Traffic Impact Study (TIS)
Gibson In-N-Out

Draft Report

October 2024

Prepared for:

In-N-Out Burger

Prepared By:

LEE ENGINEERING

EXECUTIVE SUMMARY

The following contains a Traffic Impact Study (TIS) for an In-N-Out fast-food restaurant to be developed on Gibson Boulevard between Alumni Drive and the I-25 Interchange in Albuquerque, New Mexico. Lee Engineering has completed this report for In-N-Out Burger. All analyses and items contained herein conform to scoping requirements set forth in a scoping meeting held on April 29th, 2024, with In-N-Out corporation, the City of Albuquerque (CABQ), and the New Mexico Department of Transportation (NMDOT).

BACKGROUND

The proposed development is an In-N-Out Burger quick service restaurant on Gibson Boulevard between Alumni Drive and the I-25 Interchange.

The site, which is to comprise of a 3,886 square foot building with 74 parking spaces and a drive-through window, is anticipated to generate 145 ingress and 140 egress trips during the MD peak hour, and 105 ingress trips and 97 egress trips during the PM peak hour. The number of vehicle trips generated by the proposed development was based on average driveway traffic data collected from 12 In-N-Out Burger developments in California. Trip data from these 12 developments and trips based on the Institute of Transportation Engineers (ITE) Trip Generation Manual, land use code 934-Fast-Food Restaurant with Drive-Through can be found in Appendix C for comparison.

Site access is available according to current site plans through one site access driveway on Gibson Boulevard and two on Alumni Drive.

Study intersections include:

1) Gibson Boulevard and I-25 SB
2) Gibson Boulevard and I-25 NB
3) Gibson Boulevard and Mulberry Street
4) Alumni Drive and Site Driveway 1
5) Alumni Drive and Site Driveway 2
6) Gibson Boulevard and Alumni Drive
7) Gibson Boulevard and University Boulevard

For the purposes of this analysis, the development is assumed to reach full completion by 2026. The development is to be constructed in one phase.

Analysis scenarios for this study include:

- Existing 2024 – Existing field-counted traffic volumes.
- Build-Out Year 2026 Background – 2026 traffic volumes projected from the Existing traffic volumes via the application of a growth factor developed from the Mid-Region Council of Governments (MRCOG) Metropolitan Transportation Plan (MTP) CUBE/2 Regional Model, plus trips generated by adjacent developments.
- Build-Out Year 2026 Total – 2026 background volumes plus trips generated by the proposed development.
- Horizon Year 2036 Background – 2036 traffic volumes projected from the Existing traffic volumes via the application of a growth factor developed from the MRCOG Metropolitan Transportation Plan (MTP) CUBE/2 Regional Model, plus trips generated by adjacent developments.

- Horizon Year 2036 Total – 2036 background volumes plus trips generated by the proposed development.

Existing turning movement counts were collected on Thursday, May 16th, 2024, for the following study intersections:

- Gibson Boulevard and I-25 SB Interchange
- Gibson Boulevard and I-25 NB Interchange
- Gibson Boulevard and Mulberry Street
- Gibson Boulevard and Alumni Drive
- Gibson Boulevard and University Boulevard

These volumes were analyzed unaltered in the Existing scenario of the Level of Service and Queueing Analysis section. Site trips for the development site were generated based on trip survey data collected from 12 In-N-Out Burger developments in California. Proposed development-generated trips were used to analyze Build-Out Year and Horizon Year Total volumes.

SUMMARY OF TRAFFIC ANALYSIS AND RECOMMENDATIONS

The following presents a summary of the traffic analysis and recommendations included in this report.

ASSUMPTIONS

The following assumptions regarding new developments in the roadway network were made for the Build-Out Year scenarios based on the information discussed in the scoping meeting:

- Alumni Drive is assumed to be extended north of its current location to Avenida Caesar Chavez through a project designed and funded by the University of New Mexico. Site Driveways 1 and 2 will be constructed on the west side of the new segment of Alumni Drive. For this analysis, the full extension of Alumni Drive is assumed to be completed by Horizon Year 2036.
- The Gibson Boulevard and I-25 Interchange is currently being redesigned by NMDOT. Capacity and queuing issues at the interchange are assumed to be addressed in the future by this reconstruction project. Therefore, mitigations for the interchange are not provided in this analysis.

CONCLUSIONS

The capacity and queuing analysis showed that several study intersection movements operate at unacceptable levels of service under Existing and Background conditions.

Under Existing 2024 conditions, traffic operation is summarized as follows:

- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
  - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
  - NBR operates at LOS E during the PM peak hour.
- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
  - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
  - SBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
- At the signalized intersection of Gibson Boulevard and University Boulevard
  - SBL operates at LOS E during the PM peak hour.
  - SBR operates at LOS E during the PM peak hour.

Under Background 2026 conditions, traffic operation is summarized as follows:

- At the stop-controlled intersection of Gibson Boulevard and I-25 SB Off-Ramp
  - NBR operates at LOS E during the MD peak hour.
- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
  - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
  - NBR operates at LOS F during the PM peak hour.
- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
  - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
  - NBL/R operates at LOS F during the MD and PM peak hours.
  - SBL operates at LOS F during the MD and PM peak hours.
  - EBL operates at LOS F during the PM peak hours.
- At the signalized intersection of Gibson Boulevard and University Boulevard
  - SBL operates at LOS E during the PM peak hour.

Under the Full-Build 2026 scenario, traffic operation is summarized as follows:

- At the stop-controlled intersection of Gibson Boulevard and I-25 SB Off-Ramp
  - NBR operates at LOS E during the MD and PM peak hours.
- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
  - NBL operates at LOS F during the MD and PM peak hours.
  - NBR operates at LOS F during the PM peak hour.
- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
  - NBL operates at LOS F during the MD and PM peak hours.
- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
  - NBL/R operates at LOS F during the MD peak hour.
  - SBL operates at LOS F during the MD and PM peak hours.
  - EBL operates at LOS F PM peak hours.
- At the signalized intersection of Gibson Boulevard and University Boulevard
  - SBL operates at LOS E during the PM peak hour.
  - SBR operates at LOS E during the PM peak hour.

Detailed traffic operation results for Existing, Build Out Year 2026 Background, Build Out Year 2026 Full-Build, Horizon Year 2036 Background, and Horizon Year 2036 Full-Build scenarios can be found in the LOS, Capacity and Queuing section of the report.

SITE RECOMMENDATIONS

- Proposed Access Points and Locations:
  - Full access configuration, with right and left turns being permitted, is recommended for Site Driveways 1 and 2 on Alumni Drive, to provide adequate site circulation for ingress and egress Development trips.
  - An area bounded by the required sight distance of 355 feet for left-turning vehicle and 290 feet for right-turning vehicles should be cleared and maintained free of obstructions on either side of each site driveway.

OFF-SITE INTERSECTION RECOMMENDATIONS

- Alumni Drive and Gibson Boulevard

- A “Do Not Block Intersection” sign (R-10-7) should be installed on Alumni Drive for southbound traffic, between Site Driveway 2 and the fire station access driveway.
- Refreshed striping is recommended on Alumni Drive between Gibson Boulevard and the proposed Development.

TABLE OF CONTENTS

Executive Summary i
Background i
Summary of Traffic Analysis and Recommendations ii
Assumptions ii
Conclusions ii
Site Recommendations iii
Off-site Intersection Recommendations iii
Table of Contents v
List of Figures vi
List of Tables vi
List of Appendices vii
Introduction 1
Background Information 1
Project Location & Site Plan 1
Study Area, Area Land Use, and Streets Narrative Summary 3
Study Area 3
Area Land Use 3
Streets 4
Intersections 4
Bicycle Facilities 5
Adjacent Developments 5
Data Collection 6
Field Data Collection 6
Traffic Scenario Development 7
Traffic Counts, Growth Rates, Adjacent Site Trips and Trip Generations 7
Turning Movement Counts 7
Traffic Growth 8
Site Trip Generation, Distribution and Assignment 10
Traffic Volume Calculations 20
Site CONDITIONS and Site Analysis 25
Assumptions 25
Site Access Analysis and Justification 25
Site Circulation and Queueing Analysis 25
Auxiliary Lane Analysis 26

Site Driveways Sight Distance 27
Traffic Analysis 27
LOS, Capacity, and Queuing Analysis 28
Existing Year 2024 Conditions 29
Build-Out Year (2026) Background conditions 31
Build-Out Year (2026) Full-Build Conditions 33
Horizon Year (2036) Background Conditions 35
Horizon Year (2036) Full-Build Conditions 37
Comparison of Background and Full-Build Scenario Results 39
Intersection Capacity Mitigations 40
Gibson Boulevard 40
Crash Data Summary 41
Conclusions and Recommendations 46
Assumptions 46
Conclusions 46
Site Recommendations 47
Off-site Intersection Recommendations 47

LIST OF FIGURES

Figure 1: Site Plan 2
Figure 2: Vicinity Map 3
Figure 3: Existing Traffic Counts 8
Figure 4: Pass-by Trip Percentages 11
Figure 5: Pass-by Trip Volumes 12
Figure 6: Direct Trip Percentages 13
Figure 7: Direct Trip Volumes 14
Figure 8: Horizon Year Pass-By Trip % 16
Figure 9: Horizon Year Pass-By Trip Volumes 17
Figure 10: Horizon Year Direct Trip % 18
Figure 11: Horizon Year Direct Trip Volumes 19
Figure 12: Build Out Year 2026 Background Volumes 21
Figure 13: Build Out Year 2026 Full-Build Volumes 22
Figure 14: Horizon Year 2036 Background Volumes 23
Figure 15: Horizon Year 2036 Full-Build Volumes 24

LIST OF TABLES

Table 1: Intersection and Network Peak Hours 7
Table 2: Yearly Growth Rates 9
Table 3: Proposed Development Trip Generation 10
Table 4: Pass-by Trip Percentages – Build-Out Year 2026 10

Table 5: Pass-By Trip Percentages - Horizon Year 2036 15
Table 6: Access Spacing Requirements from CABQ DPM 25
Table 7: Turn Lane Warrants – City of Albuquerque DPM Requirements 26
Table 8: Deceleration Lane Lengths 26
Table 9: Required Sight Distance Values 27
Table 10: LOS Criteria and Descriptions for Signalized Intersections 28
Table 11: LOS Criteria for Unsignalized Intersections 28
Table 12: HCM Results for Existing Year (2024) Conditions 30
Table 13: HCM Results for Build-Out Year (2026) Background Conditions 32
Table 14: HCM Results for Build-Out Year (2026) Full-Build Conditions 34
Table 15: HCM Results for Horizon Year (2036) Background Conditions 36
Table 16: HCM Results for Horizon Year (2036) Full-Build Condition 38
Table 17: Crash Summary 41

LIST OF APPENDICES

Appendix A: Scoping Meeting Notes
Appendix B: Turning Movement Counts
Appendix C: ITE Trip Generation and In-N-Out Trip Survey Data
Appendix D: HCM Analysis Output Sheets
Appendix E: AASHTO Green Book Intersection Sight Distance Calculations

INTRODUCTION

This report details the procedures and findings of a Traffic Impact Study (TIS) performed by Lee Engineering for In-N-Out Burger. This report and the analyses herein were performed for a quick service development to be constructed on Gibson Boulevard between Alumni Drive and the I-25 interchange in Albuquerque, New Mexico. This study examines the impacts of the proposed development on surrounding traffic conditions and discusses the potential impacts of trips generated by the development on the study intersections.

The scope of this report and the analyses performed were completed in agreement with the scoping requirements set forth by the City of Albuquerque (CoA) and the New Mexico Department of Transportation (NMDOT). Scoping meeting notes from the scoping meeting held on April 29th, 2024, are included in Appendix A. Analysis procedures, conclusions, and recommendations for this study were developed according to the *Highway Capacity Manual (HCM) 7th Edition* and the *Manual on Uniform Traffic Control Devices (MUTCD) 11th Edition.*

For the purposes of this analysis, the development is assumed to be completed in one phase and to reach full completion by 2026. The site plan displayed in Figure 1 shows that the proposed development is a travel center. Traffic generated by the site is anticipated to generate 145 ingress and 140 egress trips during the MD peak hour, and 105 ingress trips and 97 egress trips during the PM peak hour. Figure 2 shows the site plan for the development. Lee Engineering conducted a Level of Service and Queuing Analysis for the following MD and PM peak hour scenarios:

Traffic Analysis

- Existing 2024 – Existing field-counted traffic volumes.
- Build-Out Year 2026 Background – 2026 traffic volumes projected from the Existing traffic volumes via the application of a growth factor developed from the MRCOG Metropolitan Transportation Plan (MTP) CUBE/2 Regional Model, plus trips generated by adjacent developments.
- Build-Out Year 2026 Total – 2026 background volumes plus trips generated by the proposed development.
- Horizon Year 2036 Background – 2036 traffic volumes projected from the Existing traffic volumes via the application of a growth factor developed from the MRCOG Metropolitan Transportation Plan (MTP) CUBE/2 Regional Model, plus trips generated by adjacent developments.
- Horizon Year 2036 Total – 2036 background volumes plus trips generated by the proposed development.

The Level of Service and Queuing Analysis Reports are presented in full in the Appendix.

BACKGROUND INFORMATION

PROJECT LOCATION & SITE PLAN

The In-N-Out Burger development will be located on Gibson Boulevard between Alumni Drive and the I-25 Interchange. Figure 1 shows the complete proposed site plan, and Figure 2 shows the site location, study intersections, and the surrounding area. Nearby intersections include the following:

1) Gibson Boulevard and I-25 SB
2) Gibson Boulevard and I-25 NB
3) Gibson Boulevard and Mulberry Street
4) Alumni Drive and Site Driveway 1

5) Alumni Drive and Site Driveway 2
6) Gibson Boulevard and Alumni Drive
7) Gibson Boulevard and University Boulevard

The proposed development would convert approximately 2.06 acres of land into an In-N-Out Burger development. For the purposes of this analysis, the development is anticipated to comprise a total of a 3,886 square foot building with 74 parking spaces and a drive-through window. Proposed access points include two driveways on Alumni Drive.

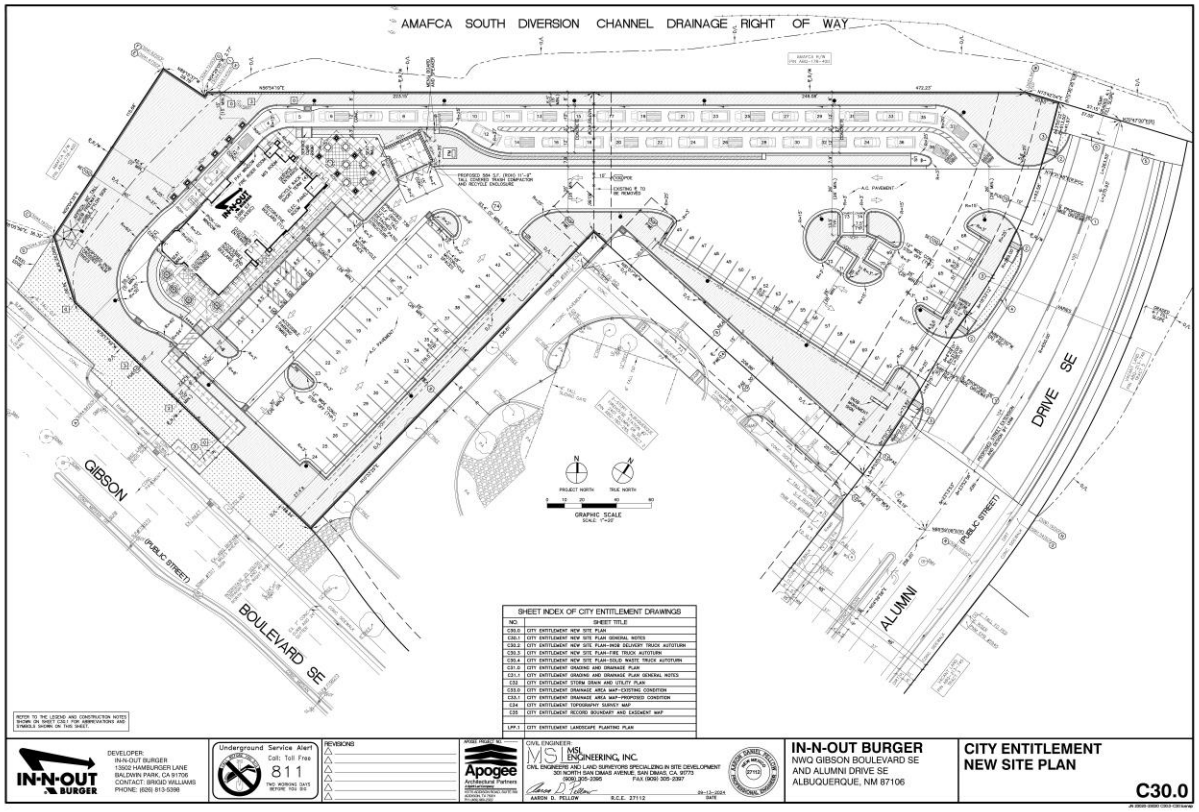


Figure 1: Site Plan

Figure 2: Vicinity Map

Study Area, Area Land Use, and Streets Narrative Summary

STUDY AREA

The study area is defined as North of Gibson Boulevard, from the I-25 interchange to University Boulevard. The following intersections were identified for analysis during the scoping meeting:

1) Gibson Boulevard and I-25 SB
2) Gibson Boulevard and I-25 NB
3) Gibson Boulevard and Mulberry Street
4) Alumni Drive and Site Driveway 1
5) Alumni Drive and Site Driveway 2
6) Gibson Boulevard and Alumni Drive
7) Gibson Boulevard and University Boulevard

AREA LAND USE

As described, the development is to be located on the north side of Gibson Boulevard, and immediately west of Alumni Drive. Adjacent to and surrounding the project site are land uses consisting of the following:

- Undeveloped: The land immediately North and West of the site is currently undeveloped.
- Fire Station: The proposed development is neighboring Albuquerque Fire Station 2.
- Educational: Schools located within 2 miles of the proposed development include Lowell Elementary, East San Jose Elementary, John Marshall School, South Valley Preparatory, William W. Josephine Dorn Charter, Mission Achievement and Success Charter, and University of New Mexico.

- Residential: Several areas surrounding the development are Single-family detached housing, as well as University of New Mexico student housing developments.
- Commercial: Other fast-food developments in the vicinity of the proposed development include Subway, Burger King, Del Taco, Wienerschnitzel, Chick-Fil-A, and Blake's Lotabuger.

STREETS

The following details the characteristics and features of streets included in the study area:

Gibson Boulevard is a CoA-maintained, six-lane roadway with a raised median that runs east and west. The roadway is classified by MRCOG as a principal arterial. The posted speed limit on westbound Gibson Boulevard is 45 MPH east of the I-25 SB ramps, and 35 MPH west of the I-25 SB ramps. The posted speed limit on eastbound Gibson Boulevard is 35 MPH west of the proposed development and 45 MPH east of the development. There are bike lanes, curb and gutter, and sidewalks present on both sides of the roadway.

Alumni Drive is a CoA-maintained, two-lane roadway with a raised median that runs north and south. The roadway is classified by MRCOG as a local urban street. The posted speed limit is 30 MPH. There are bike lanes, curb and gutter, and sidewalks present on both sides of the roadway. The roadway ends approximately 320 feet north of Gibson Boulevard.

University Boulevard is a CoA-maintained roadway that runs north and south. North of Gibson Boulevard, the roadway is classified as a minor arterial, comprises four lanes divided by a raised median, and has the posted speed limit is 40 MPH. South of Gibson Boulevard, the roadway is classified as a local urban street, comprises two lanes, and has a posted speed limit is 25 MPH. Curb, gutter, and Sidewalks are present on both sides of the roadway. Bike lanes are present on both sides of the roadway north of Gibson Boulevard, and sharrow markings and bike route signing is present south of Gibson Boulevard.

Mulberry Street is a CoA-maintained, two-way, undivided roadway that runs north and south. The roadway is classified by MRCOG as a local urban street, and the posted speed limit is 25 MPH. Curb, gutter, and sidewalks are present on both sides of the roadway.

I-25 is an NMDOT-maintained interstate that runs north and south. At Gibson Boulevard and NB I-25, there are three ramps: an off-ramp with an advisory speed limit of 45 MPH that splits into two lanes, one to EB Gibson Boulevard and one to WB Gibson Boulevard, an on-ramp from EB Gibson to NB I-25, and a one-lane on-ramp from WB Gibson to NB I-25. At Gibson Boulevard and SB I-25, there are three ramps: a one-lane off-ramp from SB I-25 to EB Gibson Boulevard with an advisory speed limit of 25 MPH, a one-lane off-ramp from SB-I-25 to WB Gibson Boulevard with an advisory speed limit of 35 MPH, and an on-ramp to SB I-25 with one lane at the base of the ramp from EB Gibson Boulevard and one lane at the base of the ramp from WB Gibson Boulevard. The two lanes merge after entering the on-ramp.

INTERSECTIONS

The following details the traffic control and characteristics of the existing intersections in the study area:

Gibson Boulevard and I-25 SB is an interchange joining two interstate off-ramps, an interstate on-ramps, and a principal arterial. The north leg comprises the I-25 Southbound off-ramp to WB Gibson Boulevard, joining Gibson Boulevard without stop or yield control via an added lane. The south leg comprises the I-25 Southbound off-ramp to EB Gibson Boulevard, joining Gibson Boulevard without stop or yield control via an added lane. The east leg comprises two through lanes and a left-turn lane onto

the I-25 SB on-ramp. The west leg comprises two through lanes and a right-turn lane onto the I-25 SB on-ramp. No crosswalks are present.

Gibson Boulevard and I-25 NB is an interchange joining an interstate off-ramp, two interstate on-ramps, and a principal arterial. The south leg comprises the I-25 NB off-ramp to Gibson Boulevard, which splits into one left-turn lane and one right-turn lane. Stop control is present on the left-turn lane, while the right-turn lane joins Gibson Boulevard EB without stop or yield control via an added lane. The east leg comprises two through lanes and a right-turn lane onto an I-25 NB on-ramp. The west leg comprises two through lanes and a right-turn lane onto an I-25 NB on-ramp. No crosswalks are present.

Gibson Boulevard and Mulberry Street is a 3-legged, minor-street stop-controlled intersection. The south leg is stop-controlled and comprises a right-turn lane and a left-turn lane. The east leg comprises three through lanes and a left-turn lane. The west leg comprises two through lanes and a shared right-turn through lane. No crosswalks are present.

Gibson Boulevard and Alumni Drive a 4-legged, minor-street stop-controlled intersection. The north leg is stop-controlled and consists of a bike lane, a right-turn lane, and a left-turn lane. The south leg is a business access driveway with one lane, with left and right turns permitted. No stop sign is present on the south leg. The east leg comprises a left-turn lane, three through lanes, a bike lane, and a right-turn lane. The west leg comprises a left turn lane, two through lanes, a shared through/right-turn lane, and a bike lane. A crosswalk is present on the north leg of the intersection.

Gibson Boulevard and University Boulevard is a 4-legged, signalized intersection. The north leg comprises a left-turn lane, a through lane, a bike lane, and a right-turn lane. The south leg comprises a left-turn lane and a shared right-turn/through lane. The east leg comprises a left-turn lane, three through lanes, a bike lane, and a right-turn lane. The west leg comprises a left-turn lane, three through lanes, a bike lane, and a right-turn lane. Left-turn phasing at the south, east, and west legs is protected-permitted with five-section signal heads. Left-turn phasing at the north leg is protected only. Vehicle detection is present on each approach, and emergency vehicle preemption is present on Gibson Boulevard for each direction. Crosswalks, pedestrian pushbuttons, and pedestrian signal heads are present on each approach.

BICYCLE FACILITIES

Bicycle lanes are present within the study area on Gibson Boulevard, Alumni Drive, and University Boulevard. A paved multi-use trail is present on Gibson Boulevard, east of University Boulevard. South of Gibson Boulevard, University Boulevard is classified as a bike route with sharrow pavement markings and bike route signing present.

ADJACENT DEVELOPMENTS

Two adjacent developments are planned for construction near the study area, and site trips for these developments were included in the background traffic volumes for this analysis.

A Raising Cane's Restaurant is planned on the northeast corner of Gibson Boulevard and Alumni Drive, and the build-out year listed in the Traffic Impact Study is 2023. The infrastructure improvements required by the City for this development are as follows:

On Alumni Drive, SE Centerline:

- Removal of Curb and Gutter
- Removal of Concrete Sidewalk
- Removal of Concrete Median Pavement
- Removal and Replacement of Asphalt Pavement for Utility Trenching

- Removal of Sewer Manhole
- Removal of Sewer Line
- Sidewalk Flume (Per COA #2236)
- Standard Curb & Gutter (Per COA #2415A)
- Concrete Median Pavement (Per COA #2408)
- Public Concrete Sidewalk (Per COA #2430)
- Barrier Free Ramp (Per COA #2446)
- White Pavement Striping to Match Existing
- 1.5' Domestic Water Meter (Per ABCWUA #2363)
- 1.5" Domestic Water Service

At Proposed Sewer Easement North of the Subject Property:

- Relocated Sewer Line and Associated Appurtenances – to be fully designed with Work Order #W20230006

A commercial development owned by Prime Properties is planned on the southwest corner of Gibson Boulevard and Yale Boulevard, just east of the proposed In-N-Out Burger restaurant. The build-out year listed in the Traffic Impact Study for the commercial development is 2023.

An extension of Alumni Drive to University Boulevard, designed and funded by the University of New Mexico, is also planned for development. A build out year for this project is not yet available; however, the extension is assumed to be complete in Horizon Year 2036 for the purpose of this analysis.

Data Collection

The following section details the data collection method used in subsequent analyses of this report. The data discussed below was collected via a combination of field observations and machine/video recordings.

FIELD DATA COLLECTION

On-Street Parking

No dedicated on-street space is provided in the study area.

Pedestrians and Bicycles

Pedestrian and bicycle volumes were collected at all study intersections with turning movement counts (see Turning Movement Counts section below). Pedestrian and bicycle hourly volumes are provided in Appendix B.

Transit

According to the City of Albuquerque's ABQ Ride System Map (2023), no bus routes pass through the study area.

Signal Timings

The City of Albuquerque Traffic Engineering Division provided signal timing for the signalized intersection of Gibson Boulevard and University Boulevard. Signal timing sheets used in the capacity analyses are provided in Appendix C.

TRAFFIC SCENARIO DEVELOPMENT

The following sections detail the methods and calculations used to obtain traffic volumes for the existing 2026 and 2036 analysis scenarios. This process used the following tools as described below: Traffic Projections, Site Trip Generation, and Trip Distribution and Assignment. Figures at the end of this section show the resulting traffic volumes determined for the 2026 and 2036 analysis scenarios.

TRAFFIC COUNTS, GROWTH RATES, ADJACENT SITE TRIPS AND TRIP GENERATIONS

TURNING MOVEMENT COUNTS

Turning movement counts (TMC) were collected for nine hours in three periods: 6:00 AM-9:00 AM, 11:00 AM-2:00 PM, and 3:30 PM-6:30 PM on Thursday, May 16th, 2024 for each of the study intersections. Turning Since the development will not operate during the AM hours, the Midday and PM peak hours were calculated and analyzed. Table 1 shows the observed peak hours for each intersection where traffic counts were collected and the peak hours for the entire study area (network peak). MD and PM peak-hour traffic volumes are shown in Figure 3. Complete turning movement counts can be found in Appendix B.

Table 1: Intersection and Network Peak Hours

Intersection	MD Peak Hour	PM Peak Hour
I-25 SB Ramps & Gibson Blvd	12:00 PM	3:30 PM
I-25 NB Ramps & Gibson Blvd	12:00 PM	3:30 PM
Gibson Blvd & Mulberry St	12:00 PM	3:30 PM
Gibson Blvd & Alumni Dr	12:00 PM	3:30 PM
Gibson Blvd & University Blvd	12:00 PM	3:30 PM
Network Peak Hours:	**12:00 PM**	**3:30 PM**

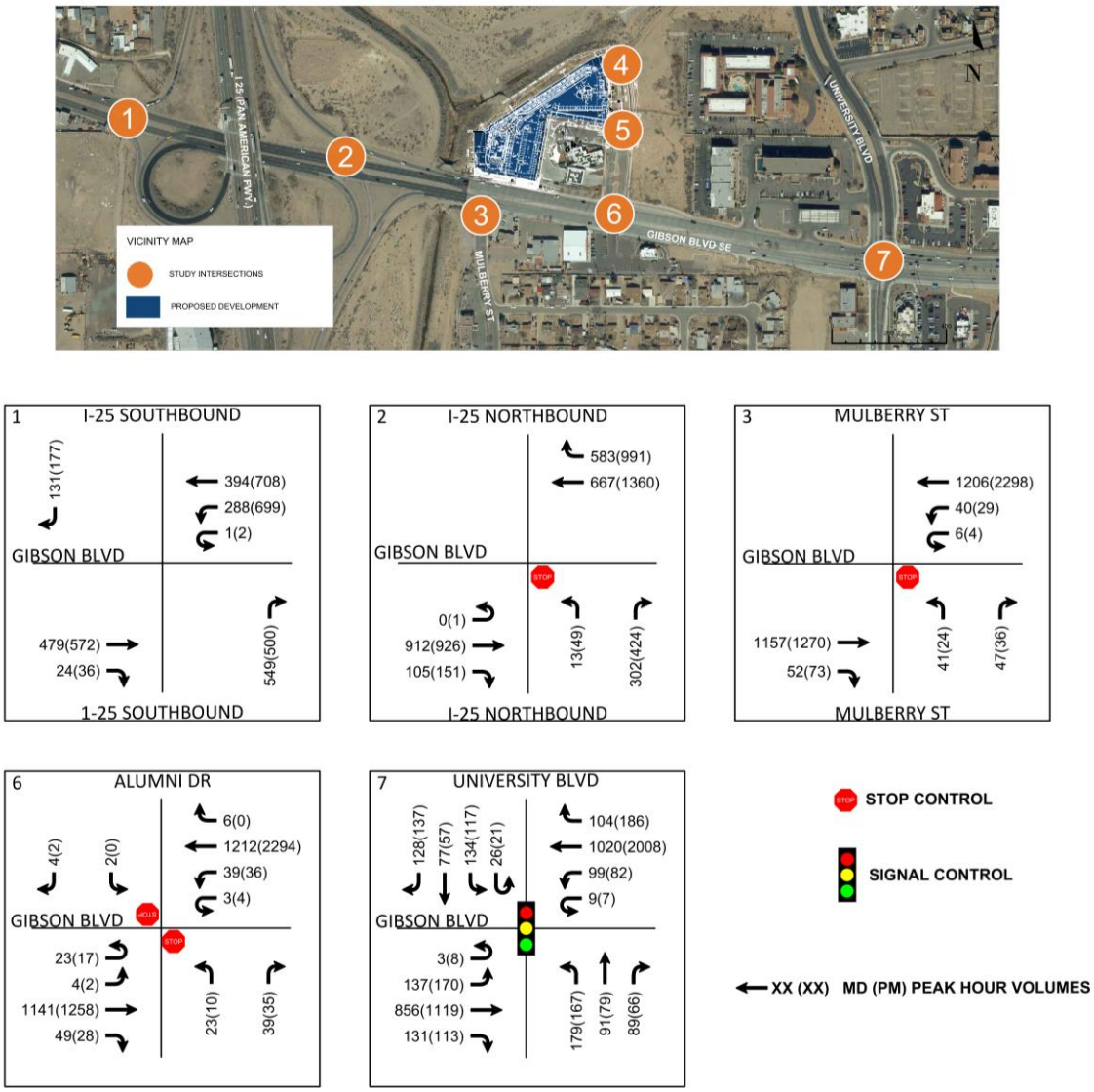


Figure 3: Existing Traffic Counts

Traffic Growth

For the purposes of this analysis, the future year volumes were forecast from existing traffic volumes using values from 2016 and 2040 (updated) travel demand models provided by MRCOG. These models were then compared using AM and PM peak hour direction volumes (AMPH LOAD and PMPH LOAD) to calculate anticipated growth rates for individual roadways near the study area. Roadways calculated to have a yearly growth rate of less than 1% were analyzed with a 1% per year growth rate to facilitate a conservative analysis. Growth rates were then converted to growth factors for specific analysis scenarios. Values provided by MRCOG are reproduced verbatim in Table 2, in addition to the calculated growth rates used in the analysis. Growth rates were then applied to the 2024 existing volumes to forecast future volumes. Projected turning movement volumes were used along with adjacent developments' site-generated trips for the Build-Out Year 2026 Background scenario. 2026 Background volumes plus the proposed development's site-generated trips were used for the Build-Out Year 2026 Full-Build scenario.

Table 2: Yearly Growth Rates

Street	Segment Begin	Segment End	Direction	Period	MRCOG 2016 Model "Peak Hour Load"	MRCOG 2040 Model "Peak Hour Load"	Annual Growth Rate	Average Annual Growth	Growth Rate for Analysis
Gibson Blvd	Node 3659	University	WB	AM PH	1270	1440	0.52%	1.13%	1.10%
				PM PH	2184	1775	-0.86%		
	University	Node 3659	EB	AM PH	2133	2043	-0.18%		
				PM PH	1389	1694	0.83%		
	University	Node 3652	WB	AM PH	1475	1730	0.67%		
				PM PH	2845	2798	-0.07%		
	Node 3652	University	EB	AM PH	2645	2780	0.21%		
				PM PH	1643	2140	1.11%		
	Node 3652	Node 3649	WB	AM PH	557	1730	4.84%		
				PM PH	1786	2798	1.89%		
	Node 3649	Node 3652	EB	AM PH	1729	2780	2.00%		
				PM PH	1164	2140	2.57%		
University Blvd	Gibson	Node 3631	NB	AM PH	407	752	2.59%	2.84%	2.80%
				PM PH	290	475	2.08%		
	Node 3631	Gibson	SB	AM PH	230	398	2.31%		
				PM PH	675	1132	2.18%		
	Node 3631	Sunshine	NB	AM PH	337	749	3.38%		
				PM PH	225	466	3.08%		
	Sunshine	Node 3631	SB	AM PH	123	371	4.71%		
				PM PH	644	1146	2.43%		
I-25 North	Node 3720	Node 3688	NB	AM PH	3815	5287	1.37%	0.93%	1.00%
				PM PH	3279	4746	1.55%		
	Node 3688	Node 3648	NB	AM PH	2866	3879	1.27%		
				PM PH	2772	3868	1.40%		
	Node 3648	Node 3615	NB	AM PH	3233	3879	0.76%		
				PM PH	3653	3868	0.24%		
	Node 3615	Node 3558	NB	AM PH	4185	4806	0.58%		
				PM PH	4741	5026	0.24%		
I-25 South	Node 3568	Node 3618	SB	AM PH	4283	4238	-0.04%	0.28%	0.30%
				PM PH	4229	4392	0.16%		
	Node 3618	Node 3650	SB	AM PH	3897	3305	-0.68%		
				PM PH	4027	3602	-0.46%		
	Node 3650	Node 3679	SB	AM PH	2733	3305	0.79%		
				PM PH	3170	3602	0.53%		
	Node3679	Node 3721	SB	AM PH	3071	3945	1.05%		
				PM PH	3961	4951	0.93%		
Alumni Dr	N/A							---	1.00%
Mulberry St	N/A							---	1.00%

Source: MRCOG 2016 and 2040 Models

SITE TRIP GENERATION, DISTRIBUTION AND ASSIGNMENT

Trip generation for the Proposed Development was taken from trip survey data for 12 In-N-Out Burger Restaurants. The average of the 12 developments' Mid-day and PM peak hour trips was used for this analysis. Pass-by Trip rates of 50% for the Mid-day peak hour and 55% for the PM peak hour taken from the ITE Trip Generation Manual for land use code 934-Fast-Food Restaurant with Drive-Through were used.

Trip data from 12 In-N-Out Burger restaurants show higher peak hour volumes than those based on the ITE Trip Generation Manual. Trip survey data and ITE Trip Generation data can be found in Appendix C for comparison. Trips generated by the proposed development are shown in the tables below. Site-generated trips were added to the Background traffic volumes to create the Total Build-Out and Horizon Year traffic volumes. Table 3 shows the trip generation volumes and percents.

Table 3: Proposed Development Trip Generation

In-N-Out Burger Trip Generation			
	Peak Hour	**INGRESS**	**EGRESS**
PASS-BY	MD	72	70
	PM	57	53
DIRECT	MD	73	70
	PM	48	44
TOTAL[1]	MD	145	140
	PM	105	97

Trip Distribution and Assignment – Build Out Year 2026

The proposed site-generated trip distribution was determined based on the analysis of existing intersection demand characteristics within the study area. These direct trips were routed within the roadway network to and from the Development based on the proportions of existing turning movement counts during the AM and PM peak hours. Figures 4 through 7 show the routing percentages and trips generated by the development. Pass-by trip percentages for Build-Out Year 2026 are also shown in Table 4.

Table 4: Pass-by Trip Percentages – Build-Out Year 2026

Pass-by Trip Percentages		
From	To	
I-25 SB	I-25 SB	35%
I-25 NB	I-25 NB	20%
Gibson EB	Gibson EB	10%
Gibson WB	University NB	5%
Gibson WB	I-25 SB	5%
Gibson WB	I-25 NB	5%
University SB	I-25 SB	5%
University SB	I-25 NB	10%
University SB	University SB	5%
	Total	100%

[1] Average trips from data collected for 12 In-N-Out Burger developments, see Appendix C

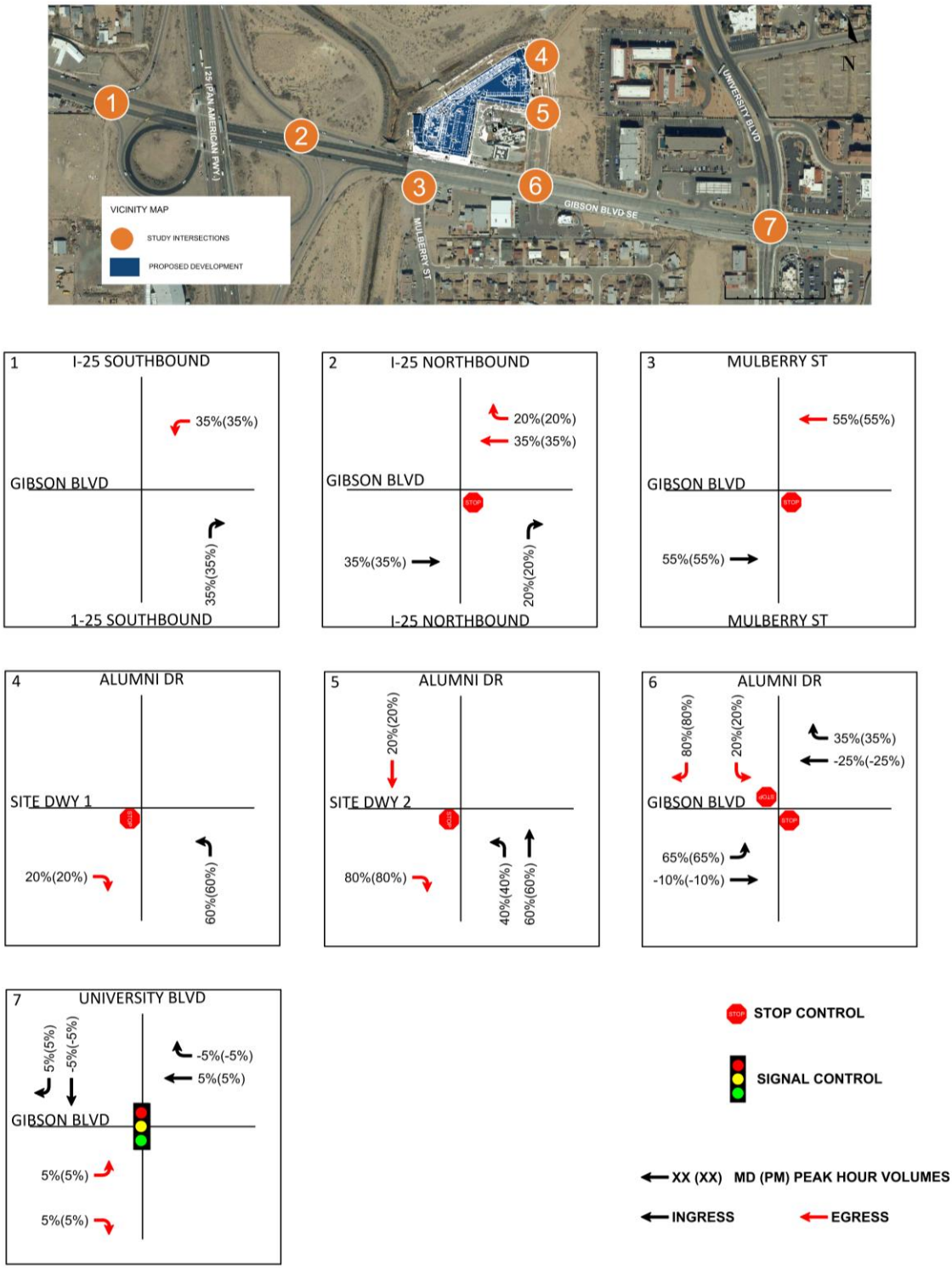


Figure 4: Pass-by Trip Percentages

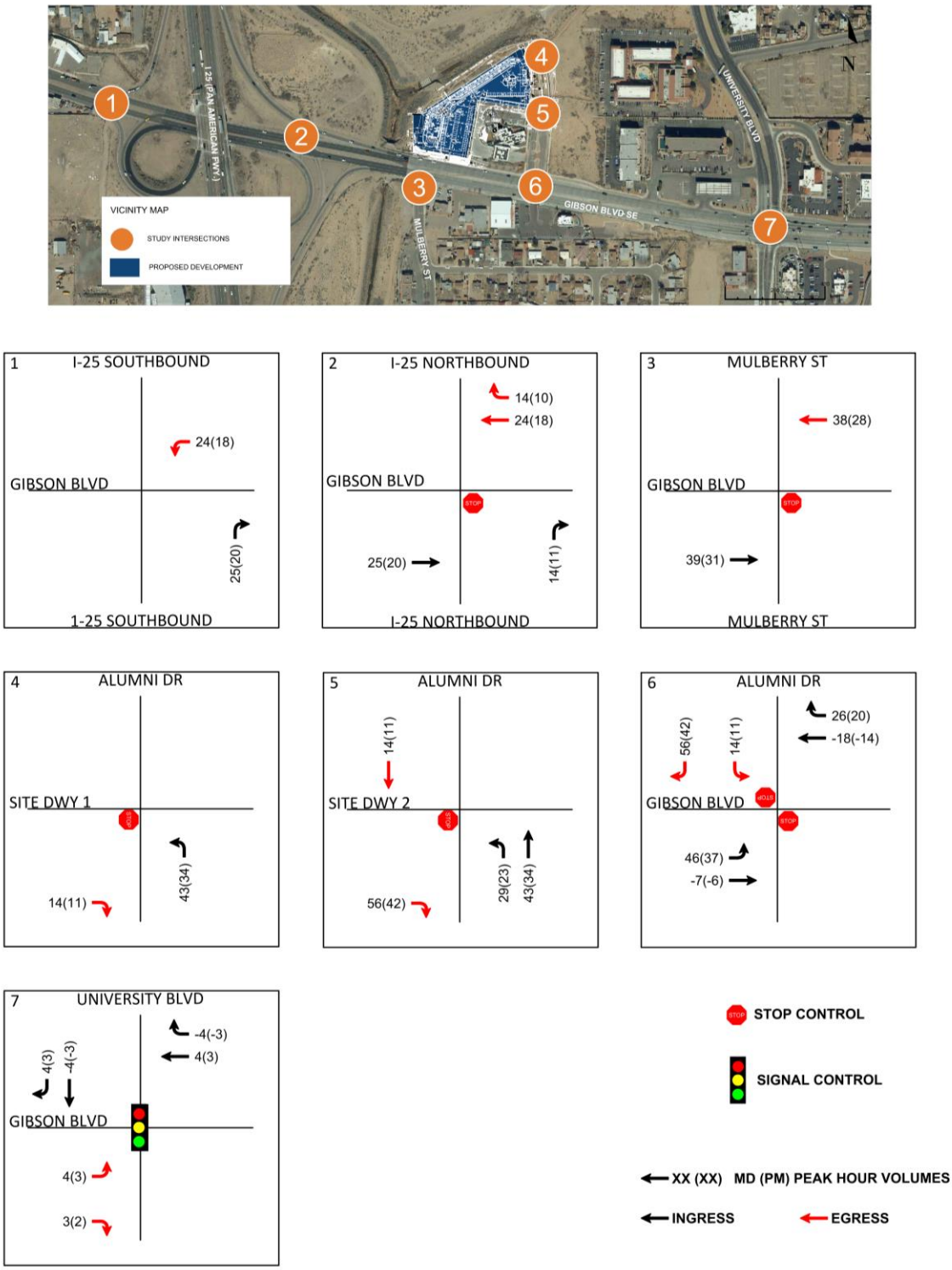


Figure 5: Pass-by Trip Volumes

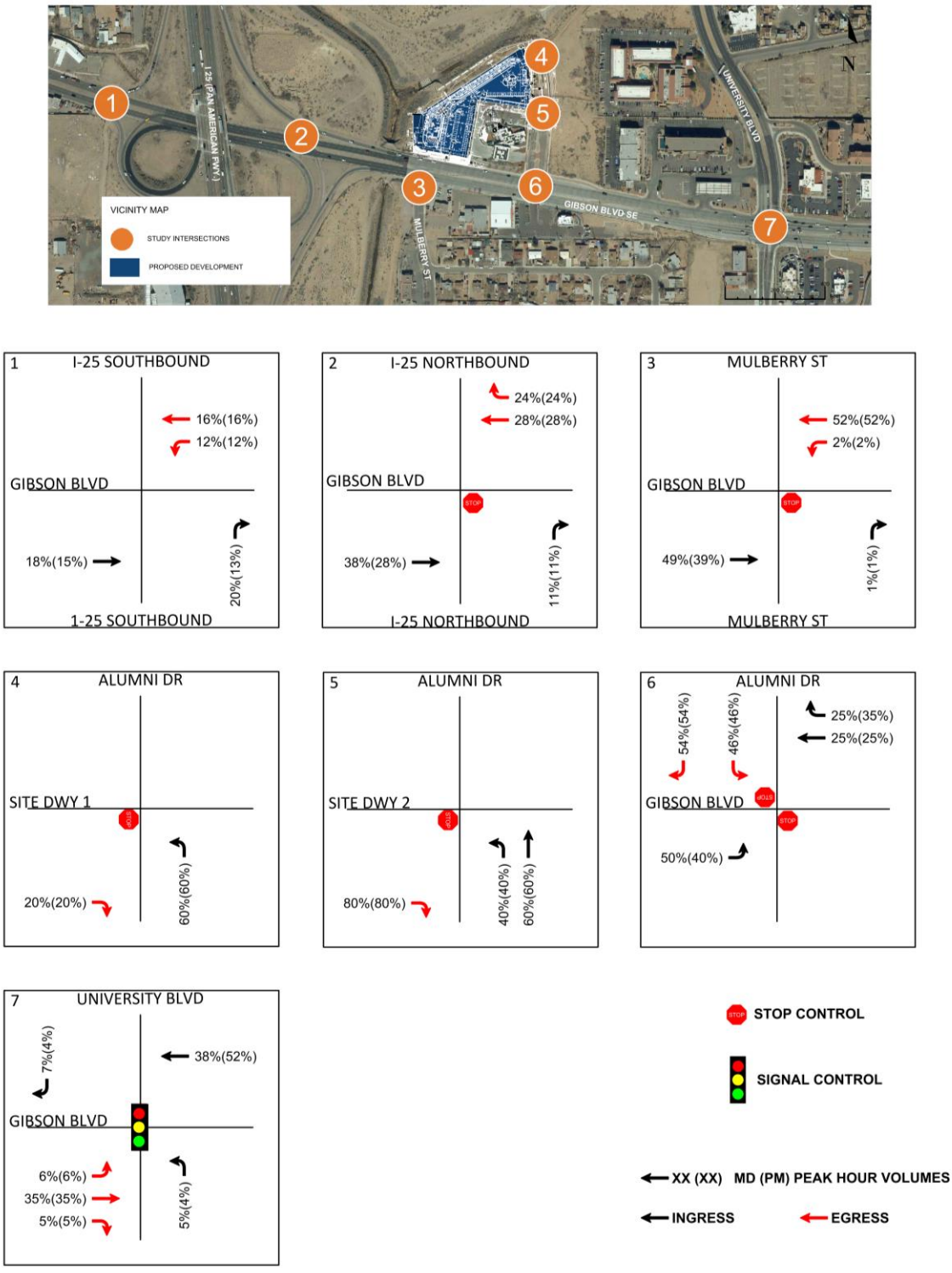


Figure 6: Direct Trip Percentages

Figure 7: Direct Trip Volumes

Trip Distribution and Assignment – Horizon Year 2036

Since the extension of Alumni Drive is assumed to be completed in Horizon Year 2036, a second trip distribution was created for the Horizon Year. Figures 8 through 11 show the routing percentages and trips generated by the development. Pass-by trip percentages for Build-Out Year 2026 are also shown in Table 5. Direct and pass-by trips to and from the extended portion of Alumni Drive are approximated based on assumed future traffic patterns. Without existing volumes, routing percentages could not be calculated from existing traffic patterns.

