
Appendix D:

Transportation Supporting Information

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1000 Gibraltar Drive

15164 Addendum to the 1000 Gibraltar Drive Final EIR

D.1 - Local Transportation Analysis

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1000 Gibraltar Drive Delivery Center

DATE:

July 9, 2025

LOCATION:

1000 Gibraltar Drive
Milpitas, CA 95035

PREPARED FOR:

City of Milpitas

PREPARED BY:

NV5 Engineers & Consultants
15092 Avenue of Science, Suite 200
San Diego, CA 92128

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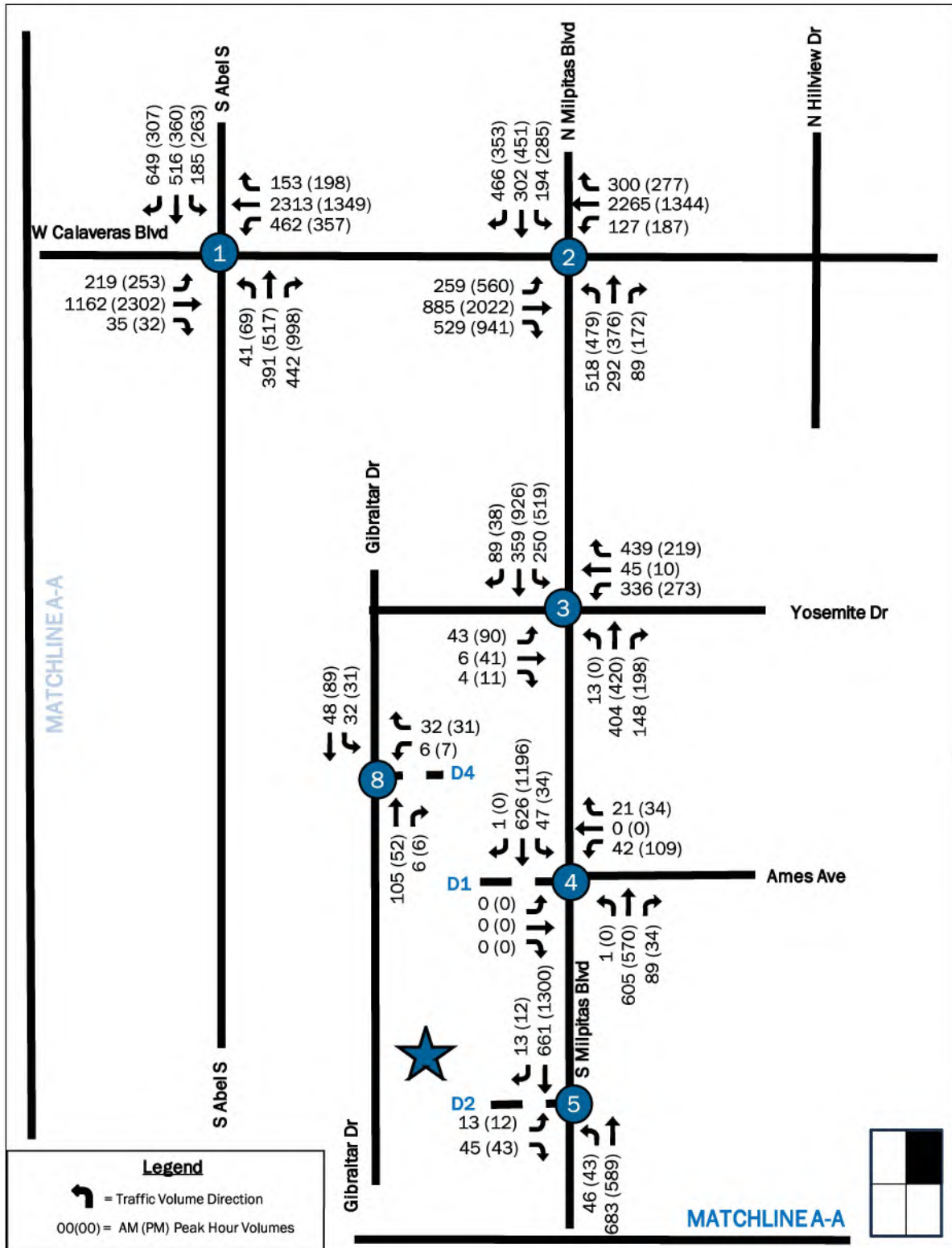
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Executive Summary

A new distribution center will be built at 1000 Gibraltar Drive in Milpitas, California. The 487,564 square-foot (SF) building is intended to be used as a last-mile, e-commerce delivery center. The project is anticipated to generate approximately 3,812 net new daily trips, including 260 trips during the AM peak hour (131 inbound, 129 outbound) and 245 trips during the PM peak hour (122 inbound, 123 outbound).

