437	0	0	1603	0	0	1781	0	1870	1781	1870	1585
Q Serve(g_s), s	3.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	10.7	0.3	7.2	1.0
Cycle Q Clear(g_c), s	4.5	0.0	0.0	0.9	0.0	0.0	0.1	0.0	10.7	0.3	7.2	1.0
Prop In Lane	0.91	_	0.09	0.04	_	0.96	1.00	_	0.00	1.00		1.00
Lane Grp Cap(c), veh/h	448	0	0	393	0	0	17	0	799	39	822	697
V/C Ratio(X)	0.43	0.00	0.00	0.12	0.00	0.00	0.42	0.00	0.79	0.44	0.59	0.10
Avail Cap(c_a), veh/h	879	0	0	885	0	0	244	0	1205	244	1205	1021
HCM 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
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.0	0.0	0.0	12.6	0.0	0.0	18.0	0.0	9.1	17.6	7.7	6.0
Incr Delay (d2), s/veh	0.6	0.0	0.0	0.1	0.0	0.0	15.8	0.0	2.2	7.7	0.7	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	0.0	0.0	0.3	0.0	0.0	0.1	0.0	2.6	0.2	1.6	0.2
Unsig. Movement Delay, s/veh		0.0	0.0	12.0	0.0	0.0	22.0	0.0	11 0	25.3	0.4	/ 1
LnGrp Delay(d),s/veh	14.6 B	0.0	0.0 A	12.8 B	0.0	0.0	33.8 C	0.0	11.2 B	25.3 C	8.4	6.1
LnGrp LOS	D	A 101	A	В	A 40	A	U	A (41	В	C	A	A
Approach Vol, veh/h		191			49			641			576	
Approach LOS		14.6			12.8			11.5			8.6	
Approach LOS		В			В			В			А	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.3	20.1		11.1	4.8	20.5		11.1				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.0	23.5		18.0	5.0	23.5		18.0				
Max Q Clear Time (g_c+l1), s	2.3	12.7		6.5	2.1	9.2		2.9				
Green Ext Time (p_c), s	0.0	2.9		0.8	0.0	2.6		0.1				
Intersection Summary												
HCM 6th Ctrl Delay			10.8									
HCM 6th LOS			В									



Inland Valley Dr / N. Project Driveway
Existing + Project AM

Intersection Information

Delay on stop-controlled approach: 26.4 sec/veh

Total entering volumes: 954 vehicles

Vehicles on stop-controlled approach: 65 vehicles
Number of lanes on stop-controlled approach: 1 Lanes

Total number of approaches: 4 approaches

PART 1

Do total vehicle hours of delay equal or exceed four hours for a one lane approach or five hours for a two or more lane approach?

Vehicle Hours of Delay: 0.5 hours

Part Satisfied? No

PART 2

Volume on minor street equals or exceeds 100 vph for a one lane approach or 150 vph for a two lane approach?

Vehicles on stop controlled approach: 65 vehicles

Part Satisfied? No

PART 3

Volume entering intersection equals or exceeds 650 vph for intersections with three approaches or 800 vph for intersections with four or more approaches?

Total entering volumes: 954 vehicles

Part Satisfied? Yes

Inland Valley Dr / N. Project Driveway
Existing + Project PM

Intersection Information

Delay on stop-controlled approach: 33.7 sec/veh

Total entering volumes: 998 vehicles

Vehicles on stop-controlled approach: 172 vehicles
Number of lanes on stop-controlled approach: 1 Lanes

Total number of approaches: 4 approaches

PART 1

Do total vehicle hours of delay equal or exceed four hours for a one lane approach or five hours for a two or more lane approach?

Vehicle Hours of Delay: 1.6 hours

Part Satisfied? No

PART 2

Volume on minor street equals or exceeds 100 vph for a one lane approach or 150 vph for a two lane approach?