Table 5: Pass-By Trip Percentages - Horizon Year 2036

Pass-by Trip Percentages - Horizon Year 2036		
From	To	Percentage
I-25 SB	I-25 SB	30%
I-25 NB	I-25 NB	15%
Gibson EB	Gibson EB	10%
Gibson EB	Alumni NB	5%
Gibson WB	Gibson WB	10%
Gibson WB	Alumni NB	5%
Gibson WB	I-25 SB	5%
Gibson WB	I-25 NB	5%
University SB	University SB	5%
University SB	I-25 SB	5%
University SB	I-25 NB	5%
	Total	100%

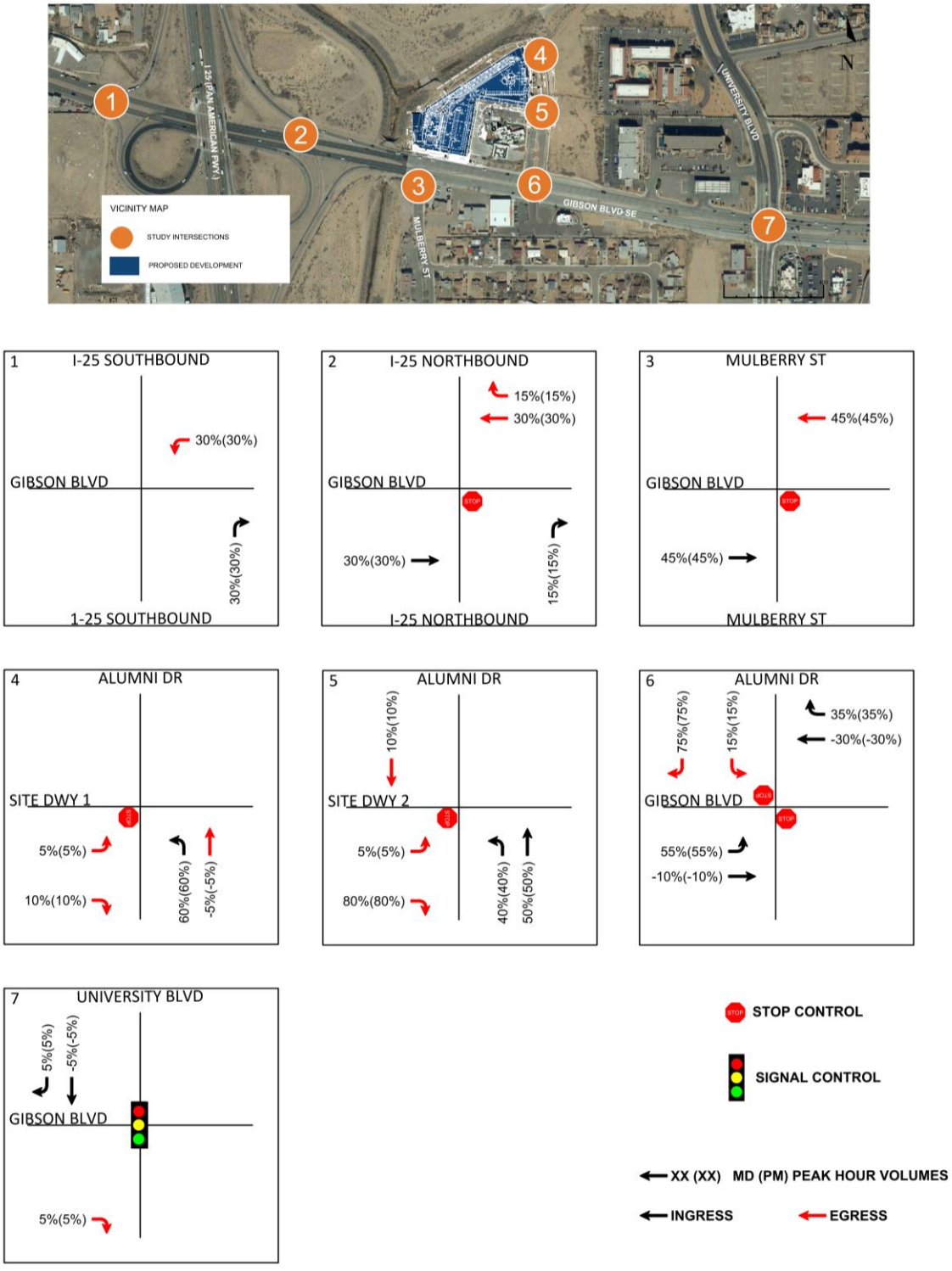


Figure 8: Horizon Year Pass-By Trip %

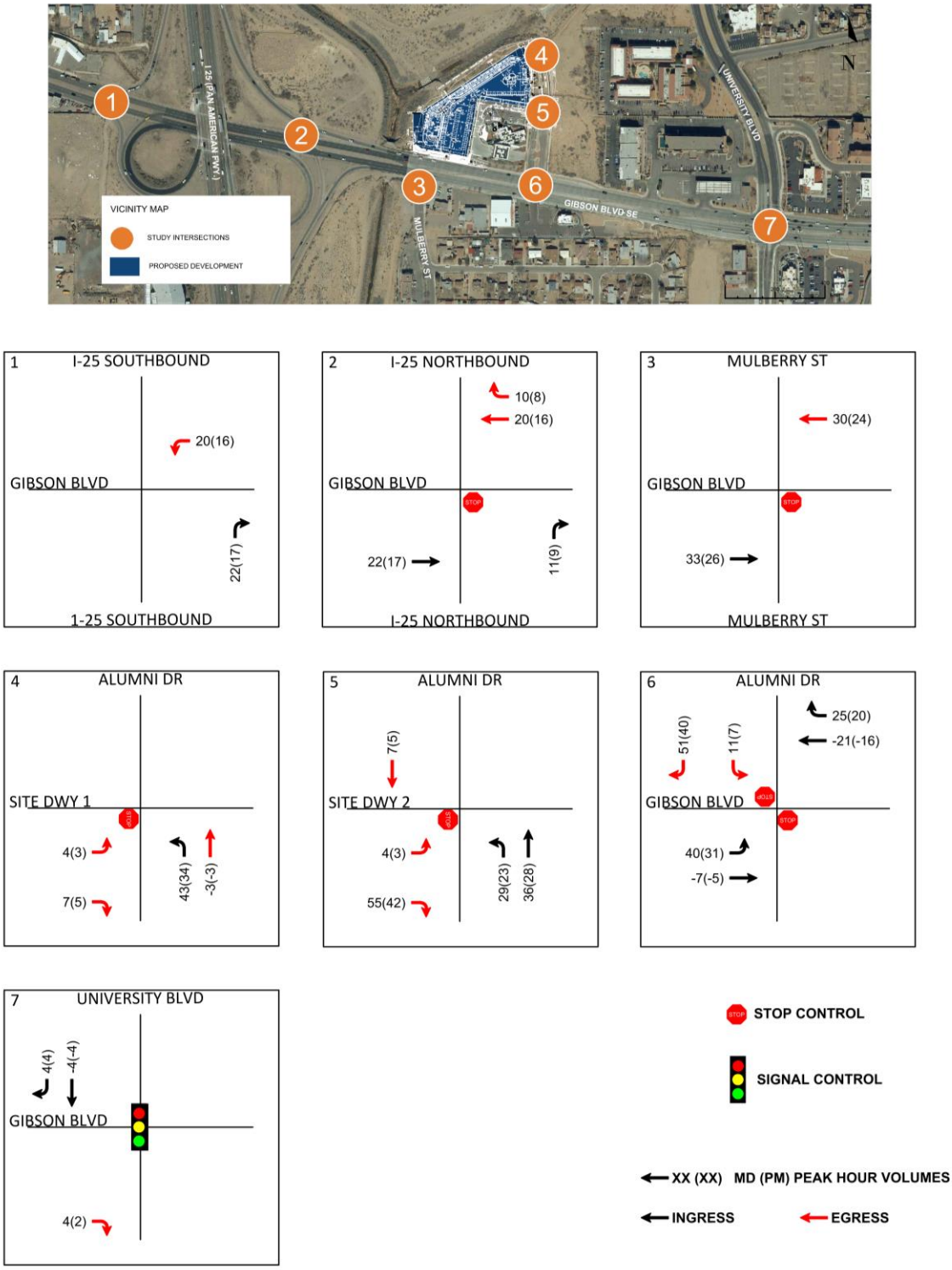


Figure 9: Horizon Year Pass-By Trip Volumes

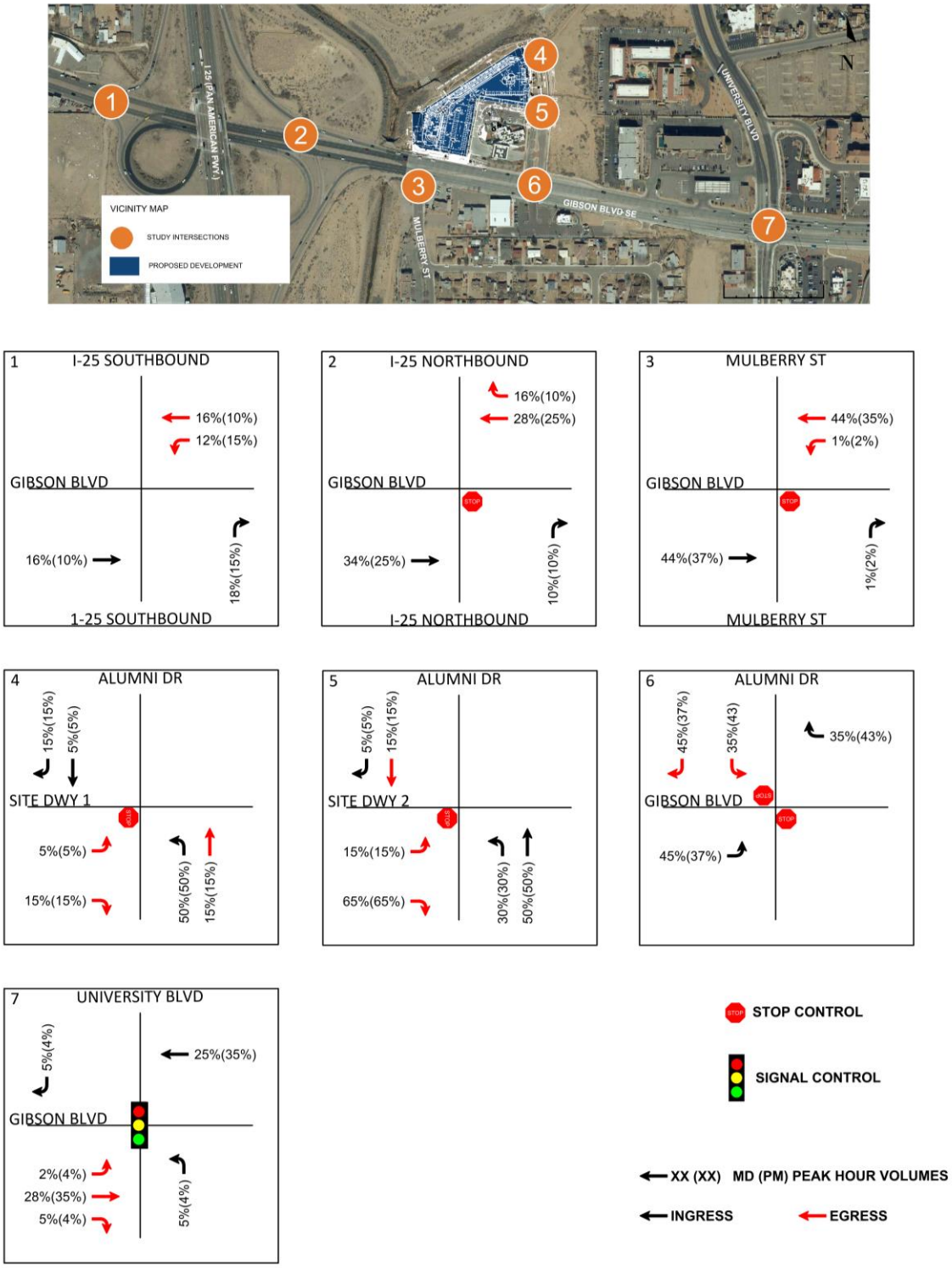


Figure 10: Horizon Year Direct Trip %

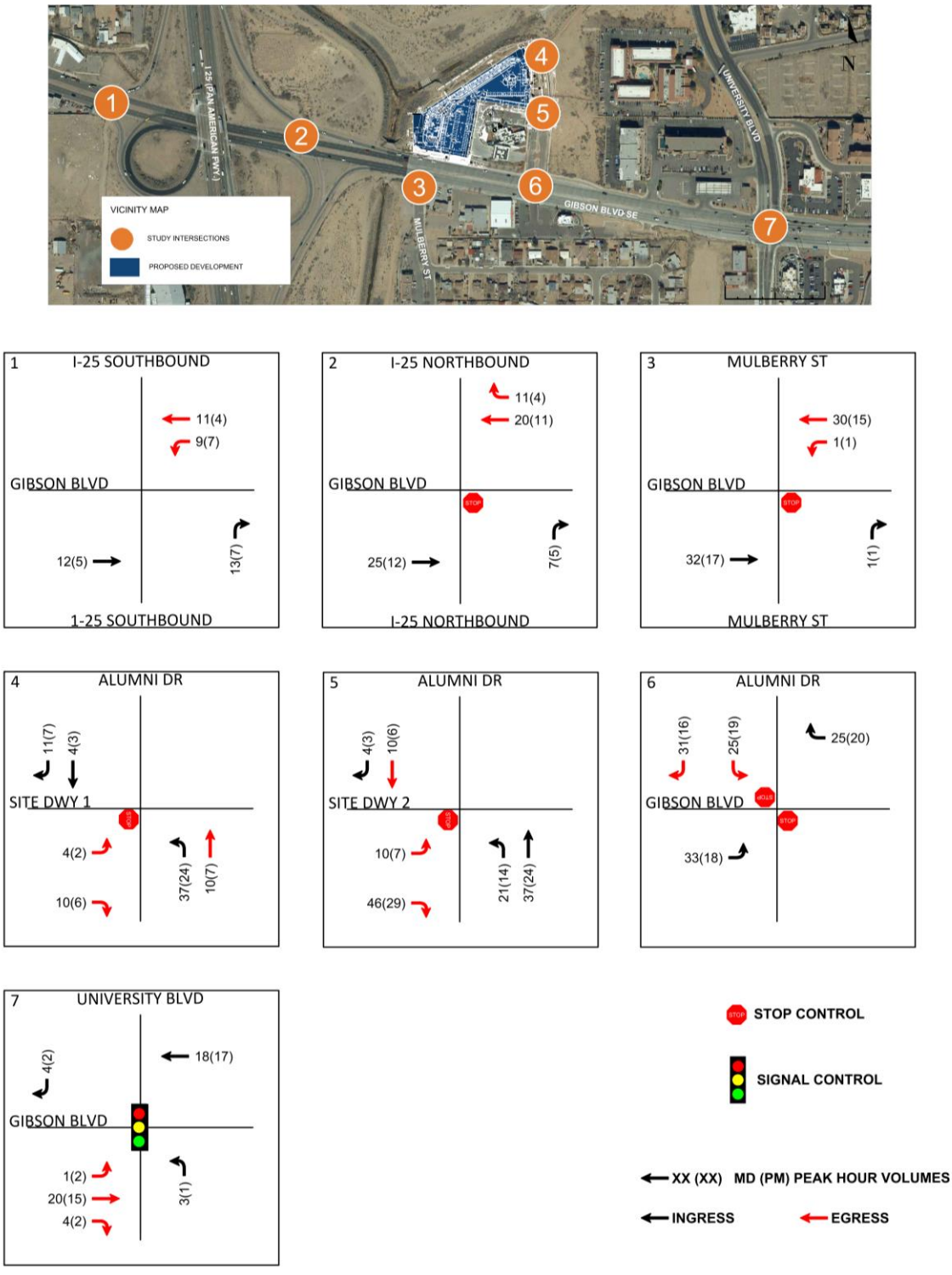


Figure 11: Horizon Year Direct Trip Volumes

Traffic Volume Calculations

Traffic volumes used in the Build-Out Year and Horizon Year analyses were calculated as follows:

- Build-Out Year 2026 Background – 2026 traffic volumes projected from the Existing traffic volumes via the application of a growth factor developed from the MRCOG Metropolitan Transportation Plan (MTP) CUBE/2 Regional Model, plus trips generated by the adjacent developments.
- Build-Out Year 2026 Total – 2026 background volumes plus trips generated by the proposed development.
- Horizon Year 2036 Background – 2036 traffic volumes projected from the Existing traffic volumes via the application of a growth factor developed from the MRCOG Metropolitan Transportation Plan (MTP) CUBE/2 Regional Model, plus trips generated by the adjacent developments.
- Horizon Year 2036 Total – 2036 traffic volumes projected from the Existing traffic volumes via the application of a growth factor developed from the MRCOG Metropolitan Transportation Plan (MTP) CUBE/2 Regional Model, plus trips generated by the proposed development.

Figures 12 through 15 show the volumes for each Build-Out Year and Horizon Year scenario.

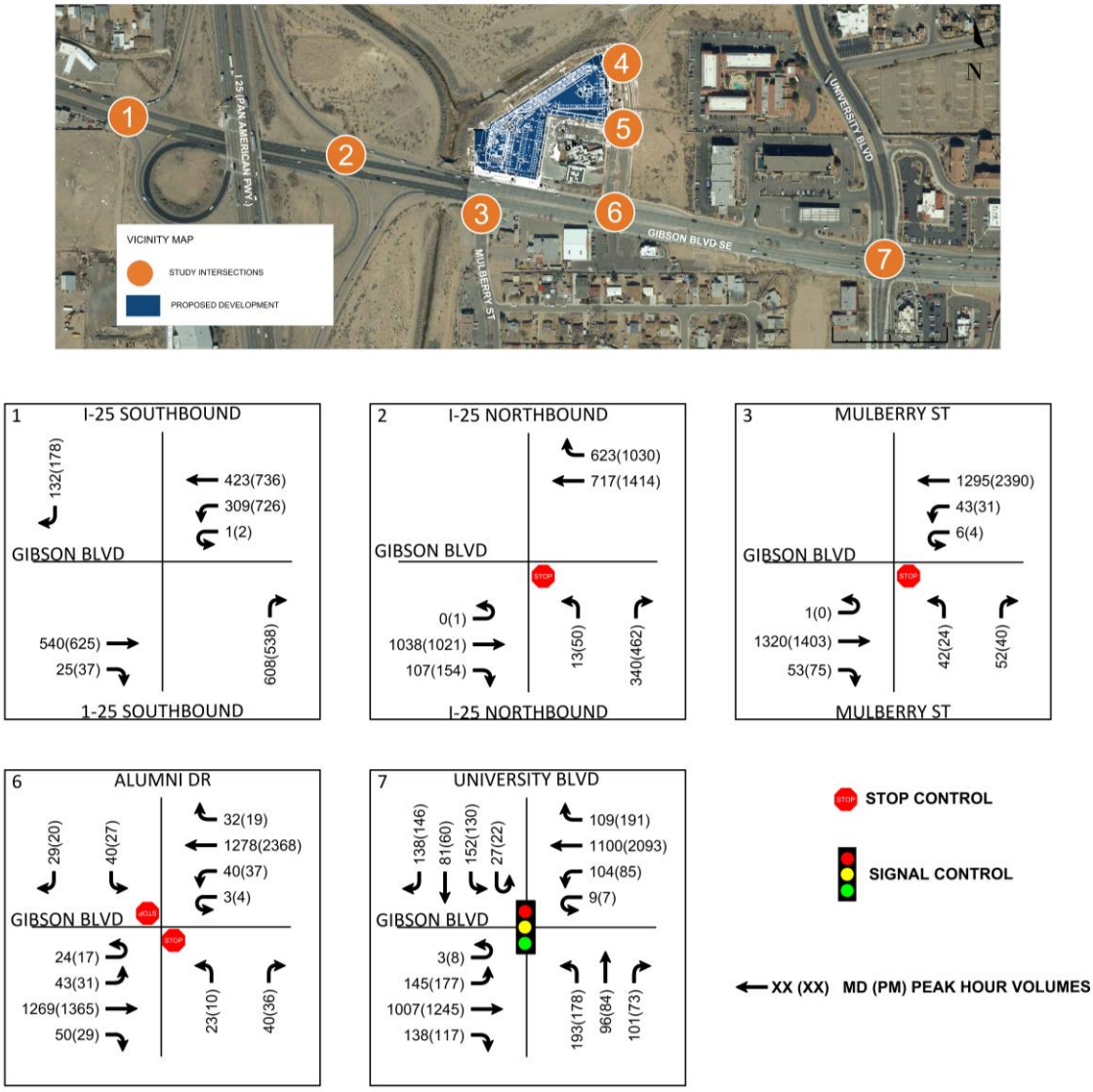


Figure 12: Build Out Year 2026 Background Volumes

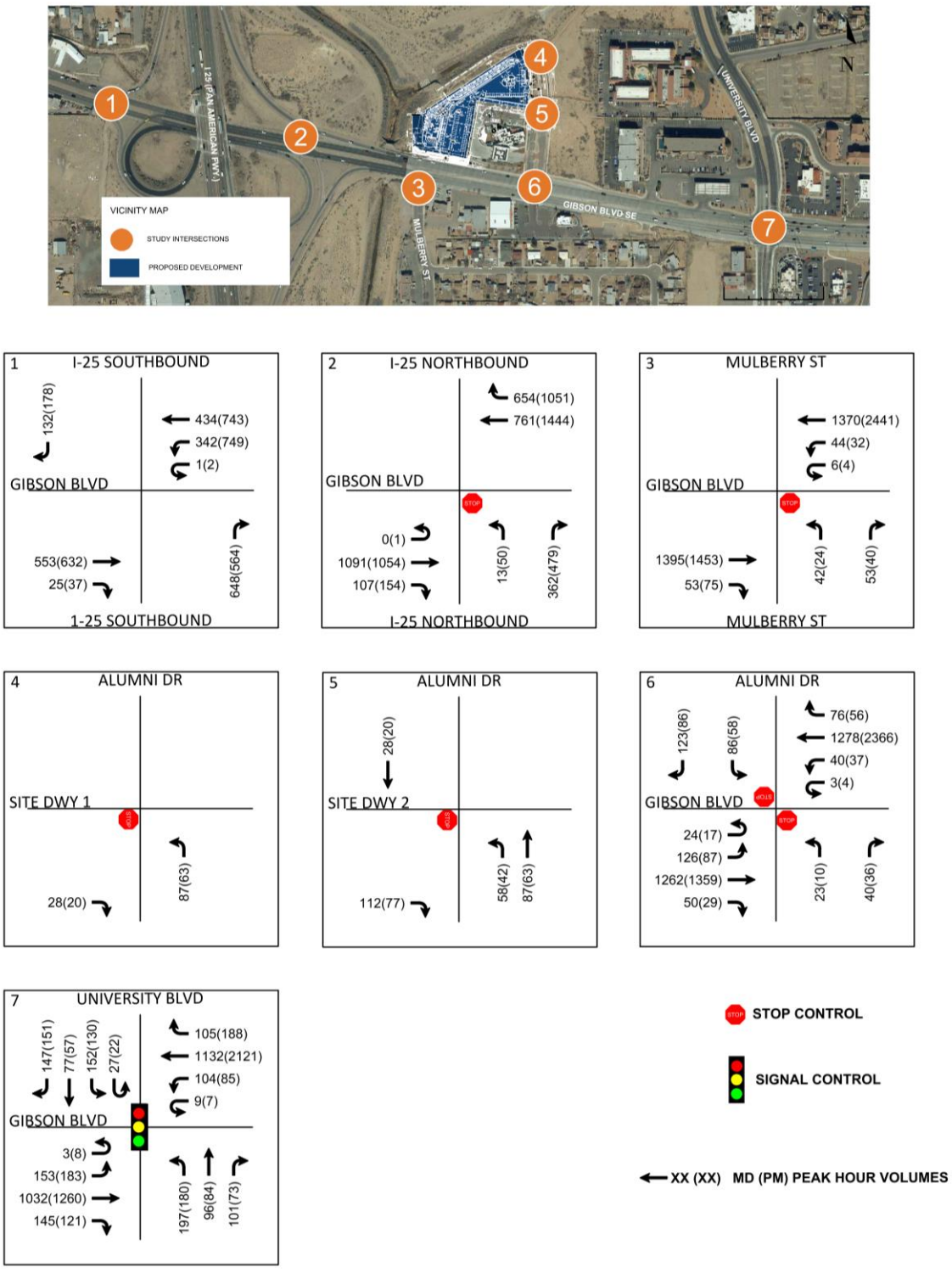


Figure 13: Build Out Year 2026 Full-Build Volumes

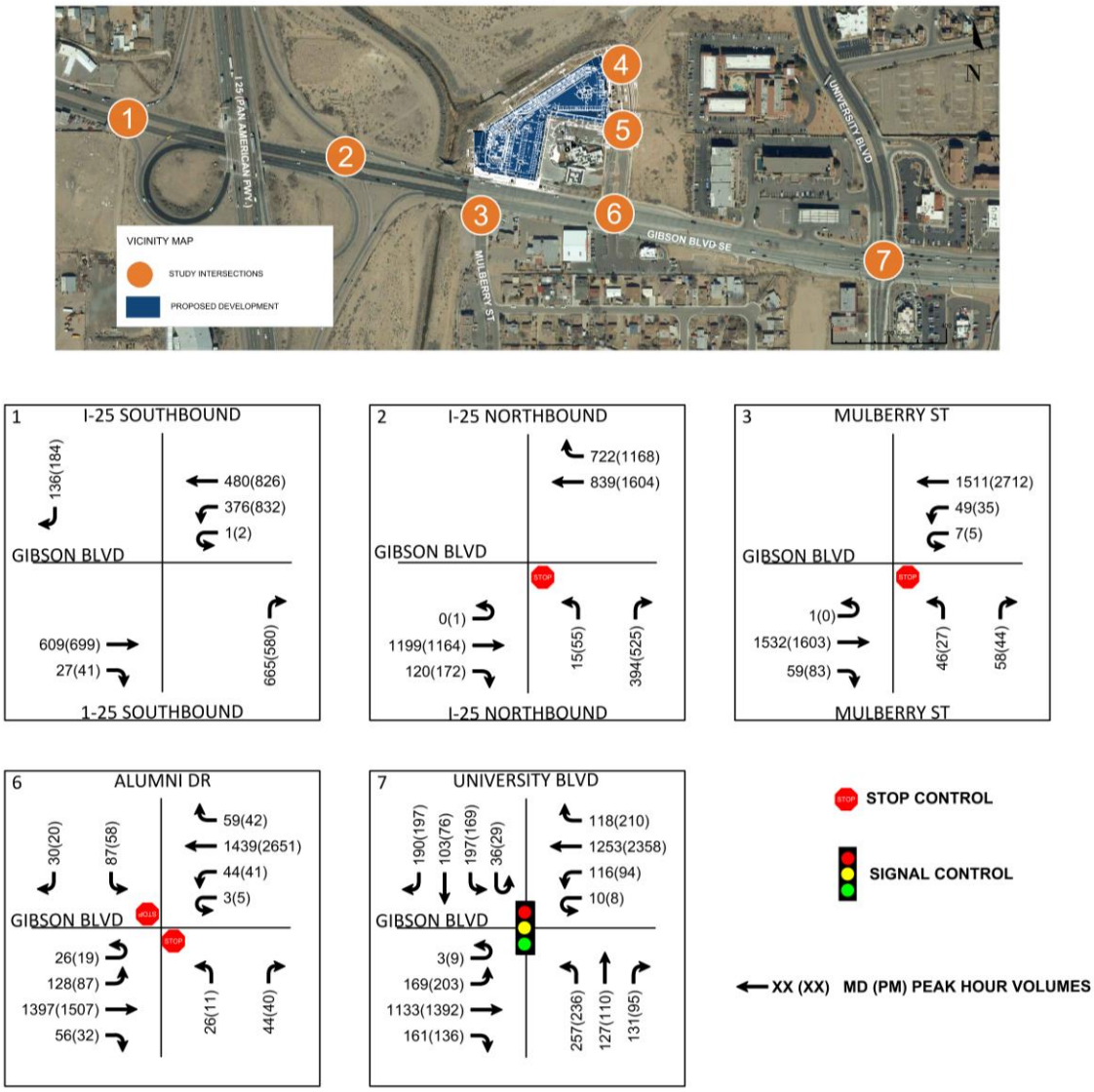


Figure 14: Horizon Year 2036 Background Volumes

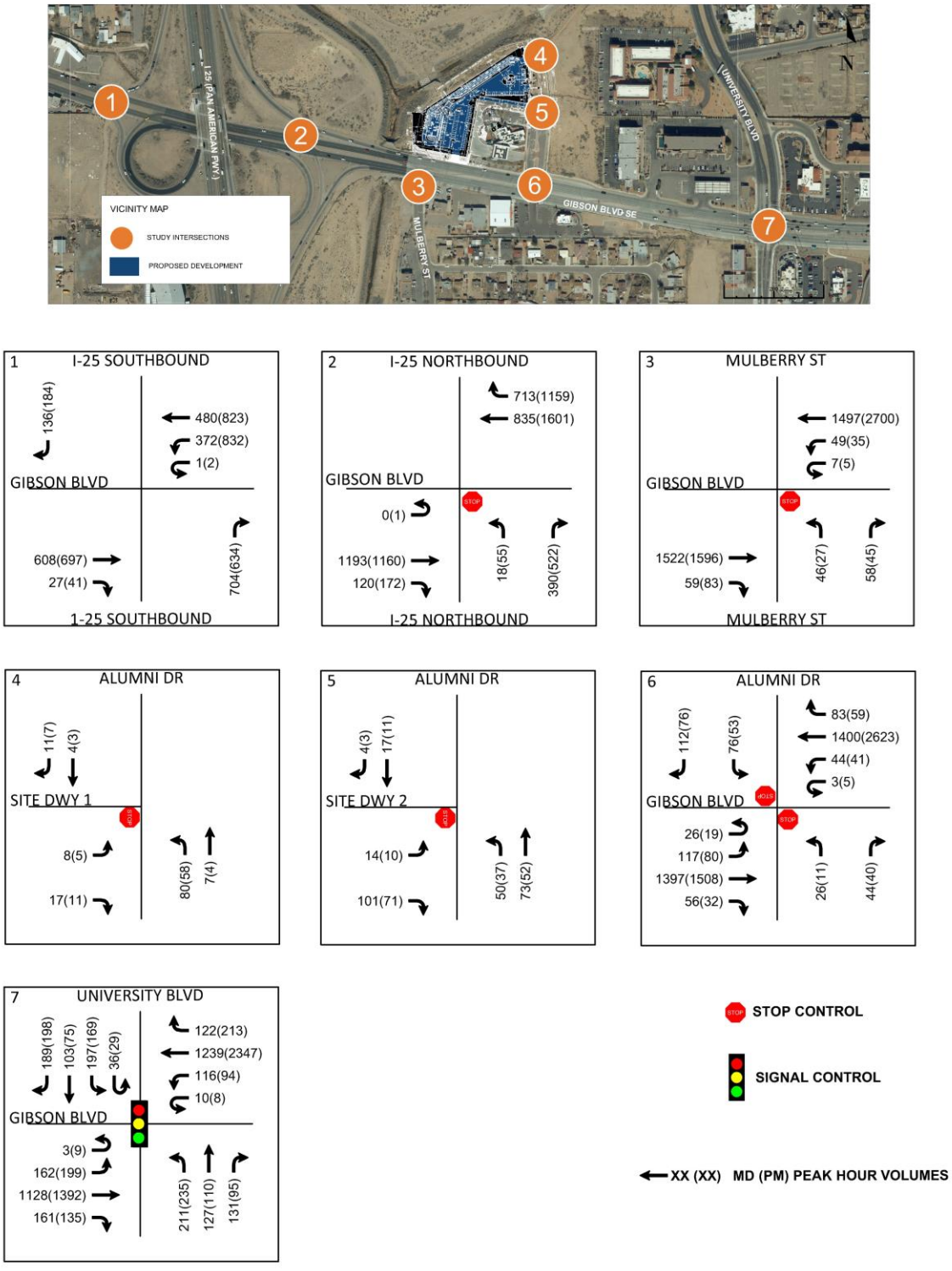


Figure 15: Horizon Year 2036 Full-Build Volumes

SITE CONDITIONS AND SITE ANALYSIS

ASSUMPTIONS

The following assumptions regarding new developments in the roadway network were made for the Build-Out Year scenarios based on the information discussed in the scoping meeting:

- Alumni Drive is assumed to be extended north of its current location through a project designed and funded by the University of New Mexico. Site Driveways 1 and 2 will be constructed on the west side of the new segment of Alumni Drive.
- The Gibson Boulevard and I-25 Interchange is currently being redesigned by NMDOT. Capacity and queuing issues at the interchange are assumed to be addressed in the future by this reconstruction project. Therefore, mitigations for the interchange are not provided in this analysis.

SITE ACCESS ANALYSIS AND JUSTIFICATION

Site access is to be provided via two driveways on Alumni Drive. CoA Development Process Manual (DPM) requirements were reviewed for the three access driveways. DPM Table 7.4.45 provides a minimum distance between commercial site access points and intersections, and DPM Table 7.4.46 provides the maximum number of commercial site access points per site. The results of this analysis are shown in Table 6.

Table 6: Access Spacing Requirements from CABQ DPM

City of Albuquerque Development Process Manual Recommended Access Spacing							
Site Access	Major Street	Cross Street	Design Speed (MPH)	DPM Table 7.4.45 Minimum Distance Between Commercial Site Access and Intersection		DPM Table 7.4.46 Maximum Number of Commercial Site Access Points Per Site	Distance from Site Access to Intersection
				Approach Distance	Departure Distance		
Driveway 1	Alumni Dr (Local)	Gibson Blvd (Principal Arterial)	30	75 ft	75 ft	---	470
Driveway 2	Alumni Dr (Local)	Gibson Blvd (Principal Arterial)	30	75 ft	75 ft	---	360

Based on the information above, both driveways on Alumni Drive meet COA DPM requirements.

SITE CIRCULATION AND QUEUEING ANALYSIS

In the current Development site plans, queuing space for up to 39 vehicles is provided between the entrance of the development on the east side of the parcel and the drive through window. The trip and queuing data provided for this report from other In-N-Out Burger restaurants shows that the max drive-through queue length during a 15-minute period for any of the locations studied was 25 vehicles. Therefore, the left-turn lane shown in the current Development plans is adequate to accommodate anticipated site trips.

Auxiliary Lane Analysis

Since Alumni Drive is a CoA maintained local street, the CoA DPM was used to analyze the need for left-turn auxiliary turn lanes from Alumni Drive to Site Driveways 1 and 2 in the Build Out Year 2026 scenario. The need for right-turn auxiliary turn lanes from Alumni Drive to Site Driveways 1 and 2 in the Horizon Year were also analyzed, in anticipation of the extension of Alumni Drive. Table 7 provides the thresholds from Table 7.4.67 of the DPM and the warrant results at each driveway.

Table 7: Turn Lane Warrants – City of Albuquerque DPM Requirements

Location	Posted Speed Limit	Movement	Right Turning Volume MD (PM)	DPM Criteria - Turn Volume Per Hour	Turn Lane Warrant Result (DPM)
Site Driveway 1 & Alumni Dr	30 MPH	NBL	87 (63)	40	Required
Site Driveway 2 & Alumni Dr	30 MPH	NBL	58 (42)	40	Required
Site Driveway 1 & Alumni Dr	30 MPH	SBR	11 (7)	50	Not Required
Site Driveway 2 & Alumni Dr	30 MPH	SBR	4 (3)	50	Not Required

Deceleration Lane Lengths

Guidelines in the CoA DPM Chapter 7 state that:

- Where traffic is to be controlled by a traffic signal, the left turn lane should be of sufficient length to store the turning vehicles and clear the equivalent lane volume of all other traffic on the approach, where feasible.
- The total length of the turn lane and taper should accommodate storage requirements plus deceleration and taper. If this is not feasible, the lane should accommodate the 95th percentile queue length.

Table 8 displays the recommended deceleration lengths for each turn lane.

Table 8: Deceleration Lane Lengths

Location	Posted Speed Limit	Movement	Existing or Planned Auxiliary Lane Length	Recommended Auxiliary Lane Lengths Per CoA Guidelines
Site Driveway 1 & Alumni Dr	30 MPH	NBL	160 ft	150 - 150 Reverse Curve
Site Driveway 2 & Alumni Dr	30 MPH	NBL	160 ft	150 - 150 Reverse Curve

The NBL movement from Alumni Drive to Site Driveways 1 and 2 requires deceleration lengths shown in Table 8. The site plan for the proposed Development shows striping for a two-way left-turn lane (TWLTL) in the extended segment of Alumni Drive, and there is 35 feet between the beginning of the TWLTL and

Site Driveway 2. There is 160 feet between the beginning of the TWLTL and Site Driveway 1. The Full-Build 95th percentile queue length for the NBL movements at each driveway is less than one vehicle length and could be accommodated in the space provided in the current plans.

Site Driveways Sight Distance

The following presents a narrative detailing the development's recommended intersection sight distance requirements. Intersection sight distance requirements were calculated using the 2018 AASHTO "Green Book" chapter 9.5. Two sight distance cases were used for this analysis:

- Case B1 – A stopped vehicle turning left from a minor street approach onto a major road.
- Case B2 – A stopped vehicle turning right from a minor street approach onto a major road.

The intersection sight distance for Case B2 at all access driveways was calculated based on the assumption that the design vehicle turns into the nearest traffic lane. A passenger vehicle was used as the design vehicle. The required sight distance values provided in Table 9 rounded up to the nearest 5-foot increment. Formulas, values, and calculations used in the sight distance analysis can be found in Appendix F.

Table 9: Required Sight Distance Values

Access Location	Posted Speed Limit (MPH)	Case	Required Sight Distance (FT)
Site Driveway 1 & Alumni Drive	30	B1	355
		B2	290
Site Driveway 2 and Alumni Drive	30	B1	355
		B2	290

Using the values shown above, all development driveways are recommended to adhere to the sight distance provisions detailed in the AASHTO "Green Book," and CABQ DPM Section 7-4(I)(5)(iii). An area bounded by the above sight distances with the decision point placed 14.5 feet back from the edge of the shoulder midway between the outbound driving lane should be maintained clear of any obstructions.

Since the section of Alumni Drive where Site Driveway's 1 and 2 are planned is not constructed yet, no measurements of existing sight distance could be collected. When this section of Alumni Drive is constructed, an area bounded by the above sight distance of 290 feet for right-turning vehicles should be kept clear of any obstructions. When Alumni Drive is extended beyond the northern barrier shown in the site plans, and left-turns can be made from Site Driveways 1 and 2, the required 355 feet of sight distance should be kept clear of any obstructions.

TRAFFIC ANALYSIS

Highway Capacity Software (HCS) was used to analyze each study intersection for Level of Service (LOS) and 95th percentile queueing conditions. HCS implements methods and procedures detailed by the Highway Capacity Manual (HCM). Detailed capacity output sheets showing all individual movements can be found in Appendix D.

LOS, Capacity, and Queuing Analysis

Per the HCM, LOS is presented as a letter grade (A through F) based on the calculated average delay for an intersection or movement. Delay is calculated as a function of several variables, including signal phasing operations, cycle length, traffic volumes, and opposing traffic volumes, but it is a measurement of the average wait time a driver can expect when moving through an intersection. Factors such as total cycle time (for all movements), queueing restrictions, and vehicle volumes can affect measurements of delay, especially for lower-volume movements and side streets. Generally, these factors are only realized when delays reach or exceed LOS E thresholds. In such cases, a narrative is offered in subsequent sections specific to the individual movement in question.

Table 10 and Table 11, reproduced from the HCM, show delay thresholds and the associated Level of service assigned to delay ranges for signalized intersections and stop-controlled intersections, respectively. Generally, a LOS of D or better is considered an acceptable level of service.

Table 10: LOS Criteria and Descriptions for Signalized Intersections

Level of service	Average Control Delay (sec/vehicle)	General Description (Signalized Intersections)
A	≤10	Free flow
B	>10 – 20	Stable flow (slight delays)
C	>20 – 35	Stable flow (acceptable delays)
D	>35 – 55	Approaching unstable flow (tolerable delay, occasionally wait through more than one signal cycle before proceeding)
E	>55 – 80	Unstable flow (intolerable delay)
F	>80	Forced flow (jammed)

Table 11: LOS Criteria for Unsignalized Intersections

Level of service	Average Control Delay (sec/vehicle)
A	≤10
B	>10 – 15
C	>15 – 25
D	>25 – 35
E	>35 – 50
F	>50

Queueing is reported in feet for all intersections with queue lengths greater than one vehicle, with a base assumption of 25 feet queue length per vehicle. Queues are reported for queue measurements falling within the 95th percentile. It should be noted that 95th percentile queues are statistically expected to occur during only 5% of the peak hour's sign cycles. It is also noted that unreported average queueing at an intersection would statistically be much shorter than 95th-percentile queueing.

The volume-to-capacity (V/C) ratio is a performance measure that shows the ratio of traffic volume to the lane group capacity. A V/C ratio greater than 1.00 indicates that demand creates a residual queue for the analysis period.

For the purposes of this analysis, acceptable levels of service (LOS) are defined to be a LOS D or better. Based on procedures outlined in the HCM, intersection delay and level of service for stop-controlled intersections are reported as the delay and level of service for the worst-case movement at each intersection. For all other control types, they are taken for the whole intersection. Detailed output sheets can be found in Appendix D.

EXISTING YEAR 2024 CONDITIONS

Table 12 summarizes the intersection delay, level of service, and queueing under Existing Year 2024 conditions. The following conclusions are made from the Existing Conditions analysis:

Delay and LOS Results

At all other intersections where LOS results are present, all movements operate at acceptable LOS during the MD and PM peaks except:

- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
    - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
    - NBR operates at LOS E during the PM peak hour.

- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
    - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.

- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
    - SBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.

- At the signalized intersection of Gibson Boulevard and University Boulevard
    - SBL operates at LOS E during the PM peak hour.
    - SBR operates at LOS E during the PM peak hour.

Queuing Results

At all intersections where queue length results are present, existing storage lengths are sufficient to accommodate 95th percentile queue lengths except:

- At the signalized intersection of Gibson Boulevard and University Boulevard
    - The SBR lane is not expected to accommodate the 95th percentile queue lengths during the MD and PM peak hours.

Table 12: HCM Results for Existing Year (2024) Conditions

Gibson Blvd & I-25 SB Ramps (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBR	180.0	0.76	23.2	C	23.2	C
	SBR	<1 Veh	0.17	10.4	B		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	30.0	0.29	10.0	A		
	WBT	---	---	---	---		
PM Peak	NBR	172.5	0.75	23.9	C	23.9	C
	SBR	32.5	0.30	13.2	B		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	197.5	0.77	20.2	C		
	WBT	---	---	---	---		

Gibson Blvd & I-25 NB Ramps (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	<1 Veh	0.11	37.0	E	37.0	E
	NBR	87.5	0.56	19.7	C		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBT	---	---	---	---		
PM Peak	NBL	95.0	0.83	178.0	F	178.0	F
	NBR	217.5	0.84	37.8	E		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBT	---	---	---	---		

Gibson Blvd & Mulberry St (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	25.0	0.27	36.4	E	36.4	E
	NBR	<1 Veh	0.13	15.9	C		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.14	18.1	C		
	WBT	---	---	2.4	A		
PM Peak	NBL	<1 Veh	0.25	50.9	F	50.9	F
	NBR	<1 Veh	0.12	17.4	C		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.13	20.9	C		
	WBT	---	---	2.7	A		

Gibson Blvd & Alumni Dr (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL/R	35.0	0.34	33.7	D	47.9	E
	SBL	<1 Veh	0.02	47.9	E		
	SBR	<1 Veh	0.01	14.9	B		
	EBL	<1 Veh	0.06	13.5	B		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.14	18.4	C		
	WBT	---	---	---	---		
	WBR	---	---	---	---		
PM Peak	NBL/R	27.5	0.27	33.5	D	282.2	F
	SBL	<1 Veh	0.00	282.2	F		
	SBR	<1 Veh	0.01	28.9	D		
	EBL	<1 Veh	0.13	33.0	D		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.15	20.6	C		
	WBT	---	---	---	---		
	WBR	---	---	---	---		

Gibson Blvd & University Blvd (Signalized)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	23.1	0.52	40.0	D	20.0	B
	NBT/R	194.3	0.41	37.5	D		
	SBL	209.0	0.65	50.5	D		
	SBT	92.9	0.26	45.0	D		
	SBR	161.7	0.52	47.3	D		
	EBL	61.5	0.34	10.2	B		
	EBT	161.3	0.28	12.7	B		
	EBR	70.2	0.14	11.6	B		
	WBL	47.8	0.24	10.0	B		
	WBT	203.3	0.35	13.8	B		
	WBR	55.6	0.11	11.8	B		
PM Peak	NBL	198.7	0.46	42.1	D	21.9	C
	NBT/R	170.0	0.33	40.1	D		
	SBL	200.4	0.63	56.4	E		
	SBT	76.6	0.23	50.9	D		
	SBR	195.4	0.66	55.1	E		
	EBL	150.1	0.79	26.3	C		
	EBT	222.8	0.36	13.3	B		
	EBR	61.9	0.12	11.2	B		
	WBL	43.6	0.25	10.9	B		
	WBT	475.4	0.67	19.7	B		
	WBR	114.4	0.20	13.2	B		

BUILD-OUT YEAR (2026) BACKGROUND CONDITIONS

Table 13 summarizes the intersection delay, level of service, and queueing under Build-Out Year 2026 Background conditions. The following conclusions are made for the Build-Out Year Background analysis:

Delay and LOS Results

At all other intersections where LOS results are present, all movements operate at acceptable LOS during the MD and PM peaks except:

- At the stop-controlled intersection of Gibson Boulevard and I-25 SB Off-Ramp
  - NBR operates at LOS E during the MD peak hour.

- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
  - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
  - NBR operates at LOS F during the PM peak hour.

- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
  - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.

- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
  - NBL/R operates at LOS F during the MD and PM peak hours.
  - SBL operates at LOS F during the MD and PM peak hours.
  - EBL operates at LOS F during the PM peak hours.

- At the signalized intersection of Gibson Boulevard and University Boulevard
  - SBL operates at LOS E during the PM peak hour.

Queuing Results

At all intersections where queue length results are present, existing storage lengths are sufficient to accommodate 95th percentile queue lengths.

Table 13: HCM Results for Build-Out Year (2026) Background Conditions

Gibson Blvd & I-25 SB Ramps (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBR	275.0	0.88	35.2	E	35.2	E
	SBR	<1 Veh	0.18	10.6	B		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	37.5	0.34	10.7	B		
	WBT	---	---	---	---		
PM Peak	NBR	235.0	0.84	32.2	D	32.2	D
	SBR	32.5	0.31	13.5	B		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	275.0	0.86	28.7	D		
	WBT	---	---	---	---		

Gibson Blvd & I-25 NB Ramps (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	<1 Veh	0.14	48.0	E	48.0	E
	NBR	135.0	0.70	27.4	D		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBT	---	---	---	---		
PM Peak	NBL	115.0	1.06	278.2	F	278.2	F
	NBR	327.5	0.99	66.1	F		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBT	---	---	---	---		

Gibson Blvd & Mulberry St (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	35.0	0.35	49.1	E	49.1	E
	NBR	<1 Veh	0.16	17.8	C		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.19	21.6	C		
	WBT	---	---	3.6	A		
PM Peak	NBL	27.5	0.30	64.2	F	64.2	F
	NBR	<1 Veh	0.14	19.2	C		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.17	24.4	C		
	WBT	---	---	4.0	A		

Gibson Blvd & Alumni Dr (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL/R	60.0	0.52	61.4	F	119.7	F
	SBL	65.0	0.61	119.7	F		
	SBR	<1 Veh	0.09	16.2	C		
	EBL	<1 Veh	0.22	19.9	C		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.17	21.1	C		
	WBT	---	---	---	---		
	WBR	---	---	---	---		
PM Peak	NBL/R	62.5	0.55	88.7	F	1632.4	F
	SBL	115.0	2.93	1632.4	F		
	SBR	<1 Veh	0.15	34.2	D		
	EBL	67.5	0.60	97.5	F		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.18	23.2	C		
	WBT	---	---	---	---		
	WBR	---	---	---	---		

Gibson Blvd & University Blvd (Signalized)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	37.0	0.52	38.9	D	20.9	C
	NBT/R	206.0	0.42	36.1	D		
	SBL	228.0	0.67	49.4	D		
	SBT	96.0	0.25	43.1	D		
	SBR	171.0	0.50	45.5	D		
	EBL	70.0	0.39	11.6	B		
	EBT	205.0	0.35	14.5	B		
	EBR	79.0	0.15	12.9	B		
	WBL	54.0	0.29	11.5	B		
	WBT	232.0	0.39	15.6	B		
	WBR	62.0	0.12	13.1	B		
PM Peak	NBL	207.0	0.47	40.9	D	23.4	C
	NBT/R	182.0	0.34	39.0	D		
	SBL	216.0	0.65	55.6	E		
	SBT	79.0	0.22	49.5	D		
	SBR	203.0	0.64	53.7	D		
	EBL	155.0	0.86	30.2	C		
	EBT	259.0	0.41	14.8	B		
	EBR	67.0	0.12	12.1	B		
	WBL	48.0	0.29	12.2	B		
	WBT	527.0	0.72	22.1	C		
	WBR	123.0	0.21	14.3	B		

BUILD-OUT YEAR (2026) FULL-BUILD CONDITIONS

Table 14 summarizes the intersection delay, level of service, and queueing under Build-Out Year 2026 Full-Build conditions. The following conclusions are made for the Build-Out Year Full-Build analysis:

Delay and LOS Results

At all other intersections where LOS results are present, all movements operate at acceptable LOS during the MD and PM peaks except:

- At the stop-controlled intersection of Gibson Boulevard and I-25 SB Off-Ramp
  - NBR operates at LOS E during the MD and PM peak hours.
- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
  - NBL operates at LOS F during the MD and PM peak hours.
  - NBR operates at LOS F during the PM peak hour.
- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
  - NBL operates at LOS F during the MD and PM peak hours.
- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
  - NB L/R operates at LOS F during the MD peak hour.
  - SBL operates at LOS F during the MD and PM peak hours.
  - EBL operates at LOS E during the MD peak hour and LOS F during the PM peak hour.
- At the signalized intersection of Gibson Boulevard and University Boulevard
  - SBL operates at LOS E during the PM peak hour.
  - SBR operates at LOS E during the PM peak hour.

Queuing Results

At all intersections where queue length results are present, existing storage lengths are sufficient to accommodate 95th percentile queue lengths.

Table 14: HCM Results for Build-Out Year (2026) Full-Build Conditions

Gibson Blvd & I-25 SB Ramps (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBR	345.0	0.95	46.4	E	46.4	E
	SBR	<1 Veh	0.18	10.6	B		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	47.5	0.40	11.6	B		
	WBT	---	---	---	---		
PM Peak	NBR	272.5	0.89	37.9	E	37.9	E
	SBR	32.5	0.31	13.6	B		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	322.5	0.91	34.3	D		
	WBT	---	---	---	---		

Gibson Blvd & I-25 NB Ramps (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	<1 Veh	0.16	55.1	F	55.1	F
	NBR	170.0	0.77	34.0	D		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBT	---	---	---	---		
PM Peak	NBL	122.5	1.16	326.4	F	326.4	F
	NBR	382.5	1.05	84.0	F		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBT	---	---	---	---		

Gibson Blvd & Mulberry St (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	40.0	0.39	57.6	F	57.6	F
	NBR	<1 Veh	0.17	18.7	C		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.21	23.6	C		
	WBT	---	---	4.4	A		
PM Peak	NBL	30.0	0.32	70.8	F	70.8	F
	NBR	<1 Veh	0.15	19.9	C		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.18	26.0	D		
	WBT	---	---	4.6	A		

Gibson Blvd & Alumni Dr (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL/R	147.5	1.27	345.4	F	1038.4	F
	SBL	257.5	2.72	1038.4	F		
	SBR	40.0	0.36	21.0	C		
	EBL	87.5	0.59	37.1	E		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.16	20.9	C		
	WBT	---	---	---	---		
	WBR	---	---	---	---		
PM Peak	NBL/R	---	---	---	---	1818.8	F
	SBL	210.0	3.94	1818.8	F		
	SBR	<1 Veh	0.15	34.6	D		
	EBL	242.5	1.67	463.2	F		
	EBT	---	---	---	---		
	EBR	---	---	---	---		
	WBL	<1 Veh	0.18	23.1	C		
	WBT	---	---	---	---		
	WBR	---	---	---	---		

Gibson Blvd & University Blvd (Signalized)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	54.0	0.58	42.4	D	20.1	C
	NBT/R	211.5	0.45	38.4	D		
	SBL	200.7	0.63	50.7	D		
	SBT	93.5	0.27	45.4	D		
	SBR	189.5	0.61	48.7	D		
	EBL	67.0	0.40	10.5	B		
	EBT	197.1	0.34	12.9	B		
	EBR	77.7	0.16	11.5	B		
	WBL	46.3	0.26	10.3	B		
	WBT	225.2	0.38	14.2	B		
	WBR	56.2	0.11	11.7	B		
PM Peak	NBL	213.4	0.50	43.0	D	22.3	C
	NBT/R	186.7	0.37	40.9	D		
	SBL	191.3	0.62	56.6	E		
	SBT	77.1	0.24	51.5	D		
	SBR	214.5	0.75	57.1	E		
	EBL	158.9	0.85	29.7	C		
	EBT	248.6	0.40	13.4	B		
	EBR	66.1	0.13	11.0	B		
	WBL	41.1	0.26	11.1	B		
	WBT	508.8	0.70	20.3	C		
	WBR	114.2	0.20	13.0	B		

Alumni Dr & Site DWY 1 (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	<1 Veh	0.08	8.4	A	9.0	A
	EBR	<1 Veh	0.01	9.0	A		
PM Peak	NBL	<1 Veh	0.06	8.3	A	9.0	A
	EBR	<1 Veh	0.02	9.0	A		

Alumni Dr & Site DWY 2 (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	<1 Veh	0.02	7.4	A	10.1	A
	NBT	---	---	---	---		
	SBT	---	---	---	---		
	EBL	<1 Veh	0.00	10.1	A		
	EBR	<1 Veh	0.12	8.9	A		
PM Peak	NBL	<1 Veh	0.02	7.3	A	9.6	A
	NBT	---	---	---	---		
	SBT	---	---	---	---		
	EBL	<1 Veh	0.00	9.6	A		
	EBR	<1 Veh	0.08	8.7	A		

HORIZON YEAR (2036) BACKGROUND CONDITIONS

Table 15 summarizes the intersection delay, level of service, and queueing under Horizon Year 2036 Background conditions. The following conclusions are made for the Horizon Year analysis:

Delay and LOS Results

At all other intersections where LOS results are present, all movements operate at acceptable LOS during the MD and PM peaks except:

- At the stop-controlled intersection of Gibson Boulevard and I-25 SB Off-Ramp
  - NBR operates at LOS E during the MD and PM peak hours.
  - WBL operates at LOS F during the PM peak hour.
- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
  - NBL operates at LOS F during the MD and PM peak hours.
  - NBR operates at LOS E and LOS F during the MD and PM peak hours, respectively.
- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
  - NBL operates at LOS F during the MD and PM peak hours.
- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
  - NBL/R operates at LOS F during the MD and PM peak hours.
  - SBL operates at LOS F during the MD and PM peak hours.
  - SBR operates at LOS E during the PM peak hour.
  - EBL operates at LOS F during the PM peak hour.

Queuing Results

At all intersections where queue length results are present, existing storage lengths are sufficient to accommodate 95th percentile queue lengths.

Table 15: HCM Results for Horizon Year (2036) Background Conditions

Gibson Blvd & I-25 SB Ramps (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS		Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBR	337.5	0.95	46.8	E	46.8	E	PM Peak	NBR	292.5	0.91	43.1	E	67.0	F
	SBR	<1 Veh	0.19	10.8	B				SBR	37.5	0.34	14.5	B		
	EBT	---	---	---	---				EBT	---	---	---	---		
	EBR	---	---	---	---				EBR	---	---	---	---		
	WBL	50.0	0.41	12.0	B				WBL	512.5	1.05	67.0	F		
	WBT	---	---	---	---				WBT	---	---	---	---		

Gibson Blvd & I-25 NB Ramps (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS		Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	<1 Veh	0.20	65.1	F	65.1	F	PM Peak	NBL	157.5	1.65	568.3	F	568.3	F
	NBR	200.0	0.83	41.0	E				NBR	505.0	1.18	130.9	F		
	EBT	---	---	---	---				EBT	---	---	---	---		
	EBR	---	---	---	---				EBR	---	---	---	---		
	WBT	---	---	---	---				WBT	---	---	---	---		

Gibson Blvd & Mulberry St (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS		Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	50.0	0.47	70.8	F	70.8	F	PM Peak	NBL	42.5	0.43	97.0	F	97.0	F
	NBR	<1 Veh	0.19	19.9	C				NBR	<1 Veh	0.18	21.8	C		
	EBT	---	---	---	---				EBT	---	---	---	---		
	EBR	---	---	---	---				EBR	---	---	---	---		
	WBL	<1 Veh	0.25	26.1	D				WBL	<1 Veh	0.22	30.0	D		
	WBT	---	---	5.7	A				WBT	---	---	6.5	A		

Gibson Blvd & Alumni Dr (Stop-Controlled)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS		Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL/R	100.0	0.77	117.7	F	215.6	F	PM Peak	NBL/R	155.0	1.76	643.4	F	656.2	F
	SBL	87.5	0.85	215.6	F				SBL	97.5	1.46	656.2	F		
	SBR	<1 Veh	0.10	17.7	C				SBR	<1 Veh	0.18	43.0	E		
	EBL	27.5	0.27	23.6	C				EBL	97.5	0.86	185.7	F		
	EBT	---	---	---	---				EBT	---	---	---	---		
	EBR	---	---	---	---				EBR	---	---	---	---		
	WBL	<1 Veh	0.21	25.1	D				WBL	<1 Veh	0.24	28.5	D		
	WBT	---	---	---	---				WBT	---	---	---	---		
	WBR	---	---	---	---				WBR	---	---	---	---		

Gibson Blvd & University Blvd (Signalized)

	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS		Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
MD Peak	NBL	98.6	0.57	35.2	D	25.4	C	PM Peak	NBL	251.7	0.55	38.8	D	33.8	C
	NBT/R	239.4	0.43	30.7	C				NBT/R	218.9	0.38	35.5	D		
	SBL	287.1	0.73	48.9	D				SBL	268.2	0.71	54.1	D		
	SBT	116.0	0.23	36.7	D				SBT	99.6	0.22	45.0	D		
	SBR	204.6	0.47	39.2	D				SBR	246.8	0.64	49.7	D		
	EBL	97.8	0.51	17.1	B				EBL	290.7	0.88	50.8	D		
	EBT	267.5	0.44	20.8	C				EBT	327.6	0.49	19.5	B		
	EBR	109.7	0.20	18.2	B				EBR	88.7	0.15	15.4	B		
	WBL	75.5	0.39	16.5	B				WBL	65.8	0.37	16.9	B		
	WBT	306.8	0.50	22.6	C				WBT	784.4	0.93	39.8	D		
	WBR	87.4	0.16	18.5	B				WBR	172.9	0.27	20.4	C		

HORIZON YEAR (2036) FULL-BUILD CONDITIONS

Table 16 summarizes the intersection delay, level of service, and queueing under Horizon Year 2036 Full-Build conditions. Horizon Year 2036 Conditions were analyzed with existing signal timing. The following conclusions are made for the Horizon Year analysis:

Delay and LOS Results

At all intersections where LOS results are present, all movements operate at acceptable LOS during the MD and PM peaks except:

- At the stop-controlled intersection of Gibson Boulevard and I-25 SB Off-Ramp
  - NBR operates at LOS F during the MD and PM peak hours.
- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
  - All movements operate at LOS F during the MD and PM peak hours.
- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
  - NBL operates at LOS F during the MD and PM peak hours.
- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
  - NBL/R operates at LOS F during the MD peak hour.
  - SBL operates at LOS F during the MD and PM peak hours.
  - SBR operates at LOS E during the PM peak hour.
  - EBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.

Queuing Results

At all intersections where queue length results are present, existing storage lengths are sufficient to accommodate 95th percentile queue lengths.

Table 16: HCM Results for Horizon Year (2036) Full-Build Condition

Gibson Blvd & I-25 SB Ramps (Stop-Controlled)

MD Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS	PM Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
	NBR	502.5	1.08	80.5	F	80.5	F		NBR	447.5	1.05	74.7	F	74.7	F
	SBR	<1 Veh	0.19	10.9	B				SBR	37.5	0.34	14.6	B		
	EBT	---	---	---	---				EBT	---	---	---	---		
	EBR	---	---	---	---				EBR	---	---	---	---		
	WBL	---	---	---	---				WBL	---	---	---	---		
	WBT	---	---	---	---				WBT	---	---	---	---		

Gibson Blvd & I-25 NB Ramps (Stop-Controlled)

MD Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS	PM Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
	NBL	25.0	0.28	78.7	F	78.7	F		NBL	162.5	1.79	641.4	F	641.4	F
	NBR	245.0	0.90	52.8	F				NBR	565.0	1.24	154.7	F		
	EBT	---	---	---	---				EBT	---	---	---	---		
	EBR	---	---	---	---				EBR	---	---	---	---		
	WBT	---	---	---	---				WBT	---	---	---	---		

Gibson Blvd & Mulberry St (Stop-Controlled)

MD Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS	PM Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
	NBL	57.5	0.52	83.2	F	83.2	F		NBL	45.0	0.46	107.2	F	107.2	F
	NBR	<1 Veh	0.21	20.9	C				NBR	<1 Veh	0.19	22.6	C		
	EBT	---	---	---	---				EBT	---	---	---	---		
	EBR	---	---	---	---				EBR	---	---	---	---		
	WBL	27.5	0.27	28.5	D				WBL	<1 Veh	0.24	32.0	D		
	WBT	---	---	6.9	A				WBT	---	---	7.5	A		

Gibson Blvd & Alumni Dr (Stop-Controlled)

MD Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS	PM Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
	NBL/R	205.0	2.56	1001.4	F	1694.7	F		NBL/R	---	---	---	---	4227.7	F
	SBL	297.5	3.90	1694.7	F				SBL	230.0	8.23	4227.7	F		
	SBR	<1 Veh	0.36	22.6	C				SBR	<1 Veh	0.18	42.4	E		
	EBL	110.0	0.65	46.4	E				EBL	277.5	1.94	603.9	F		
	EBT	---	---	---	---				EBT	---	---	---	---		
	EBR	---	---	---	---				EBR	---	---	---	---		
	WBL	<1 Veh	0.21	24.9	C				WBL	<1 Veh	0.24	28.3	D		
	WBT	---	---	---	---				WBT	---	---	---	---		
	WBR	---	---	---	---				WBR	---	---	---	---		

Gibson Blvd & University Blvd (Signalized)

MD Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS	PM Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
	NBL	37.0	0.47	32.3	C	25.2	C		NBL	252.4	0.55	38.8	D	35.2	D
	NBT/R	239.4	0.43	30.7	C				NBT/R	218.9	0.38	35.5	D		
	SBL	287.1	0.73	48.9	D				SBL	268.2	0.71	54.1	D		
	SBT	111.4	0.22	36.6	D				SBT	94.3	0.21	44.9	D		
	SBR	212.6	0.49	39.5	D				SBR	253.8	0.66	49.9	D		
	EBL	98.5	0.52	17.3	B				EBL	294.3	0.88	52.0	D		
	EBT	272.4	0.45	20.9	C				EBT	353.0	0.53	22.1	C		
	EBR	116.1	0.21	18.3	B				EBR	99.1	0.17	17.5	B		
	WBL	75.5	0.39	16.6	B				WBL	131.5	0.65	19.6	B		
	WBT	312.1	0.51	22.7	C				WBT	804.9	0.94	40.6	D		
	WBR	87.4	0.16	18.5	B				WBR	174.0	0.27	20.6	B		

Alumni Dr & Site DWY 1 (Stop-Controlled)

MD Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS	PM Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
	NBL	<1 Veh	0.05	7.4	A	9.8	A		SBR	<1 Veh	0.04	7.3	A	9.4	A
	EBL	<1 Veh	0.01	9.8	A				EBT	<1 Veh	0.01	9.4	A		
	EBR	<1 Veh	0.02	8.4	A				WBT	<1 Veh	0.01	8.4	A		

Alumni Dr & Site DWY 2 (Stop-Controlled)

MD Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS	PM Peak	Movement	95% Queue Length (ft/lane)	V/C	Delay (s/veh)	LOS	Intersection Delay	Intersection LOS
	NBL	<1 Veh	0.03	7.4	A	9.9	A		NBL	<1 Veh	0.03	7.3	A	9.5	A
	EBL	<1 Veh	0.02	9.9	A					<1 Veh	0.01	9.5	A		
	EBR	<1 Veh	0.10	8.8	A				EBR	<1 Veh	0.07	8.6	A		

COMPARISON OF BACKGROUND AND FULL-BUILD SCENARIO RESULTS

Based on the results for Existing, Background and Full-Build results for the Build-Out and Horizon Years, capacity and queuing concerns are currently present at the study intersections and, except for the intersection of Gibson Boulevard and Alumni Drive, are not significantly impacted by the proposed Development. The following presents a summary of the differences between Background and Full-Build results for each analysis year.

In the Build-Out Year 2026 scenarios:

- At the intersection of Gibson Boulevard and I-25 SB, the NBR movement changes from LOS D under Background conditions to LOS E under Full-Build conditions. These results are present in the PM peak hour.
- At the intersection of Gibson Boulevard and I-25 NB, the NBL movement change from LOS E under Background conditions to LOS F under Full-Build conditions. These results are present in the MD peak hour.
- At the intersection of Gibson Boulevard and Mulberry Street, the NBL movement changes from LOS E under Background conditions to LOS F under Full-Build conditions. These results are present in the MD peak hour.
- At the intersection of Gibson Boulevard and Alumni Drive, the EBL movement changes from LOS C under Background conditions to LOS E under Full-Build conditions. These results are present in the MD peak hour.
- At the intersection of Gibson Boulevard and University Boulevard, the SBR movement changes from LOS D under Background conditions to LOS E under Full-Build conditions. These results are present in the PM peak hour.

In the Horizon Year 2036 scenarios:

- At the intersection of Gibson Boulevard and I-25 SB, the NBR movement changes from LOS E under Background conditions to LOS F under Full-Build conditions. These results are present in the MD and PM peak hours.
- At the intersection of Gibson Boulevard and I-25 NB, the NBR movement changes from LOS E under Background conditions to LOS F under Full-Build conditions. These results are present in the MD peak hour.
- At the intersection of Gibson Boulevard and Alumni Drive, the EBL movement changes from LOS C under Background conditions to LOS E under Full-Build conditions. These results are present in the MD peak hour.
- At the intersection of Gibson Boulevard and University Boulevard, the EBL movement changes from LOS C under Background conditions to LOS E under Full-Build conditions. These results are present in the MD peak hour.

INTERSECTION CAPACITY MITIGATIONS

GIBSON BOULEVARD

The Gibson Boulevard and I-25 interchange and the intersections of Gibson Boulevard and Mulberry Street, Gibson Boulevard and Alumni Drive, and Gibson Boulevard and University Boulevard experience capacity and queueing issues in the Existing and Build-Out Year 2026 Background scenarios.

The Gibson Boulevard and I-25 interchange is currently being redesigned by the NMDOT, and traffic operations are expected to improve when reconstruction is complete. Therefore, no mitigations for the interchange are provided in this report.

The minor street stop-controlled intersections Gibson Boulevard and Mulberry Street and Gibson Boulevard and Alumni Drive are too close to the interchange to be signalized. At Mulberry Street, capacity and queuing issues are only present on the stop-controlled approach and do not affect operations on Gibson Boulevard. Therefore, no mitigations are recommended in this report.

At Alumni Drive, in addition to the northbound and southbound movements, the eastbound left turn movement is expected to experience delays and queuing issues. These issues are present in the Background 2026 traffic scenario and are not triggered by the proposed development. When Alumni Drive is extended to Avenida Caesar Chavez, and traffic can travel to and from the north on Alumni Drive, delay and queuing at Alumni Drive and Gibson Boulevard is expected to decrease. The existing left-turn lane for the EBL movement at the intersection is sufficient to accommodate the 95th Percentile queue lengths in every scenario; therefore, the delay for this movement is not anticipated to affect operations for through traffic on Gibson Boulevard.

CRASH DATA SUMMARY

At the request of the NMDOT, a crash summary for the major intersections within the study area has been completed. The purpose of this analysis is to highlight trends and observations from summarized crash data. Crash data provided by the New Mexico Department of Transportation (NMDOT) for the years 2017 to 2021 is summarized in Table 17.

Table 17: Crash Summary

Crash Summary		Gibson Blvd & I-25 NB	Gibson Blvd & I-25 SB	Gibson Blvd & Alumni Dr	Gibson Blvd & Mulberry St	Gibson Blvd & University Blvd
Total Crashes		**151**	**50**	**9**	**57**	**162**
	2018	35	16	1	14	42
	2019	34	11	2	12	40
	2020	24	7	1	12	23
	2021	41	8	5	10	36
	2022	17	8	0	9	21
Crash Type	Fixed Object - Barricade	1	1	0	0	1
	Fixed Object - Guard or Reflector Posts	1	0	0	0	0
	Fixed Object - Guard Rail	3	0	0	0	0
	Fixed Object - Light Standard (Light Pole)	3	1	0	0	0
	Fixed Object - Median Raised Or Curb	3	0	0	1	0
	Fixed Object - Roadway Divider - Concrete Jersey Bounce	0	1	0	0	0
	Fixed Object - Sign or Sign Post (Traffic)	0	1	0	0	0
	Fixed Object - Unknown/Not Stated	2	0	1	0	0
	Non-Collision - All Other/Not Stated	1	0	0	0	0
	Non-Collision - Vehicle Downhill Into Canyon/Ravine	1	0	0	0	0
	Other Object - All Other	0	0	0	0	1
	Other Object - Object Dropped From Vehicle - Furniture	0	1	0	0	0
	Other Object - Unknown/Not Stated	2	2	0	0	0
	Other Vehicle - Both Going Straight/Entering At Angle	9	6	0	5	11
	Other Vehicle - Both Turn Left/Entering At Angle	0	0	0	0	1
	Other Vehicle - From Opposite Direction	18	4	0	8	18
	Other Vehicle - From Opposite Direction/Both Going Straight	1	0	0	0	2
	Other Vehicle - From Opposite Direction/One Left Turn	1	0	1	1	5
	Other Vehicle - From Opposite Direction/One Right Turn	1	0	0	0	0
	Other Vehicle - From Same Direction/All Others	0	0	0	0	1
	Other Vehicle - From Same Direction/Both Going Straight	9	8	0	3	13
	Other Vehicle - From Same Direction/One Left Turn	0	0	0	1	0
	Other Vehicle - From Same Direction/One Right Turn	0	0	0	1	1
	Other Vehicle - From Same Direction/One Stopped	0	1	0	0	1
	Other Vehicle - From Same Direction/One Vehicle Spun On Roadway Before Being Hit	1	0	0	0	0
	Other Vehicle - From Same Direction/Rear End Collision	12	2	1	4	24
	Other Vehicle - From Same Direction/Sideswipe Collision	10	3	1	1	2
	Other Vehicle - From Same Direction/Vehicle Backing	1	0	0	0	1
	Other Vehicle - One Left Turn/Entering At Angle	2	0	0	1	7
	Other Vehicle - One Right Turn/Entering At Angle	0	0	0	2	0
	Other Vehicle - One Stopped/Entering At Angle	0	0	0	0	1
	Other Vehicle - One Vehicle/Making A U-Turn	0	0	0	1	0

	Other Vehicle - Vehicle Wrong Way On Divided Hwy - Other Improper Entry	1	0	0	0	0
	Overturn/Rollover - Left Side of Road	1	0	0	0	0
	Overturn/Rollover - Right Side of Road	1	0	0	0	0
	Pedestrian Collision - Vehicle Going Straight	0	0	0	0	2
	Pedestrian Collision - Vehicle Turning Right	0	0	0	0	1
	Rollover - Left Side of Road	1	0	0	0	0
	Rollover - On The Road	1	0	0	0	0
	Vehicle On Other Roadway - Not Stated	0	0	0	3	0
	Vehicle Struck Pedalcyclist At Angle	0	0	0	0	1
	%Other Vehicle - From Same Direction/Rear End Collision	8%	4%	11%	7%	15%
	%Other Vehicle - From Opposite Direction	12%	8%	0%	14%	11%
	%Other Vehicle - From Same Direction/Both Going Straight	6%	16%	0%	5%	8%
Lighting Conditions	Daylight	95	30	5	38	109
	Dark-Lighted	29	12	3	7	28
	Dark-Not Lighted	6	2	0	2	2
	Dusk/Dawn	0	0	0	0	0
	%Daylight	63%	60%	56%	67%	67%
	%Dark-Lighted	19%	24%	33%	12%	17%
Severity	Fatal Crash (K)	3	0	0	0	0
	Suspected Serious Injury (A)	4	1	1	1	6
	Suspected Minor Injury (B)	5	1	0	4	9
	Complaint of Injury (C)	20	8	3	13	35
	Property Damage Only Crash (O)	120	41	6	40	113
	%Suspected Minor Injury	3%	2%	0%	7%	6%
	%Complaint of Injury	13%	16%	33%	23%	83%
	%Property Damage Only Crash	79%	82%	67%	70%	70%
Bike/Ped Involvement	Pedestrian Involved	1	0	0	0	3
	Pedalcycle Involved	0	0	0	0	1
	%Pedestrian Involved	1%	0%	0%	0%	2%
	%Pedalcycle Involved	0%	0%	0%	0%	1%
Contributing Factors	Avoid No Contact Other	4	1	0	0	1
	Avoid No Contact Vehicle	8	5	0	3	5
	Cell Phone	0	0	0	0	1
	Defective Steering	0	1	0	0	0
	Defective Tires	1	1	0	0	0
	Disregarded Traffic Signal	0	0	0	0	14
	Driver Inattention	76	25	6	25	95
	Driverless Moving Vehicle	0	0	0	0	0
	Drove Left Of Center	2	1	0	1	0
	Excessive Speed	20	5	1	11	11
	Failed To Yield For Emergency Vehicle	0	0	0	1	0
	Failed To Yield For Police Vehicle	1	0	0	0	0
	Failed To Yield Right Of Way	17	1	1	15	26
	Following Too Closely	23	10	1	5	22
	High Speed Pursuit	0	0	0	1	0
	Improper Backing	0	0	0	0	3
	Improper Lane Change	13	6	1	8	7
	Improper Overtaking	5	0	0	2	6
	Inadequate Brakes	3	1	0	0	5
	Low Visibility Due To Smoke	0	0	0	0	0
	Made Improper Turn	5	1	1	5	13
	None	49	28	2	14	82

	Other Improper Driving	18	7	0	2	9
	Other Mechanical Defect	4	0	0	1	1
	Other, No Driver Error	57	18	5	24	65
	Passed Stop Sign	0	0	0	1	1
	Pedestrian Error	0	0	0	0	2
	Road Defect	2	0	0	0	1
	Speed Too Fast For Conditions	7	4	0	1	4
	Texting	0	0	0	0	1
	Traffic Control Missing	0	0	0	0	0
	Under The Influence Of Drugs	1	0	0	1	0
	Under The Influence Of Alcohol	8	1	0	1	7
	Vehicle Skidded Before Braking	2	0	0	1	1
	Animal(S) In Roadway	0	1	0	0	0
	Backup - Prior Crash	0	0	0	0	0
	Backup - Prior Incident	0	0	0	0	0
	Traffic Congestion	0	0	0	0	0
	Coupling Device (Hitch, Chains)	0	0	0	0	0
	Debris	1	0	0	0	0
	Exhaust System	1	0	0	0	0
	Low Visibility Due To Glare	0	0	0	0	0
	Lights (Head, Signal, Tail)	0	0	0	1	0
	Mirrors	0	0	0	0	0
	Driver Distracted By Other Activity	2	1	1	0	3
	Driver Distracted By Passenger	1	0	0	0	1
	Obstruction In Road	3	0	0	1	0
	Road Surface Conditions	6	4	0	0	1
	Suspension	0	0	0	0	0
	Driver Distracted By Talking On Hands-Free Device	0	0	0	0	0
	Driver Distracted By Talking On Cell Phone	0	0	0	0	0
	Other Visual Obstruction(S)	3	0	0	1	0
	Weather Conditions	4	3	0	0	1
	Wheels	0	2	0	0	0
	Windows/Windshield	0	0	0	0	0
	Wipers	0	0	0	0	0
	%Driver Inattention	50%	50%	67%	44%	59%
	%None	32%	56%	22%	25%	51%
	%Other, No Driver Error	38%	36%	56%	42%	40%

From the table, the following observations are made:

- For the intersection of Gibson Boulevard and I-25 Southbound:
  - Within the years 2018 to 2022, 50 crashes were reported.
  - The most common crash types were Other Vehicle – From Same Direction/ Both Going Straight and Other Vehicle - Both Going Straight/Entering At Angle.
  - 60% of reported crashes occurred during daylight hours and 24% occurred during Dark-Lighted conditions.
  - No fatal crashes were reported from 2018 to 2022.
  - 2 Injury Crashes were reported; 41 crashes were classified as Property Damage Only.
  - The most common contributing factor was Driver Inattention.
  - No pedestrian-involved or bicyclist-involved crashes were reported from 2019 to 2021.
- For the intersection of Gibson Boulevard and I-25 Northbound

- Within the years 2018 to 2022, 151 crashes were reported.
- The most common crash types were Other Vehicle – From Opposite Direction and Other Vehicle - From Same Direction/Rear End Collision.
- 63% of reported crashes occurred during daylight hours and 19% occurred during Dark-Lighted conditions.
- 3 fatal crashes were reported from 2018 to 2022.
    - The reported fatal pedestrian-involved crash occurred on September 1st, 2022, at 2:00 AM. The crash was reported in clear, Dark Not-Lighted conditions. The contributing factor was listed as Other-None. The crash resulted in one pedestrian fatality.
    - The reported fatal crash occurred August 8th, 2020, at 1:00 AM. The crash was reported to be clear, Dark-Lighted conditions. The contributing factors were reported as Under the Influence of Alcohol and Drove Left of Center. The crash resulted in one fatality.
    - The reported fatal crash occurred January 1st, 2021, at 5:00 PM. The crash was reported in clear, Dusk conditions. The contributing factor was reported as Failed to Yield Right of Way. One fatality was reported.
- 9 Injury crashes were reported.
- The most common contributing factors were Driver Inattention, None, and Other – No Driver Error.
- 1 fatal pedestrian-involved crash was reported (Described above).

- For the intersection of Gibson Boulevard and Alumni Drive:
    - Within the years 2018 to 2022, 9 crashes were reported.
    - The most common crash types were Other Vehicle - From Same Direction/Rear End Collision and Other Vehicle - From Opposite Direction/One Left Turn.
    - 56% of reported crashes occurred during daylight hours and 33% occurred during Dark-Lighted conditions.
    - No fatal crashes were reported from 2018 to 2022.
    - 1 Injury crash was reported; 6 crashes were classified as Property Damage Only.
    - The most common contributing factors were Driver Inattention and No Driver Error.
    - No pedestrian-involved crashes were reported from 2018 to 2022.

- For the intersection of Gibson Boulevard and Mulberry Street:
    - Within the years 2018 to 2022, 57 crashes were reported.
    - The most common crash types were Other Vehicle - From Opposite Direction and Other Vehicle - Both Going Straight/Entering at Angle.
    - 67% of crashes at this intersection occurred during daylight hours and 12% occurred under Dark-Lighted conditions.
    - No fatal crashes were reported from 2018 to 2022.
    - 17 injury crashes were reported; 40 crashes were classified as Property Damage Only.
    - The most common contributing factors were Driver Inattention and Other – No Driver Error.
    - No pedestrian or bicyclist-involved crashes were reported from 2018 to 2022.

- For the intersection of Gibson Boulevard and University Boulevard:
  - Within the years 2018 to 2022, 162 crashes were reported.
  - The most common crash types were Other Vehicle - From Same Direction/Rear End Collision and Other Vehicle - From Opposite Direction.
  - 67% of crashes at this intersection occurred during daylight hours and 17% occurred under Dark-Lighted conditions.
  - No fatal crashes were reported from 2018 to 2022.
  - 15 injury crashes were reported; 113 crashes were classified as Property Damage Only.
  - The most common contributing factors were Driver Inattention and Failed to Yield Right of Way.
  - 3 pedestrian-involved crashes were reported.
    - One reported pedestrian-involved crash occurred on September 9th, 2018, at 5:00 PM. The crash was reported with clear, Daylight conditions. The contributing factor was listed as Other-None. Complaint of injury reported by pedestrian.
    - One reported pedestrian-involved crash occurred May 5th, 2020, at 10:00 AM. The crash was reported to be in clear, daylight conditions. The contributing factor was listed as Other-Mechanical Defect. No injuries were reported.
    - The reported pedestrian-involved crash occurred on November 11th, 2020, at 8:00 PM. The crash reportedly had clear, dark-lighted conditions. The contributing factor was Other-Improper Driving. Serious injury was reported for the pedestrian involved.
  - 1 bicyclist-involved crash was reported.
    - The reported bicyclist-involved crash occurred June 6th, 2019, at 9:00 PM. The crash was reported in clear, Dark-Lighted conditions. The contributing factor was listed as Disregarded Traffic Signal.

CONCLUSIONS AND RECOMMENDATIONS

The following presents a summary of the traffic analysis and recommendations included in this report.

ASSUMPTIONS

The following assumptions regarding new developments in the roadway network were made for the Build-Out Year scenarios based on the information discussed in the scoping meeting:

- Alumni Drive is assumed to be extended north of its current location to Avenida Caesar Chavez through a project designed and funded by the University of New Mexico. Site Driveways 1 and 2 will be constructed on the west side of the new segment of Alumni Drive. For this analysis, the full extension of Alumni Drive is assumed to be completed by Horizon Year 2036.
- The Gibson Boulevard and I-25 Interchange is currently being redesigned by NMDOT. Capacity and queuing issues at the interchange are assumed to be addressed in the future by this reconstruction project. Therefore, mitigations for the interchange are not provided in this analysis.

CONCLUSIONS

The capacity and queuing analysis showed that several study intersection movements operate at unacceptable levels of service under Existing and Background conditions.

Under Existing 2024 conditions, traffic operation is summarized as follows:

- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
  - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
  - NBR operates at LOS E during the PM peak hour.
- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
  - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
  - SBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
- At the signalized intersection of Gibson Boulevard and University Boulevard
  - SBL operates at LOS E during the PM peak hour.
  - SBR operates at LOS E during the PM peak hour.

Under Background 2026 conditions, traffic operation is summarized as follows:

- At the stop-controlled intersection of Gibson Boulevard and I-25 SB Off-Ramp
  - NBR operates at LOS E during the MD peak hour.
- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
  - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
  - NBR operates at LOS F during the PM peak hour.
- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
  - NBL operates at LOS E and LOS F during the MD and PM peak hours, respectively.
- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
  - NBL/R operates at LOS F during the MD and PM peak hours.
  - SBL operates at LOS F during the MD and PM peak hours.
  - EBL operates at LOS F during the PM peak hours.
- At the signalized intersection of Gibson Boulevard and University Boulevard
  - SBL operates at LOS E during the PM peak hour.

Under the Full-Build 2026 scenario, traffic operation is summarized as follows:

- At the stop-controlled intersection of Gibson Boulevard and I-25 SB Off-Ramp
  - NBR operates at LOS E during the MD and PM peak hours.
- At the stop-controlled intersection of Gibson Boulevard and I-25 NB Off-Ramp
  - NBL operates at LOS F during the MD and PM peak hours.
  - NBR operates at LOS F during the PM peak hour.
- At the stop-controlled intersection of Gibson Boulevard and Mulberry Street
  - NBL operates at LOS F during the MD and PM peak hours.
- At the stop-controlled intersection of Gibson Boulevard and Alumni Drive
  - NBL/R operates at LOS F during the MD peak hour.
  - SBL operates at LOS F during the MD and PM peak hours.
  - EBL operates at LOS F PM peak hours.
- At the signalized intersection of Gibson Boulevard and University Boulevard
  - SBL operates at LOS E during the PM peak hour.
  - SBR operates at LOS E during the PM peak hour.

Detailed traffic operation results for Existing, Build Out Year 2026 Background, Build Out Year 2026 Full-Build, Horizon Year 2036 Background, and Horizon Year 2036 Full-Build scenarios can be found in the LOS, Capacity and Queuing section of the report. Mitigated 2026 and 2036 Full-Build scenario results are also provided.

SITE RECOMMENDATIONS

- Proposed Access Points and Locations:
  - Full access configuration, with right and left turns being permitted, is recommended for Site Driveways 1 and 2 on Alumni Drive, to provide adequate site circulation for ingress and egress Development trips.
  - An area bounded by the required sight distance of 355 feet for left-turning vehicle and 290 feet for right-turning vehicles should be cleared and maintained free of obstructions on either side of each site driveway.

OFF-SITE INTERSECTION RECOMMENDATIONS

- Alumni Drive and Gibson Boulevard
  - A “Do Not Block Intersection” sign (R-10-7) should be installed on Alumni Drive for southbound traffic, between Site Driveway 2 and the fire station access driveway.
  - Refreshed striping is recommended on Alumni Drive between Gibson Boulevard and the proposed Development.

Appendix A: Scoping Meeting Notes

Agenda for Traffic Study Scoping Meeting
Gibson In-N-Out
April 29, 2024
-Meeting Notes in Red-

Attendees:
Nancy Perea – NMDOT
Margaret Haynes – NMDOT
Matt Grush – CABQ

Jonathon Kruse – Lee Engineering
Abigail Yoerger – Lee Engineering

1. Introductions
2. Review of Site Plan
    a. Site Plan & Land Uses
    b. Access Review
3. Discussion of Scope for TIS
    a. Study Intersections
        i. Site Driveways
        ii. Gibson & Alumni
        iii. Gibson & University
        iv. Gibson & Interchange
            1. Note: Interchange construction is horizon. Analyze as is today under buildout conditions and as 30% designed under horizon year conditions.
            2. Camera to gauge queueing from interchange.
        v. Gibson & Mullberry
            1. Interim fix for Mulberry = restrict access. Future access in NMDOT access plan is right in / right out / left in. NMDOT ROW Map.
    b. Data Collection
        i. Existing Study Intersections
        ii. Extra camera to capture queues at interchange
    c. Trip Generation, Pass By, & Internal Capture
        i. Trip Generation Manual (11th Edition) Land Use
            1. ITE 934 – Fast Food Restaurant with Drive-Through
            2. Check for comparable sites for trip generation.