Vehicles on stop controlled approach: 172 vehicles

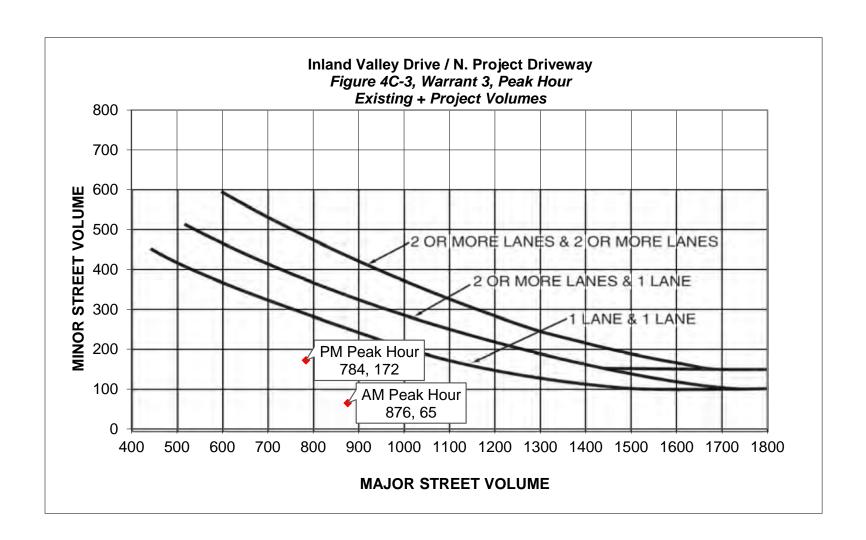
Part Satisfied? Yes

PART 3

Volume entering intersection equals or exceeds 650 vph for intersections with three approaches or 800 vph for intersections with four or more approaches?

Total entering volumes: 998 vehicles

Part Satisfied? Yes



Inland Valley Dr / N. Project Driveway
Opening Year 2026 + Project AM

Intersection Information

Delay on stop-controlled approach: 41.6 sec/veh

Total entering volumes: 1224 vehicles

Vehicles on stop-controlled approach: 70 vehicles

Number of lanes on stop-controlled approach: 1 Lanes

Total number of approaches: 4 approaches

PART 1

Do total vehicle hours of delay equal or exceed four hours for a one lane approach or five hours for a two or more lane approach?

Vehicle Hours of Delay: 0.8 hours

Part Satisfied? No

PART 2

Volume on minor street equals or exceeds 100 vph for a one lane approach or 150 vph for a two lane approach?

Vehicles on stop controlled approach: 70 vehicles

Part Satisfied? No

PART 3

Volume entering intersection equals or exceeds 650 vph for intersections with three approaches or 800 vph for intersections with four or more approaches?

Total entering volumes: 1224 vehicles

Part Satisfied? Yes

Inland Valley Dr / N. Project Driveway
Opening Year 2026 + Project PM

Intersection Information

Delay on stop-controlled approach: 204.6 sec/veh

Total entering volumes: 1399 vehicles

Vehicles on stop-controlled approach: 183 vehicles
Number of lanes on stop-controlled approach: 1 Lanes

Total number of approaches: 4 approaches

PART 1

Do total vehicle hours of delay equal or exceed four hours for a one lane approach or five hours for a two or more lane approach?

Vehicle Hours of Delay: 10.4 hours

Part Satisfied? Yes

PART 2

Volume on minor street equals or exceeds 100 vph for a one lane approach or 150 vph for a two lane approach?

Vehicles on stop controlled approach: 183 vehicles

Part Satisfied? Yes

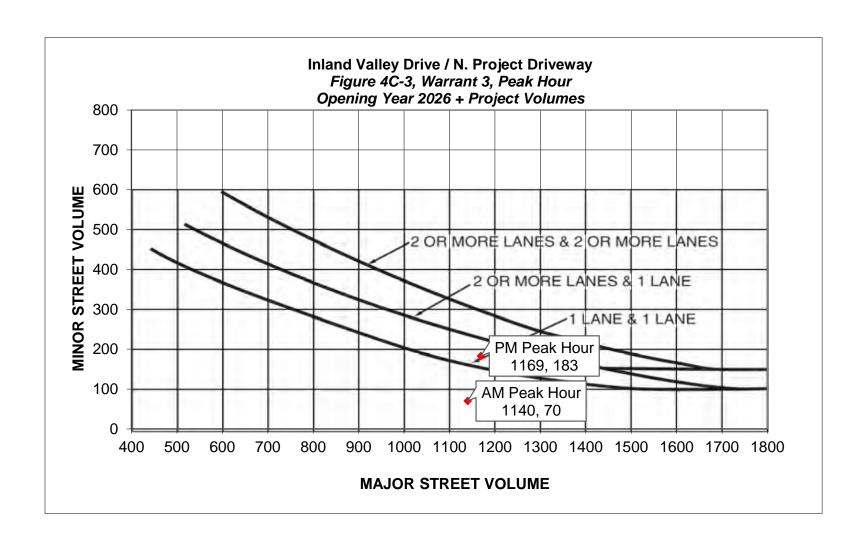
PART 3

Volume entering intersection equals or exceeds 650 vph for intersections with three approaches or 800 vph for intersections with four or more approaches?

Total entering volumes: 1399 vehicles

Part Satisfied? Yes

Warrant Satisfied? Yes



Inland Valley Dr / Prielipp Rd Existing + Project AM

Intersection Information

Delay on stop-controlled approach: 11 sec/veh

Total entering volumes: 600 vehicles

Vehicles on stop-controlled approach: 37 vehicles
Number of lanes on stop-controlled approach: 1 Lanes

Total number of approaches: 3 approaches

PART 1

Do total vehicle hours of delay equal or exceed four hours for a one lane approach or five hours for a two or more lane approach?