Use	Units		Weekday AM Peak Hour					Weekday PM Peak Hour				
			Total	Enter	Exit	In	Out	Total	Enter	Exit	In	Out
ITE 934 -Fast-Food Restaurant with Drive-Through	3885	Sq. Ft.	197	52%	48%	102	95	198	51%	49%	101	97

ii. Pass-by/Diverted trips. Full allowance.
iii. No Internal Capture
iv. Trips distributed based on existing traffic patterns

d. Known Developments or Pending Improvements in Area
   i. Gibson Interchange.
   ii. Gibson & Yale Development: partially built. Matt to provide study.
   iii. Raising Cane's at Gibson & Alumni (South Side). Matt to provide study.

e. Build-out Year and Growth Rate
   i. Build-Out Year (2026)
      1. Will look at Historic Traffic Volumes and calculate growth rate, if less than 1%, will assume 1% growth per year.

f. Analysis scenarios
   i. Existing Conditions
   ii. Opening Year Background (No Build)
   iii. Opening Year Buildout (Full Build)
   iv. Opening Year Buildout Optimized (if needed)
      1. All scenarios with existing signal timings except opening year buildout optimized.
   v. Horizon year – 10 Years from opening (Background & Buildout).

g. Required Analysis & Methodology
   i. LOS Capacity and Queueing analysis based on HCM 6th Edition (HCS)
      1. Capacity & Queueing for network peak
      2. Mid-Day and PM Peak Hours
   ii. No Arterial Analysis.
   iii. Auxiliary Lane Analysis
   iv. Sight Distance Analysis at Proposed Driveways
   v. Safety (Crash) Summary
      1. 5 Years for Gibson & Alumni and study intersections
      2. Highlight bike & ped crashes in summary
   vi. Weaving Analysis for Right-Out onto Gibson
   vii. Right out access justification

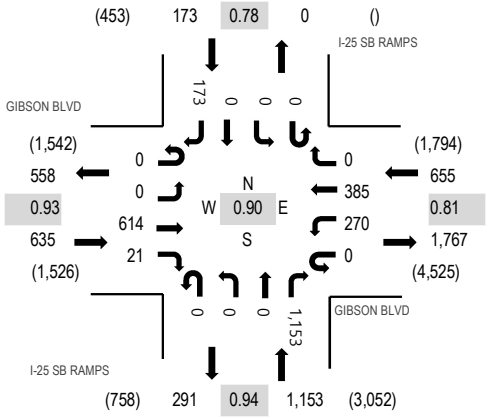
4. Agency Input (Comments & Issues)
   a. SB Queues on Alumni would likely support right out access onto Gibson.
5. Meeting Notes (distributed by Lee Engineering)

Appendix B: Turning Movement Counts

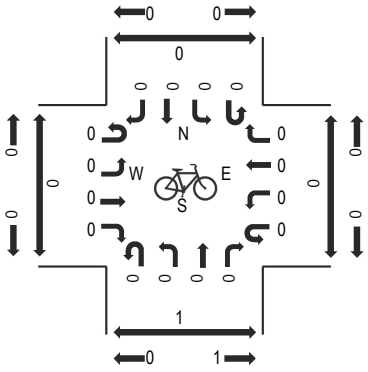
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 1 I-25 SB RAMPS & GIBSON BLVD AM
Date: Thursday, May 16, 2024
Peak Hour: 07:15 AM - 08:15 AM
Peak 15-Minutes: 07:45 AM - 08:00 AM

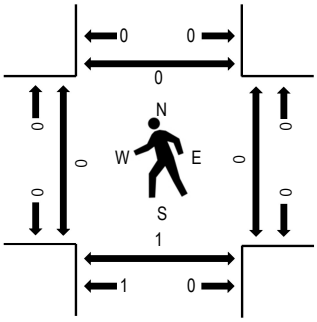
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

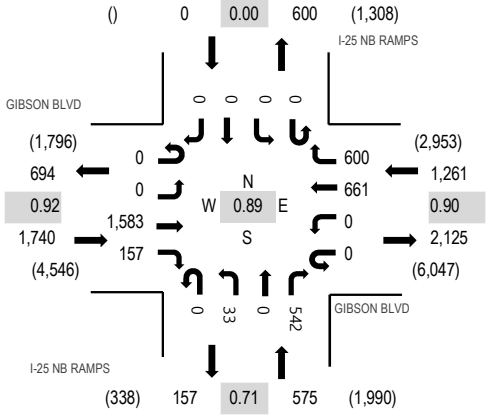
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				I-25 SB RAMPS Northbound				I-25 SB RAMPS Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
6:00 AM	0	0	72	4	0	46	24	0	0	0	0	181	0	0	0	21	348	1,936	0	0	0	0
6:15 AM	0	0	73	2	0	38	39	0	0	0	0	227	0	0	0	28	407	2,156	0	0	0	1
6:30 AM	0	0	104	6	0	66	62	0	0	0	0	291	0	0	0	67	596	2,357	0	0	0	0
6:45 AM	0	0	128	3	0	50	70	0	0	0	0	280	0	0	0	54	585	2,399	0	0	0	0
7:00 AM	0	0	117	4	0	59	65	0	0	0	0	290	0	0	0	33	568	2,540	0	0	0	0
7:15 AM	0	0	122	7	0	53	72	0	0	0	0	300	0	0	0	54	608	2,616	0	0	0	0
7:30 AM	0	0	163	5	0	72	81	0	0	0	0	266	0	0	0	51	638	2,566	0	0	0	0
7:45 AM	0	0	167	5	0	73	129	0	0	0	0	312	0	0	0	40	726	2,489	0	0	0	0
8:00 AM	0	0	162	4	0	72	103	0	0	0	0	275	0	0	0	28	644	2,349	0	0	1	0
8:15 AM	0	0	130	6	0	53	107	0	0	0	0	230	0	0	0	32	558		0	0	0	0
8:30 AM	0	0	112	3	0	57	157	0	0	0	0	213	0	0	0	19	561		0	0	0	0
8:45 AM	0	0	123	4	0	66	180	0	0	0	0	187	0	0	0	26	586		0	0	0	0
Count Total	0	0	1,473	53	0	705	1,089	0	0	0	0	3,052	0	0	0	453	6,825		0	0	1	1
Peak Hour	0	0	614	21	0	270	385	0	0	0	0	1,153	0	0	0	173	2,616		0	0	1	0

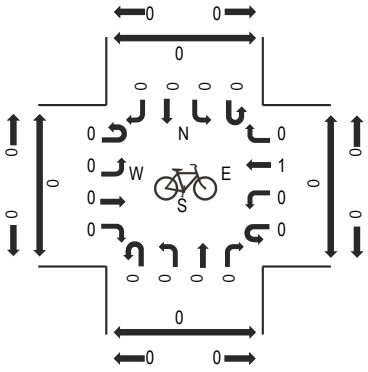
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 2 I-25 NB RAMPS & GIBSON BLVD AM
Date: Thursday, May 16, 2024
Peak Hour: 07:30 AM - 08:30 AM
Peak 15-Minutes: 07:45 AM - 08:00 AM

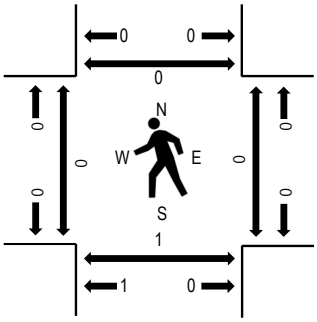
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

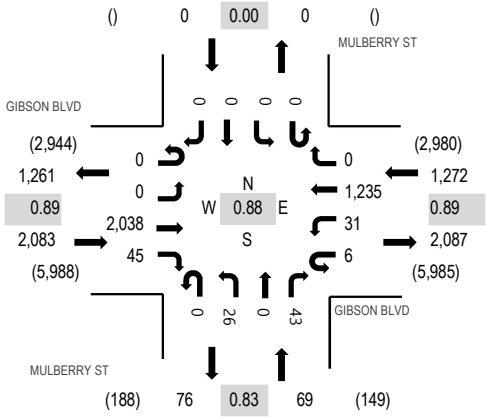
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				I-25 NB RAMPS Northbound				I-25 NB RAMPS Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
6:00 AM	0	0	237	18	0	0	70	72	0	3	0	120	0	0	0	0	520	2,729	0	0	0	0
6:15 AM	0	0	281	17	0	0	74	84	0	2	0	138	0	0	0	0	596	2,956	0	0	0	0
6:30 AM	0	0	366	25	0	0	124	122	0	4	0	154	0	0	0	0	795	3,139	0	0	0	0
6:45 AM	0	0	383	30	0	0	118	122	0	3	0	162	0	0	0	0	818	3,202	0	0	0	0
7:00 AM	0	0	370	33	0	0	118	87	0	6	0	133	0	0	0	0	747	3,390	0	0	0	0
7:15 AM	0	0	373	34	0	0	122	119	0	1	0	130	0	0	0	0	779	3,505	0	0	0	0
7:30 AM	0	0	397	44	0	0	140	133	0	7	0	137	0	0	0	0	858	3,576	0	0	0	0
7:45 AM	0	0	432	45	0	0	196	154	0	12	0	167	0	0	0	0	1,006	3,559	0	0	0	0
8:00 AM	0	0	393	40	0	0	173	133	0	8	0	115	0	0	0	0	862	3,370	0	0	1	0
8:15 AM	0	0	361	28	0	0	152	180	0	6	0	123	0	0	0	0	850		0	0	0	0
8:30 AM	0	0	321	15	0	0	171	62	0	47	0	225	0	0	0	0	841		0	0	0	0
8:45 AM	0	0	294	9	0	0	187	40	0	52	0	235	0	0	0	0	817		0	0	0	0
Count Total	0	0	4,208	338	0	0	1,645	1,308	0	151	0	1,839	0	0	0	0	9,489		0	0	1	0
Peak Hour	0	0	1,583	157	0	0	661	600	0	33	0	542	0	0	0	0	3,576		0	0	1	0

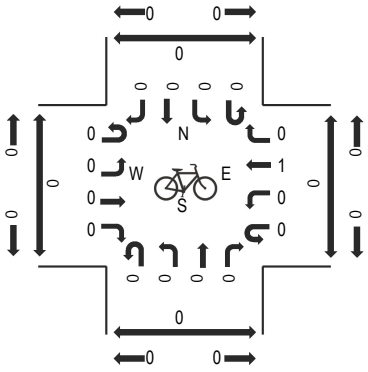
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 3 MULBERRY ST & GIBSON BLVD AM
Date: Thursday, May 16, 2024
Peak Hour: 07:30 AM - 08:30 AM
Peak 15-Minutes: 07:45 AM - 08:00 AM

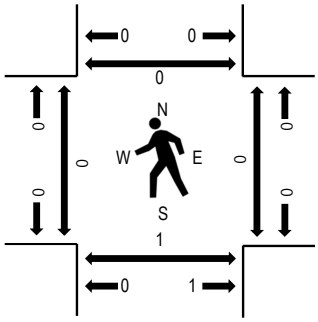
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

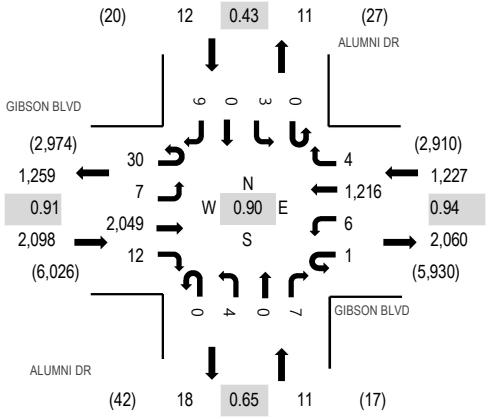
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				MULBERRY ST Northbound				MULBERRY ST Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
6:00 AM	0	0	350	7	1	3	139	0	0	3	0	2	0	0	0	0	505	2,660	0	0	0	0
6:15 AM	0	0	414	3	1	2	159	0	0	1	0	3	0	0	0	0	583	2,861	0	0	0	0
6:30 AM	0	0	508	12	0	7	236	0	0	2	0	6	0	0	0	0	771	3,047	0	0	0	0
6:45 AM	0	0	534	10	1	7	240	0	0	7	0	2	0	0	0	0	801	3,085	0	1	1	0
7:00 AM	0	0	488	9	2	0	200	0	0	2	0	5	0	0	0	0	706	3,252	0	0	0	0
7:15 AM	0	0	500	6	5	7	232	0	0	9	0	10	0	0	0	0	769	3,381	0	0	0	0
7:30 AM	0	0	507	11	3	3	268	0	0	5	0	12	0	0	0	0	809	3,424	0	0	1	0
7:45 AM	0	0	589	8	2	10	345	0	0	5	0	9	0	0	0	0	968	3,407	0	0	0	0
8:00 AM	0	0	496	14	0	10	298	0	0	6	0	11	0	0	0	0	835	3,205	0	0	0	0
8:15 AM	0	0	446	12	1	8	324	0	0	10	0	11	0	0	0	0	812		0	0	0	0
8:30 AM	0	0	529	10	1	9	225	0	0	6	0	12	0	0	0	0	792		0	0	0	0
8:45 AM	0	0	512	13	4	7	220	0	0	2	0	8	0	0	0	0	766		0	0	0	0
Count Total	0	0	5,873	115	21	73	2,886	0	0	58	0	91	0	0	0	0	9,117		0	1	2	0
Peak Hour	0	0	2,038	45	6	31	1,235	0	0	26	0	43	0	0	0	0	3,424		0	0	1	0

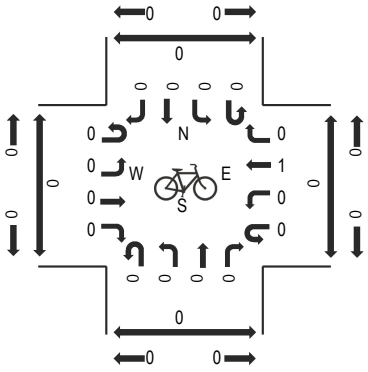
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 4 ALUMNI DR & GIBSON BLVD AM
Date: Thursday, May 16, 2024
Peak Hour: 07:30 AM - 08:30 AM
Peak 15-Minutes: 07:45 AM - 08:00 AM

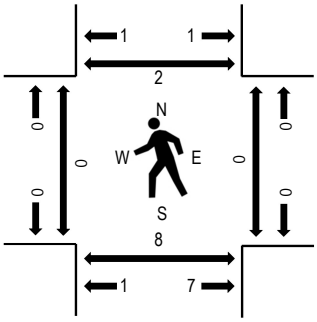
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

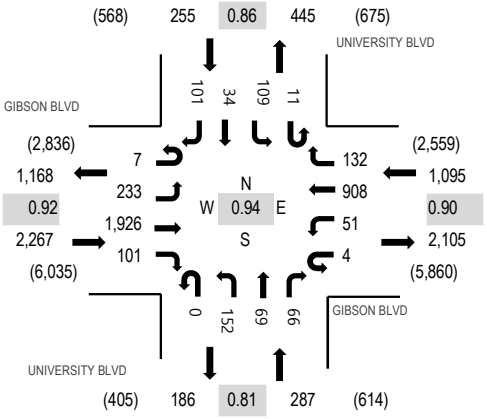
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				ALUMNI DR Northbound				ALUMNI DR Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
6:00 AM	0	0	340	1	0	1	140	0	0	0	0	0	0	0	0	0	482	2,589	0	0	0	0
6:15 AM	8	1	407	1	0	0	154	0	0	0	0	0	0	0	0	0	571	2,813	0	0	0	0
6:30 AM	4	1	511	1	0	0	247	1	0	0	0	0	0	0	0	0	765	2,994	0	0	4	0
6:45 AM	3	6	533	1	0	1	226	0	0	0	0	1	0	0	0	0	771	3,047	0	0	1	1
7:00 AM	7	3	495	0	0	0	199	0	0	0	0	1	0	0	0	1	706	3,201	0	0	0	1
7:15 AM	11	2	502	3	1	2	229	0	0	0	0	0	0	0	0	2	752	3,346	0	0	5	0
7:30 AM	8	2	519	3	0	0	277	0	0	0	0	2	0	1	0	6	818	3,348	0	0	4	0
7:45 AM	6	2	587	3	1	1	323	1	0	0	0	0	0	0	0	1	925	3,317	0	0	2	1
8:00 AM	11	2	503	4	0	3	321	2	0	3	0	1	0	1	0	0	851	3,183	0	0	2	0
8:15 AM	5	1	440	2	0	2	295	1	0	1	0	4	0	1	0	2	754		0	0	0	1
8:30 AM	5	0	532	3	0	3	242	0	0	0	0	0	0	2	0	0	787		0	0	3	0
8:45 AM	4	1	539	3	3	4	229	1	0	1	0	3	0	0	0	3	791		0	1	0	1
Count Total	72	21	5,908	25	5	17	2,882	6	0	5	0	12	0	5	0	15	8,973		0	1	21	5
Peak Hour	30	7	2,049	12	1	6	1,216	4	0	4	0	7	0	3	0	9	3,348		0	0	8	2

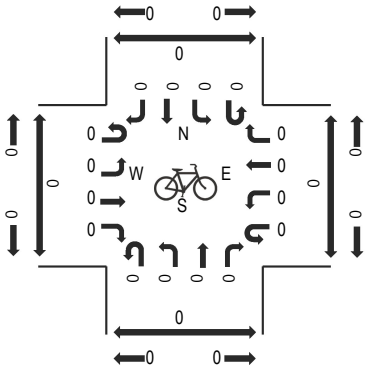
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 5 UNIVERSITY BLVD & GIBSON BLVD AM
Date: Thursday, May 16, 2024
Peak Hour: 07:30 AM - 08:30 AM
Peak 15-Minutes: 07:45 AM - 08:00 AM

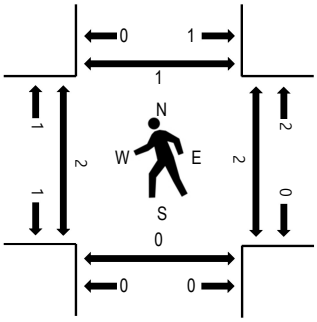
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

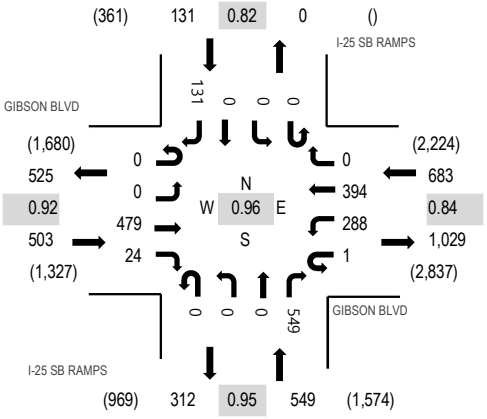
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				UNIVERSITY BLVD Northbound				UNIVERSITY BLVD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
6:00 AM	0	4	352	5	2	4	96	2	0	16	1	3	0	5	2	8	500	2,798	0	0	0	0
6:15 AM	0	7	409	17	1	4	119	2	0	27	1	13	1	13	4	12	630	3,097	0	1	1	0
6:30 AM	0	11	518	15	1	4	200	6	0	26	0	14	1	12	2	14	824	3,282	0	2	0	1
6:45 AM	1	16	527	17	3	4	179	2	0	28	8	15	1	17	6	20	844	3,431	0	0	0	1
7:00 AM	2	17	492	25	0	3	171	11	0	16	6	11	0	27	5	13	799	3,625	0	0	0	0
7:15 AM	0	25	482	18	1	7	177	13	0	33	3	7	0	24	7	18	815	3,862	2	0	1	2
7:30 AM	2	45	490	30	1	9	259	28	0	38	5	14	1	22	5	24	973	3,904	0	1	0	0
7:45 AM	3	79	528	20	1	10	201	33	0	49	17	23	3	36	8	27	1,038	3,659	0	1	0	1
8:00 AM	1	73	492	32	0	22	239	43	0	26	27	14	4	27	10	26	1,036	3,353	0	0	0	0
8:15 AM	1	36	416	19	2	10	209	28	0	39	20	15	3	24	11	24	857		2	0	0	0
8:30 AM	1	17	354	15	0	6	228	15	0	25	8	9	2	29	6	13	728		0	1	1	0
8:45 AM	1	22	377	21	1	13	177	12	0	30	15	12	1	24	9	17	732		0	0	0	0
Count Total	12	352	5,437	234	13	96	2,255	195	0	353	111	150	17	260	75	216	9,776		4	6	3	5
Peak Hour	7	233	1,926	101	4	51	908	132	0	152	69	66	11	109	34	101	3,904		2	2	0	1

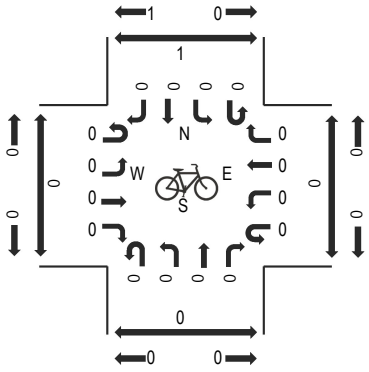
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 1 I-25 SB RAMPS & GIBSON BLVD Noon
Date: Thursday, May 16, 2024
Peak Hour: 12:00 PM - 01:00 PM
Peak 15-Minutes: 12:45 PM - 01:00 PM

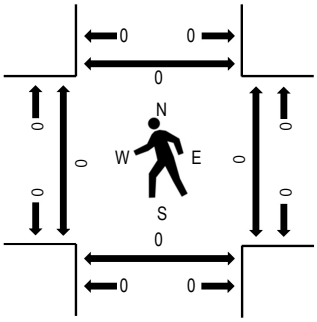
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

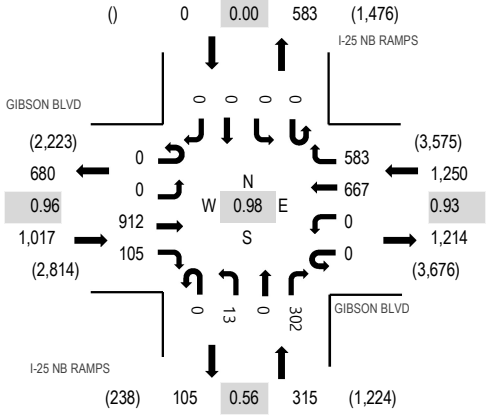
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				I-25 SB RAMPS Northbound				I-25 SB RAMPS Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
11:00 AM	0	0	129	4	3	51	181	0	0	0	0	106	0	0	0	36	510	1,817	0	0	0	0
11:15 AM	0	0	99	7	1	60	145	0	0	0	0	131	0	0	0	26	469	1,763	0	0	0	0
11:30 AM	0	0	90	4	1	68	92	0	0	0	0	127	0	0	0	19	401	1,743	0	0	0	1
11:45 AM	0	0	99	6	0	86	97	0	0	0	0	123	0	0	0	26	437	1,819	0	0	0	0
12:00 PM	0	0	124	0	0	75	92	0	0	0	0	138	0	0	0	27	456	1,866	0	0	0	0
12:15 PM	0	0	102	9	1	73	99	0	0	0	0	132	0	0	0	33	449	1,860	0	0	0	0
12:30 PM	0	0	124	7	0	70	103	0	0	0	0	133	0	0	0	40	477	1,861	0	0	0	0
12:45 PM	0	0	129	8	0	70	100	0	0	0	0	146	0	0	0	31	484	1,842	0	0	0	0
1:00 PM	0	0	99	7	1	80	91	0	0	0	0	146	0	0	0	26	450	1,803	0	0	0	0
1:15 PM	0	0	78	5	1	96	111	0	0	0	0	128	0	0	0	31	450		0	0	0	0
1:30 PM	0	0	101	7	0	87	103	0	0	0	0	129	0	0	0	31	458		0	0	1	0
1:45 PM	0	0	81	8	0	81	105	0	0	0	0	135	0	0	0	35	445		0	0	0	0
Count Total	0	0	1,255	72	8	897	1,319	0	0	0	0	1,574	0	0	0	361	5,486		0	0	1	1
Peak Hour	0	0	479	24	1	288	394	0	0	0	0	549	0	0	0	131	1,866		0	0	0	0

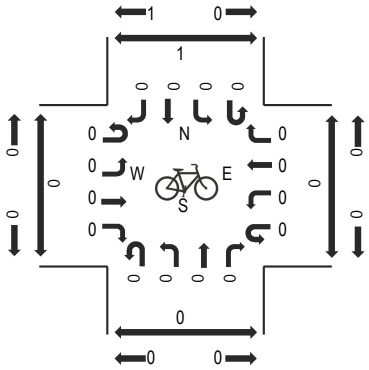
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 2 I-25 NB RAMPS & GIBSON BLVD Noon
Date: Thursday, May 16, 2024
Peak Hour: 12:00 PM - 01:00 PM
Peak 15-Minutes: 12:30 PM - 12:45 PM

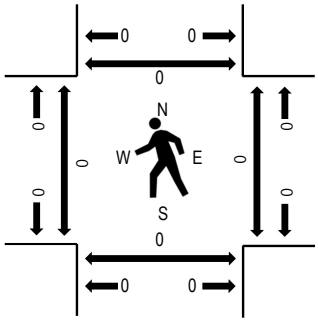
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

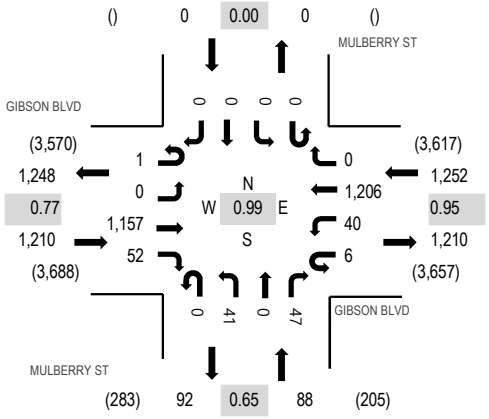
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				I-25 NB RAMPS Northbound				I-25 NB RAMPS Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
11:00 AM	0	0	218	10	0	0	182	25	0	51	0	236	0	0	0	0	722	2,550	0	0	0	0
11:15 AM	0	0	228	7	0	0	164	70	0	43	0	167	0	0	0	0	679	2,474	0	0	0	0
11:30 AM	1	0	202	16	0	0	161	101	0	3	0	65	0	0	0	0	549	2,424	0	0	0	0
11:45 AM	0	0	186	22	0	0	185	126	0	2	0	79	0	0	0	0	600	2,533	0	0	0	0
12:00 PM	0	0	238	27	0	0	157	137	0	6	0	81	0	0	0	0	646	2,582	0	0	0	0
12:15 PM	0	0	215	20	0	0	170	160	0	1	0	63	0	0	0	0	629	2,535	0	0	0	0
12:30 PM	0	0	227	25	0	0	170	156	0	3	0	77	0	0	0	0	658	2,528	0	0	0	0
12:45 PM	0	0	232	33	0	0	170	130	0	3	0	81	0	0	0	0	649	2,515	0	0	0	0
1:00 PM	0	0	228	26	0	0	174	114	0	1	0	56	0	0	0	0	599	2,481	0	0	0	0
1:15 PM	0	0	194	11	0	0	201	140	0	1	0	75	0	0	0	0	622		0	0	1	0
1:30 PM	0	0	208	18	0	0	192	160	0	5	0	62	0	0	0	0	645		0	0	0	0
1:45 PM	0	0	199	23	0	0	173	157	0	4	0	59	0	0	0	0	615		0	0	0	0
Count Total	1	0	2,575	238	0	0	2,099	1,476	0	123	0	1,101	0	0	0	0	7,613		0	0	1	0
Peak Hour	0	0	912	105	0	0	667	583	0	13	0	302	0	0	0	0	2,582		0	0	0	0

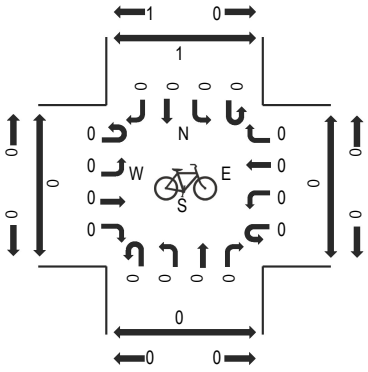
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 3 MULBERRY ST & GIBSON BLVD Noon
Date: Thursday, May 16, 2024
Peak Hour: 12:00 PM - 01:00 PM
Peak 15-Minutes: 12:30 PM - 12:45 PM

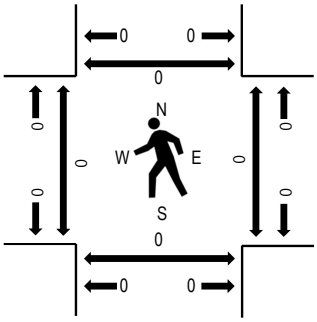
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

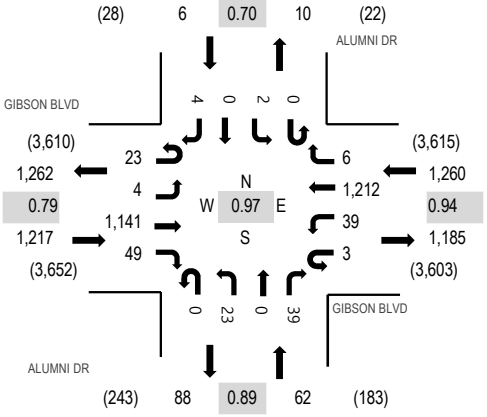
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				MULBERRY ST Northbound				MULBERRY ST Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
11:00 AM	4	0	437	8	3	14	199	0	0	3	0	5	0	0	0	0	673	2,486	0	0	0	0
11:15 AM	5	0	383	14	1	12	220	0	0	4	0	11	0	0	0	0	650	2,452	0	1	0	0
11:30 AM	0	0	256	15	2	14	257	0	0	8	0	9	0	0	0	0	561	2,437	0	0	0	0
11:45 AM	2	0	258	8	4	17	298	0	0	8	0	7	0	0	0	0	602	2,522	0	0	0	0
12:00 PM	0	0	299	17	2	14	284	0	0	9	0	14	0	0	0	0	639	2,550	0	0	0	0
12:15 PM	0	0	271	12	0	3	315	0	0	14	0	20	0	0	0	0	635	2,511	0	0	0	0
12:30 PM	0	0	289	11	4	10	320	0	0	6	0	6	0	0	0	0	646	2,503	0	0	0	0
12:45 PM	1	0	298	12	0	13	287	0	0	12	0	7	0	0	0	0	630	2,495	0	0	0	0
1:00 PM	0	0	274	14	3	8	284	0	0	7	0	10	0	0	0	0	600	2,474	0	0	0	0
1:15 PM	2	0	255	11	0	14	333	0	0	5	0	7	0	0	0	0	627		0	0	1	0
1:30 PM	0	0	262	12	0	5	340	0	0	9	0	10	0	0	0	0	638		0	0	0	0
1:45 PM	0	0	247	11	0	14	323	0	0	11	0	3	0	0	0	0	609		0	0	0	0
Count Total	14	0	3,529	145	19	138	3,460	0	0	96	0	109	0	0	0	0	7,510		0	1	1	0
Peak Hour	1	0	1,157	52	6	40	1,206	0	0	41	0	47	0	0	0	0	2,550		0	0	0	0

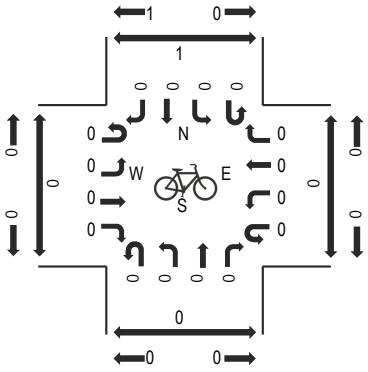
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 4 ALUMNI DR & GIBSON BLVD Noon
Date: Thursday, May 16, 2024
Peak Hour: 12:00 PM - 01:00 PM
Peak 15-Minutes: 12:00 PM - 12:15 PM

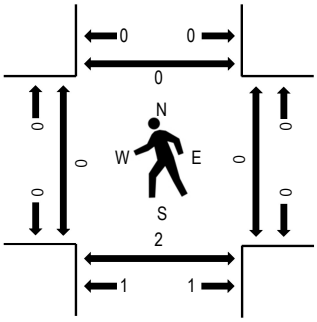
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

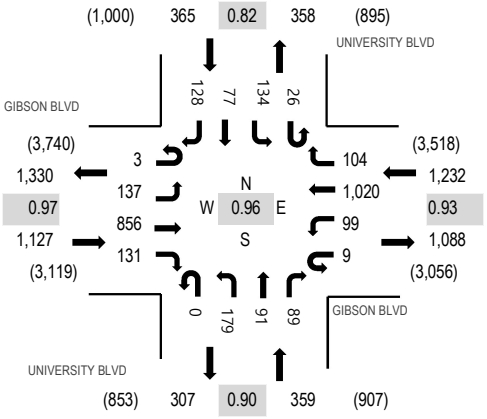
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				ALUMNI DR Northbound				ALUMNI DR Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
11:00 AM	6	1	419	11	1	10	202	1	0	1	0	9	0	2	0	3	666	2,475	1	0	0	2
11:15 AM	6	1	385	15	0	10	221	1	0	2	0	11	0	0	0	3	655	2,462	0	0	0	0
11:30 AM	5	0	256	7	1	6	249	1	0	4	0	16	0	1	0	4	550	2,424	0	0	6	1
11:45 AM	4	0	249	17	0	8	310	1	0	3	0	11	0	1	0	0	604	2,525	0	0	0	0
12:00 PM	6	1	291	16	0	11	313	4	0	5	0	6	0	0	0	0	653	2,545	0	0	1	0
12:15 PM	8	1	274	6	0	10	297	1	0	10	0	9	0	0	0	1	617	2,476	0	0	0	0
12:30 PM	6	2	281	13	2	8	320	1	0	3	0	13	0	2	0	0	651	2,492	0	0	1	0
12:45 PM	3	0	295	14	1	10	282	0	0	5	0	11	0	0	0	3	624	2,468	0	0	0	0
1:00 PM	6	1	256	9	2	10	278	1	0	6	0	14	0	0	0	1	584	2,458	0	0	2	0
1:15 PM	5	0	244	11	1	8	347	0	0	5	0	11	0	0	0	1	633		0	0	2	0
1:30 PM	1	1	264	5	4	11	329	0	0	4	0	8	0	0	0	0	627		0	0	2	0
1:45 PM	2	1	241	6	1	11	329	1	0	7	0	9	1	1	0	4	614		0	0	0	0
Count Total	58	9	3,455	130	13	113	3,477	12	0	55	0	128	1	7	0	20	7,478		1	0	14	3
Peak Hour	23	4	1,141	49	3	39	1,212	6	0	23	0	39	0	2	0	4	2,545		0	0	2	0

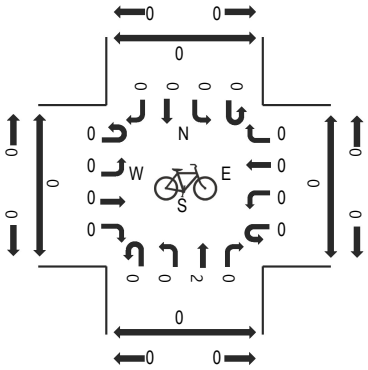
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 5 UNIVERSITY BLVD & GIBSON BLVD Noon
Date: Thursday, May 16, 2024
Peak Hour: 12:00 PM - 01:00 PM
Peak 15-Minutes: 12:30 PM - 12:45 PM

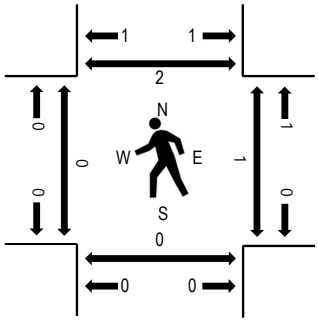
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

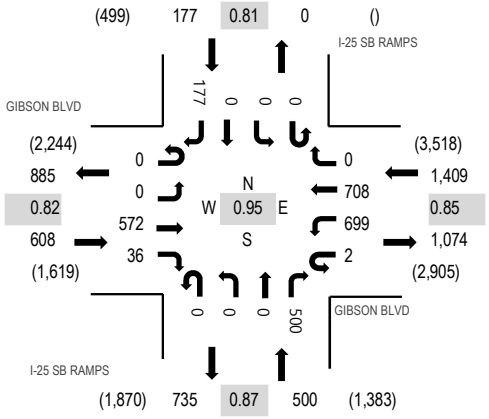
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				UNIVERSITY BLVD Northbound				UNIVERSITY BLVD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
11:00 AM	2	24	200	26	2	37	205	22	0	25	9	15	4	23	29	28	651	2,649	0	0	0	0
11:15 AM	0	27	189	25	0	22	208	17	0	38	16	18	4	27	18	38	647	2,770	0	0	0	1
11:30 AM	1	22	181	28	2	9	227	25	0	33	17	20	9	32	17	20	643	2,901	0	0	0	1
11:45 AM	1	31	195	36	4	30	230	23	0	37	18	23	8	26	25	21	708	3,057	0	1	0	1
12:00 PM	0	35	214	34	4	29	228	31	0	42	20	23	4	40	25	43	772	3,083	0	0	0	2
12:15 PM	2	40	209	41	2	26	237	27	0	46	31	23	11	35	21	27	778	2,991	0	0	0	0
12:30 PM	1	34	227	30	2	26	286	19	0	43	21	30	4	28	16	32	799	2,888	0	1	0	0
12:45 PM	0	28	206	26	1	18	269	27	0	48	19	13	7	31	15	26	734	2,810	0	0	0	0
1:00 PM	0	36	184	22	6	18	251	26	0	39	9	17	6	35	15	16	680	2,812	1	1	1	0
1:15 PM	1	30	186	31	6	18	245	13	0	43	20	11	3	22	15	31	675		0	0	0	0
1:30 PM	0	14	207	35	2	17	276	14	0	40	17	23	6	39	11	20	721		0	0	0	0
1:45 PM	2	24	205	27	4	24	277	26	0	31	13	16	4	48	11	24	736		1	0	1	1
Count Total	10	345	2,403	361	35	274	2,939	270	0	465	210	232	70	386	218	326	8,544		2	3	2	6
Peak Hour	3	137	856	131	9	99	1,020	104	0	179	91	89	26	134	77	128	3,083		0	1	0	2

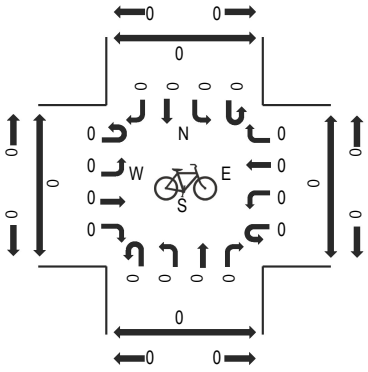
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 1 I-25 SB RAMPS & GIBSON BLVD PM
Date: Thursday, May 16, 2024
Peak Hour: 03:30 PM - 04:30 PM
Peak 15-Minutes: 03:45 PM - 04:00 PM

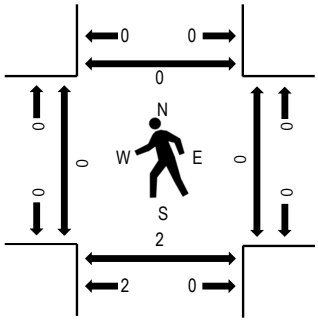
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

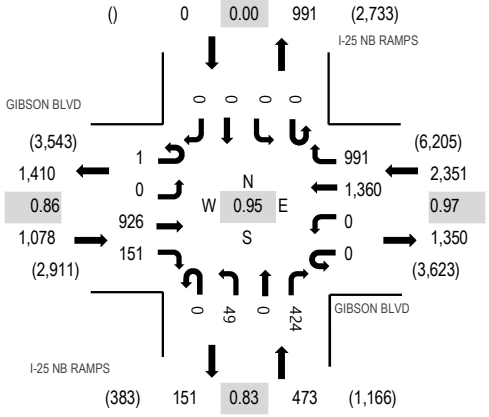
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				I-25 SB RAMPS Northbound				I-25 SB RAMPS Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
3:30 PM	0	0	174	12	0	154	188	0	0	0	0	144	0	0	0	26	698	2,694	0	0	0	0
3:45 PM	0	0	127	11	0	229	183	0	0	0	0	122	0	0	0	35	707	2,644	0	0	2	0
4:00 PM	0	0	164	6	1	157	170	0	0	0	0	124	0	0	0	54	676	2,531	0	0	0	0
4:15 PM	0	0	107	7	1	159	167	0	0	0	0	110	0	0	0	62	613	2,484	0	0	0	0
4:30 PM	0	0	140	13	0	159	168	0	0	0	0	122	0	0	0	46	648	2,433	0	0	0	0
4:45 PM	0	0	126	6	0	159	166	0	0	0	0	97	0	0	0	40	594	2,294	0	0	1	0
5:00 PM	0	0	133	9	1	160	162	0	0	0	0	122	0	0	0	42	629	2,195	0	0	0	0
5:15 PM	0	0	109	15	0	158	125	0	0	0	0	111	0	0	0	44	562	2,024	0	0	0	0
5:30 PM	0	0	134	6	0	116	103	0	0	0	0	112	0	0	0	38	509	1,892	0	0	0	0
5:45 PM	0	0	104	6	0	113	106	0	0	0	0	127	0	0	0	39	495		0	0	0	0
6:00 PM	0	0	102	4	0	100	111	0	0	0	0	99	0	0	0	42	458		0	0	0	0
6:15 PM	0	0	99	5	0	106	96	0	0	0	0	93	0	0	0	31	430		0	0	0	0
Count Total	0	0	1,519	100	3	1,770	1,745	0	0	0	0	1,383	0	0	0	499	7,019		0	0	3	0
Peak Hour	0	0	572	36	2	699	708	0	0	0	0	500	0	0	0	177	2,694		0	0	2	0

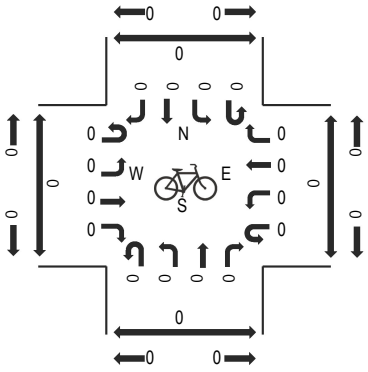
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 2 I-25 NB RAMPS & GIBSON BLVD PM
Date: Thursday, May 16, 2024
Peak Hour: 03:30 PM - 04:30 PM
Peak 15-Minutes: 03:30 PM - 03:45 PM

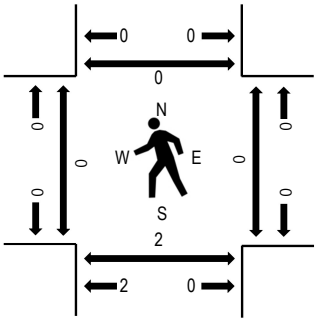
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

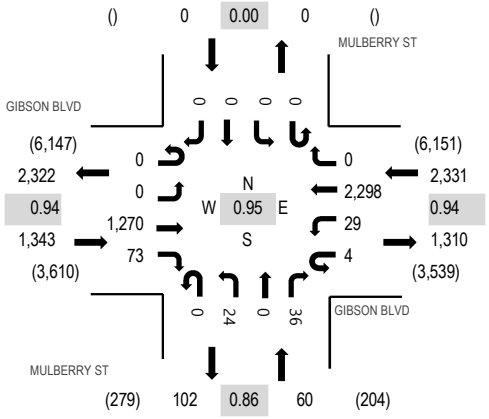
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				I-25 NB RAMPS Northbound				I-25 NB RAMPS Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
3:30 PM	0	0	254	60	0	0	327	282	0	19	0	87	0	0	0	0	1,029	3,902	0	0	0	0
3:45 PM	1	0	230	22	0	0	378	231	0	16	0	126	0	0	0	0	1,004	3,774	0	0	2	0
4:00 PM	0	0	244	44	0	0	332	250	0	8	0	94	0	0	0	0	972	3,659	0	0	0	0
4:15 PM	0	0	198	25	0	0	323	228	0	6	0	117	0	0	0	0	897	3,620	0	0	0	0
4:30 PM	0	0	221	36	0	0	331	227	0	2	0	84	0	0	0	0	901	3,580	0	0	0	0
4:45 PM	0	0	186	36	0	0	319	258	0	6	0	84	0	0	0	0	889	3,479	0	0	0	0
5:00 PM	0	0	230	32	0	0	313	264	0	5	0	89	0	0	0	0	933	3,330	0	0	0	0
5:15 PM	0	0	197	22	0	0	288	242	0	2	0	106	0	0	0	0	857	3,055	0	0	0	0
5:30 PM	0	0	210	43	0	0	223	246	0	0	0	78	0	0	0	0	800	2,800	0	0	0	0
5:45 PM	0	0	206	24	0	0	224	187	0	3	0	96	0	0	0	0	740		0	0	0	0
6:00 PM	0	0	174	16	0	0	217	180	0	2	0	69	0	0	0	0	658		0	0	0	0
6:15 PM	0	0	177	23	0	0	197	138	0	1	0	66	0	0	0	0	602		0	0	0	0
Count Total	1	0	2,527	383	0	0	3,472	2,733	0	70	0	1,096	0	0	0	0	10,282		0	0	2	0
Peak Hour	1	0	926	151	0	0	1,360	991	0	49	0	424	0	0	0	0	3,902		0	0	2	0

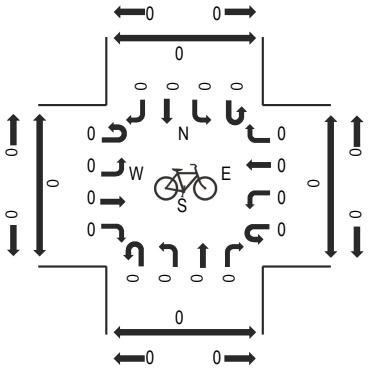
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 3 MULBERRY ST & GIBSON BLVD PM
Date: Thursday, May 16, 2024
Peak Hour: 03:30 PM - 04:30 PM
Peak 15-Minutes: 03:45 PM - 04:00 PM

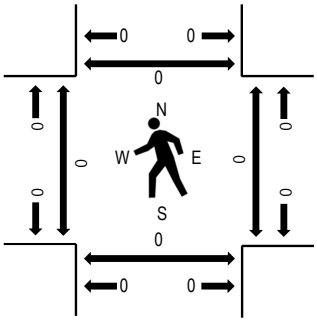
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

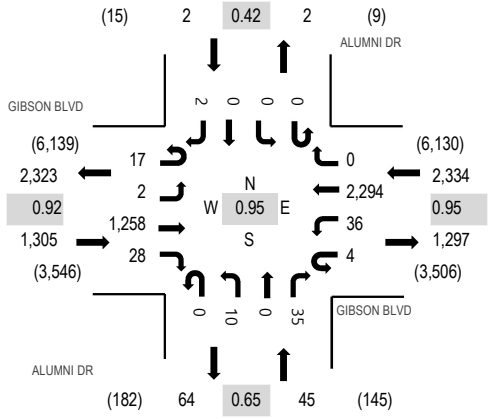
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				MULBERRY ST Northbound				MULBERRY ST Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
3:30 PM	0	0	301	27	1	10	609	0	0	5	0	9	0	0	0	0	962	3,734	0	0	0	0
3:45 PM	0	0	343	15	1	2	598	0	0	7	0	14	0	0	0	0	980	3,641	0	0	0	0
4:00 PM	0	0	330	17	2	3	556	0	0	4	0	9	0	0	0	0	921	3,510	0	0	0	0
4:15 PM	0	0	296	14	0	14	535	0	0	8	0	4	0	0	0	0	871	3,516	0	0	0	0
4:30 PM	0	0	291	16	1	8	536	0	0	6	0	11	0	0	0	0	869	3,482	0	0	0	0
4:45 PM	0	0	250	14	1	7	565	0	0	4	0	8	0	0	0	0	849	3,376	0	0	0	0
5:00 PM	0	0	298	21	1	6	579	0	0	8	0	14	0	0	0	0	927	3,247	0	0	0	0
5:15 PM	0	0	282	18	0	3	520	0	0	6	0	8	0	0	0	0	837	2,983	0	0	0	0
5:30 PM	1	0	274	11	0	5	451	0	0	11	0	10	0	0	0	0	763	2,749	0	0	0	0
5:45 PM	1	0	279	15	0	13	392	0	0	11	0	9	0	0	0	0	720		0	0	0	0
6:00 PM	1	0	232	15	2	12	378	0	0	13	0	10	0	0	0	0	663		0	0	0	0
6:15 PM	0	0	241	7	0	6	334	0	0	8	0	7	0	0	0	0	603		0	0	0	0
Count Total	3	0	3,417	190	9	89	6,053	0	0	91	0	113	0	0	0	0	9,965		0	0	0	0
Peak Hour	0	0	1,270	73	4	29	2,298	0	0	24	0	36	0	0	0	0	3,734		0	0	0	0

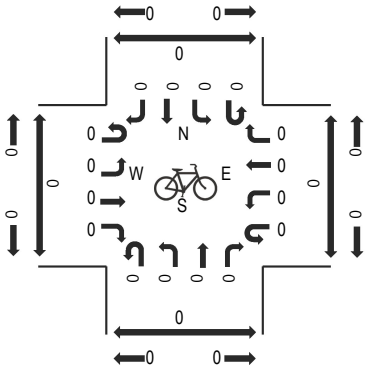
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 4 ALUMNI DR & GIBSON BLVD PM
Date: Thursday, May 16, 2024
Peak Hour: 03:30 PM - 04:30 PM
Peak 15-Minutes: 03:45 PM - 04:00 PM

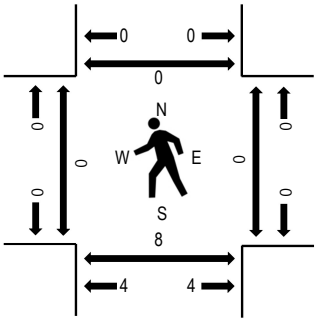
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

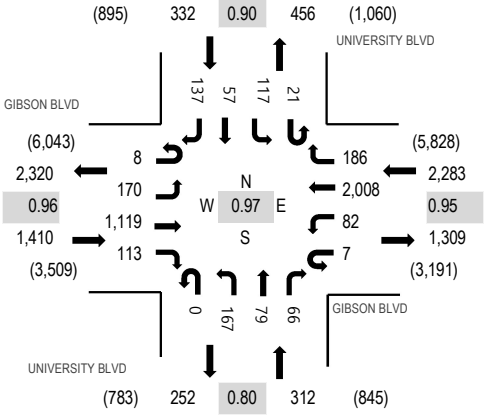
Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				ALUMNI DR Northbound				ALUMNI DR Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
3:30 PM	8	0	310	4	0	5	606	0	0	4	0	11	0	0	0	0	948	3,686	0	0	6	0
3:45 PM	1	1	342	9	2	9	596	0	0	2	0	8	0	0	0	1	971	3,617	0	0	0	0
4:00 PM	4	0	320	7	1	6	550	0	0	2	0	8	0	0	0	1	899	3,512	0	0	1	0
4:15 PM	4	1	286	8	1	16	542	0	0	2	0	8	0	0	0	0	868	3,520	0	0	1	0
4:30 PM	9	0	286	10	1	10	537	0	0	8	0	15	0	0	0	3	879	3,472	0	0	1	0
4:45 PM	4	3	258	5	2	5	567	0	0	5	0	11	0	1	0	5	866	3,329	0	0	1	0
5:00 PM	5	1	295	10	2	9	575	0	0	2	0	8	0	0	0	0	907	3,170	0	0	0	0
5:15 PM	7	1	279	7	1	3	510	0	0	2	0	9	0	0	0	1	820	2,903	0	0	1	0
5:30 PM	10	1	267	2	1	8	438	0	0	4	0	5	0	0	0	0	736	2,678	0	0	1	0
5:45 PM	2	0	284	8	2	12	385	0	0	5	0	8	0	0	0	1	707		0	1	2	0
6:00 PM	5	1	230	9	0	3	382	0	0	2	0	7	0	0	0	1	640		0	0	0	0
6:15 PM	3	0	231	8	0	9	334	0	0	3	0	6	0	0	0	1	595		0	1	0	0
Count Total	62	9	3,388	87	13	95	6,022	0	0	41	0	104	0	1	0	14	9,836		0	2	14	0
Peak Hour	17	2	1,258	28	4	36	2,294	0	0	10	0	35	0	0	0	2	3,686		0	0	8	0

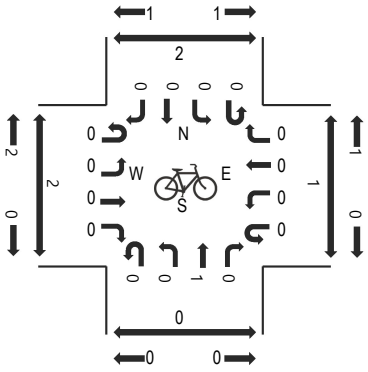
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 5 UNIVERSITY BLVD & GIBSON BLVD PM
Date: Thursday, May 16, 2024
Peak Hour: 03:30 PM - 04:30 PM
Peak 15-Minutes: 04:00 PM - 04:15 PM

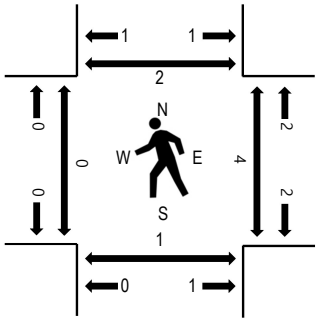
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	GIBSON BLVD Eastbound				GIBSON BLVD Westbound				UNIVERSITY BLVD Northbound				UNIVERSITY BLVD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
3:30 PM	2	34	252	25	2	20	516	27	0	56	18	24	7	28	13	37	1,061	4,337	0	3	1	1
3:45 PM	2	48	290	28	1	22	501	55	0	43	24	15	2	39	17	33	1,120	4,191	0	0	0	1
4:00 PM	3	43	294	28	3	27	515	53	0	33	19	13	8	30	14	40	1,123	4,054	0	1	0	0
4:15 PM	1	45	283	32	1	13	476	51	0	35	18	14	4	20	13	27	1,033	3,918	0	0	0	0
4:30 PM	1	28	204	26	2	14	468	44	0	37	15	11	1	22	15	27	915	3,762	0	0	0	0
4:45 PM	2	34	205	27	2	18	515	31	0	38	16	14	2	26	25	28	983	3,573	0	0	0	0
5:00 PM	0	27	212	42	0	14	518	20	0	41	19	13	5	27	12	37	987	3,398	0	0	0	0
5:15 PM	0	43	212	34	3	28	402	24	0	29	14	11	7	23	12	35	877	3,175	3	0	2	0
5:30 PM	1	29	187	37	3	17	316	15	0	40	17	12	9	14	7	22	726	2,978	0	0	2	0
5:45 PM	1	41	193	49	0	22	332	17	0	45	12	15	6	32	13	30	808		1	0	0	6
6:00 PM	2	25	190	25	5	19	346	20	0	40	11	16	3	29	8	25	764		0	0	0	0
6:15 PM	0	29	159	34	4	21	287	18	0	34	15	18	7	18	12	24	680		0	0	0	0
Count Total	15	426	2,681	387	26	235	5,192	375	0	471	198	176	61	308	161	365	11,077		4	4	5	8
Peak Hour	8	170	1,119	113	7	82	2,008	186	0	167	79	66	21	117	57	137	4,337		0	4	1	2

Appendix C: In N Out Trip Survey Data and ITE Trip Generation

Fast-Food Restaurant with Drive-Through Window
(934)

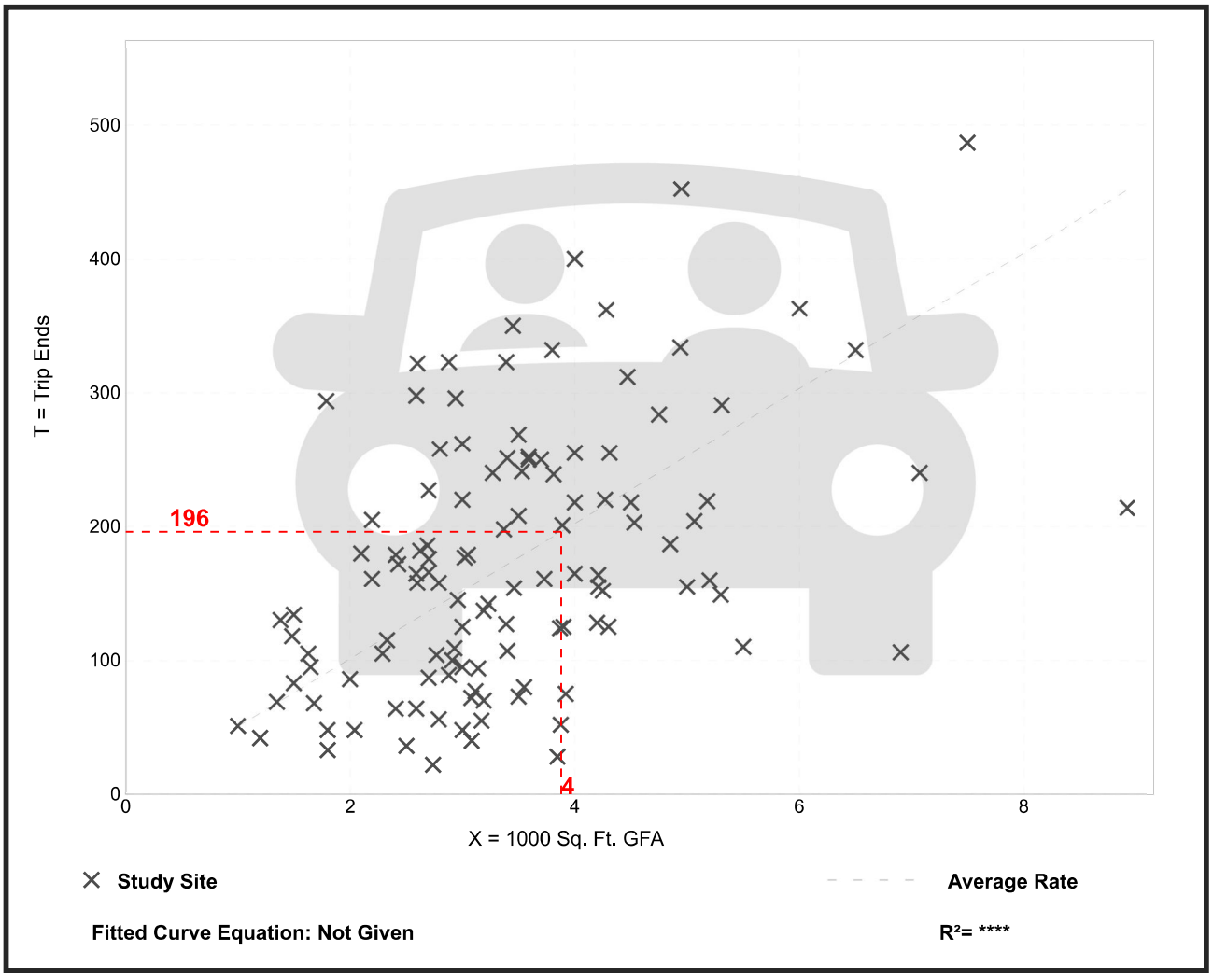
Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday,**
AM Peak Hour of Generator

Setting/Location: **General Urban/Suburban**
Number of Studies: 118
Avg. 1000 Sq. Ft. GFA: 3
Directional Distribution: 52% entering, 48% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
50.57	7.28 - 164.25	25.99

Data Plot and Equation



Trip Gen Manual, 11th Edition ● Institute of Transportation Engineers

Fast-Food Restaurant with Drive-Through Window
(934)

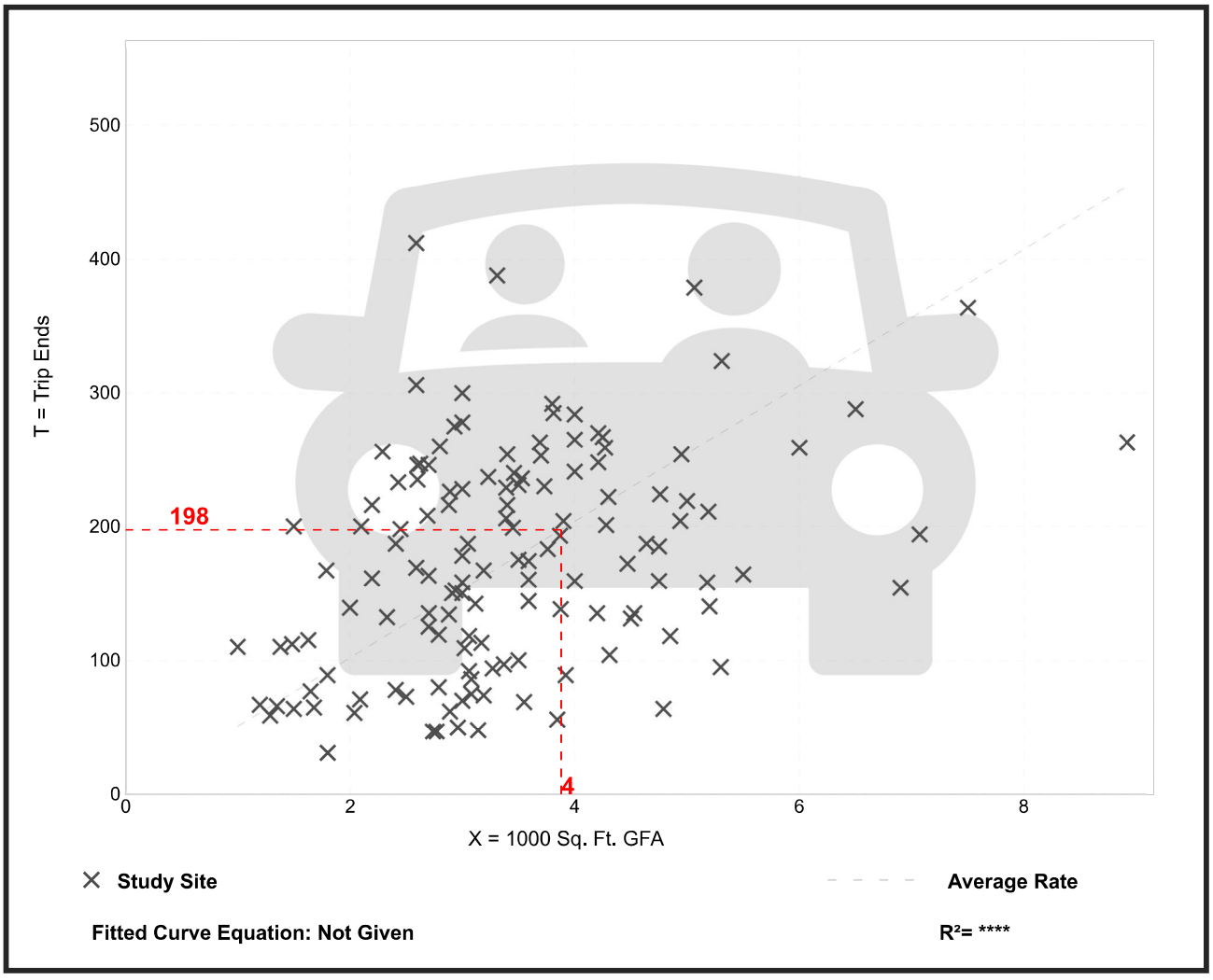
Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday,**
PM Peak Hour of Generator

Setting/Location: **General Urban/Suburban**
Number of Studies: 135
Avg. 1000 Sq. Ft. GFA: 3
Directional Distribution: 51% entering, 49% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
50.94	13.36 - 159.07	24.91

Data Plot and Equation



Trip Gen Manual, 11th Edition ● Institute of Transportation Engineers

Table A1
Weekday Drive Through Queue Survey Summary

Time	Peak Queue Observed within 15-Minute Increment								
	Corona	Highland	Indio	La Quinta	Long Beach	Los Angeles	Thousand Palms	Average	85th-%ile
LUNCH									
11:00 AM	17	14	5	8	3	6	15	10	15
11:15 AM	17	17	7	7	6	12	16	12	17
11:30 AM	16	16	12	12	7	16	18	14	16
11:45 AM	17	17	12	13	14	19	14	15	17
12:00 PM	23	19	12	21	15	20	17	18	21
12:15 PM	24	21	10	22	15	18	16	18	22
12:30 PM	23	21	9	19	13	21	16	17	21
12:45 PM	17	20	12	18	8	19	20	16	20
1:00 PM	16	19	16	18	12	22	10	16	19
1:15 PM	18	14	12	20	13	21	12	16	20
1:30 PM	17	16	10	18	8	20	13	15	18
1:45 PM	15	18	8	16	7	20	10	13	18
2:00 PM	16	17	7	14	8	21	19	15	19
DINNER									
4:00 PM	17	15	7	15	6	17	7	12	17
4:15 PM	16	19	4	21	5	15	10	13	19
4:30 PM	17	17	7	20	3	12	9	12	17
4:45 PM	16	18	7	20	6	10	11	13	18
5:00 PM	23	19	6	22	5	9	10	13	22
5:15 PM	23	19	12	18	7	14	14	15	19
5:30 PM	23	19	10	21	7	17	13	16	21
5:45 PM	18	21	9	19	5	19	9	14	19
6:00 PM	23	23	10	16	12	20	12	17	23
6:15 PM	24	22	8	22	7	19	16	17	22
6:30 PM	24	19	11	23	10	20	18	18	23
6:45 PM	24	18	10	21	12	18	18	17	21
7:00 PM	23	19	7	21	10	17	19	17	21
7:15 PM	18	21	10	16	11	18	20	16	20
7:30 PM	23	21	12	7	7	19	17	15	21
7:45 PM	24	19	7	17	6	20	16	16	20
8:00 PM	23	18	15	16	8	21	10	16	21
8:15 PM	17	17	12	17	6	19	17	15	17
8:30 PM	16	17	10	15	9	19	15	14	17
PEAK	**24**	**23**	**16**	**23**	**15**	**22**	**20**	**20**	**23**

Source: Queue observations at existing In-N-Out restaurants; see attachments.

Table A2
Weekend Drive Through Queue Survey Summary

Time	Peak Queue Observed within 15-Minute Increment								
	Corona	Highland	Indio	La Quinta	Long Beach	Los Angeles	Thousand Palms	Average	85th-%ile
LUNCH									
11:00 AM	9	9	6	8	7	8	8	8	9
11:15 AM	13	14	4	11	8	11	8	10	13
11:30 AM	17	16	7	16	9	12	12	13	16
11:45 AM	19	18	8	11	16	18	14	15	18
12:00 PM	17	18	11	10	16	20	11	15	18
12:15 PM	18	20	8	14	14	16	12	15	18
12:30 PM	23	20	9	18	16	20	18	18	20
12:45 PM	24	21	11	16	10	20	16	17	21
1:00 PM	24	19	16	15	15	23	15	18	23
1:15 PM	23	20	7	14	16	22	15	17	22
1:30 PM	24	20	6	18	10	20	18	17	20
1:45 PM	23	22	8	15	9	20	18	16	22
2:00 PM	22	17	12	16	12	21	14	16	21
DINNER									
4:00 PM	20	14	10	14	8	10	12	13	15
4:15 PM	18	15	15	17	10	14	11	14	17
4:30 PM	17	16	15	17	8	18	12	15	17
4:45 PM	17	18	16	20	5	8	11	14	18
5:00 PM	23	19	20	21	9	8	12	16	21
5:15 PM	24	20	22	18	10	9	11	16	22
5:30 PM	24	22	22	19	10	20	6	18	22
5:45 PM	23	18	24	12	9	19	16	17	23
6:00 PM	24	23	21	11	13	20	19	19	23
6:15 PM	24	21	16	10	9	19	17	17	21
6:30 PM	25	20	10	17	10	20	15	17	21
6:45 PM	25	19	11	18	14	18	20	18	21
7:00 PM	24	21	8	10	12	19	19	16	21
7:15 PM	24	19	7	12	13	20	13	15	20
7:30 PM	23	18	6	11	9	21	12	14	21
7:45 PM	23	19	9	8	9	22	14	15	22
8:00 PM	15	20	12	15	10	21	13	15	20
8:15 PM	16	19	9	16	9	22	17	15	19
8:30 PM	17	21	8	16	11	18	17	15	18
PEAK	**25**	**23**	**24**	**21**	**16**	**23**	**20**	**22**	**24**

Source: Queue observations at existing In-N-Out restaurants; see attachments.

Corona
(2305 Compton Ave, Corona, CA 92881)

	Corona In-N-Out							
	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	
Time	12/2/2017	12/3/2017	12/4/2017	12/5/2017	12/6/2017	12/7/2017	12/8/2017	**Peak**
10:30-10:45	7	5	6	5	6	5	6	**7**
10:45-11:00	14	11	14	7	12	7	8	**14**
11:00-11:15	7	9	17	11	12	9	10	**17**
11:15-11:30	9	13	14	15	12	11	17	**17**
11:30-11:45	9	17	14	15	15	16	16	**17**
11:45-12:00	11	19	17	10	14	16	15	**19**
12:00-12:15	13	17	12	13	18	15	23	**23**
12:15-12:30	16	18	17	13	18	14	24	**24**
12:30-12:45	20	23	20	13	16	13	23	**23**
12:45-1:00	22	24	15	17	13	14	17	**24**
1:00-1:15	22	24	14	11	13	16	14	**24**
1:15-1:30	23	23	11	14	16	18	15	**23**
1:30-1:45	24	22	11	11	15	17	16	**24**
1:45-2:00	23	17	10	10	13	14	15	**23**
2:00-2:15	22	18	15	11	16	10	15	**22**
2:15-2:30	23	17	17	16	16	13	13	**23**
2:30-2:45	24	23	18	15	12	13	13	**24**
2:45-3:00	20	14	12	14	10	13	15	**20**
3:00-3:15	20	18	18	23	17	14	16	**23**
3:15-3:30	17	14	15	19	18	14	18	**19**
3:30-3:45	17	16	18	17	11	16	17	**18**
3:45-4:00	15	17	16	12	15	14	15	**17**
4:00-4:15	18	20	12	9	12	15	17	**20**
4:15-4:30	16	18	16	10	9	11	11	**18**
4:30-4:45	16	17	17	14	10	9	11	**17**
4:45-5:00	16	17	14	12	16	15	13	**17**
5:00-5:15	23	15	16	13	23	18	13	**23**
5:15-5:30	24	17	23	12	18	21	16	**24**
5:30-5:45	24	23	16	13	16	16	23	**24**
5:45-6:00	23	23	15	13	17	18	15	**23**
6:00-6:15	18	24	12	12	18	23	19	**24**
6:15-6:30	23	24	15	17	23	24	17	**24**
6:30-6:45	23	25	23	23	23	24	18	**25**
6:45-7:00	20	25	24	17	17	23	15	**25**
7:00-7:15	23	24	23	18	14	13	17	**24**
7:15-7:30	15	24	16	15	16	17	18	**24**
7:30-7:45	14	23	12	14	13	16	23	**23**
7:45-8:00	16	23	14	12	13	20	24	**24**
8:00-8:15	15	15	14	12	14	17	23	**23**
8:15-8:30	16	15	15	13	12	14	17	**17**
8:30-8:45	17	16	14	14	10	15	16	**17**
8:45-9:00	14	14	14	10	14	15	13	**15**
9:00-9:15	17	12	14	12	11	13	15	**17**
9:15-9:30	12	10	15	9	11	15	15	**15**
9:30-9:45	16	13	11	8	8	10	16	**16**
9:45-10:00	12	15	9	8	11	13	11	**15**
10:00-10:15	13	12	14	7	12	13	12	**14**
10:15-10:30	12	9	9	6	11	13	15	**15**
10:30-10:45	14	13	11	6	7	11	15	**15**
10:45-11:00	19	11	9	7	8	9	14	**19**
11:00-11:15	20	8	8	6	6	8	13	**20**
11:15-11:30	16	12	6	5	5	7	11	**16**
11:30-11:45	14	10	7	4	4	5	11	**14**
11:45-12:00	12	8	5	4	5	6	11	**12**
12:00-12:15	11	5	5	3	4	4	11	**11**
12:15-12:30	11	7	4	3	3	3	11	**11**
12:30-12:45	13	6	3	3	2	3	11	**13**
12:45-1:00	13	4	2	2	2	2	11	**13**
Day Peak	**24**	**25**	**24**	**23**	**23**	**24**	**24**	**25**

Highland
(28009 Greenspot Rd, Highland, CA 92346)

	Highland In-N-Out							
	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	
Time	12/2/2017	12/3/2017	12/4/2017	12/5/2017	12/6/2017	12/7/2017	12/8/2017	**Peak**
10:30-10:45	4	6	6	5	4	4	6	**6**
10:45-11:00	5	7	8	7	6	7	11	**11**
11:00-11:15	6	9	11	9	9	10	14	**14**
11:15-11:30	14	11	17	10	13	14	15	**17**
11:30-11:45	12	16	15	14	15	14	16	**16**
11:45-12:00	13	18	14	14	14	14	17	**18**
12:00-12:15	16	18	18	17	14	18	19	**19**
12:15-12:30	20	20	17	17	15	18	21	**21**
12:30-12:45	20	20	16	19	15	17	21	**21**
12:45-1:00	21	19	13	18	11	18	20	**21**
1:00-1:15	18	19	14	17	7	18	19	**19**
1:15-1:30	20	19	11	13	10	14	14	**20**
1:30-1:45	20	18	14	13	10	13	16	**20**
1:45-2:00	22	17	14	18	3	13	18	**22**
2:00-2:15	17	15	13	15	14	16	17	**17**
2:15-2:30	17	17	18	16	15	19	18	**19**
2:30-2:45	14	18	14	13	14	16	15	**18**
2:45-3:00	17	15	15	12	13	18	15	**18**
3:00-3:15	16	16	18	14	12	16	18	**18**
3:15-3:30	18	19	18	12	13	14	18	**19**
3:30-3:45	14	19	17	10	17	19	19	**19**
3:45-4:00	12	16	18	11	16	18	17	**18**
4:00-4:15	14	14	15	14	14	15	13	**15**
4:15-4:30	15	14	13	16	12	16	19	**19**
4:30-4:45	14	16	15	14	15	14	17	**17**
4:45-5:00	15	18	18	15	14	17	16	**18**
5:00-5:15	15	19	15	14	13	19	15	**19**
5:15-5:30	18	20	13	13	17	19	19	**20**
5:30-5:45	22	19	16	19	16	18	19	**22**
5:45-6:00	17	18	20	19	18	21	20	**21**
6:00-6:15	23	21	20	18	20	21	23	**23**
6:15-6:30	19	21	19	17	13	19	22	**22**
6:30-6:45	19	20	19	17	16	18	17	**20**
6:45-7:00	19	19	18	15	14	17	18	**19**
7:00-7:15	21	17	16	14	13	16	19	**21**
7:15-7:30	19	18	15	15	15	21	20	**21**
7:30-7:45	17	18	12	16	12	19	21	**21**
7:45-8:00	15	19	15	17	17	19	19	**19**
8:00-8:15	18	20	18	13	18	14	18	**20**
8:15-8:30	19	17	13	16	16	14	17	**19**
8:30-8:45	21	15	13	13	17	12	17	**21**
8:45-9:00	19	14	12	13	19	14	15	**19**
9:00-9:15	20	16	11	14	18	15	18	**20**
9:15-9:30	20	16	14	15	16	19	17	**20**
9:30-9:45	18	17	15	12	14	18	16	**18**
9:45-10:00	17	16	12	11	12	16	16	**17**
10:00-10:15	20	13	10	10	13	15	14	**20**
10:15-10:30	19	12	9	10	15	14	14	**19**
10:30-10:45	18	12	8	8	14	11	14	**18**
10:45-11:00	18	13	7	7	10	11	14	**18**
11:00-11:15	15	15	8	7	11	10	11	**15**
11:15-11:30	17	16	7	8	9	9	12	**17**
11:30-11:45	19	12	6	6	7	8	10	**19**
11:45-12:00	16	9	5	5	8	9	9	**16**
12:00-12:15	16	8	5	6	6	7	8	**16**
12:15-12:30	15	7	4	4	5	5	7	**15**
12:30-12:45	9	5	3	3	3	4	3	**9**
12:45-1:00	8	4	2	2	2	2	5	**8**
Day Peak	**23**	**21**	**20**	**19**	**20**	**21**	**23**	**23**

Indio
(82043 Highway 111, Indio, CA 92201)

MAX Queue Study
In-N-Out, Rancho Mirage

Location: 82043 CA-111
City: Indio

Day: Thursday
Date: 6/27/2019

Time	Queue	Time	Queue
11:00	4	16:00	7
11:05	5	16:05	7
11:10	5	16:10	6
11:15	7	16:15	4
11:20	4	16:20	3
11:25	6	16:25	3
11:30	6	16:30	1
11:35	11	16:35	5
11:40	12	16:40	7
11:45	11	16:45	4
11:50	12	16:50	6
11:55	9	16:55	7
12:00	11	17:00	5
12:05	10	17:05	5
12:10	12	17:10	6
12:15	10	17:15	7
12:20	9	17:20	12
12:25	8	17:25	12
12:30	9	17:30	10
12:35	7	17:35	10
12:40	7	17:40	10
12:45	7	17:45	5
12:50	9	17:50	6
12:55	12	17:55	9
13:00	14	18:00	9
13:05	16	18:05	10
13:10	14	18:10	9
13:15	12	18:15	6
13:20	11	18:20	3
13:25	7	18:25	8
13:30	6	18:30	7
13:35	9	18:35	10
13:40	10	18:40	11
13:45	8	18:45	9
13:50	8	18:50	10
13:55	8	18:55	8
14:00	7	19:00	7
14:05	5	19:05	6
14:10	7	19:10	6
14:15	7	19:15	9
14:20	8	19:20	8
14:25	7	19:25	10
14:30	5	19:30	12
14:35	9	19:35	11
14:40	5	19:40	8
14:45	4	19:45	7
14:50	4	19:50	7
14:55	4	19:55	6
15:00	6	20:00	9
15:05	9	20:05	15
15:10	10	20:10	13
15:15	8	20:15	12
15:20	8	20:20	12
15:25	8	20:25	10
15:30	7	20:30	9
15:35	4	20:35	8
15:40	5	20:40	10
15:45	6	20:45	8
15:50	8	20:50	9
15:55	10	20:55	8

Time	Queue		
21:00	7		
21:05	6		
21:10	8		
21:15	9		
21:20	8		
21:25	8		
21:30	11		
21:35	9		
21:40	12		
21:45	10		
21:50	10		
21:55	12		
22:00	11		
22:05	9		
22:10	8		
22:15	8		
22:20	7		
22:25	8		
22:30	6		
22:35	10		
22:40	7		
22:45	8		
22:50	9		
22:55	8		

MAX Queue Study
In-N-Out, Rancho Mirage

Location: 82043 CA-111
City: Indio

Day: Saturday
Date: 6/22/2019

Time	Queue	Time	Queue
11:00	3	**16:00**	10
11:05	6	**16:05**	8
11:10	4	**16:10**	10
11:15	4	**16:15**	11
11:20	3	**16:20**	15
11:25	3	**16:25**	12
11:30	4	**16:30**	14
11:35	4	**16:35**	14
11:40	7	**16:40**	15
11:45	8	**16:45**	16
11:50	7	**16:50**	16
11:55	8	**16:55**	13
12:00	9	**17:00**	19
12:05	11	**17:05**	18
12:10	7	**17:10**	20
12:15	7	**17:15**	18
12:20	8	**17:20**	22
12:25	7	**17:25**	20
12:30	6	**17:30**	22
12:35	9	**17:35**	20
12:40	6	**17:40**	21
12:45	10	**17:45**	24
12:50	9	**17:50**	20
12:55	11	**17:55**	18
13:00	16	**18:00**	21
13:05	14	**18:05**	18
13:10	11	**18:10**	20
13:15	4	**18:15**	16
13:20	7	**18:20**	14
13:25	7	**18:25**	15
13:30	5	**18:30**	9
13:35	4	**18:35**	10
13:40	6	**18:40**	10
13:45	8	**18:45**	11
13:50	8	**18:50**	9
13:55	8	**18:55**	10
14:00	10	**19:00**	8
14:05	12	**19:05**	7
14:10	12	**19:10**	8
14:15	12	**19:15**	7
14:20	13	**19:20**	7
14:25	12	**19:25**	5
14:30	9	**19:30**	6
14:35	11	**19:35**	5
14:40	11	**19:40**	6
14:45	12	**19:45**	6
14:50	13	**19:50**	9
14:55	15	**19:55**	8
15:00	19	**20:00**	8
15:05	18	**20:05**	9
15:10	13	**20:10**	12
15:15	13	**20:15**	8
15:20	15	**20:20**	9
15:25	14	**20:25**	5
15:30	8	**20:30**	8
15:35	9	**20:35**	6
15:40	9	**20:40**	4
15:45	7	**20:45**	9
15:50	9	**20:50**	12
15:55	11	**20:55**	14

Time	Queue		
21:00	15		
21:05	13		
21:10	13		
21:15	10		
21:20	12		
21:25	10		
21:30	14		
21:35	14		
21:40	15		
21:45	13		
21:50	11		
21:55	14		
22:00	13		
22:05	10		
22:10	12		
22:15	6		
22:20	11		
22:25	7		
22:30	3		
22:35	5		
22:40	6		
22:45	8		
22:50	9		
22:55	9		

La Quinta
(78611 Highway 111, La Quinta, CA 92253)

MAX Queue Study
In-N-Out, Rancho Mirage

Location: 78611 CA-111
City: La Quinta

Day: Thursday
Date: 6/27/2019

Time	Queue	Time	Queue
11:00	7	16:00	13
11:05	7	16:05	15
11:10	8	16:10	13
11:15	7	16:15	18
11:20	7	16:20	18
11:25	6	16:25	21
11:30	4	16:30	20
11:35	7	16:35	19
11:40	12	16:40	18
11:45	11	16:45	19
11:50	13	16:50	20
11:55	12	16:55	19
12:00	14	17:00	22
12:05	18	17:05	18
12:10	21	17:10	18
12:15	22	17:15	15
12:20	19	17:20	17
12:25	17	17:25	18
12:30	19	17:30	19
12:35	15	17:35	18
12:40	18	17:40	21
12:45	18	17:45	19
12:50	17	17:50	15
12:55	17	17:55	8
13:00	16	18:00	13
13:05	15	18:05	13
13:10	18	18:10	16
13:15	18	18:15	22
13:20	17	18:20	17
13:25	20	18:25	20
13:30	18	18:30	22
13:35	18	18:35	23
13:40	15	18:40	20
13:45	16	18:45	21
13:50	16	18:50	19
13:55	14	18:55	17
14:00	12	19:00	18
14:05	14	19:05	21
14:10	12	19:10	15
14:15	14	19:15	16
14:20	14	19:20	12
14:25	13	19:25	5
14:30	15	19:30	7
14:35	15	19:35	6
14:40	12	19:40	6
14:45	12	19:45	17
14:50	13	19:50	15
14:55	13	19:55	16
15:00	13	20:00	16
15:05	15	20:05	16
15:10	14	20:10	15
15:15	17	20:15	17
15:20	13	20:20	16
15:25	13	20:25	13
15:30	11	20:30	15
15:35	7	20:35	11
15:40	3	20:40	11
15:45	2	20:45	16
15:50	13	20:50	14
15:55	14	20:55	19

Time	Queue		
21:00	17		
21:05	17		
21:10	19		
21:15	18		
21:20	14		
21:25	15		
21:30	15		
21:35	7		
21:40	9		
21:45	7		
21:50	16		
21:55	16		
22:00	13		
22:05	15		
22:10	17		
22:15	17		
22:20	13		
22:25	12		
22:30	12		
22:35	12		
22:40	7		
22:45	3		
22:50	5		
22:55	2		

MAX Queue Study
In-N-Out, Rancho Mirage

Location: 78611 CA-111
City: La Quinta

Day: Saturday
Date: 6/22/2019

Time	Queue	Time	Queue
11:00	6	16:00	13
11:05	8	16:05	12
11:10	4	16:10	14
11:15	3	16:15	17
11:20	7	16:20	15
11:25	11	16:25	14
11:30	16	16:30	16
11:35	15	16:35	17
11:40	12	16:40	12
11:45	11	16:45	11
11:50	11	16:50	14
11:55	9	16:55	20
12:00	6	17:00	18
12:05	9	17:05	21
12:10	10	17:10	18
12:15	12	17:15	18
12:20	14	17:20	16
12:25	14	17:25	15
12:30	17	17:30	19
12:35	18	17:35	15
12:40	14	17:40	12
12:45	15	17:45	12
12:50	14	17:50	11
12:55	16	17:55	10
13:00	15	18:00	8
13:05	14	18:05	11
13:10	12	18:10	8
13:15	14	18:15	9
13:20	13	18:20	10
13:25	11	18:25	10
13:30	16	18:30	9
13:35	16	18:35	17
13:40	18	18:40	16
13:45	14	18:45	18
13:50	14	18:50	18
13:55	15	18:55	16
14:00	16	19:00	8
14:05	13	19:05	10
14:10	10	19:10	7
14:15	11	19:15	8
14:20	8	19:20	9
14:25	13	19:25	12
14:30	19	19:30	11
14:35	18	19:35	10
14:40	17	19:40	9
14:45	15	19:45	8
14:50	12	19:50	7
14:55	9	19:55	6
15:00	10	20:00	5
15:05	15	20:05	11
15:10	15	20:10	15
15:15	11	20:15	10
15:20	8	20:20	15
15:25	7	20:25	16
15:30	4	20:30	16
15:35	2	20:35	15
15:40	8	20:40	8
15:45	10	20:45	9
15:50	8	20:50	15
15:55	8	20:55	12

Time	Queue		
21:00	12		
21:05	5		
21:10	5		
21:15	7		
21:20	20		
21:25	20		
21:30	16		
21:35	17		
21:40	14		
21:45	11		
21:50	10		
21:55	12		
22:00	14		
22:05	14		
22:10	13		
22:15	14		
22:20	15		
22:25	16		
22:30	12		
22:35	9		
22:40	7		
22:45	7		
22:50	8		
22:55	11		

Long Beach
(6391 E Pacific Coast Highway, Long Beach, CA 90803)

Wednesday, May 16,2012 CITY: Long Beach PROJECT: In N Out Burger

AM Period	IN		OUT		MAXIMUM QUEUE	PM Period	IN		OUT		MAXIMUM QUEUE
00:00						12:00	31		25		15
00:15						12:15	30		15		15
00:30						12:30	52		50		13
00:45						12:45	25	138	29	119	8
01:00						13:00	29		29		12
01:15						13:15	32		27		13
01:30						13:30	18		23		8
01:45						13:45	X	79	X	79	7
02:00						14:00					8
02:15						14:15					7
02:30						14:30					8
02:45						14:45					6
03:00						15:00					6
03:15						15:15					5
03:30						15:30					4
03:45						15:45					5
04:00						16:00	16		19		6
04:15						16:15	12		17		5
04:30						16:30	14		14		3
04:45						16:45	16	58	10	60	6
05:00						17:00	19		14		5
05:15						17:15	20		19		7
05:30						17:30	19		19		7
05:45						17:45	11	69	21	73	5
06:00						18:00	17		20		12
06:15						18:15	X		X		7
06:30						18:30	X		X		10
06:45						18:45	X	17	X	20	12
07:00						19:00					10
07:15						19:15					11
07:30						19:30					7
07:45						19:45					6
08:00						20:00					8
08:15						20:15					6
08:30						20:30					9
08:45						20:45					10
09:00						21:00					12
09:15						21:15					16
09:30						21:30					14
09:45						21:45					15
10:00						22:00					14
10:15					5	22:15					13
10:30					8	22:30					12
10:45					7	22:45					12
11:00					3	23:00					11
11:15					6	23:15					13
11:30	19		25		7	23:30					9
11:45	21	40	27	52	14	23:45					8
Total Vol.		40		52				361		351	

Daily Total	
IN	**401**
OUT	**361**

Saturday, May 19,2012 CITY: Long Beach PROJECT: In N Out Burger

AM Period	IN		OUT		MAXIMUM QUEUE	PM Period	IN		OUT		MAXIMUM QUEUE
00:00						12:00	17		17		16
00:15						12:15	34		20		14
00:30						12:30	22		30		16
00:45						12:45	32	105	37	104	10
01:00						13:00	33		27		15
01:15						13:15	29		23		16
01:30						13:30	29		33		10
01:45						13:45	X	91	X	83	9
02:00						14:00					12
02:15						14:15					13
02:30						14:30					9
02:45						14:45					8
03:00						15:00					9
03:15						15:15					9
03:30						15:30					6
03:45						15:45					9
04:00						16:00	21		25		8
04:15						16:15	22		16		10
04:30						16:30	21		25		8
04:45						16:45	24	88	24	90	5
05:00						17:00	19		19		9
05:15						17:15	19		21		10
05:30						17:30	28		25		10
05:45						17:45	18	84	19	84	9
06:00						18:00	23		18		13
06:15						18:15					9
06:30						18:30					10
06:45						18:45	X	23	X	18	14
07:00						19:00					12
07:15						19:15					13
07:30						19:30					9
07:45						19:45					9
08:00						20:00					10
08:15						20:15					9
08:30						20:30					11
08:45						20:45					12
09:00						21:00					13
09:15						21:15					17
09:30						21:30					15
09:45						21:45					10
10:00						22:00					12
10:15					4	22:15					14
10:30					7	22:30					13
10:45					9	22:45					11
11:00					7	23:00					9
11:15					8	23:15					10
11:30	25		16		9	23:30					8
11:45	27	52	18	34	16	23:45					6
Total Vol.		52		34				391		379	

Daily Total	
IN	**443**
OUT	**391**

PACIFIC TRAFFIC & TRANSIT DATA SERVICES

Los Angeles
(9149 S Sepulveda Blvd, Los Angeles, CA 90045)

Wednesday, May 16th, 2012 CITY: Los Angeles PROJECT: In-N-Out Burger

AM Period	IN		OUT		MAXIMUM QUEUE	PM Period	IN		OUT		MAXIMUM QUEUE
00:00						12:00	39		35		20
00:15						12:15	48		36		18
00:30						12:30	52		37		21
00:45						12:45	57	196	41	149	19
01:00						13:00	39		45		22
01:15						13:15	36		46		21
01:30						13:30	35		41		20
01:45						13:45	X	110	X	132	20
02:00						14:00					21
02:15						14:15					21
02:30						14:30					22
02:45						14:45					21
03:00						15:00					18
03:15						15:15					17
03:30						15:30					16
03:45						15:45					18
04:00						16:00	31		24		17
04:15						16:15	18		18		15
04:30						16:30	27		28		12
04:45						16:45	33	109	22	92	10
05:00						17:00	34		30		9
05:15						17:15	25		33		14
05:30						17:30	36		23		17
05:45						17:45	32	127	25	111	19
06:00						18:00	30		36		20
06:15						18:15					19
06:30						18:30					20
06:45						18:45					18
07:00						19:00					17
07:15						19:15					18
07:30						19:30					19
07:45						19:45					20
08:00						20:00					21
08:15						20:15					19
08:30						20:30					19
08:45						20:45					20
09:00						21:00					18
09:15						21:15					19
09:30						21:30					20
09:45						21:45					19
10:00					0	22:00					21
10:15					2	22:15					17
10:30					5	22:30					16
10:45					6	22:45					14
11:00					6	23:00					16
11:15					12	23:15					17
11:30	28		32		16	23:30					15
11:45	31	59	29	61	120 19	23:45					13
Total Vol.		59		61				542		484	

Daily Totals		
IN		**OUT**
601		**545**

PACIFIC TRAFFIC & TRANSIT DATA SERVICES

05/19/12 CITY: Los Angeles PROJECT: In-N-Out Burger

AM Period	IN		OUT		MAXIMUM QUEUE	PM Period	IN		OUT		MAXIMUM QUEUE
00:00						12:00	49		38		20
00:15						12:15	49		41		16
00:30						12:30	51		43		20
00:45						12:45	66	215	57	179	20
01:00						13:00	53		49		23
01:15						13:15	54		51		22
01:30						13:30	49		54		20
01:45						13:45	X	156	X	154	20
02:00						14:00					21
02:15						14:15					26
02:30						14:30					22
02:45						14:45					21
03:00						15:00					18
03:15						15:15					17
03:30						15:30					17
03:45						15:45					9
04:00						16:00	28		24		10
04:15						16:15	37		20		14
04:30						16:30	38		25		18
04:45						16:45	25	128	34	103	8
05:00						17:00	15		26		8
05:15						17:15	28		30		9
05:30						17:30	43		24		20
05:45						17:45	33	119	33	113	19
06:00						18:00	35		38		20
06:15						18:15	X		X		19
06:30						18:30	X		X		20
06:45						18:45	X	35	X	38	18
07:00						19:00					19
07:15						19:15					20
07:30						19:30					21
07:45						19:45					22
08:00						20:00					21
08:15						20:15					22
08:30						20:30					18
08:45						20:45					17
09:00						21:00					16
09:15						21:15					19
09:30						21:30					18
09:45						21:45					20
10:00						22:00					19
10:15					3	22:15					18
10:30					4	22:30					19
10:45					6	22:45					18
11:00					8	23:00					21
11:15					11	23:15					17
11:30	31		46		12	23:30					16
11:45	42	73	35	81	18	23:45					14
Total Vol.		73		81				653		587	

Daily Totals	
IN	**OUT**
726	**668**

PACIFIC TRAFFIC & TRANSIT DATA SERVICES

Thousand Palms
(72265 Varner Rd, Thousand Palms, CA 92276)