Vehicle Hours of Delay: 0.1 hours

Part Satisfied? No

PART 2

Volume on minor street equals or exceeds 100 vph for a one lane approach or 150 vph for a two lane approach?

Vehicles on stop controlled approach: 37 vehicles

Part Satisfied? No

PART 3

Volume entering intersection equals or exceeds 650 vph for intersections with three approaches or 800 vph for intersections with four or more approaches?

Total entering volumes: 600 vehicles

Part Satisfied? No

Inland Valley Dr / Prielipp Rd Existing + Project PM

Intersection Information

Delay on stop-controlled approach: 11.6 sec/veh

Total entering volumes: 619 vehicles

Vehicles on stop-controlled approach: 55 vehicles
Number of lanes on stop-controlled approach: 1 Lanes

Total number of approaches: 3 approaches

PART 1

Do total vehicle hours of delay equal or exceed four hours for a one lane approach or five hours for a two or more lane approach?

Vehicle Hours of Delay: 0.2 hours

Part Satisfied? No

PART 2

Volume on minor street equals or exceeds 100 vph for a one lane approach or 150 vph for a two lane approach?

Vehicles on stop controlled approach: 55 vehicles

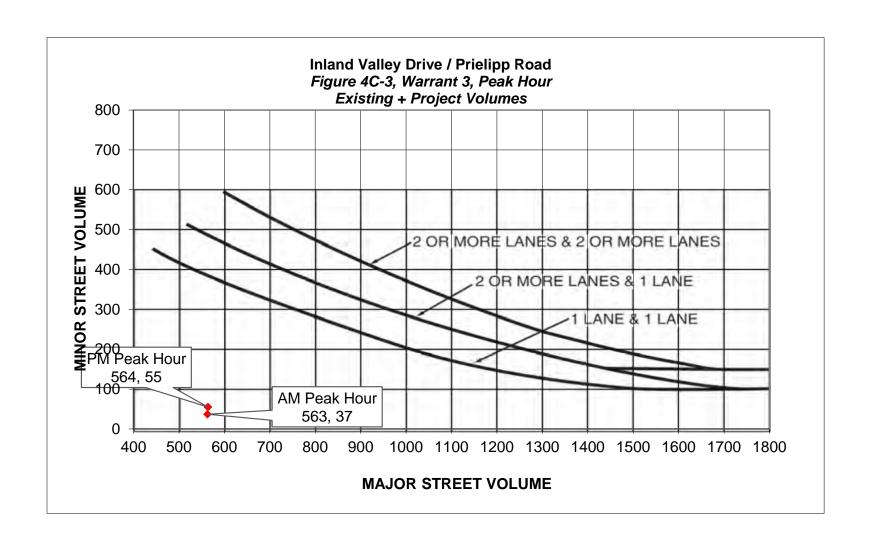
Part Satisfied? No

PART 3

Volume entering intersection equals or exceeds 650 vph for intersections with three approaches or 800 vph for intersections with four or more approaches?

Total entering volumes: 619 vehicles

Part Satisfied? No



Inland Valley Dr / Prielipp Rd
Opening Year 2026 + Project AM

Intersection Information

Delay on stop-controlled approach: 16.2 sec/veh

Total entering volumes: 837 vehicles

Vehicles on stop-controlled approach: 41 vehicles
Number of lanes on stop-controlled approach: 1 Lanes

Total number of approaches: 3 approaches

PART 1

Do total vehicle hours of delay equal or exceed four hours for a one lane approach or five hours for a two or more lane approach?

Vehicle Hours of Delay: 0.2 hours

Part Satisfied? No

PART 2

Volume on minor street equals or exceeds 100 vph for a one lane approach or 150 vph for a two lane approach?

Vehicles on stop controlled approach: 41 vehicles

Part Satisfied? No

PART 3

Volume entering intersection equals or exceeds 650 vph for intersections with three approaches or 800 vph for intersections with four or more approaches?

Total entering volumes: 837 vehicles

Part Satisfied? Yes

Inland Valley Dr / Prielipp Rd
Opening Year 2026 + Project PM

Intersection Information

Delay on stop-controlled approach: 25.8 sec/veh

Total entering volumes: 988 vehicles

Vehicles on stop-controlled approach: 60 vehicles
Number of lanes on stop-controlled approach: 1 Lanes

Total number of approaches: 3 approaches

PART 1

Do total vehicle hours of delay equal or exceed four hours for a one lane approach or five hours for a two or more lane approach?

Vehicle Hours of Delay: 0.4 hours

Part Satisfied? No

PART 2

Volume on minor street equals or exceeds 100 vph for a one lane approach or 150 vph for a two lane approach?

Vehicles on stop controlled approach: 60 vehicles

Part Satisfied? No

PART 3

Volume entering intersection equals or exceeds 650 vph for intersections with three approaches or 800 vph for intersections with four or more approaches?

Total entering volumes: 988 vehicles

Part Satisfied? Yes