MAX Queue Study
In-N-Out, Rancho Mirage

Location: 72265 Varner Road
City: Thousand Palms

Day: Thursday
Date: 6/27/2019

Time	Queue	Time	Queue
11:00	12	**16:00**	7
11:05	14	**16:05**	6
11:10	15	**16:10**	4
11:15	15	**16:15**	9
11:20	16	**16:20**	8
11:25	14	**16:25**	10
11:30	18	**16:30**	9
11:35	17	**16:35**	7
11:40	17	**16:40**	5
11:45	13	**16:45**	10
11:50	12	**16:50**	11
11:55	14	**16:55**	10
12:00	17	**17:00**	10
12:05	15	**17:05**	9
12:10	14	**17:10**	10
12:15	13	**17:15**	14
12:20	16	**17:20**	11
12:25	15	**17:25**	12
12:30	14	**17:30**	11
12:35	14	**17:35**	13
12:40	16	**17:40**	12
12:45	18	**17:45**	9
12:50	20	**17:50**	6
12:55	15	**17:55**	7
13:00	10	**18:00**	11
13:05	9	**18:05**	12
13:10	9	**18:10**	11
13:15	12	**18:15**	12
13:20	9	**18:20**	16
13:25	8	**18:25**	12
13:30	11	**18:30**	17
13:35	12	**18:35**	18
13:40	13	**18:40**	16
13:45	10	**18:45**	15
13:50	7	**18:50**	18
13:55	10	**18:55**	15
14:00	14	**19:00**	16
14:05	13	**19:05**	18
14:10	19	**19:10**	19
14:15	21	**19:15**	20
14:20	18	**19:20**	17
14:25	17	**19:25**	17
14:30	14	**19:30**	17
14:35	14	**19:35**	14
14:40	6	**19:40**	15
14:45	7	**19:45**	16
14:50	9	**19:50**	16
14:55	12	**19:55**	12
15:00	12	**20:00**	10
15:05	13	**20:05**	6
15:10	7	**20:10**	6
15:15	8	**20:15**	12
15:20	10	**20:20**	13
15:25	9	**20:25**	17
15:30	11	**20:30**	15
15:35	13	**20:35**	13
15:40	14	**20:40**	15
15:45	13	**20:45**	11
15:50	11	**20:50**	8
15:55	9	**20:55**	9

Time	Queue		
21:00	10		
21:05	12		
21:10	14		
21:15	12		
21:20	15		
21:25	18		
21:30	18		
21:35	17		
21:40	16		
21:45	16		
21:50	19		
21:55	18		
22:00	19		
22:05	18		
22:10	19		
22:15	17		
22:20	20		
22:25	17		
22:30	19		
22:35	18		
22:40	19		
22:45	17		
22:50	14		
22:55	10		

MAX Queue Study
In-N-Out, Rancho Mirage

Location: 72265 Varner Road
City: Thousand Palms

Day: Saturday
Date: 6/22/2019

Time	Queue	Time	Queue
11:00	6	16:00	12
11:05	6	16:05	7
11:10	8	16:10	7
11:15	7	16:15	6
11:20	8	16:20	7
11:25	7	16:25	11
11:30	10	16:30	12
11:35	9	16:35	9
11:40	12	16:40	12
11:45	12	16:45	11
11:50	11	16:50	10
11:55	14	16:55	11
12:00	9	17:00	12
12:05	9	17:05	12
12:10	11	17:10	11
12:15	9	17:15	11
12:20	11	17:20	8
12:25	12	17:25	5
12:30	12	17:30	2
12:35	12	17:35	3
12:40	18	17:40	6
12:45	14	17:45	10
12:50	15	17:50	16
12:55	16	17:55	16
13:00	15	18:00	19
13:05	13	18:05	16
13:10	15	18:10	12
13:15	15	18:15	11
13:20	13	18:20	13
13:25	14	18:25	17
13:30	17	18:30	14
13:35	18	18:35	15
13:40	17	18:40	15
13:45	15	18:45	15
13:50	17	18:50	18
13:55	18	18:55	20
14:00	14	19:00	19
14:05	14	19:05	15
14:10	14	19:10	16
14:15	10	19:15	13
14:20	14	19:20	12
14:25	16	19:25	11
14:30	18	19:30	12
14:35	16	19:35	12
14:40	17	19:40	12
14:45	15	19:45	12
14:50	14	19:50	14
14:55	15	19:55	10
15:00	15	20:00	10
15:05	15	20:05	10
15:10	11	20:10	13
15:15	16	20:15	13
15:20	17	20:20	17
15:25	16	20:25	15
15:30	15	20:30	12
15:35	13	20:35	16
15:40	15	20:40	17
15:45	11	20:45	19
15:50	14	20:50	17
15:55	14	20:55	16

Time	Queue		
21:00	12		
21:05	11		
21:10	9		
21:15	13		
21:20	14		
21:25	15		
21:30	13		
21:35	16		
21:40	18		
21:45	15		
21:50	16		
21:55	14		
22:00	8		
22:05	12		
22:10	16		
22:15	19		
22:20	20		
22:25	14		
22:30	16		
22:35	14		
22:40	11		
22:45	9		
22:50	6		
22:55	10		

Appendix D: HCM Analysis Output Sheets

HCS Two-Way Stop-Control Report

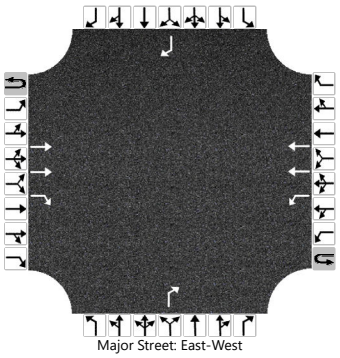
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2024
Time Analyzed	Existing MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 SB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 SB
Peak Hour Factor	0.96
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	1	2	0		0	0	1		0	0	1
Configuration			T	R		L	T					R				R
Volume (veh/h)			479	24	1	288	394					549				131
Percent Heavy Vehicles (%)					1	1						1				2
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No								Yes				Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)					6.4	4.1						6.9				6.9
Critical Headway (sec)					6.42	4.12						6.92				6.93
Base Follow-Up Headway (sec)					2.5	2.2						3.3				3.3
Follow-Up Headway (sec)					2.51	2.21						3.31				3.32

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						301						572				136
Capacity, c (veh/h)						1027						753				802
v/c Ratio						0.29						0.76				0.17
95% Queue Length, Q_{95} (veh)						1.2						7.2				0.6
95% Queue Length, Q_{95} (ft)						30.2						181.4				15.2
Control Delay (s/veh)						10.0						23.2				10.4
Level of Service (LOS)						A						C				B
Approach Delay (s/veh)					4.2				23.2				10.4			
Approach LOS					A				C				B			

HCS Two-Way Stop-Control Report

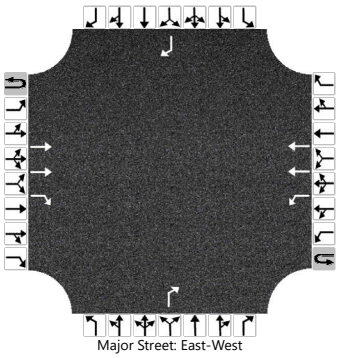
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2024
Time Analyzed	Existing PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 SB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 SB
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	1	2	0		0	0	1		0	0	1
Configuration			T	R		L	T					R				R
Volume (veh/h)			572	36	0	699	708					500				177
Percent Heavy Vehicles (%)					0	0						0				3
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No								Yes				Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)						4.1						6.9				6.9
Critical Headway (sec)						4.10						6.90				6.96
Base Follow-Up Headway (sec)						2.2						3.3				3.3
Follow-Up Headway (sec)						2.20						3.30				3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						736						526				186
Capacity, c (veh/h)						954						701				622
v/c Ratio						0.77						0.75				0.30
95% Queue Length, Q_{95} (veh)						7.9						6.9				1.3
95% Queue Length, Q_{95} (ft)						197.5						172.5				33.3
Control Delay (s/veh)						20.2						23.9				13.2
Level of Service (LOS)						C						C				B
Approach Delay (s/veh)					10.1				23.9				13.2			
Approach LOS					B				C				B			

HCS Two-Way Stop-Control Report

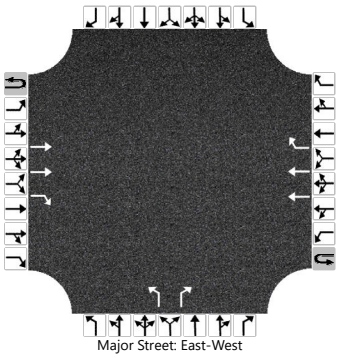
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2024
Time Analyzed	Existing MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 NB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 NB
Peak Hour Factor	0.98
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	0	2	1		1	0	1		0	0	0
Configuration			T	R			T	R		L		R				
Volume (veh/h)			912	105			667	583		13		302				
Percent Heavy Vehicles (%)										1		1				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized			No				Yes			Yes						
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)										7.5		6.9				
Critical Headway (sec)										7.52		6.92				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.51		3.31				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										13		308				
Capacity, c (veh/h)										126		547				
v/c Ratio										0.11		0.56				
95% Queue Length, Q_{95} (veh)										0.3		3.5				
95% Queue Length, Q_{95} (ft)										7.6		88.1				
Control Delay (s/veh)										37.0		19.7				
Level of Service (LOS)										E		C				
Approach Delay (s/veh)										20.5						
Approach LOS										C						

HCS Two-Way Stop-Control Report

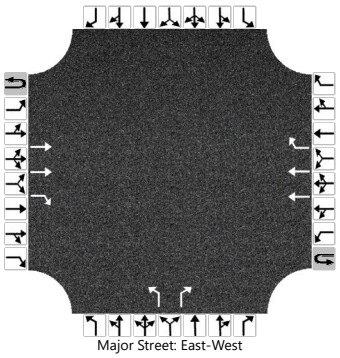
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2024
Time Analyzed	Existing PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 NB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 NB
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	0	2	1		1	0	1		0	0	0
Configuration			T	R			T	R		L		R				
Volume (veh/h)			926	151			1360	991		49		424				
Percent Heavy Vehicles (%)										0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized			No				Yes			Yes						
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)										7.5		6.9				
Critical Headway (sec)										7.50		6.90				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.50		3.30				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										52		446				
Capacity, c (veh/h)										62		532				
v/c Ratio										0.83		0.84				
95% Queue Length, Q_{95} (veh)										3.8		8.7				
95% Queue Length, Q_{95} (ft)										95.0		217.5				
Control Delay (s/veh)										178.0		37.8				
Level of Service (LOS)										F		E				
Approach Delay (s/veh)										52.4						
Approach LOS										F						

HCS Two-Way Stop-Control Report

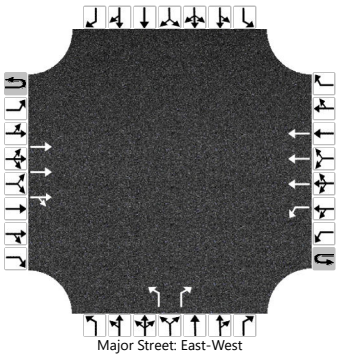
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2024
Time Analyzed	Existing MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Mulberry
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Mulberry Street
Peak Hour Factor	0.99
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	1	3	0		1	0	1		0	0	0
Configuration			T	TR		L	T			L		R				
Volume (veh/h)			1157	52	6	40	1206			41		47				
Percent Heavy Vehicles (%)					0	1				0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized										No						
Median Type | Storage			Left + Thru							1						

Critical and Follow-up Headways

Base Critical Headway (sec)					5.6	5.3				6.4		7.1				
Critical Headway (sec)					5.60	5.32				5.70		7.10				
Base Follow-Up Headway (sec)					2.3	3.1				3.8		3.9				
Follow-Up Headway (sec)					2.30	3.11				3.80		3.90				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						46				41		47				
Capacity, c (veh/h)						321				155		378				
v/c Ratio						0.14				0.27		0.13				
95% Queue Length, Q_{95} (veh)						0.5				1.0		0.4				
95% Queue Length, Q_{95} (ft)						12.6				25.0		10.0				
Control Delay (s/veh)						18.1	2.4			36.4		15.9				
Level of Service (LOS)						C	A			E		C				
Approach Delay (s/veh)					2.9				25.5							
Approach LOS					A				D							

HCS Two-Way Stop-Control Report

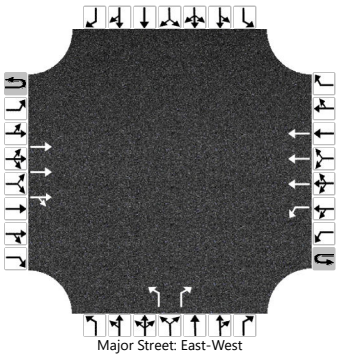
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2024
Time Analyzed	Existing PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Mulberry
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Mulberry Street
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	1	3	0		1	0	1		0	0	0
Configuration			T	TR		L	T			L		R				
Volume (veh/h)			1270	73	4	29	2298			24		36				
Percent Heavy Vehicles (%)					0	0				0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized										No						
Median Type | Storage			Left + Thru							1						

Critical and Follow-up Headways

Base Critical Headway (sec)					5.6	5.3				6.4		7.1				
Critical Headway (sec)					5.60	5.30				5.70		7.10				
Base Follow-Up Headway (sec)					2.3	3.1				3.8		3.9				
Follow-Up Headway (sec)					2.30	3.10				3.80		3.90				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						35				25		38				
Capacity, c (veh/h)						261				103		328				
v/c Ratio						0.13				0.25		0.12				
95% Queue Length, Q_{95} (veh)						0.5				0.9		0.4				
95% Queue Length, Q_{95} (ft)						12.5				22.5		10.0				
Control Delay (s/veh)						20.9	2.7			50.9		17.4				
Level of Service (LOS)						C	A			F		C				
Approach Delay (s/veh)					3.0				30.8							
Approach LOS					A				D							

HCS Two-Way Stop-Control Report

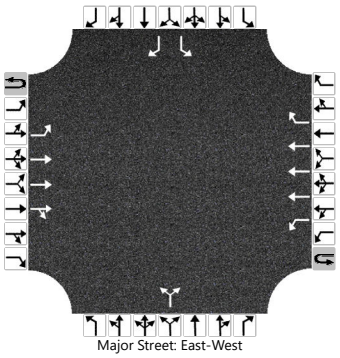
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2024
Time Analyzed	Existing MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Alumni
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Alumni Drive
Peak Hour Factor	0.97
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	3	0	0	1	3	1		0	1	0		1	0	1
Configuration		L	T	TR		L	T	R			LR			L		R
Volume (veh/h)	23	4	1141	49	3	39	1212	6		23		39		2		4
Percent Heavy Vehicles (%)	0	0			0	0				0		0		0		0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized					No								No			
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

Base Critical Headway (sec)	5.6	5.3			5.6	5.3				6.4		7.1		6.4		7.1
Critical Headway (sec)	5.60	5.30			5.60	5.30				6.40		7.10		6.40		7.10
Base Follow-Up Headway (sec)	2.3	3.1			2.3	3.1				3.8		3.9		3.8		3.9
Follow-Up Headway (sec)	2.30	3.10			2.30	3.10				3.80		3.90		3.80		3.90

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		28				43					64			2		4
Capacity, c (veh/h)		450				311					188			86		369
v/c Ratio		0.06				0.14					0.34			0.02		0.01
95% Queue Length, Q_{95} (veh)		0.2				0.5					1.4			0.1		0.0
95% Queue Length, Q_{95} (ft)		5.0				12.5					35.0			2.5		0.0
Control Delay (s/veh)		13.5				18.4					33.7			47.9		14.9
Level of Service (LOS)		B				C					D			E		B
Approach Delay (s/veh)	0.3				0.6				33.7				25.9			
Approach LOS	A				A				D				D			

HCS Two-Way Stop-Control Report

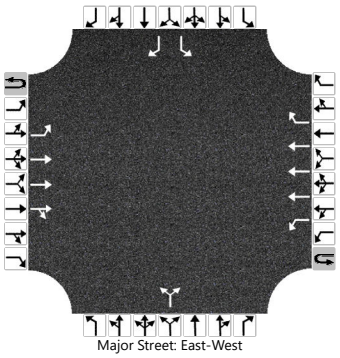
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2024
Time Analyzed	Existing PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Alumni
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Alumni Drive
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	3	0	0	1	3	1		0	1	0		1	0	1
Configuration		L	T	TR		L	T	R			LR			L		R
Volume (veh/h)	17	2	1258	28	4	36	2294	0		10		35		0		2
Percent Heavy Vehicles (%)	0	0			0	0				0		3		0		0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized					No								No			
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

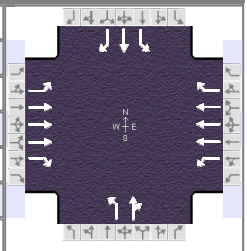
Base Critical Headway (sec)	5.6	5.3			5.6	5.3				6.4		7.1		6.4		7.1
Critical Headway (sec)	5.60	5.30			5.60	5.30				6.40		7.16		6.40		7.10
Base Follow-Up Headway (sec)	2.3	3.1			2.3	3.1				3.8		3.9		3.8		3.9
Follow-Up Headway (sec)	2.30	3.10			2.30	3.10				3.80		3.93		3.80		3.90

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		20				42					47			0		2
Capacity, c (veh/h)		149				273					173			13		153
v/c Ratio		0.13				0.15					0.27			0.00		0.01
95% Queue Length, Q_{95} (veh)		0.5				0.5					1.1			0.0		0.0
95% Queue Length, Q_{95} (ft)		12.5				12.5					28.0					0.0
Control Delay (s/veh)		33.0				20.6					33.5			282.2		28.9
Level of Service (LOS)		D				C					D			F		D
Approach Delay (s/veh)	0.5				0.4				33.5				28.9			
Approach LOS	A				A				D				D			

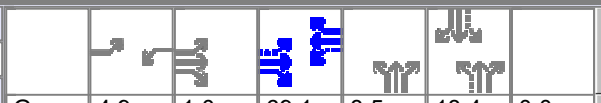
HCS Signalized Intersection Results Summary

General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Existing MD	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2024	Analysis Period	1> 7:00
Intersection	University and Gibson	File Name	5 University-Gibson Existing MD.xus		
Project Description	Gibson In-N-Out Existing MD				

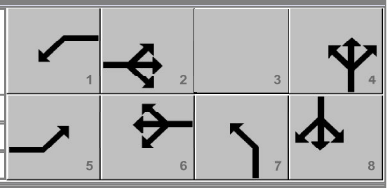


Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	140	856	131	108	1020	104	179	91	89	160	77	128

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	4.9	1.0	69.1	8.5	18.4	0.0						
Yellow	3.0	0.0	4.5	3.0	4.0	0.0						
Red	0.5	0.0	1.0	0.5	1.5	0.0						



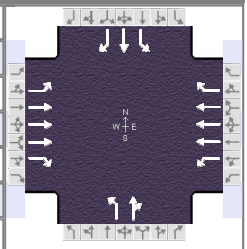
Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6	7	4		8
Case Number	1.1	3.0	1.1	3.0	1.0	4.0		5.3
Phase Duration, s	9.4	75.6	8.4	74.6	12.0	35.9		23.9
Change Period, ($Y+R_c$), s	3.5	5.5	3.5	5.5	3.5	5.5		5.5
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0	3.1	3.4		3.4
Queue Clearance Time (g_s), s	5.8		4.9		10.5	12.3		17.3
Green Extension Time (g_e), s	0.2	0.0	0.2	0.0	0.0	1.2		1.2
Phase Call Probability	0.99		0.97		1.00	1.00		1.00
Max Out Probability	0.00		0.00		1.00	0.00		0.00

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3	8	18
Adjusted Flow Rate (*v*), veh/h	140	856	131	108	1020	104	179	180		160	77	128
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1725	1598	1810	1712	1610	1810	1745		1223	1900	1610
Queue Service Time (g_s), s	3.8	9.9	4.5	2.9	12.6	3.5	8.5	10.3		15.3	4.3	8.8
Cycle Queue Clearance Time (g_c), s	3.8	9.9	4.5	2.9	12.6	3.5	8.5	10.3		15.3	4.3	8.8
Green Ratio (*g/C*)	0.63	0.58	0.58	0.62	0.58	0.58	0.24	0.25		0.15	0.15	0.15
Capacity (*c*), veh/h	414	3025	934	452	2958	927	347	443		248	292	247
Volume-to-Capacity Ratio (*X*)	0.338	0.283	0.140	0.239	0.345	0.112	0.516	0.407		0.645	0.264	0.517
Back of Queue (*Q*), ft/ln (95 th percentile)	62	161	70	48	203	56	23	194		209	93	162
Back of Queue (*Q*), veh/ln (95 th percentile)	2.5	6.5	2.8	1.9	8.1	2.2	0.9	7.8		8.4	3.7	6.5
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Uniform Delay (d_1), s/veh	10.0	12.4	11.3	9.9	13.5	11.5	39.4	37.3		49.4	44.8	46.7
Incremental Delay (d_2), s/veh	0.2	0.2	0.3	0.1	0.3	0.2	0.6	0.2		1.1	0.2	0.6
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Control Delay (*d*), s/veh	10.2	12.7	11.6	10.0	13.8	11.8	40.0	37.5		50.5	45.0	47.3
Level of Service (LOS)	B	B	B	B	B	B	D	D		D	D	D
Approach Delay, s/veh / LOS	12.2	B		13.3	B		38.7	D		48.2	D	
Intersection Delay, s/veh / LOS	20.0						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.89	B	2.08	B	2.72	C	2.73	C
Bicycle LOS Score / LOS	1.11	A	1.17	A	1.08	A	1.09	A

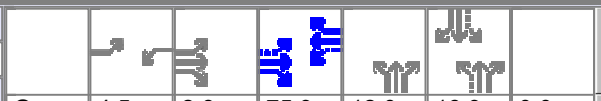
HCS Signalized Intersection Results Summary

General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Existing PM	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2024	Analysis Period	1> 7:00
Intersection	University and Gibson	File Name	5 University-Gibson Existing PM.xus		
Project Description	Gibson In-N-Out Existing PM				

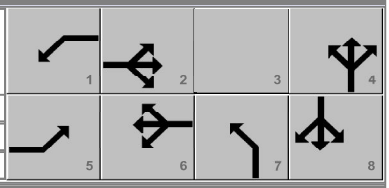


Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	178	1119	113	89	2008	186	167	79	66	138	57	137

Signal Information			
Cycle, s	130.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	4.5	2.8	75.9	12.0	16.9	0.0
Yellow	3.0	0.0	4.5	3.0	4.0	0.0
Red	0.5	0.0	1.0	0.5	1.5	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6	7	4		8
Case Number	1.1	3.0	1.1	3.0	1.0	4.0		5.3
Phase Duration, s	10.7	84.1	8.0	81.4	15.5	37.9		22.4
Change Period, ($Y+R_c$), s	3.5	5.5	3.5	5.5	3.5	5.5		5.5
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0	3.1	3.3		3.3
Queue Clearance Time (g_s), s	7.0		4.6		12.1	10.8		15.9
Green Extension Time (g_e), s	0.3	0.0	0.1	0.0	0.0	1.0		1.0
Phase Call Probability	1.00		0.96		1.00	1.00		1.00
Max Out Probability	0.00		0.00		1.00	0.00		0.00

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3	8	18
Adjusted Flow Rate (*v*), veh/h	178	1119	113	89	2008	186	167	145		138	57	137
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1725	1598	1810	1712	1610	1810	1756		1263	1900	1610
Queue Service Time (g_s), s	5.0	14.2	3.9	2.6	34.8	7.1	10.1	8.8		13.9	3.5	10.5
Cycle Queue Clearance Time (g_c), s	5.0	14.2	3.9	2.6	34.8	7.1	10.1	8.8		13.9	3.5	10.5
Green Ratio (*g/C*)	0.65	0.60	0.60	0.62	0.58	0.58	0.24	0.25		0.13	0.13	0.13
Capacity (*c*), veh/h	225	3130	966	363	2996	940	364	438		219	246	209
Volume-to-Capacity Ratio (*X*)	0.792	0.358	0.117	0.245	0.670	0.198	0.459	0.331		0.630	0.231	0.656
Back of Queue (*Q*), ft/ln (95 th percentile)	150	223	62	44	475	114	199	170		200	77	195
Back of Queue (*Q*), veh/ln (95 th percentile)	6.0	8.9	2.5	1.7	18.9	4.6	7.9	6.8		8.0	3.1	7.8
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Uniform Delay (d_1), s/veh	23.8	13.0	10.9	10.8	18.5	12.7	41.7	39.9		55.3	50.8	53.8
Incremental Delay (d_2), s/veh	2.4	0.3	0.2	0.1	1.2	0.5	0.3	0.2		1.1	0.2	1.3
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Control Delay (*d*), s/veh	26.3	13.3	11.2	10.9	19.7	13.2	42.1	40.1		56.4	50.9	55.1
Level of Service (LOS)	C	B	B	B	B	B	D	D		E	D	E
Approach Delay, s/veh / LOS	14.8	B		18.9	B		41.2	D		54.9	D	
Intersection Delay, s/veh / LOS	21.9						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.89	B	2.09	B	2.73	C	2.74	C
Bicycle LOS Score / LOS	1.26	A	1.74	B	1.00	A	1.04	A

HCS Two-Way Stop-Control Report

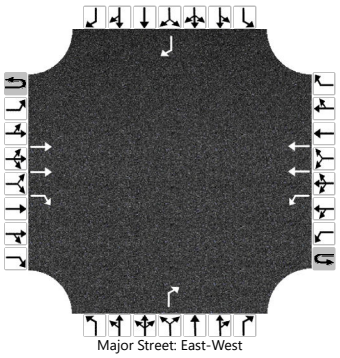
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	2026 Background MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 SB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 SB
Peak Hour Factor	0.96
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	1	2	0		0	0	1		0	0	1
Configuration			T	R		L	T					R				R
Volume (veh/h)			540	25	1	309	423					608				132
Percent Heavy Vehicles (%)					1	1						1				2
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No								Yes				Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)					6.4	4.1						6.9				6.9
Critical Headway (sec)					6.42	4.12						6.92				6.93
Base Follow-Up Headway (sec)					2.5	2.2						3.3				3.3
Follow-Up Headway (sec)					2.51	2.21						3.31				3.32

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						323						633				138
Capacity, c (veh/h)						953						719				785
v/c Ratio						0.34						0.88				0.18
95% Queue Length, Q_{95} (veh)						1.5						11.0				0.6
95% Queue Length, Q_{95} (ft)						37.8						277.2				15.2
Control Delay (s/veh)						10.7						35.2				10.6
Level of Service (LOS)						B						E				B
Approach Delay (s/veh)					4.5				35.2				10.6			
Approach LOS					A				E				B			

HCS Two-Way Stop-Control Report

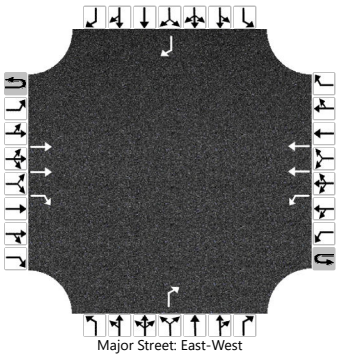
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Background PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 SB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 SB
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	1	2	0		0	0	1		0	0	1
Configuration			T	R		L	T					R				R
Volume (veh/h)			625	37	2	726	736					538				178
Percent Heavy Vehicles (%)					0	0						0				3
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No								Yes				Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)					6.4	4.1						6.9				6.9
Critical Headway (sec)					6.40	4.10						6.90				6.96
Base Follow-Up Headway (sec)					2.5	2.2						3.3				3.3
Follow-Up Headway (sec)					2.50	2.20						3.30				3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						766						566				187
Capacity, c (veh/h)						886						673				608
v/c Ratio						0.86						0.84				0.31
95% Queue Length, Q_{95} (veh)						11.0						9.4				1.3
95% Queue Length, Q_{95} (ft)						275.0						235.0				33.3
Control Delay (s/veh)						28.7						32.2				13.5
Level of Service (LOS)						D						D				B
Approach Delay (s/veh)					14.3				32.2				13.5			
Approach LOS					B				D				B			

HCS Two-Way Stop-Control Report

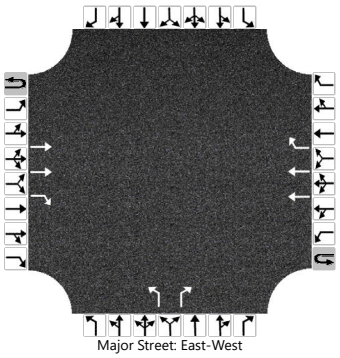
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Background MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 NB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 NB
Peak Hour Factor	0.98
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	0	2	1		1	0	1		0	0	0
Configuration			T	R			T	R		L		R				
Volume (veh/h)			1038	107			717	623		13		340				
Percent Heavy Vehicles (%)										1		1				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized			No				Yes			Yes						
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)										7.5		6.9				
Critical Headway (sec)										7.52		6.92				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.51		3.31				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										13		347				
Capacity, c (veh/h)										97		497				
v/c Ratio										0.14		0.70				
95% Queue Length, Q_{95} (veh)										0.5		5.4				
95% Queue Length, Q_{95} (ft)										12.6		136.0				
Control Delay (s/veh)										48.0		27.4				
Level of Service (LOS)										E		D				
Approach Delay (s/veh)										28.1						
Approach LOS										D						

HCS Two-Way Stop-Control Report

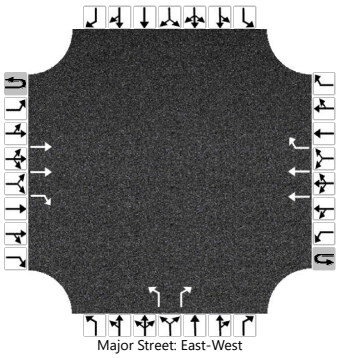
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Background PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 NB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 NB
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	0	2	1		1	0	1		0	0	0
Configuration			T	R			T	R		L		R				
Volume (veh/h)			1021	154			1414	1030		50		462				
Percent Heavy Vehicles (%)										0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized			No				Yes			Yes						
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)										7.5		6.9				
Critical Headway (sec)										7.50		6.90				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.50		3.30				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										53		486				
Capacity, c (veh/h)										50		493				
v/c Ratio										1.06		0.99				
95% Queue Length, Q_{95} (veh)										4.6		13.1				
95% Queue Length, Q_{95} (ft)										115.0		327.5				
Control Delay (s/veh)										278.2		66.1				
Level of Service (LOS)										F		F				
Approach Delay (s/veh)										86.8						
Approach LOS										F						

HCS Two-Way Stop-Control Report

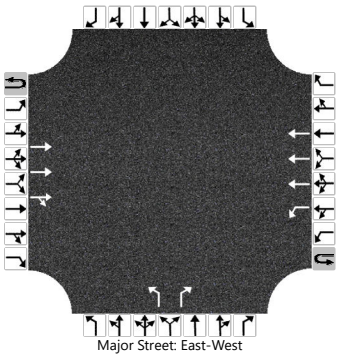
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2026
Time Analyzed	BO Background MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Mulberry
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Mulberry Street
Peak Hour Factor	0.99
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	1	3	0		1	0	1		0	0	0
Configuration			T	TR		L	T			L		R				
Volume (veh/h)			1320	53	6	43	1295			42		52				
Percent Heavy Vehicles (%)					0	1				0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized										No						
Median Type | Storage			Left + Thru							1						

Critical and Follow-up Headways

Base Critical Headway (sec)					5.6	5.3				6.4		7.1				
Critical Headway (sec)					5.60	5.32				5.70		7.10				
Base Follow-Up Headway (sec)					2.3	3.1				3.8		3.9				
Follow-Up Headway (sec)					2.30	3.11				3.80		3.90				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						49				42		53				
Capacity, c (veh/h)						265				123		334				
v/c Ratio						0.19				0.35		0.16				
95% Queue Length, Q_{95} (veh)						0.7				1.4		0.6				
95% Queue Length, Q_{95} (ft)						17.6				35.0		15.0				
Control Delay (s/veh)						21.6	3.6			49.1		17.8				
Level of Service (LOS)						C	A			E		C				
Approach Delay (s/veh)					4.3				31.8							
Approach LOS					A				D							

HCS Two-Way Stop-Control Report

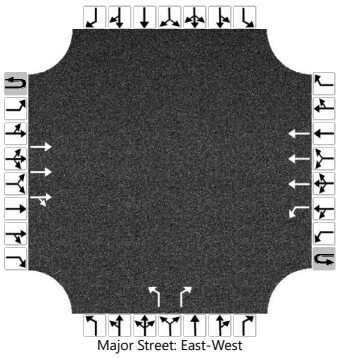
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2026
Time Analyzed	BO Background PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Mulberry
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Mulberry Street
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	1	3	0		1	0	1		0	0	0
Configuration			T	TR		L	T			L		R				
Volume (veh/h)			1403	75	4	31	2390			24		40				
Percent Heavy Vehicles (%)					0	0				0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized										No						
Median Type | Storage			Left + Thru							1						

Critical and Follow-up Headways

Base Critical Headway (sec)					5.6	5.3				6.4		7.1				
Critical Headway (sec)					5.60	5.30				5.70		7.10				
Base Follow-Up Headway (sec)					2.3	3.1				3.8		3.9				
Follow-Up Headway (sec)					2.30	3.10				3.80		3.90				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						37				25		42				
Capacity, c (veh/h)						222				85		295				
v/c Ratio						0.17				0.30		0.14				
95% Queue Length, Q_{95} (veh)						0.6				1.1		0.5				
95% Queue Length, Q_{95} (ft)						15.0				27.5		12.5				
Control Delay (s/veh)						24.4	4.0			64.2		19.2				
Level of Service (LOS)						C	A			F		C				
Approach Delay (s/veh)					4.2				36.1							
Approach LOS					A				E							

HCS Two-Way Stop-Control Report

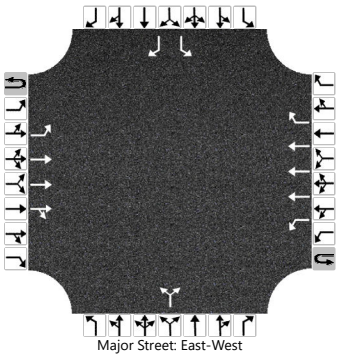
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2026
Time Analyzed	Background MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Alumni
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Alumni Drive
Peak Hour Factor	0.97
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	3	0	0	1	3	1		0	1	0		1	0	1
Configuration		L	T	TR		L	T	R			LR			L		R
Volume (veh/h)	24	43	1269	50	3	40	1278	32		23		40		40		29
Percent Heavy Vehicles (%)	0	0			0	0				0		0		0		0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized					No								No			
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

Base Critical Headway (sec)	5.6	5.3			5.6	5.3				6.4		7.1		6.4		7.1
Critical Headway (sec)	5.60	5.30			5.60	5.30				6.40		7.10		6.40		7.10
Base Follow-Up Headway (sec)	2.3	3.1			2.3	3.1				3.8		3.9		3.8		3.9
Follow-Up Headway (sec)	2.30	3.10			2.30	3.10				3.80		3.90		3.80		3.90

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		69				44					65			41		30
Capacity, c (veh/h)		310				268					125			68		350
v/c Ratio		0.22				0.17					0.52			0.61		0.09
95% Queue Length, Q_{95} (veh)		0.8				0.6					2.4			2.6		0.3
95% Queue Length, Q_{95} (ft)		20.0				15.0					60.0			65.0		7.5
Control Delay (s/veh)		19.9				21.1					61.4			119.7		16.2
Level of Service (LOS)		C				C					F			F		C
Approach Delay (s/veh)	1.0				0.7				61.4				76.2			
Approach LOS	A				A				F				F			

HCS Two-Way Stop-Control Report

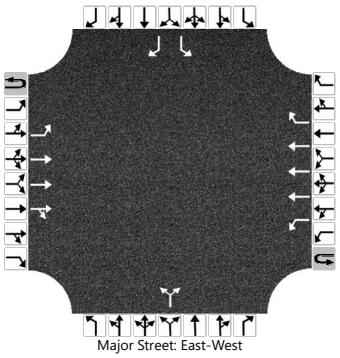
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2026
Time Analyzed	Background PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Alumni
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Alumni Drive
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	3	0	0	1	3	1		0	1	0		1	0	1
Configuration		L	T	TR		L	T	R			LR			L		R
Volume (veh/h)	17	31	1365	29	4	37	2368	19		10		36		27		20
Percent Heavy Vehicles (%)	0	0			0	0				0		3		0		0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized					No								No			
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

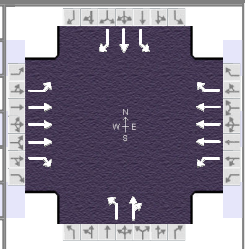
Base Critical Headway (sec)	5.6	5.3			5.6	5.3				6.4		7.1		6.4		7.1
Critical Headway (sec)	5.60	5.30			5.60	5.30				6.40		7.16		6.40		7.10
Base Follow-Up Headway (sec)	2.3	3.1			2.3	3.1				3.8		3.9		3.8		3.9
Follow-Up Headway (sec)	2.30	3.10			2.30	3.10				3.80		3.93		3.80		3.90

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		51				43					48			28		21
Capacity, c (veh/h)		84				240					87			10		144
v/c Ratio		0.60				0.18					0.55			2.93		0.15
95% Queue Length, Q_{95} (veh)		2.7				0.6					2.5			4.6		0.5
95% Queue Length, Q_{95} (ft)		67.5				15.0					63.6			115.0		12.5
Control Delay (s/veh)		97.5				23.2					88.7			1632.4		34.2
Level of Service (LOS)		F				C					F			F		D
Approach Delay (s/veh)	3.2				0.4				88.7				952.3			
Approach LOS	A				A				F				F			

HCS Signalized Intersection Results Summary

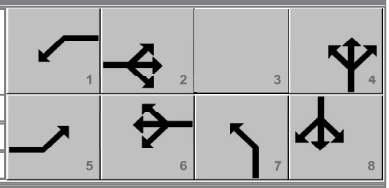
General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Background MD	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2026	Analysis Period	1> 7:00
Intersection	University and Gibson	File Name	5 University-Gibson BO Background MD.xus		
Project Description	Gibson In-N-Out BO Background MD				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	148	1007	138	113	1100	109	193	96	101	179	81	138

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	5.2	1.1	66.5	8.5	20.6	0.0
Yellow	3.0	0.0	4.5	3.0	4.0	0.0
Red	0.5	0.0	1.0	0.5	1.5	0.0



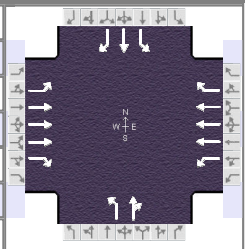
Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6	7	4		8
Case Number	1.1	3.0	1.1	3.0	1.0	4.0		5.3
Phase Duration, s	9.9	73.1	8.7	72.0	12.0	38.1		26.1
Change Period, ($Y+R_c$), s	3.5	5.5	3.5	5.5	3.5	5.5		5.5
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0	3.1	3.4		3.4
Queue Clearance Time (g_s), s	6.2		5.2		10.5	13.2		19.3
Green Extension Time (g_e), s	0.2	0.0	0.2	0.0	0.0	1.3		1.3
Phase Call Probability	0.99		0.98		1.00	1.00		1.00
Max Out Probability	0.00		0.00		1.00	0.00		0.00

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3	8	18
Adjusted Flow Rate (*v*), veh/h	148	1007	138	113	1100	109	193	197		179	81	138
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1725	1598	1810	1712	1610	1810	1739		1204	1900	1610
Queue Service Time (g_s), s	4.2	12.6	5.0	3.2	14.6	3.9	8.5	11.2		17.3	4.4	9.3
Cycle Queue Clearance Time (g_c), s	4.2	12.6	5.0	3.2	14.6	3.9	8.5	11.2		17.3	4.4	9.3
Green Ratio (*g/C*)	0.61	0.56	0.56	0.60	0.55	0.55	0.26	0.27		0.17	0.17	0.17
Capacity (*c*), veh/h	381	2917	900	390	2846	892	369	473		267	326	277
Volume-to-Capacity Ratio (*X*)	0.388	0.345	0.153	0.290	0.387	0.122	0.523	0.417		0.671	0.248	0.499
Back of Queue (*Q*), ft/ln (95 th percentile)	70	205	79	54	232	62	37	206		228	96	171
Back of Queue (*Q*), veh/ln (95 th percentile)	2.8	8.2	3.1	2.2	9.2	2.5	1.5	8.2		9.1	3.8	6.8
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Uniform Delay (d_1), s/veh	11.3	14.2	12.5	11.3	15.2	12.8	38.2	35.9		48.3	43.0	45.0
Incremental Delay (d_2), s/veh	0.2	0.3	0.4	0.2	0.4	0.3	0.7	0.2		1.1	0.1	0.5
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Control Delay (*d*), s/veh	11.6	14.5	12.9	11.5	15.6	13.1	38.9	36.1		49.4	43.1	45.5
Level of Service (LOS)	B	B	B	B	B	B	D	D		D	D	D
Approach Delay, s/veh / LOS	14.0	B		15.0	B		37.5	D		46.8	D	
Intersection Delay, s/veh / LOS	20.9						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.90	B	2.09	B	2.72	C	2.73	C
Bicycle LOS Score / LOS	1.20	A	1.21	A	1.13	A	1.14	A

HCS Signalized Intersection Results Summary

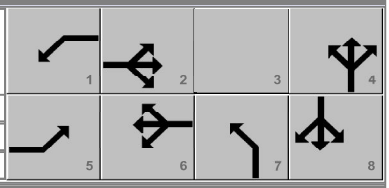
General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Background PM	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2026	Analysis Period	1> 7:00
Intersection	University and Gibson	File Name	5 University-Gibson BO Background PM.xus		
Project Description	Gibson In-N-Out BO Background PM				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	185	1245	117	92	2093	191	178	84	73	152	60	146

Signal Information			
Cycle, s	130.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	4.7	2.9	73.8	12.1	18.5	0.0	
Yellow	3.0	0.0	4.5	3.0	4.0	0.0	
Red	0.5	0.0	1.0	0.5	1.5	0.0	



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6	7	4		8
Case Number	1.1	3.0	1.1	3.0	1.0	4.0		5.3
Phase Duration, s	11.1	82.2	8.2	79.3	15.6	39.6		24.0
Change Period, ($Y+R_c$), s	3.5	5.5	3.5	5.5	3.5	5.5		5.5
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0	3.1	3.4		3.4
Queue Clearance Time (g_s), s	7.4		4.8		12.6	11.4		17.4
Green Extension Time (g_e), s	0.3	0.0	0.1	0.0	0.0	1.1		1.1
Phase Call Probability	1.00		0.96		1.00	1.00		1.00
Max Out Probability	0.00		0.00		1.00	0.00		0.00

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3	8	18
Adjusted Flow Rate (*v*), veh/h	185	1245	117	92	2093	191	178	157		152	60	146
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1725	1598	1810	1712	1610	1810	1753		1249	1900	1610
Queue Service Time (g_s), s	5.4	16.9	4.2	2.8	38.7	7.6	10.6	9.4		15.4	3.6	11.1
Cycle Queue Clearance Time (g_c), s	5.4	16.9	4.2	2.8	38.7	7.6	10.6	9.4		15.4	3.6	11.1
Green Ratio (*g/C*)	0.64	0.59	0.59	0.60	0.57	0.57	0.25	0.26		0.14	0.14	0.14
Capacity (*c*), veh/h	216	3054	943	322	2914	914	380	460		233	270	229
Volume-to-Capacity Ratio (*X*)	0.858	0.408	0.124	0.285	0.718	0.209	0.469	0.341		0.652	0.222	0.637
Back of Queue (*Q*), ft/ln (95 th percentile)	155	259	67	48	527	123	207	182		216	79	203
Back of Queue (*Q*), veh/ln (95 th percentile)	6.2	10.3	2.7	1.9	20.9	4.9	8.3	7.3		8.6	3.2	8.1
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Uniform Delay (d_1), s/veh	26.2	14.4	11.8	12.0	20.5	13.8	40.6	38.9		54.4	49.4	52.6
Incremental Delay (d_2), s/veh	4.0	0.4	0.3	0.2	1.6	0.5	0.3	0.2		1.2	0.2	1.1
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Control Delay (*d*), s/veh	30.2	14.8	12.1	12.2	22.1	14.3	40.9	39.0		55.6	49.5	53.7
Level of Service (LOS)	C	B	B	B	C	B	D	D		E	D	D
Approach Delay, s/veh / LOS	16.4	B		21.1	C		40.0	D		53.8	D	
Intersection Delay, s/veh / LOS	23.4						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.89	B	2.09	B	2.73	C	2.74	C
Bicycle LOS Score / LOS	1.34	A	1.79	B	1.04	A	1.08	A

HCS Two-Way Stop-Control Report

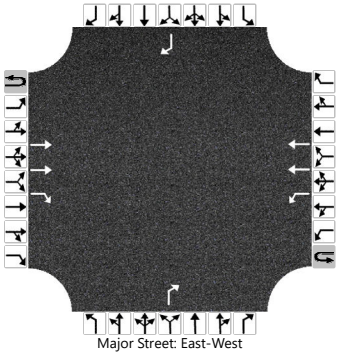
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Full Build MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 SB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 SB
Peak Hour Factor	0.96
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	1	2	0		0	0	1		0	0	1
Configuration			T	R		L	T					R				R
Volume (veh/h)			554	25	1	344	435					650				132
Percent Heavy Vehicles (%)					1	1						1				2
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No								Yes				Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)					6.4	4.1						6.9				6.9
Critical Headway (sec)					6.42	4.12						6.92				6.93
Base Follow-Up Headway (sec)					2.5	2.2						3.3				3.3
Follow-Up Headway (sec)					2.51	2.21						3.31				3.32

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						359						677				138
Capacity, c (veh/h)						895						711				777
v/c Ratio						0.40						0.95				0.18
95% Queue Length, Q_{95} (veh)						2.0						13.9				0.6
95% Queue Length, Q_{95} (ft)						50.4						350.3				15.2
Control Delay (s/veh)						11.7						47.1				10.6
Level of Service (LOS)						B						E				B
Approach Delay (s/veh)					5.2				47.1				10.6			
Approach LOS					A				E				B			

HCS Two-Way Stop-Control Report

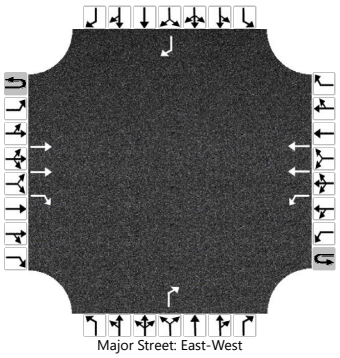
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Full Build PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 SB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 SB
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	1	2	0		0	0	1		0	0	1
Configuration			T	R		L	T					R				R
Volume (veh/h)			634	37	2	759	746					572				178
Percent Heavy Vehicles (%)					0	0						0				3
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No								Yes				Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)					6.4	4.1						6.9				6.9
Critical Headway (sec)					6.40	4.10						6.90				6.96
Base Follow-Up Headway (sec)					2.5	2.2						3.3				3.3
Follow-Up Headway (sec)					2.50	2.20						3.30				3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						801						602				187
Capacity, c (veh/h)						866						668				603
v/c Ratio						0.93						0.90				0.31
95% Queue Length, Q_{95} (veh)						13.8						11.5				1.3
95% Queue Length, Q_{95} (ft)						345.0						287.5				33.3
Control Delay (s/veh)						37.2						40.0				13.6
Level of Service (LOS)						E						E				B
Approach Delay (s/veh)					18.8				40.0				13.6			
Approach LOS					C				E				B			

HCS Two-Way Stop-Control Report

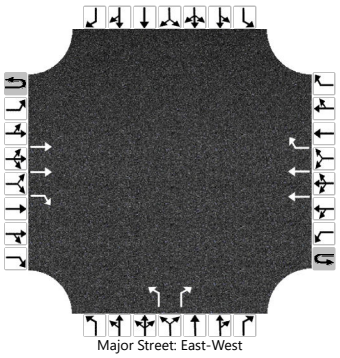
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Full Build MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 NB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 NB
Peak Hour Factor	0.98
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	0	2	1		1	0	1		0	0	0
Configuration			T	R			T	R		L		R				
Volume (veh/h)			1094	107			764	656		13		363				
Percent Heavy Vehicles (%)										1		1				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized			No				Yes			Yes						
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)										7.5		6.9				
Critical Headway (sec)										7.52		6.92				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.51		3.31				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										13		370				
Capacity, c (veh/h)										84		476				
v/c Ratio										0.16		0.78				
95% Queue Length, Q_{95} (veh)										0.5		6.9				
95% Queue Length, Q_{95} (ft)										12.6		173.7				
Control Delay (s/veh)										55.6		34.4				
Level of Service (LOS)										F		D				
Approach Delay (s/veh)										35.1						
Approach LOS										E						

HCS Two-Way Stop-Control Report

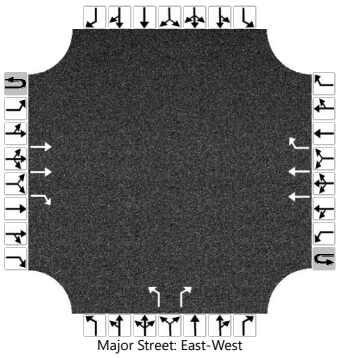
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Full Build PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 NB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 NB
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	0	2	1		1	0	1		0	0	0
Configuration			T	R			T	R		L		R				
Volume (veh/h)			1064	154			1457	1059		50		484				
Percent Heavy Vehicles (%)										0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized			No				Yes			Yes						
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)										7.5		6.9				
Critical Headway (sec)										7.50		6.90				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.50		3.30				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										53		509				
Capacity, c (veh/h)										44		477				
v/c Ratio										1.19		1.07				
95% Queue Length, Q_{95} (veh)										5.0		16.0				
95% Queue Length, Q_{95} (ft)										125.0		400.0				
Control Delay (s/veh)										344.5		90.1				
Level of Service (LOS)										F		F				
Approach Delay (s/veh)										114.0						
Approach LOS										F						

HCS Two-Way Stop-Control Report

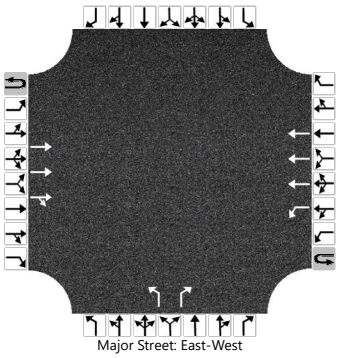
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2026
Time Analyzed	Full Build MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Mulberry
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Mulberry Street
Peak Hour Factor	0.99
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	1	3	0		1	0	1		0	0	0
Configuration			T	TR		L	T			L		R				
Volume (veh/h)			1400	53	6	45	1375			42		53				
Percent Heavy Vehicles (%)					0	1				0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized										No						
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

Base Critical Headway (sec)					5.6	5.3				6.4		7.1				
Critical Headway (sec)					5.60	5.32				5.70		7.10				
Base Follow-Up Headway (sec)					2.3	3.1				3.8		3.9				
Follow-Up Headway (sec)					2.30	3.11				3.80		3.90				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						52				42		54				
Capacity, c (veh/h)						242				109		314				
v/c Ratio						0.21				0.39		0.17				
95% Queue Length, Q_{95} (veh)						0.8				1.6		0.6				
95% Queue Length, Q_{95} (ft)						20.1				40.0		15.0				
Control Delay (s/veh)						23.9	4.6			58.0		18.8				
Level of Service (LOS)						C	A			F		C				
Approach Delay (s/veh)					5.2				36.1							
Approach LOS					A				E							

HCS Two-Way Stop-Control Report

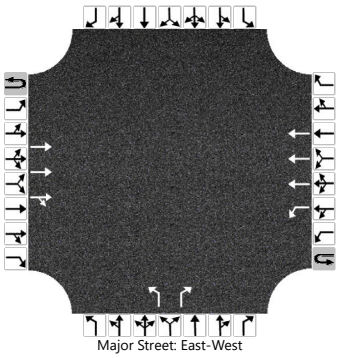
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2026
Time Analyzed	Full Build PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Mulberry
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Mulberry Street
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	1	3	0		1	0	1		0	0	0
Configuration			T	TR		L	T			L		R				
Volume (veh/h)			1468	75	4	32	2461			24		41				
Percent Heavy Vehicles (%)					0	0				0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized										No						
Median Type | Storage			Left + Thru							1						

Critical and Follow-up Headways

Base Critical Headway (sec)					5.6	5.3				6.4		7.1				
Critical Headway (sec)					5.60	5.30				5.70		7.10				
Base Follow-Up Headway (sec)					2.3	3.1				3.8		3.9				
Follow-Up Headway (sec)					2.30	3.10				3.80		3.90				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						38				25		43				
Capacity, c (veh/h)						205				77		280				
v/c Ratio						0.18				0.33		0.15				
95% Queue Length, Q_{95} (veh)						0.7				1.2		0.5				
95% Queue Length, Q_{95} (ft)						17.5				30.0		12.5				
Control Delay (s/veh)						26.5	4.8			72.9		20.2				
Level of Service (LOS)						D	A			F		C				
Approach Delay (s/veh)					5.1				39.7							
Approach LOS					A				E							

HCS Two-Way Stop-Control Report

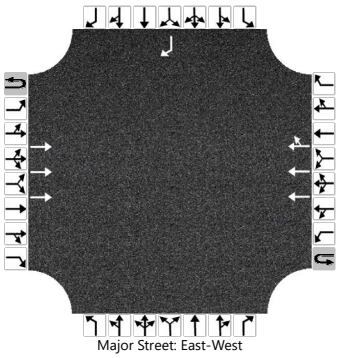
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Full Build MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson Site DWY 1
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Site DWY 1
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	0	3	0		0	0	0		0	0	1
Configuration			T				T	TR								R
Volume (veh/h)			1460				1335	0								101
Percent Heavy Vehicles (%)																2
Proportion Time Blocked																
Percent Grade (%)													0			
Right Turn Channelized													Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)																7.1
Critical Headway (sec)																7.13
Base Follow-Up Headway (sec)																3.9
Follow-Up Headway (sec)																3.92

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)																110
Capacity, c (veh/h)																316
v/c Ratio																0.35
95% Queue Length, Q_{95} (veh)																1.5
95% Queue Length, Q_{95} (ft)																38.0
Control Delay (s/veh)																22.4
Level of Service (LOS)																C
Approach Delay (s/veh)													22.4			
Approach LOS													C			

HCS Two-Way Stop-Control Report

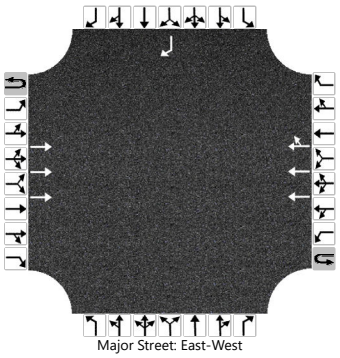
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Full Build PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson Site DWY 1
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Site DWY 1
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	0	3	0		0	0	0		0	0	1
Configuration			T				T	TR								R
Volume (veh/h)			1513				2397	0								90
Percent Heavy Vehicles (%)																2
Proportion Time Blocked																
Percent Grade (%)													0			
Right Turn Channelized													No			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)																7.1
Critical Headway (sec)																7.13
Base Follow-Up Headway (sec)																3.9
Follow-Up Headway (sec)																3.92

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)																98
Capacity, c (veh/h)																130
v/c Ratio																0.75
95% Queue Length, Q_{95} (veh)																4.4
95% Queue Length, Q_{95} (ft)																111.5
Control Delay (s/veh)																88.6
Level of Service (LOS)																F
Approach Delay (s/veh)													88.6			
Approach LOS													F			

HCS Two-Way Stop-Control Report

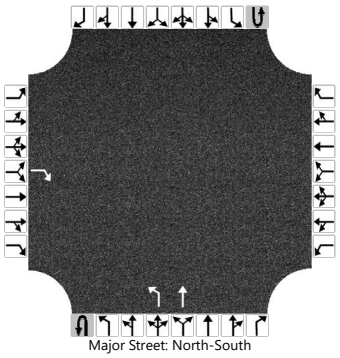
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Full Build MD
Intersection Orientation	North-South
Project Description	Gibson In-N-Out

Site Information

Intersection	Alumni Site DWY 2
Jurisdiction	COA
East/West Street	Site DWY 2
North/South Street	Alumni Drive
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	0	0	1	1	0	0	0	0	0
Configuration				R						L	T					
Volume (veh/h)				12						66	0					
Percent Heavy Vehicles (%)				3						3						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized		No														
Median Type | Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)				7.1						5.3						
Critical Headway (sec)				7.13						5.33						
Base Follow-Up Headway (sec)				3.9						3.1						
Follow-Up Headway (sec)				3.93						3.13						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)				13						72						
Capacity, c (veh/h)				917						1151						
v/c Ratio				0.01						0.06						
95% Queue Length, Q_{95} (veh)				0.0						0.2						
95% Queue Length, Q_{95} (ft)				0.0						5.1						
Control Delay (s/veh)				9.0						8.3						
Level of Service (LOS)				A						A						
Approach Delay (s/veh)		9.0								8.3						
Approach LOS		A								A						

HCS Two-Way Stop-Control Report

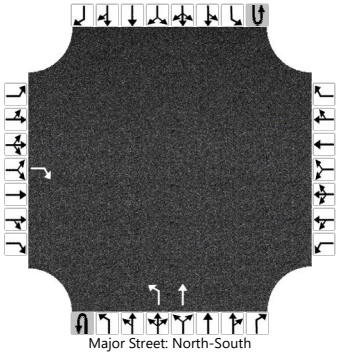
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Full Build PM
Intersection Orientation	North-South
Project Description	Gibson In-N-Out

Site Information

Intersection	Alumni Site DWY 2
Jurisdiction	COA
East/West Street	Site DWY 2
North/South Street	Alumni Drive
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	0	0	1	1	0	0	0	0	0
Configuration				R						L	T					
Volume (veh/h)				10						51	0					
Percent Heavy Vehicles (%)				3						3						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized		No														
Median Type | Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)				7.1						5.3						
Critical Headway (sec)				7.13						5.33						
Base Follow-Up Headway (sec)				3.9						3.1						
Follow-Up Headway (sec)				3.93						3.13						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)				11						55						
Capacity, c (veh/h)				917						1151						
v/c Ratio				0.01						0.05						
95% Queue Length, Q_{95} (veh)				0.0						0.2						
95% Queue Length, Q_{95} (ft)				0.0						5.1						
Control Delay (s/veh)				9.0						8.3						
Level of Service (LOS)				A						A						
Approach Delay (s/veh)		9.0								8.3						
Approach LOS		A								A						

HCS Two-Way Stop-Control Report

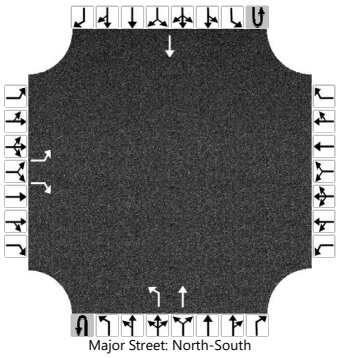
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Full Build MD
Intersection Orientation	North-South
Project Description	Gibson In-N-Out

Site Information

Intersection	Alumni Site DWY 3
Jurisdiction	COA
East/West Street	Site DWY 3
North/South Street	Alumni Drive
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		1	0	1		0	0	0	0	1	1	0	0	0	1	0
Configuration		L		R						L	T				T	
Volume (veh/h)		0		38						89	66				4	
Percent Heavy Vehicles (%)		3		3						3						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized		No														
Median Type | Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.43		6.23						4.13						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.53		3.33						2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		0		41						97						
Capacity, c (veh/h)		674		1076						1611						
v/c Ratio		0.00		0.04						0.06						
95% Queue Length, Q_{95} (veh)		0.0		0.1						0.2						
95% Queue Length, Q_{95} (ft)				2.6						5.1						
Control Delay (s/veh)		10.3		8.5						7.4						
Level of Service (LOS)		B		A						A						
Approach Delay (s/veh)		8.5								4.2						
Approach LOS		A								A						

HCS Two-Way Stop-Control Report

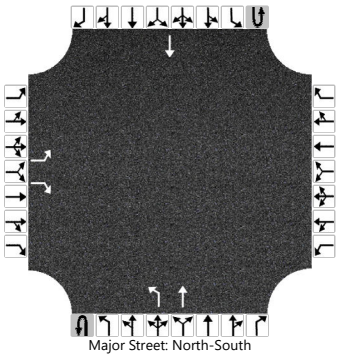
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2026
Time Analyzed	Full Build PM
Intersection Orientation	North-South
Project Description	Gibson In-N-Out

Site Information

Intersection	Alumni Site DWY 3
Jurisdiction	COA
East/West Street	Site DWY 3
North/South Street	Alumni Drive
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		1	0	1		0	0	0	0	1	1	0	0	0	1	0
Configuration		L		R						L	T				T	
Volume (veh/h)		0		33						86	51				10	
Percent Heavy Vehicles (%)		3		3						3						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized		No														
Median Type | Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.43		6.23						4.13						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.53		3.33						2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		0		36						93						
Capacity, c (veh/h)		690		1067						1602						
v/c Ratio		0.00		0.03						0.06						
95% Queue Length, Q_{95} (veh)		0.0		0.1						0.2						
95% Queue Length, Q_{95} (ft)				2.6						5.1						
Control Delay (s/veh)		10.2		8.5						7.4						
Level of Service (LOS)		B		A						A						
Approach Delay (s/veh)		8.5								4.6						
Approach LOS		A								A						

HCS Two-Way Stop-Control Report

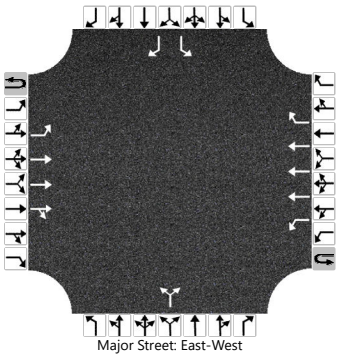
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2026
Time Analyzed	Full Build PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Alumni
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Alumni Drive
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	3	0	0	1	3	1		0	1	0		1	0	1
Configuration		L	T	TR		L	T	R			LR			L		R
Volume (veh/h)	17	105	1357	29	4	37	2349	82		10		36		70		20
Percent Heavy Vehicles (%)	0	0			0	0				0		3		0		0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized					No								No			
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

Base Critical Headway (sec)	5.6	5.3			5.6	5.3				6.4		7.1		6.4		7.1
Critical Headway (sec)	5.60	5.30			5.60	5.30				6.40		7.16		6.40		7.10
Base Follow-Up Headway (sec)	2.3	3.1			2.3	3.1				3.8		3.9		3.8		3.9
Follow-Up Headway (sec)	2.30	3.10			2.30	3.10				3.80		3.93		3.80		3.90

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		128				43					48			74		21
Capacity, c (veh/h)		72				242					0			16		146
v/c Ratio		1.79				0.18								4.55		0.14
95% Queue Length, Q_{95} (veh)		11.3				0.6								10.0		0.5
95% Queue Length, Q_{95} (ft)		282.5				15.0								250.0		12.5
Control Delay (s/veh)		503.1				23.0								2070.6		33.7
Level of Service (LOS)		F				C								F		D
Approach Delay (s/veh)	40.7				0.4								1618.0			
Approach LOS	F				A								F			

HCS Two-Way Stop-Control Report

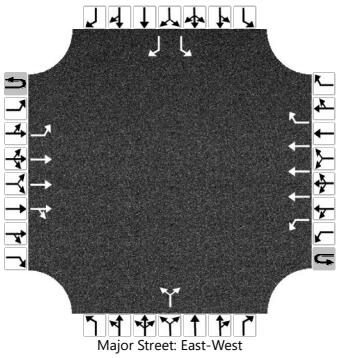
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2026
Time Analyzed	Full Build MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Alumni
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Alumni Drive
Peak Hour Factor	0.97
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	3	0	0	1	3	1		0	1	0		1	0	1
Configuration		L	T	TR		L	T	R			LR			L		R
Volume (veh/h)	24	132	1261	50	3	40	1259	97		23		40		90		29
Percent Heavy Vehicles (%)	0	0			0	0				0		0		0		0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized					No								No			
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

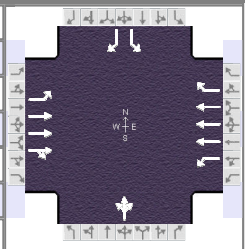
Base Critical Headway (sec)	5.6	5.3			5.6	5.3				6.4		7.1		6.4		7.1
Critical Headway (sec)	5.60	5.30			5.60	5.30				6.40		7.10		6.40		7.10
Base Follow-Up Headway (sec)	2.3	3.1			2.3	3.1				3.8		3.9		3.8		3.9
Follow-Up Headway (sec)	2.30	3.10			2.30	3.10				3.80		3.90		3.80		3.90

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		161				44					65			93		30
Capacity, c (veh/h)		272				271					59			32		356
v/c Ratio		0.59				0.16					1.10			2.86		0.08
95% Queue Length, Q_{95} (veh)		3.5				0.6					5.3			10.8		0.3
95% Queue Length, Q_{95} (ft)		87.5				15.0					132.5			270.0		7.5
Control Delay (s/veh)		35.8				20.9					264.0			1098.4		16.0
Level of Service (LOS)		E				C					F			F		C
Approach Delay (s/veh)	3.8				0.6				264.0				834.6			
Approach LOS	A				A				F				F			

HCS Signalized Intersection Results Summary

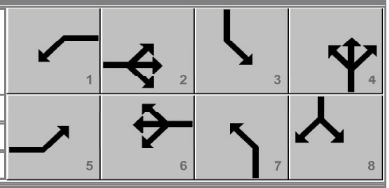
General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Mitigated MD	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2026	Analysis Period	1> 7:00
Intersection	Gibson & Alumni	File Name	Mitigated Gibson Alumni BO TOTAL MD.xus		
Project Description	Gibson In-N-Out (Mitigated) BO Full Build MD				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	156	1261	50	43	1259	97	23	0	40	90		29

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	2.3	3.4	74.9	10.5	11.8	0.0						
Yellow	3.0	0.0	4.0	3.0	3.0	0.0						
Red	1.0	0.0	1.0	1.0	1.0	0.0						



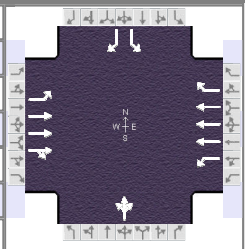
Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6		4		8
Case Number	1.1	4.0	1.1	3.0		12.0		9.0
Phase Duration, s	9.8	83.4	6.3	79.9		14.5		15.8
Change Period, ($Y+R_c$), s	4.0	5.0	4.0	5.0		4.0		4.0
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0		3.2		3.3
Queue Clearance Time (g_s), s	5.6		3.0			6.3		7.7
Green Extension Time (g_e), s	0.2	0.0	0.0	0.0		0.1		0.2
Phase Call Probability	0.99		0.76			0.88		0.98
Max Out Probability	0.00		0.00			0.00		0.00

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3		18
Adjusted Flow Rate (*v*), veh/h	156	880	431	43	1259	97		63		90		29
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1900	1861	1810	1712	1610		1678		1810		1610
Queue Service Time (g_s), s	3.6	12.6	12.6	1.0	14.6	2.9		4.3		5.7		2.0
Cycle Queue Clearance Time (g_c), s	3.6	12.6	12.6	1.0	14.6	2.9		4.3		5.7		2.0
Green Ratio (*g/C*)	0.68	0.65	0.65	0.64	0.62	0.62		0.09		0.10		0.10
Capacity (*c*), veh/h	372	2481	1215	322	3206	1005		147		178		158
Volume-to-Capacity Ratio (*X*)	0.419	0.355	0.355	0.134	0.393	0.096		0.428		0.507		0.184
Back of Queue (*Q*), ft/ln (95 th percentile)	54	208	211	17	221	44		81		119		37
Back of Queue (*Q*), veh/ln (95 th percentile)	2.2	8.3	8.4	0.7	8.8	1.8		3.2		4.7		1.5
Queue Storage Ratio (*RQ*) (95 th percentile)	0.24	0.00	0.00	0.09	0.00	0.00		0.00		0.52		0.16
Uniform Delay (d_1), s/veh	8.2	9.4	9.4	8.4	11.2	9.0		51.9		51.4		49.7
Incremental Delay (d_2), s/veh	0.3	0.4	0.8	0.1	0.4	0.2		0.7		0.8		0.2
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0		0.0
Control Delay (*d*), s/veh	8.5	9.8	10.2	8.4	11.6	9.2		52.6		52.2		49.9
Level of Service (LOS)	A	A	B	A	B	A		D		D		D
Approach Delay, s/veh / LOS	9.8	A		11.3	B		52.6	D		51.6	D	
Intersection Delay, s/veh / LOS	13.0						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.65	B	1.88	B	2.74	C	2.62	C
Bicycle LOS Score / LOS	1.29	A	1.26	A	0.59	A		F

HCS Signalized Intersection Results Summary

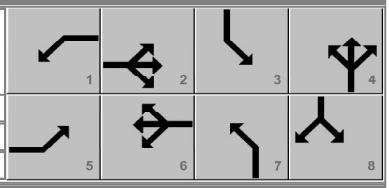
General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Full Build PM	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2026	Analysis Period	1> 7:00
Intersection	Gibson & Alumni	File Name	Mitigated Gibson Alumni BO TOTAL PM.xus		
Project Description	Gibson In-N-Out (Mitigated) BO Full Build PM				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	122	1357	29	41	2349	82	10	0	36	70		20

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	2.2	2.6	77.4	9.4	11.4	0.0
Yellow	3.0	0.0	4.0	3.0	3.0	0.0
Red	1.0	0.0	1.0	1.0	1.0	0.0



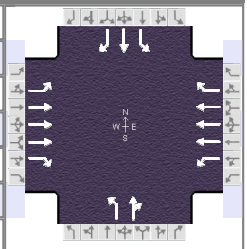
Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6		4		8
Case Number	1.1	4.0	1.1	3.0		12.0		9.0
Phase Duration, s	8.8	85.0	6.2	82.4		13.4		15.4
Change Period, ($Y+R_c$), s	4.0	5.0	4.0	5.0		4.0		4.0
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0		3.3		3.3
Queue Clearance Time (g_s), s	4.7		2.9			5.2		6.4
Green Extension Time (g_e), s	0.2	0.0	0.0	0.0		0.0		0.1
Phase Call Probability	0.98		0.75			0.78		0.95
Max Out Probability	0.00		0.00			0.00		0.00

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3		18
Adjusted Flow Rate (*v*), veh/h	122	927	459	41	2349	82		46		70		20
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1900	1879	1810	1712	1610		1650		1810		1610
Queue Service Time (g_s), s	2.7	12.9	12.9	0.9	35.9	2.3		3.2		4.4		1.4
Cycle Queue Clearance Time (g_c), s	2.7	12.9	12.9	0.9	35.9	2.3		3.2		4.4		1.4
Green Ratio (*g/C*)	0.69	0.67	0.67	0.66	0.64	0.64		0.08		0.10		0.10
Capacity (*c*), veh/h	186	2532	1252	309	3312	1039		129		172		153
Volume-to-Capacity Ratio (*X*)	0.657	0.366	0.366	0.133	0.709	0.079		0.356		0.407		0.131
Back of Queue (*Q*), ft/ln (95 th percentile)	103	210	214	15	458	34		59		91		25
Back of Queue (*Q*), veh/ln (95 th percentile)	4.1	8.4	8.5	0.6	18.2	1.4		2.4		3.7		1.0
Queue Storage Ratio (*RQ*) (95 th percentile)	0.45	0.00	0.00	0.08	0.00	0.00		0.00		0.40		0.11
Uniform Delay (d_1), s/veh	22.4	8.8	8.8	7.7	13.9	8.0		52.4		51.1		49.8
Incremental Delay (d_2), s/veh	1.5	0.4	0.8	0.1	1.3	0.1		0.6		0.6		0.1
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0		0.0
Control Delay (*d*), s/veh	23.9	9.3	9.7	7.7	15.3	8.1		53.0		51.7		49.9
Level of Service (LOS)	C	A	A	A	B	A		D		D		D
Approach Delay, s/veh / LOS	10.6	B		14.9	B		53.0	D		51.3	D	
Intersection Delay, s/veh / LOS	14.5						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.65	B	1.88	B	2.74	C	2.62	C
Bicycle LOS Score / LOS	1.32	A	1.85	B	0.56	A		F

HCS Signalized Intersection Results Summary

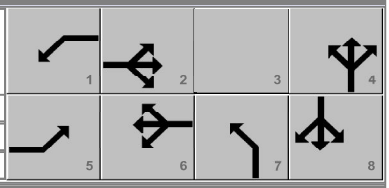
General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Full Build MD	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2026	Analysis Period	1> 7:00
Intersection	University and Gibson	File Name	8 University-Gibson BO TOTAL MD.xus		
Project Description	Gibson In-N-Out BO Total MD				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	156	1033	146	113	1133	105	197	96	101	179	77	147

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	5.3	1.4	66.2	8.5	20.6	0.0						
Yellow	3.0	0.0	4.5	3.0	4.0	0.0						
Red	0.5	0.0	1.0	0.5	1.5	0.0						



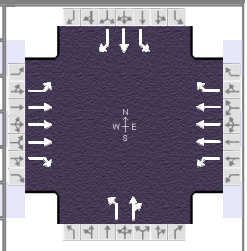
Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6	7	4		8
Case Number	1.1	3.0	1.1	3.0	1.0	4.0		5.3
Phase Duration, s	10.2	73.1	8.8	71.7	12.0	38.1		26.1
Change Period, ($Y+R_c$), s	3.5	5.5	3.5	5.5	3.5	5.5		5.5
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0	3.1	3.4		3.4
Queue Clearance Time (g_s), s	6.4		5.2		10.5	13.2		19.3
Green Extension Time (g_e), s	0.2	0.0	0.2	0.0	0.0	1.4		1.3
Phase Call Probability	0.99		0.98		1.00	1.00		1.00
Max Out Probability	0.00		0.00		1.00	0.00		0.00

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3	8	18
Adjusted Flow Rate (*v*), veh/h	156	1033	146	113	1133	105	197	197		179	77	147
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1725	1598	1810	1712	1610	1810	1739		1204	1900	1610
Queue Service Time (g_s), s	4.4	13.1	5.3	3.2	15.2	3.8	8.5	11.2		17.3	4.2	10.0
Cycle Queue Clearance Time (g_c), s	4.4	13.1	5.3	3.2	15.2	3.8	8.5	11.2		17.3	4.2	10.0
Green Ratio (*g/C*)	0.61	0.56	0.56	0.60	0.55	0.55	0.26	0.27		0.17	0.17	0.17
Capacity (*c*), veh/h	375	2916	900	382	2833	888	372	473		267	327	277
Volume-to-Capacity Ratio (*X*)	0.416	0.354	0.162	0.296	0.400	0.118	0.529	0.416		0.670	0.236	0.531
Back of Queue (*Q*), ft/ln (95 th percentile)	74	210	84	54	240	60	42	206		228	91	184
Back of Queue (*Q*), veh/ln (95 th percentile)	3.0	8.4	3.3	2.2	9.5	2.4	1.7	8.2		9.1	3.6	7.3
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Uniform Delay (d_1), s/veh	11.5	14.3	12.6	11.4	15.5	12.9	38.4	35.9		48.3	42.9	45.3
Incremental Delay (d_2), s/veh	0.3	0.3	0.4	0.2	0.4	0.3	0.7	0.2		1.1	0.1	0.6
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Control Delay (*d*), s/veh	11.8	14.6	13.0	11.6	15.9	13.2	39.1	36.1		49.4	43.0	45.9
Level of Service (LOS)	B	B	B	B	B	B	D	D		D	D	D
Approach Delay, s/veh / LOS	14.1	B		15.3	B		37.6	D		46.9	D	
Intersection Delay, s/veh / LOS	21.0						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.90	B	2.09	B	2.72	C	2.73	C
Bicycle LOS Score / LOS	1.22	A	1.23	A	1.14	A	1.15	A

HCS Signalized Intersection Results Summary

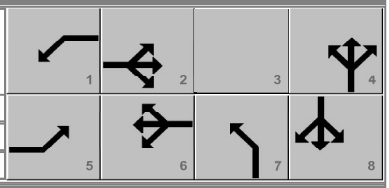
General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Full Build PM	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2026	Analysis Period	1> 7:00
Intersection	University and Gibson	File Name	8 University-Gibson BO TOTAL PM.xus		
Project Description	Gibson In-N-Out BO Total PM				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	192	1266	124	92	2129	187	180	84	73	152	56	152

Signal Information			
Cycle, s	130.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	4.7	0.2	73.0	12.1	18.5	0.0	
Yellow	3.0	3.0	4.5	3.0	4.0	0.0	
Red	0.5	0.5	1.0	0.5	1.5	0.0	



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6	7	4		8
Case Number	1.1	3.0	1.1	3.0	1.0	4.0		5.3
Phase Duration, s	11.9	82.2	8.2	78.5	15.6	39.6		24.0
Change Period, (*Y+R c*), s	3.5	5.5	3.5	5.5	3.5	5.5		5.5
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0	3.1	3.4		3.4
Queue Clearance Time (*g s*), s	8.1		4.8		12.8	11.4		17.4
Green Extension Time (*g e*), s	0.3	0.0	0.1	0.0	0.0	1.1		1.1
Phase Call Probability	1.00		0.96		1.00	1.00		1.00
Max Out Probability	0.00		0.00		1.00	0.00		0.00

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3	8	18
Adjusted Flow Rate (*v*), veh/h	192	1266	124	92	2129	187	180	157		152	56	152
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1725	1598	1810	1712	1610	1810	1753		1249	1900	1610
Queue Service Time (*g s*), s	6.1	17.3	4.5	2.8	40.4	7.5	10.8	9.4		15.4	3.4	11.6
Cycle Queue Clearance Time (*g c*), s	6.1	17.3	4.5	2.8	40.4	7.5	10.8	9.4		15.4	3.4	11.6
Green Ratio (*g/C*)	0.64	0.59	0.59	0.60	0.56	0.56	0.25	0.26		0.14	0.14	0.14
Capacity (*c*), veh/h	221	3052	942	318	2883	904	383	460		233	270	229
Volume-to-Capacity Ratio (*X*)	0.870	0.415	0.132	0.290	0.739	0.207	0.470	0.341		0.652	0.207	0.663
Back of Queue (*Q*), ft/ln (95 th percentile)	161	264	72	48	549	123	209	182		216	74	211
Back of Queue (*Q*), veh/ln (95 th percentile)	6.4	10.6	2.9	1.9	21.8	4.9	8.4	7.3		8.6	3.0	8.4
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Uniform Delay (*d 1*), s/veh	28.9	14.5	11.9	12.3	21.4	14.2	40.6	38.8		54.4	49.3	52.8
Incremental Delay (*d 2*), s/veh	4.3	0.4	0.3	0.2	1.8	0.5	0.3	0.2		1.2	0.1	1.2
Initial Queue Delay (*d 3*), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Control Delay (*d*), s/veh	33.2	14.9	12.2	12.4	23.1	14.7	41.0	39.0		55.6	49.4	54.0
Level of Service (LOS)	C	B	B	B	C	B	D	D		E	D	D
Approach Delay, s/veh / LOS	16.9	B		22.1	C		40.1	D		54.0	D	
Intersection Delay, s/veh / LOS	24.1						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.89	B	2.09	B	2.73	C	2.74	C
Bicycle LOS Score / LOS	1.36	A	1.81	B	1.04	A	1.08	A

HCS Two-Way Stop-Control Report

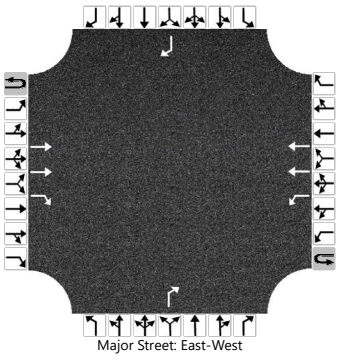
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon BG MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 SB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 SB
Peak Hour Factor	0.96
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	1	2	0		0	0	1		0	0	1
Configuration			T	R		L	T					R				R
Volume (veh/h)			596	27	1	343	469					625				136
Percent Heavy Vehicles (%)					1	1						1				2
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No								Yes				Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)					6.4	4.1						6.9				6.9
Critical Headway (sec)					6.42	4.12						6.92				6.93
Base Follow-Up Headway (sec)					2.5	2.2						3.3				3.3
Follow-Up Headway (sec)					2.51	2.21						3.31				3.32

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						358						651				142
Capacity, c (veh/h)						867						688				757
v/c Ratio						0.41						0.95				0.19
95% Queue Length, Q_{95} (veh)						2.0						13.5				0.7
95% Queue Length, Q_{95} (ft)						50.4						340.2				17.7
Control Delay (s/veh)						12.0						46.8				10.8
Level of Service (LOS)						B						E				B
Approach Delay (s/veh)					5.1				46.8				10.8			
Approach LOS					A				E				B			

HCS Two-Way Stop-Control Report

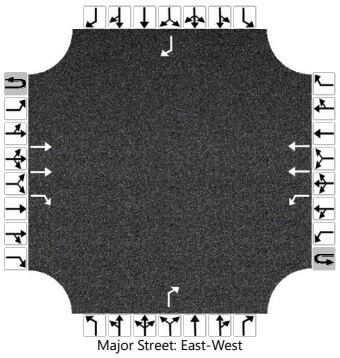
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon BG PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 SB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 SB
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	1	2	0		0	0	1		0	0	1
Configuration			T	R		L	T					R				R
Volume (veh/h)			692	41	2	809	819					554				184
Percent Heavy Vehicles (%)					0	0						0				3
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No								Yes				Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)					6.4	4.1						6.9				6.9
Critical Headway (sec)					6.40	4.10						6.90				6.96
Base Follow-Up Headway (sec)					2.5	2.2						3.3				3.3
Follow-Up Headway (sec)					2.50	2.20						3.30				3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						854						583				194
Capacity, c (veh/h)						815						638				570
v/c Ratio						1.05						0.91				0.34
95% Queue Length, Q_{95} (veh)						20.5						11.7				1.5
95% Queue Length, Q_{95} (ft)						512.5						292.5				38.4
Control Delay (s/veh)						67.0						43.1				14.5
Level of Service (LOS)						F						E				B
Approach Delay (s/veh)					33.3				43.1				14.5			
Approach LOS					F				E				B			

HCS Two-Way Stop-Control Report

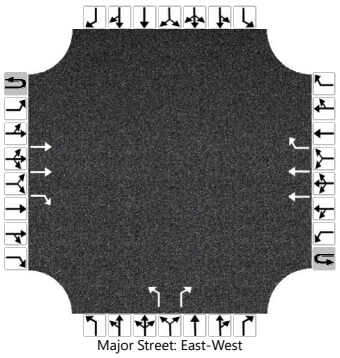
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon BG MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 NB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 NB
Peak Hour Factor	0.98
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	0	2	1		1	0	1		0	0	0
Configuration			T	R			T	R		L		R				
Volume (veh/h)			1146	120			795	692		15		372				
Percent Heavy Vehicles (%)										1		1				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized			No				Yes			Yes						
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)										7.5		6.9				
Critical Headway (sec)										7.52		6.92				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.51		3.31				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										15		380				
Capacity, c (veh/h)										75		457				
v/c Ratio										0.20		0.83				
95% Queue Length, Q_{95} (veh)										0.7		8.0				
95% Queue Length, Q_{95} (ft)										17.6		201.4				
Control Delay (s/veh)										65.1		41.0				
Level of Service (LOS)										F		E				
Approach Delay (s/veh)										41.9						
Approach LOS										E						

HCS Two-Way Stop-Control Report

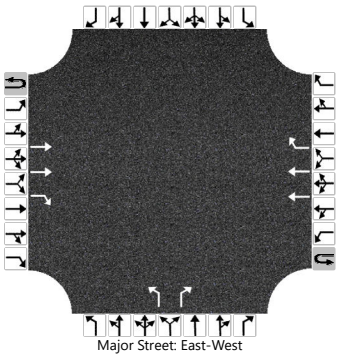
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon BG PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 NB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 NB
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	0	2	1		1	0	1		0	0	0
Configuration			T	R			T	R		L		R				
Volume (veh/h)			1131	172			1574	1147		55		508				
Percent Heavy Vehicles (%)										0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized			No				Yes			Yes						
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)										7.5		6.9				
Critical Headway (sec)										7.50		6.90				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.50		3.30				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										58		535				
Capacity, c (veh/h)										35		452				
v/c Ratio										1.65		1.18				
95% Queue Length, Q_{95} (veh)										6.3		20.2				
95% Queue Length, Q_{95} (ft)										157.5		505.0				
Control Delay (s/veh)										568.3		130.9				
Level of Service (LOS)										F		F				
Approach Delay (s/veh)										173.6						
Approach LOS										F						

HCS Two-Way Stop-Control Report

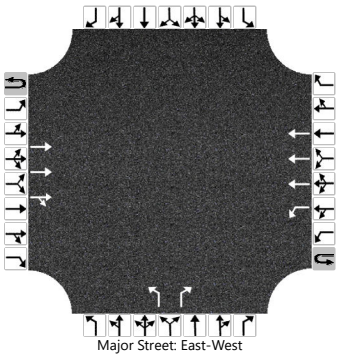
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2036
Time Analyzed	Horizon BG MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Mulberry
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Mulberry Street
Peak Hour Factor	0.99
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	1	3	0		1	0	1		0	0	0
Configuration			T	TR		L	T			L		R				
Volume (veh/h)			1457	59	7	48	1437			46		57				
Percent Heavy Vehicles (%)					0	1				0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized										No						
Median Type | Storage			Left + Thru							1						

Critical and Follow-up Headways

Base Critical Headway (sec)					5.6	5.3				6.4		7.1				
Critical Headway (sec)					5.60	5.32				5.70		7.10				
Base Follow-Up Headway (sec)					2.3	3.1				3.8		3.9				
Follow-Up Headway (sec)					2.30	3.11				3.80		3.90				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						56				46		58				
Capacity, c (veh/h)						225				98		299				
v/c Ratio						0.25				0.47		0.19				
95% Queue Length, Q_{95} (veh)						0.9				2.0		0.7				
95% Queue Length, Q_{95} (ft)						22.7				50.0		17.5				
Control Delay (s/veh)						26.1	5.7			70.8		19.9				
Level of Service (LOS)						D	A			F		C				
Approach Delay (s/veh)					6.5				42.6							
Approach LOS					A				E							

HCS Two-Way Stop-Control Report

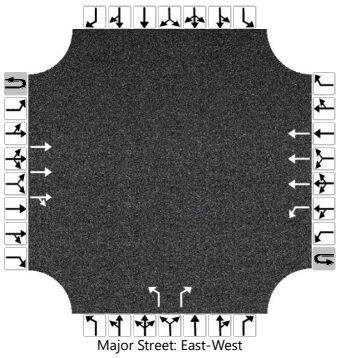
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2036
Time Analyzed	Horizon BG PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Mulberry
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Mulberry Street
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	1	3	0		1	0	1		0	0	0
Configuration			T	TR		L	T			L		R				
Volume (veh/h)			1553	83	5	34	2661			27		44				
Percent Heavy Vehicles (%)					0	0				0		0				
Proportion Time Blocked																
Percent Grade (%)									0							
Right Turn Channelized									No							
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

Base Critical Headway (sec)					5.6	5.3				6.4		7.1				
Critical Headway (sec)					5.60	5.30				5.70		7.10				
Base Follow-Up Headway (sec)					2.3	3.1				3.8		3.9				
Follow-Up Headway (sec)					2.30	3.10				3.80		3.90				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						41				28		46				
Capacity, c (veh/h)						184				65		260				
v/c Ratio						0.22				0.43		0.18				
95% Queue Length, Q_{95} (veh)						0.8				1.7		0.6				
95% Queue Length, Q_{95} (ft)						20.0				42.5		15.0				
Control Delay (s/veh)						30.0	6.5			97.0		21.8				
Level of Service (LOS)						D	A			F		C				
Approach Delay (s/veh)					6.9				50.4							
Approach LOS					A				F							

HCS Two-Way Stop-Control Report

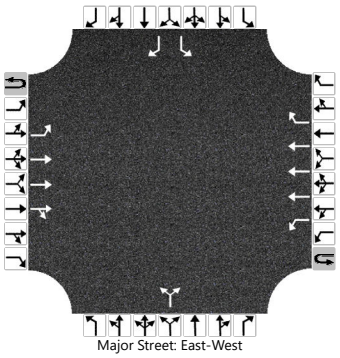
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2036
Time Analyzed	Horizon BG MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Alumni
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Alumni Drive
Peak Hour Factor	0.97
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	3	0	0	1	3	1		0	1	0		1	0	1
Configuration		L	T	TR		L	T	R			LR			L		R
Volume (veh/h)	26	44	1404	56	3	44	1421	33		26		44		40		30
Percent Heavy Vehicles (%)	0	0			0	0				0		0		0		0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized					No								No			
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

Base Critical Headway (sec)	5.6	5.3			5.6	5.3				6.4		7.1		6.4		7.1
Critical Headway (sec)	5.60	5.30			5.60	5.30				6.40		7.10		6.40		7.10
Base Follow-Up Headway (sec)	2.3	3.1			2.3	3.1				3.8		3.9		3.8		3.9
Follow-Up Headway (sec)	2.30	3.10			2.30	3.10				3.80		3.90		3.80		3.90

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		72				48					72			41		31
Capacity, c (veh/h)		265				227					94			49		314
v/c Ratio		0.27				0.21					0.77			0.85		0.10
95% Queue Length, Q_{95} (veh)		1.1				0.8					4.0			3.5		0.3
95% Queue Length, Q_{95} (ft)		27.5				20.0					100.0			87.5		7.5
Control Delay (s/veh)		23.6				25.1					117.7			215.6		17.7
Level of Service (LOS)		C				D					F			F		C
Approach Delay (s/veh)	1.1				0.8				117.7				130.8			
Approach LOS	A				A				F				F			

HCS Two-Way Stop-Control Report

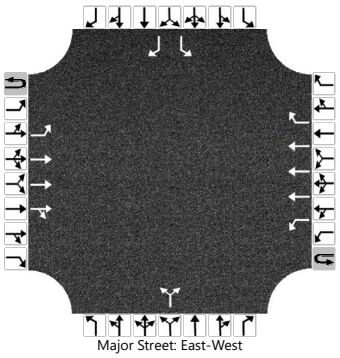
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2036
Time Analyzed	Horizon BG PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Alumni
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Alumni Drive
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	3	0	0	1	3	1		0	1	0		1	0	1
Configuration		L	T	TR		L	T	R			LR			L		R
Volume (veh/h)	19	31	1513	32	5	41	2639	19		11		40		27		20
Percent Heavy Vehicles (%)	0	0			0	0				0		3		0		0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized					No								No			
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

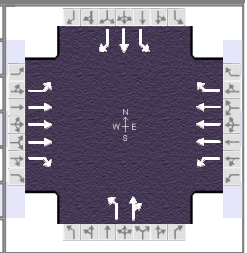
Base Critical Headway (sec)	5.6	5.3			5.6	5.3				6.4		7.1		6.4		7.1
Critical Headway (sec)	5.60	5.30			5.60	5.30				6.40		7.16		6.40		7.10
Base Follow-Up Headway (sec)	2.3	3.1			2.3	3.1				3.8		3.9		3.8		3.9
Follow-Up Headway (sec)	2.30	3.10			2.30	3.10				3.80		3.93		3.80		3.90

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		53				48					54			28		21
Capacity, c (veh/h)		61				201					31			19		115
v/c Ratio		0.86				0.24					1.76			1.46		0.18
95% Queue Length, Q_{95} (veh)		3.9				0.9					6.2			3.9		0.6
95% Queue Length, Q_{95} (ft)		97.5				22.5					157.8			97.5		15.0
Control Delay (s/veh)		185.7				28.5					643.4			656.2		43.0
Level of Service (LOS)		F				D					F			F		E
Approach Delay (s/veh)	5.8				0.5				643.4				395.3			
Approach LOS	A				A				F				F			

HCS Signalized Intersection Results Summary

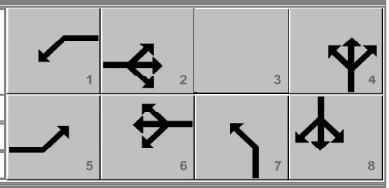
General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Horizon BG MD	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2036	Analysis Period	1> 7:00
Intersection	University and Gibson	File Name	5 University-Gibson Horizon Background MD.xus		
Project Description	Gibson In-N-Out Horizon BG MD				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	164	1108	153	126	1221	122	253	127	131	233	107	181

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	6.3	1.4	56.8	8.5	29.0	0.0
Yellow	3.0	0.0	4.5	3.0	4.0	0.0
Red	0.5	0.0	1.0	0.5	1.5	0.0



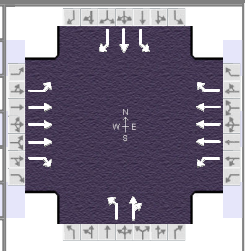
Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6	7	4		8
Case Number	1.1	3.0	1.1	3.0	1.0	4.0		5.3
Phase Duration, s	11.2	63.7	9.8	62.3	12.0	46.5		34.5
Change Period, (*Y+R c*), s	3.5	5.5	3.5	5.5	3.5	5.5		5.5
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0	3.1	3.4		3.4
Queue Clearance Time (*g s*), s	7.5		6.3		10.5	15.7		27.5
Green Extension Time (*g e*), s	0.2	0.0	0.1	0.0	0.0	1.9		1.5
Phase Call Probability	1.00		0.99		1.00	1.00		1.00
Max Out Probability	0.00		0.00		1.00	0.00		0.13

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3	8	18
Adjusted Flow Rate (*v*), veh/h	164	1108	153	126	1221	122	253	258		233	107	181
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1725	1598	1810	1712	1610	1810	1741		1139	1900	1610
Queue Service Time (*g s*), s	5.5	16.8	6.5	4.3	19.7	5.2	8.5	13.7		23.8	5.4	11.5
Cycle Queue Clearance Time (*g c*), s	5.5	16.8	6.5	4.3	19.7	5.2	8.5	13.7		25.5	5.4	11.5
Green Ratio (*g/C*)	0.54	0.49	0.49	0.53	0.47	0.47	0.33	0.34		0.24	0.24	0.24
Capacity (*c*), veh/h	320	2511	775	324	2430	762	445	594		319	459	389
Volume-to-Capacity Ratio (*X*)	0.513	0.441	0.197	0.388	0.502	0.160	0.568	0.434		0.730	0.233	0.466
Back of Queue (*Q*), ft/ln (95 th percentile)	98	268	110	76	307	87	99	239		287	116	205
Back of Queue (*Q*), veh/ln (95 th percentile)	3.9	10.7	4.4	3.0	12.2	3.5	3.9	9.6		11.5	4.6	8.2
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Uniform Delay (*d 1*), s/veh	16.6	20.2	17.6	16.2	21.8	18.0	34.1	30.6		45.0	36.6	38.9
Incremental Delay (*d 2*), s/veh	0.5	0.6	0.6	0.3	0.7	0.5	1.1	0.2		3.9	0.1	0.3
Initial Queue Delay (*d 3*), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Control Delay (*d*), s/veh	17.1	20.8	18.2	16.5	22.6	18.5	35.2	30.7		48.9	36.7	39.2
Level of Service (LOS)	B	C	B	B	C	B	D	C		D	D	D
Approach Delay, s/veh / LOS	20.1	C		21.7	C		32.9	C		43.0	D	
Intersection Delay, s/veh / LOS	25.4						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.91	B	2.10	B	2.71	C	2.72	C
Bicycle LOS Score / LOS	1.27	A	1.30	A	1.33	A	1.35	A

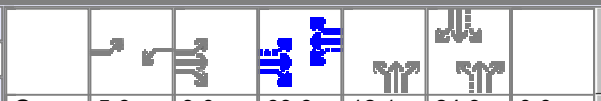
HCS Signalized Intersection Results Summary

General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Horizon BG PM	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2036	Analysis Period	1> 7:00
Intersection	University and Gibson	File Name	5 University-Gibson Horizon Background PM.xus		
Project Description	Gibson In-N-Out Horizon BG PM				

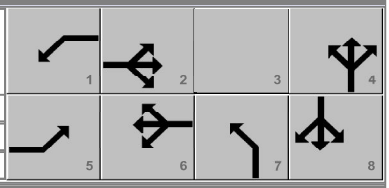


Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	206	1377	131	102	2330	213	234	110	95	198	79	192

Signal Information			
Cycle, s	130.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	5.6	3.0	63.6	12.1	24.3	0.0
Yellow	3.0	3.0	4.5	3.0	4.0	0.0
Red	0.5	0.5	1.0	0.5	1.5	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6	7	4		8
Case Number	1.1	3.0	1.1	3.0	1.0	4.0		5.3
Phase Duration, s	15.6	75.5	9.1	69.1	15.6	45.4		29.8
Change Period, ($Y+R_c$), s	3.5	5.5	3.5	5.5	3.5	5.5		5.5
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0	3.1	3.4		3.4
Queue Clearance Time (g_s), s	11.8		5.6		14.1	13.9		23.0
Green Extension Time (g_e), s	0.2	0.0	0.1	0.0	0.0	1.6		1.3
Phase Call Probability	1.00		0.97		1.00	1.00		1.00
Max Out Probability	0.00		0.00		1.00	0.00		0.05

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3	8	18
Adjusted Flow Rate (*v*), veh/h	206	1377	131	102	2330	213	234	205		198	79	192
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1725	1598	1810	1712	1610	1810	1754		1196	1900	1610
Queue Service Time (g_s), s	9.8	21.7	5.4	3.6	55.2	10.1	12.1	11.9		21.0	4.6	14.3
Cycle Queue Clearance Time (g_c), s	9.8	21.7	5.4	3.6	55.2	10.1	12.1	11.9		21.0	4.6	14.3
Green Ratio (*g/C*)	0.60	0.54	0.54	0.53	0.49	0.49	0.30	0.31		0.19	0.19	0.19
Capacity (*c*), veh/h	234	2789	861	276	2510	787	427	538		279	355	301
Volume-to-Capacity Ratio (*X*)	0.882	0.494	0.152	0.370	0.928	0.271	0.548	0.381		0.711	0.223	0.639
Back of Queue (*Q*), ft/ln (95 th percentile)	291	328	89	66	784	173	252	219		268	100	247
Back of Queue (*Q*), veh/ln (95 th percentile)	11.6	13.1	3.5	2.6	31.1	6.9	10.1	8.8		10.7	4.0	9.9
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Uniform Delay (d_1), s/veh	39.5	18.8	15.1	16.6	31.1	19.6	37.9	35.4		51.5	44.9	48.8
Incremental Delay (d_2), s/veh	11.3	0.6	0.4	0.3	8.7	0.8	0.9	0.2		2.6	0.1	0.8
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Control Delay (*d*), s/veh	50.8	19.5	15.4	16.9	39.8	20.4	38.8	35.5		54.1	45.0	49.7
Level of Service (LOS)	D	B	B	B	D	C	D	D		D	D	D
Approach Delay, s/veh / LOS	22.9	C		37.3	D		37.3	D		50.7	D	
Intersection Delay, s/veh / LOS	33.8						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.90	B	2.10	B	2.72	C	2.73	C
Bicycle LOS Score / LOS	1.43	A	1.94	B	1.21	A	1.26	A

HCS Two-Way Stop-Control Report

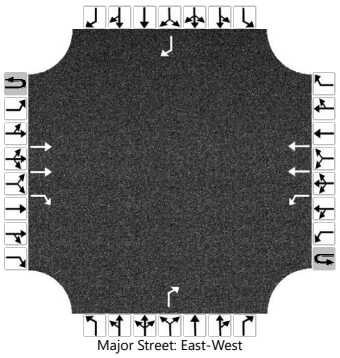
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon Total MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 SB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 SB
Peak Hour Factor	0.96
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	1	2	0		0	0	1		0	0	1
Configuration			T	R		L	T					R				R
Volume (veh/h)			610	27	1	378	481					667				136
Percent Heavy Vehicles (%)					1	1						1				2
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No								Yes				Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)					6.4	4.1						6.9				6.9
Critical Headway (sec)					6.42	4.12						6.92				6.93
Base Follow-Up Headway (sec)					2.5	2.2						3.3				3.3
Follow-Up Headway (sec)					2.51	2.21						3.31				3.32

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						395						695				142
Capacity, c (veh/h)						0						681				750
v/c Ratio												1.02				0.19
95% Queue Length, Q_{95} (veh)												17.0				0.7
95% Queue Length, Q_{95} (ft)												428.4				17.7
Control Delay (s/veh)												64.3				10.9
Level of Service (LOS)												F				B
Approach Delay (s/veh)									64.3				10.9			
Approach LOS									F				B			

HCS Two-Way Stop-Control Report

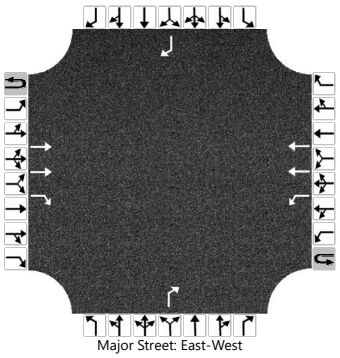
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon Total PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 SB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 SB
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	1	2	0		0	0	1		0	0	1
Configuration			T	R		L	T					R				R
Volume (veh/h)			701	41	2	842	829					588				184
Percent Heavy Vehicles (%)					0	0						0				3
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized	No								Yes				Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)					6.4	4.1						6.9				6.9
Critical Headway (sec)					6.40	4.10						6.90				6.96
Base Follow-Up Headway (sec)					2.5	2.2						3.3				3.3
Follow-Up Headway (sec)					2.50	2.20						3.30				3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						888						619				194
Capacity, c (veh/h)						724						634				565
v/c Ratio						1.23						0.98				0.34
95% Queue Length, Q_{95} (veh)						31.3						14.3				1.5
95% Queue Length, Q_{95} (ft)						782.5						357.5				38.4
Control Delay (s/veh)						134.6						55.6				14.7
Level of Service (LOS)						F						F				B
Approach Delay (s/veh)					67.9				55.6				14.7			
Approach LOS					F				F				B			

HCS Two-Way Stop-Control Report

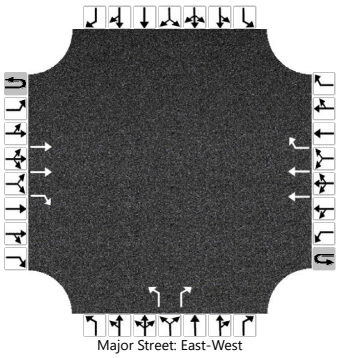
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon Total MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 NB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 NB
Peak Hour Factor	0.98
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	0	2	1		1	0	1		0	0	0
Configuration			T	R			T	R		L		R				
Volume (veh/h)			1202	120			842	725		15		395				
Percent Heavy Vehicles (%)										1		1				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized			No				Yes			Yes						
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)										7.5		6.9				
Critical Headway (sec)										7.52		6.92				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.51		3.31				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										15		403				
Capacity, c (veh/h)										65		438				
v/c Ratio										0.24		0.92				
95% Queue Length, Q_{95} (veh)										0.8		10.3				
95% Queue Length, Q_{95} (ft)										20.2		259.4				
Control Delay (s/veh)										76.7		56.3				
Level of Service (LOS)										F		F				
Approach Delay (s/veh)										57.1						
Approach LOS										F						

HCS Two-Way Stop-Control Report

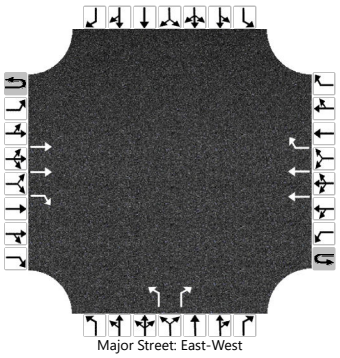
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon Total PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson I 25 NB
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	I 25 NB
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	2	1	0	0	2	1		1	0	1		0	0	0
Configuration			T	R			T	R		L		R				
Volume (veh/h)			1174	172			1617	1176		55		530				
Percent Heavy Vehicles (%)										0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized			No				Yes			Yes						
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)										7.5		6.9				
Critical Headway (sec)										7.50		6.90				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.50		3.30				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										58		558				
Capacity, c (veh/h)										31		437				
v/c Ratio										1.86		1.28				
95% Queue Length, Q_{95} (veh)										6.6		23.9				
95% Queue Length, Q_{95} (ft)										165.0		597.5				
Control Delay (s/veh)										681.8		168.0				
Level of Service (LOS)										F		F				
Approach Delay (s/veh)										216.3						
Approach LOS										F						

HCS Two-Way Stop-Control Report

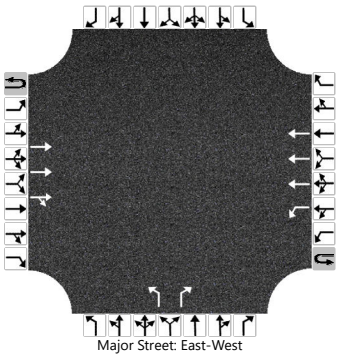
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2036
Time Analyzed	Horizon Total MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Mulberry
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Mulberry Street
Peak Hour Factor	0.99
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	1	3	0		1	0	1		0	0	0
Configuration			T	TR		L	T			L		R				
Volume (veh/h)			1537	59	7	50	1517			46		58				
Percent Heavy Vehicles (%)					0	1				0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized										No						
Median Type | Storage			Left + Thru							1						

Critical and Follow-up Headways

Base Critical Headway (sec)					5.6	5.3				6.4		7.1				
Critical Headway (sec)					5.60	5.32				5.70		7.10				
Base Follow-Up Headway (sec)					2.3	3.1				3.8		3.9				
Follow-Up Headway (sec)					2.30	3.11				3.80		3.90				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						58				46		59				
Capacity, c (veh/h)						205				87		282				
v/c Ratio						0.28				0.54		0.21				
95% Queue Length, Q_{95} (veh)						1.1				2.4		0.8				
95% Queue Length, Q_{95} (ft)						27.7				60.0		20.0				
Control Delay (s/veh)						29.2	7.3			86.7		21.1				
Level of Service (LOS)						D	A			F		C				
Approach Delay (s/veh)					8.1				50.1							
Approach LOS					A				F							

HCS Two-Way Stop-Control Report

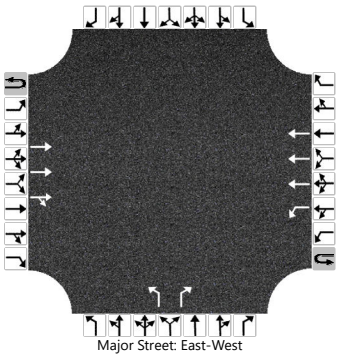
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2036
Time Analyzed	Horizon Total PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Mulberry
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Mulberry Street
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	1	3	0		1	0	1		0	0	0
Configuration			T	TR		L	T			L		R				
Volume (veh/h)			1618	83	5	35	2732			27		45				
Percent Heavy Vehicles (%)					0	0				0		0				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized										No						
Median Type | Storage			Left + Thru							1						

Critical and Follow-up Headways

Base Critical Headway (sec)					5.6	5.3				6.4		7.1				
Critical Headway (sec)					5.60	5.30				5.70		7.10				
Base Follow-Up Headway (sec)					2.3	3.1				3.8		3.9				
Follow-Up Headway (sec)					2.30	3.10				3.80		3.90				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)						42				28		47				
Capacity, c (veh/h)						170				59		247				
v/c Ratio						0.25				0.48		0.19				
95% Queue Length, Q_{95} (veh)						0.9				1.9		0.7				
95% Queue Length, Q_{95} (ft)						22.5				47.5		17.5				
Control Delay (s/veh)						33.0	7.9			113.0		23.0				
Level of Service (LOS)						D	A			F		C				
Approach Delay (s/veh)					8.3				56.8							
Approach LOS					A				F							

HCS Two-Way Stop-Control Report

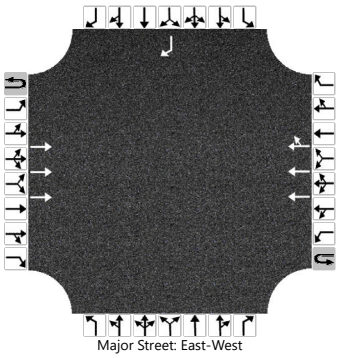
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon Total MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson Site DWY 1
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Site DWY 1
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	0	3	0		0	0	0		0	0	1
Configuration			T				T	TR								R
Volume (veh/h)			1602				1484	0								101
Percent Heavy Vehicles (%)																2
Proportion Time Blocked																
Percent Grade (%)													0			
Right Turn Channelized													Yes			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)																7.1
Critical Headway (sec)																7.13
Base Follow-Up Headway (sec)																3.9
Follow-Up Headway (sec)																3.92

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)																110
Capacity, c (veh/h)																279
v/c Ratio																0.39
95% Queue Length, Q_{95} (veh)																1.8
95% Queue Length, Q_{95} (ft)																45.6
Control Delay (s/veh)																26.0
Level of Service (LOS)																D
Approach Delay (s/veh)													26.0			
Approach LOS													D			

HCS Two-Way Stop-Control Report

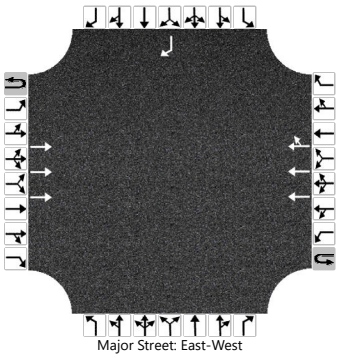
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon Total PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson Site DWY 1
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Site DWY 1
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	3	0	0	0	3	0		0	0	0		0	0	1
Configuration			T				T	TR								R
Volume (veh/h)			1667				2671	0								90
Percent Heavy Vehicles (%)																2
Proportion Time Blocked																
Percent Grade (%)													0			
Right Turn Channelized													No			
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)																7.1
Critical Headway (sec)																7.13
Base Follow-Up Headway (sec)																3.9
Follow-Up Headway (sec)																3.92

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)																98
Capacity, c (veh/h)																103
v/c Ratio																0.95
95% Queue Length, Q_{95} (veh)																5.7
95% Queue Length, Q_{95} (ft)																144.4
Control Delay (s/veh)																151.4
Level of Service (LOS)																F
Approach Delay (s/veh)													151.4			
Approach LOS													F			

HCS Two-Way Stop-Control Report

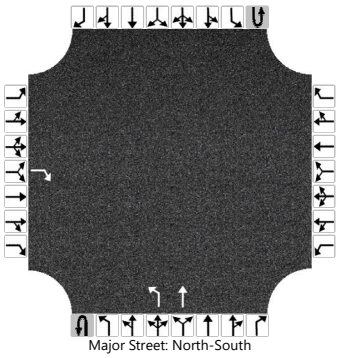
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon Total MD
Intersection Orientation	North-South
Project Description	Gibson In-N-Out

Site Information

Intersection	Alumni Site DWY 2
Jurisdiction	COA
East/West Street	Site DWY 2
North/South Street	Alumni Drive
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	0	0	1	1	0	0	0	0	0
Configuration				R						L	T					
Volume (veh/h)				10						51	0					
Percent Heavy Vehicles (%)				3						3						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized		No														
Median Type | Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)				7.1						5.3						
Critical Headway (sec)				7.13						5.33						
Base Follow-Up Headway (sec)				3.9						3.1						
Follow-Up Headway (sec)				3.93						3.13						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)				11						55						
Capacity, c (veh/h)				917						1151						
v/c Ratio				0.01						0.05						
95% Queue Length, Q_{95} (veh)				0.0						0.2						
95% Queue Length, Q_{95} (ft)				0.0						5.1						
Control Delay (s/veh)				9.0						8.3						
Level of Service (LOS)				A						A						
Approach Delay (s/veh)		9.0								8.3						
Approach LOS		A								A						

HCS Two-Way Stop-Control Report

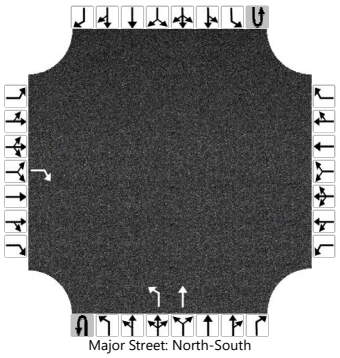
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon Total MD
Intersection Orientation	North-South
Project Description	Gibson In-N-Out

Site Information

Intersection	Alumni Site DWY 2
Jurisdiction	COA
East/West Street	Site DWY 2
North/South Street	Alumni Drive
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	0	0	1	1	0	0	0	0	0
Configuration				R						L	T					
Volume (veh/h)				12						66	0					
Percent Heavy Vehicles (%)				3						3						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized		No														
Median Type | Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)				7.1						5.3						
Critical Headway (sec)				7.13						5.33						
Base Follow-Up Headway (sec)				3.9						3.1						
Follow-Up Headway (sec)				3.93						3.13						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)				13						72						
Capacity, c (veh/h)				917						1151						
v/c Ratio				0.01						0.06						
95% Queue Length, Q_{95} (veh)				0.0						0.2						
95% Queue Length, Q_{95} (ft)				0.0						5.1						
Control Delay (s/veh)				9.0						8.3						
Level of Service (LOS)				A						A						
Approach Delay (s/veh)		9.0								8.3						
Approach LOS		A								A						

HCS Two-Way Stop-Control Report

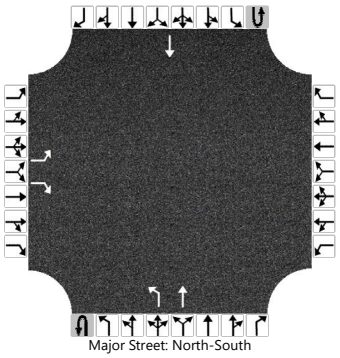
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon Total MD
Intersection Orientation	North-South
Project Description	Gibson In-N-Out

Site Information

Intersection	Alumni Site DWY 3
Jurisdiction	COA
East/West Street	Site DWY 3
North/South Street	Alumni Drive
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		1	0	1		0	0	0	0	1	1	0	0	0	1	0
Configuration		L		R						L	T				T	
Volume (veh/h)		0		38						89	66				4	
Percent Heavy Vehicles (%)		3		3						3						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized		No														
Median Type | Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.43		6.23						4.13						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.53		3.33						2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		0		41						97						
Capacity, c (veh/h)		674		1076						1611						
v/c Ratio		0.00		0.04						0.06						
95% Queue Length, Q_{95} (veh)		0.0		0.1						0.2						
95% Queue Length, Q_{95} (ft)				2.6						5.1						
Control Delay (s/veh)		10.3		8.5						7.4						
Level of Service (LOS)		B		A						A						
Approach Delay (s/veh)		8.5								4.2						
Approach LOS		A								A						

HCS Two-Way Stop-Control Report

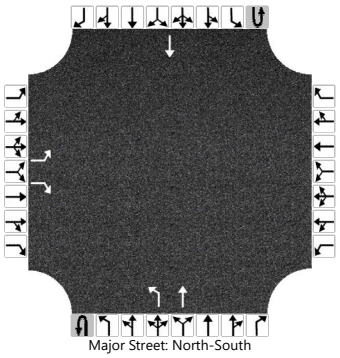
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/31/2024
Analysis Year	2036
Time Analyzed	Horizon Total MD
Intersection Orientation	North-South
Project Description	Gibson In-N-Out

Site Information

Intersection	Alumni Site DWY 3
Jurisdiction	COA
East/West Street	Site DWY 3
North/South Street	Alumni Drive
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		1	0	1		0	0	0	0	1	1	0	0	0	1	0
Configuration		L		R						L	T				T	
Volume (veh/h)		0		33						86	51				10	
Percent Heavy Vehicles (%)		3		3						3						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized		No														
Median Type | Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.43		6.23						4.13						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.53		3.33						2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		0		36						93						
Capacity, c (veh/h)		690		1067						1602						
v/c Ratio		0.00		0.03						0.06						
95% Queue Length, Q_{95} (veh)		0.0		0.1						0.2						
95% Queue Length, Q_{95} (ft)				2.6						5.1						
Control Delay (s/veh)		10.2		8.5						7.4						
Level of Service (LOS)		B		A						A						
Approach Delay (s/veh)		8.5								4.6						
Approach LOS		A								A						

HCS Two-Way Stop-Control Report

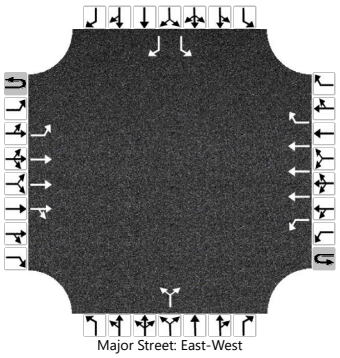
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2036
Time Analyzed	Horizon Total MD
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Alumni
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Alumni Drive
Peak Hour Factor	0.97
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	3	0	0	1	3	1		0	1	0		1	0	1
Configuration		L	T	TR		L	T	R			LR			L		R
Volume (veh/h)	26	133	1396	56	3	44	1402	98		26		44		90		30
Percent Heavy Vehicles (%)	0	0			0	0				0		0		0		0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized					No								No			
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

Base Critical Headway (sec)	5.6	5.3			5.6	5.3				6.4		7.1		6.4		7.1
Critical Headway (sec)	5.60	5.30			5.60	5.30				6.40		7.10		6.40		7.10
Base Follow-Up Headway (sec)	2.3	3.1			2.3	3.1				3.8		3.9		3.8		3.9
Follow-Up Headway (sec)	2.30	3.10			2.30	3.10				3.80		3.90		3.80		3.90

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		164				48					72			93		31
Capacity, c (veh/h)		231				229					31			14		318
v/c Ratio		0.71				0.21					2.36			6.83		0.10
95% Queue Length, Q_{95} (veh)		4.7				0.8					8.4			12.6		0.3
95% Queue Length, Q_{95} (ft)		117.5				20.0					210.0			315.0		7.5
Control Delay (s/veh)		51.4				24.9					893.9			3171.9		17.5
Level of Service (LOS)		F				C					F			F		C
Approach Delay (s/veh)	5.1				0.8				893.9				2383.3			
Approach LOS	A				A				F				F			

HCS Two-Way Stop-Control Report

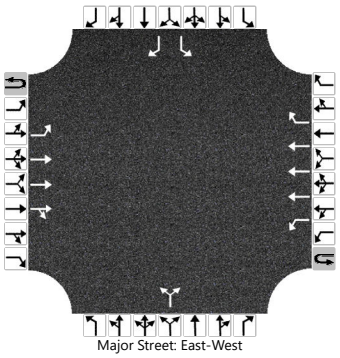
General Information

Analyst	AY
Agency/Co.	Lee
Date Performed	5/21/2024
Analysis Year	2036
Time Analyzed	Horizon Total PM
Intersection Orientation	East-West
Project Description	Gibson In-N-Out

Site Information

Intersection	Gibson and Alumni
Jurisdiction	COA
East/West Street	Gibson Boulevard
North/South Street	Alumni Drive
Peak Hour Factor	0.95
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	1	3	0	0	1	3	1		0	1	0		1	0	1
Configuration		L	T	TR		L	T	R			LR			L		R
Volume (veh/h)	19	105	1505	32	5	41	2620	82		11		40		70		20
Percent Heavy Vehicles (%)	0	0			0	0				0		3		0		0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized					No								No			
Median Type | Storage	Left + Thru								1							

Critical and Follow-up Headways

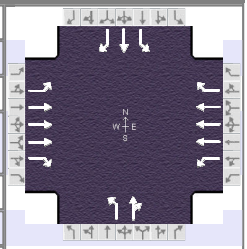
Base Critical Headway (sec)	5.6	5.3			5.6	5.3				6.4		7.1		6.4		7.1
Critical Headway (sec)	5.60	5.30			5.60	5.30				6.40		7.16		6.40		7.10
Base Follow-Up Headway (sec)	2.3	3.1			2.3	3.1				3.8		3.9		3.8		3.9
Follow-Up Headway (sec)	2.30	3.10			2.30	3.10				3.80		3.93		3.80		3.90

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		131				48					54			74		21
Capacity, c (veh/h)		51				203					0			7		117
v/c Ratio		2.54				0.24								9.86		0.18
95% Queue Length, Q_{95} (veh)		13.5				0.9								10.8		0.6
95% Queue Length, Q_{95} (ft)		337.5				22.5								270.0		15.0
Control Delay (s/veh)		868.2				28.2								4953.6		42.3
Level of Service (LOS)		F				D								F		E
Approach Delay (s/veh)	64.8				0.5								3862.2			
Approach LOS	F				A								F			

HCS Signalized Intersection Results Summary

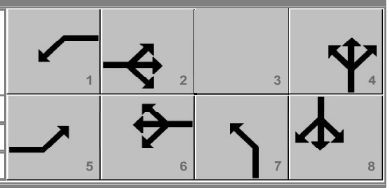
General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Horizon Full Build MD	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2036	Analysis Period	1> 7:00
Intersection	University and Gibson	File Name	8 University-Gibson Horizon TOTAL MD.xus		
Project Description	Gibson In-N-Out Horizon Total MD				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	172	1134	161	126	1254	118	257	127	131	233	103	190

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	6.3	1.7	56.5	8.5	29.0	0.0						
Yellow	3.0	0.0	4.5	3.0	4.0	0.0						
Red	0.5	0.0	1.0	0.5	1.5	0.0						



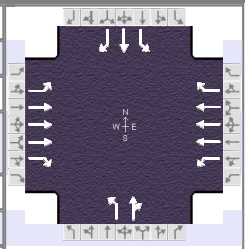
Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6	7	4		8
Case Number	1.1	3.0	1.1	3.0	1.0	4.0		5.3
Phase Duration, s	11.5	63.7	9.8	62.0	12.0	46.5		34.5
Change Period, ($Y+R_c$), s	3.5	5.5	3.5	5.5	3.5	5.5		5.5
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0	3.1	3.4		3.4
Queue Clearance Time (g_s), s	7.8		6.3		10.5	15.7		27.5
Green Extension Time (g_e), s	0.2	0.0	0.1	0.0	0.0	1.9		1.5
Phase Call Probability	1.00		0.99		1.00	1.00		1.00
Max Out Probability	0.00		0.00		1.00	0.00		0.13

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3	8	18
Adjusted Flow Rate (*v*), veh/h	172	1134	161	126	1254	118	257	258		233	103	190
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1725	1598	1810	1712	1610	1810	1741		1139	1900	1610
Queue Service Time (g_s), s	5.8	17.3	6.9	4.3	20.5	5.0	8.5	13.7		23.8	5.2	12.2
Cycle Queue Clearance Time (g_c), s	5.8	17.3	6.9	4.3	20.5	5.0	8.5	13.7		25.5	5.2	12.2
Green Ratio (*g/C*)	0.54	0.48	0.48	0.52	0.47	0.47	0.33	0.34		0.24	0.24	0.24
Capacity (*c*), veh/h	316	2510	775	318	2417	758	449	595		319	459	389
Volume-to-Capacity Ratio (*X*)	0.545	0.452	0.208	0.396	0.519	0.156	0.573	0.434		0.730	0.224	0.489
Back of Queue (*Q*), ft/ln (95 th percentile)	103	275	116	76	318	85	104	239		287	111	213
Back of Queue (*Q*), veh/ln (95 th percentile)	4.1	11.0	4.6	3.0	12.6	3.4	4.1	9.6		11.5	4.5	8.5
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Uniform Delay (d_1), s/veh	17.0	20.4	17.7	16.4	22.2	18.1	34.2	30.5		45.0	36.5	39.1
Incremental Delay (d_2), s/veh	0.5	0.6	0.6	0.3	0.8	0.4	1.2	0.2		3.9	0.1	0.4
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Control Delay (*d*), s/veh	17.5	21.0	18.3	16.7	23.0	18.6	35.3	30.7		48.9	36.6	39.5
Level of Service (LOS)	B	C	B	B	C	B	D	C		D	D	D
Approach Delay, s/veh / LOS	20.3	C		22.2	C		33.0	C		43.1	D	
Intersection Delay, s/veh / LOS	25.6						C					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.91	B	2.10	B	2.71	C	2.72	C
Bicycle LOS Score / LOS	1.29	A	1.31	A	1.34	A	1.36	A

HCS Signalized Intersection Results Summary

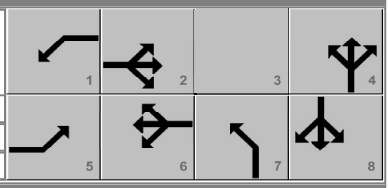
General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Horizon Full Build PM	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2036	Analysis Period	1> 7:00
Intersection	University and Gibson	File Name	8 University-Gibson Horizon TOTAL PM.xus		
Project Description	Gibson In-N-Out Horizon Total PM				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	213	1398	138	102	2366	209	236	110	95	198	75	198

Signal Information			
Cycle, s	130.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	5.6	3.7	62.8	12.1	24.3	0.0						
Yellow	3.0	3.0	4.5	3.0	4.0	0.0						
Red	0.5	0.5	1.0	0.5	1.5	0.0						



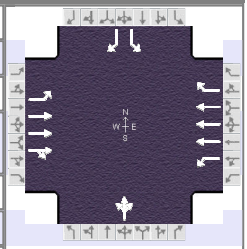
Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6	7	4		8
Case Number	1.1	3.0	1.1	3.0	1.0	4.0		5.3
Phase Duration, s	16.3	75.5	9.1	68.3	15.6	45.4		29.8
Change Period, ($Y+R_c$), s	3.5	5.5	3.5	5.5	3.5	5.5		5.5
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0	3.1	3.4		3.4
Queue Clearance Time (g_s), s	12.6		5.7		14.1	13.9		23.0
Green Extension Time (g_e), s	0.2	0.0	0.1	0.0	0.0	1.6		1.3
Phase Call Probability	1.00		0.97		1.00	1.00		1.00
Max Out Probability	0.00		0.00		1.00	0.00		0.05

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3	8	18
Adjusted Flow Rate (*v*), veh/h	213	1398	138	102	2366	209	236	205		198	75	198
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1725	1598	1810	1712	1610	1810	1754		1196	1900	1610
Queue Service Time (g_s), s	10.6	22.2	5.7	3.7	57.4	10.0	12.1	11.9		21.0	4.3	14.8
Cycle Queue Clearance Time (g_c), s	10.6	22.2	5.7	3.7	57.4	10.0	12.1	11.9		21.0	4.3	14.8
Green Ratio (*g/C*)	0.60	0.54	0.54	0.53	0.48	0.48	0.30	0.31		0.19	0.19	0.19
Capacity (*c*), veh/h	240	2787	860	272	2480	778	430	538		279	355	301
Volume-to-Capacity Ratio (*X*)	0.886	0.502	0.160	0.375	0.954	0.269	0.549	0.381		0.710	0.211	0.658
Back of Queue (*Q*), ft/ln (95 th percentile)	304	334	94	67	840	172	254	219		268	94	254
Back of Queue (*Q*), veh/ln (95 th percentile)	12.2	13.4	3.7	2.7	33.3	6.9	10.1	8.8		10.7	3.8	10.2
Queue Storage Ratio (*RQ*) (95 th percentile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Uniform Delay (d_1), s/veh	40.8	19.0	15.2	17.0	32.2	20.0	38.0	35.4		51.5	44.8	49.0
Incremental Delay (d_2), s/veh	13.8	0.6	0.4	0.3	13.0	0.9	0.9	0.2		2.6	0.1	0.9
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Control Delay (*d*), s/veh	54.6	19.6	15.6	17.3	45.3	20.8	38.9	35.5		54.1	44.9	49.9
Level of Service (LOS)	D	B	B	B	D	C	D	D		D	D	D
Approach Delay, s/veh / LOS	23.6	C		42.3	D		37.3	D		50.9	D	
Intersection Delay, s/veh / LOS	36.5						D					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.90	B	2.10	B	2.72	C	2.73	C
Bicycle LOS Score / LOS	1.45	A	1.96	B	1.22	A	1.26	A

HCS Signalized Intersection Results Summary

General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Mitigated Horizon Full Build MD	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2036	Analysis Period	1> 7:00
Intersection	Gibson & Alumni	File Name	Mitigated Gibson Alumni Horizon TOTAL MD.xus		
Project Description	Gibson In-N-Out (Mitigated) Horizon Full Build MD				



Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	159	1396	56	47	1402	98	26	0	44	90		30

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On

Green	2.5	3.4	74.5	10.8	11.8	0.0	1	2	3	4	5	6	7	8
Yellow	3.0	0.0	4.0	3.0	3.0	0.0								
Red	1.0	0.0	1.0	1.0	1.0	0.0								

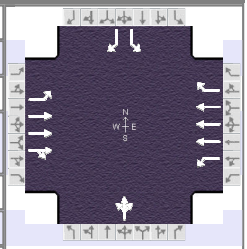
Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6		4		8
Case Number	1.1	4.0	1.1	3.0		12.0		9.0
Phase Duration, s	9.9	82.9	6.5	79.5		14.8		15.8
Change Period, ($Y+R_c$), s	4.0	5.0	4.0	5.0		4.0		4.0
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0		3.2		3.3
Queue Clearance Time (g_s), s	5.7		3.1			6.7		7.7
Green Extension Time (g_e), s	0.2	0.0	0.0	0.0		0.1		0.2
Phase Call Probability	1.00		0.79			0.90		0.98
Max Out Probability	0.00		0.00			0.00		0.00

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3		18
Adjusted Flow Rate (*v*), veh/h	159	975	477	47	1402	98		70		90		30
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1900	1861	1810	1712	1610		1679		1810		1610
Queue Service Time (g_s), s	3.7	14.5	14.5	1.1	17.1	2.9		4.7		5.7		2.1
Cycle Queue Clearance Time (g_c), s	3.7	14.5	14.5	1.1	17.1	2.9		4.7		5.7		2.1
Green Ratio (*g/C*)	0.68	0.65	0.65	0.64	0.62	0.62		0.09		0.10		0.10
Capacity (*c*), veh/h	336	2466	1207	288	3188	1000		152		178		158
Volume-to-Capacity Ratio (*X*)	0.474	0.395	0.395	0.163	0.440	0.098		0.462		0.507		0.190
Back of Queue (*Q*), ft/ln (95 th percentile)	57	234	238	18	252	45		90		119		38
Back of Queue (*Q*), veh/ln (95 th percentile)	2.3	9.4	9.4	0.7	10.0	1.8		3.6		4.7		1.5
Queue Storage Ratio (*RQ*) (95 th percentile)	0.25	0.00	0.00	0.10	0.00	0.00		0.00		0.52		0.17
Uniform Delay (d_1), s/veh	9.1	10.0	10.0	8.7	11.9	9.2		51.8		51.4		49.7
Incremental Delay (d_2), s/veh	0.4	0.5	1.0	0.1	0.4	0.2		0.8		0.8		0.2
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0		0.0
Control Delay (*d*), s/veh	9.5	10.4	10.9	8.8	12.3	9.4		52.6		52.2		49.9
Level of Service (LOS)	A	B	B	A	B	A		D		D		D
Approach Delay, s/veh / LOS	10.5	B		12.0	B		52.6	D		51.6	D	
Intersection Delay, s/veh / LOS	13.5						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.65	B	1.88	B	2.74	C	2.62	C
Bicycle LOS Score / LOS	1.37	A	1.34	A	0.60	A		F

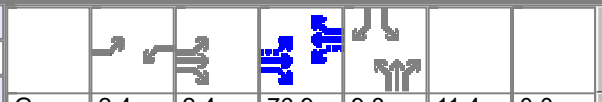
HCS Signalized Intersection Results Summary

General Information				Intersection Information	
Agency				Duration, h	1.000
Analyst		Analysis Date	5/21/2024	Area Type	Other
Jurisdiction	CABQ	Time Period	Mitigated Horizon Full Build PM	PHF	1.00
Urban Street	Gibson Boulevard	Analysis Year	2036	Analysis Period	1> 7:00
Intersection	Gibson & Alumni	File Name	Mitigated Gibson Alumni Horizon TOTAL PM.xus		
Project Description	Gibson In-N-Out (Mitigated) Horizon Full Build PM				

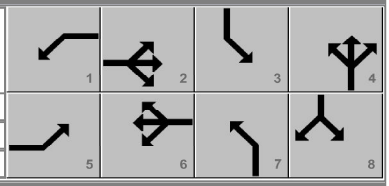


Demand Information	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Demand (*v*), veh/h	124	1505	32	46	2620	82	11	0	40	70		20

Signal Information			
Cycle, s	120.0	Reference Phase	2
Offset, s	0	Reference Point	End
Uncoordinated	No	Simult. Gap E/W	On
Force Mode	Fixed	Simult. Gap N/S	On



Green	2.4	2.4	76.9	9.8	11.4	0.0
Yellow	3.0	0.0	4.0	3.0	3.0	0.0
Red	1.0	0.0	1.0	1.0	1.0	0.0



Timer Results	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	5	2	1	6		4		8
Case Number	1.1	4.0	1.1	3.0		12.0		9.0
Phase Duration, s	8.9	84.4	6.4	81.9		13.8		15.4
Change Period, ($Y+R_c$), s	4.0	5.0	4.0	5.0		4.0		4.0
Max Allow Headway (*MAH*), s	3.0	0.0	3.0	0.0		3.3		3.3
Queue Clearance Time (g_s), s	4.8		3.1			5.5		6.4
Green Extension Time (g_e), s	0.2	0.0	0.0	0.0		0.0		0.1
Phase Call Probability	0.98		0.78			0.82		0.95
Max Out Probability	0.00		0.00			0.00		0.00

Movement Group Results	EB			WB			NB			SB		
Approach Movement	L	T	R	L	T	R	L	T	R	L	T	R
Assigned Movement	5	2	12	1	6	16	7	4	14	3		18
Adjusted Flow Rate (*v*), veh/h	124	1028	509	46	2620	82		51		70		20
Adjusted Saturation Flow Rate (*s*), veh/h/ln	1810	1900	1879	1810	1712	1610		1649		1810		1610
Queue Service Time (g_s), s	2.8	15.1	15.1	1.1	44.9	2.3		3.5		4.4		1.4
Cycle Queue Clearance Time (g_c), s	2.8	15.1	15.1	1.1	44.9	2.3		3.5		4.4		1.4
Green Ratio (*g/C*)	0.69	0.66	0.66	0.66	0.64	0.64		0.08		0.10		0.10
Capacity (*c*), veh/h	165	2513	1242	275	3291	1032		135		172		153
Volume-to-Capacity Ratio (*X*)	0.751	0.409	0.409	0.167	0.796	0.079		0.378		0.407		0.131
Back of Queue (*Q*), ft/ln (95 th percentile)	105	238	244	17	558	34		66		91		25
Back of Queue (*Q*), veh/ln (95 th percentile)	4.2	9.5	9.7	0.7	22.1	1.4		2.6		3.7		1.0
Queue Storage Ratio (*RQ*) (95 th percentile)	0.46	0.00	0.00	0.09	0.00	0.00		0.00		0.40		0.11
Uniform Delay (d_1), s/veh	27.2	9.4	9.4	8.1	15.8	8.2		52.2		51.1		49.8
Incremental Delay (d_2), s/veh	2.6	0.5	1.0	0.1	2.1	0.2		0.7		0.6		0.1
Initial Queue Delay (d_3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0		0.0
Control Delay (*d*), s/veh	29.9	9.9	10.4	8.2	17.9	8.3		52.9		51.7		49.9
Level of Service (LOS)	C	A	B	A	B	A		D		D		D
Approach Delay, s/veh / LOS	11.6	B		17.5	B		52.9	D		51.3	D	
Intersection Delay, s/veh / LOS	16.4						B					

Multimodal Results	EB		WB		NB		SB	
Pedestrian LOS Score / LOS	1.65	B	1.88	B	2.74	C	2.62	C
Bicycle LOS Score / LOS	1.40	A	2.00	B	0.57	A		F

Appendix E: AASHTO Green Book Intersection Sight Distance Calculations

Scenario:	Right Turn from the Minor Road
Type of Vehicle:	Passenger Car
# Lanes Crossing:	1
Speed Limit (mph):	45
Median?	No
	12
Base Time Gap:	6.5
Additional Lanes to Cross:	0
Additional Time:	0
Final Time Gap:	6.5
SIGHT DISTANCE REQUIRED	429.98
SIGHT DISTANCE REQUIRED (Rounded)	**430**

$$ISD = 1.47\ (V_{major})\ t_g$$

t_g Values				
CASE		Passenger Car	Single-Unit Truck	Combination Truck
B1	Left Turn from the Minor Road	7.5	9.5	11.5
B2	Right Turn from the Minor Road	6.5	8.5	10.5
B3	Crossing Maneuver from the Minor Road			
F	Left Turn from the Major Road	5.5	6.5	7.5

CASE B1 - For a stopped vehicle to turn left onto a 2-lane highway with no median and grades 3 percent or less

For left turns onto two-way highways with more than 2 lanes:
+0.5 seconds for passenger cars
+0.7 seconds for trucks
for each additional lane, from the left, in excess of one, to be crossed by the turning vehicle.

For minor road approach grades:
+0.2 seconds for each percent grade
if the approach grade is an upgrade that exceeds 3 percent.

CASE B2 + B3 - For a stopped vehicle to turn right onto or cross a 2-lane highway with no median and grades 3 percent or less

For crossing a major road with more than 2 lanes:
+0.5 seconds for passenger cars
+0.7 seconds for trucks
for each additional lane to be crossed and narrow medians that cannot store the design vehicle.

For minor road approach grades:
+0.1 seconds for each percent grade
if the approach grade is an upgrade that exceeds 3 percent.

CASE F – For a stopped vehicle to turn across one lane of opposing traffic

For left-turning vehicles that cross more than 1 opposing lane:
+0.5 seconds for passenger cars
+0.7 seconds for trucks
for each additional lane to be crossed.

Scenario:	Left Turn from the Minor Road
Type of Vehicle:	Passenger Car
# Lanes Crossing:	1
Speed Limit (mph):	30
Median?	Yes
Enter Median Width:	12
Base Time Gap:	7.5
Additional Lanes to Cross:	1
Additional Time:	0.5
Final Time Gap:	8
SIGHT DISTANCE REQUIRED	352.80
SIGHT DISTANCE REQUIRED (Rounded)	**355**

Scenario:	Right Turn from the Minor Road
Type of Vehicle:	Passenger Car
# Lanes Crossing:	1
Speed Limit (mph):	30
Median?	Yes
Enter Median Width:	12
Base Time Gap:	6.5
Additional Lanes to Cross:	0
Additional Time:	0
Final Time Gap:	6.5
SIGHT DISTANCE REQUIRED	286.65
SIGHT DISTANCE REQUIRED (Rounded)	**290**