Traffic operations at intersections outside of the Congestion Management Program (CMP) operate acceptably under Existing conditions. All non-CMP intersections are anticipated to operate at LOS B or better under both the 2026 and 2040 scenarios, with the exception of the South Milpitas Boulevard & Yosemite Drive intersection, which is projected to operate at LOS E under both 2040 No-Build and Build PM conditions. However, since there is no change in critical delay or volume-to-capacity (V/C) ratio between scenarios, the project does not result in an adverse effect at this location, and no mitigation is warranted per City of Milpitas guidelines.

No additional improvements are recommended as part of this analysis. The results indicate that the surrounding transportation network can adequately accommodate the traffic generated by the proposed delivery center.

A. Introduction

This Local Transportation Analysis (LTA) has been performed to identify the transportation impacts associated with the operation of a delivery center. The site is located at 1000 Gibraltar Drive in Milpitas, CA. Figure 1 shows the location of the project site.

NV5 was retained to prepare this Local Traffic Assessment (LTA) to evaluate the potential traffic impacts of the proposed development on the surrounding roadway network and to identify any improvements that may be necessary to mitigate those impacts. To conduct this assessment, NV5 performed the following tasks:

- Collected data on existing traffic conditions by conducting turning movement counts at key intersections in the vicinity of the proposed project during the weekday morning and evening peak hours.
- Calculated site generated traffic by using the provided trip generation from the site. These trips were then assigned to the surrounding roadway network based on existing travel patterns and the nature of the proposed use.
- Performed capacity analyses for Existing (2024), No-Build (2026), Build (2026), Future No-Build (2040), Future Build (2040), and Future Build Conditions with Mitigation (2040) scenarios within the study area.

This report summarizes NV5's findings and recommendations regarding the anticipated traffic impacts of the proposed development. A detailed project scoping memorandum is included in Appendix E.

A.1. Relevant Regulatory Agencies and Plans

This section outlines the key transportation regulatory agencies and relevant planning documents that guide land use and transportation decisions for the Project. These agencies operate at the regional and local levels, with authority or influence over planning initiatives affecting the City of Milpitas, which is located within Santa Clara County and the broader San Francisco Bay Area.

The plans summarized below provide important policy direction and regulatory context relevant to transportation infrastructure, congestion management, and sustainable land use development within Milpitas and its surrounding region.

Plan Bay Area 2040

Plan Bay Area 2040 is a long-range regional transportation and land use strategy jointly developed and administered by the Metropolitan Transportation Commission (MTC) and the Association of Bay Area Governments (ABAG). It fulfills the requirements of California Senate Bill 375, serving as the region's Sustainable Communities Strategy (SCS) and the Regional Transportation Plan (RTP).

Originally adopted in July 2013 and updated in July 2017, Plan Bay Area 2040 promotes coordinated growth to reduce greenhouse gas emissions by encouraging transit-oriented development in Priority Development Areas (PDAs). These areas are typically located near public transit to support higher-density housing, reduce auto dependency, and accommodate future population growth. Major transportation initiatives in the Plan include:

- BART extension to San José and Santa Clara,
- Caltrain electrification,
- Upgrades to the Amtrak Capitol Corridor, and
- Enhanced local and express bus service.

These projects are aligned with state goals for reducing vehicle miles traveled (VMT) and promoting multimodal transportation.

[Santa Clara Valley Transportation Authority \(VTA\) Congestion Management Program \(CMP\)](#)

As the designated Congestion Management Agency for Santa Clara County, the Santa Clara Valley Transportation Authority (VTA) administers the Congestion Management Program (CMP). The CMP is a collaborative planning framework aimed at improving mobility, supporting sustainable land use decisions, and addressing air quality through coordinated transportation investments.

Key elements of the CMP include:

- Technical guidelines for evaluating land development impacts,
- A Complete Streets policy promoting multimodal access,
- Bicycle and pedestrian planning components, and
- Regional travel demand modeling and level of service (LOS) standards.

The CMP ensures consistency across jurisdictions in managing congestion and aligning development with transportation capacity.

[Valley Transportation Plan \(VTP\) 2040](#)

The Valley Transportation Plan (VTP) 2040 is Santa Clara County's long-range transportation plan, also developed by VTA. It serves as the county's input to the regional Plan Bay Area and outlines a vision for multimodal transportation investments through 2040. Adopted by the VTA Board in September 2014, VTP 2040 addresses:

- Roadway and highway system improvements,
- Public transit expansion and modernization,
- Intelligent Transportation Systems (ITS) and system operations,
- Bicycle and pedestrian facility planning, and

- Integration of land use and transportation strategies.

VTP 2040 identifies priority transportation projects and funding strategies that support the county's economic vitality, environmental sustainability, and equitable access to mobility.

A.2. Relevant City Plans

The City of Milpitas has primary jurisdiction over its local transportation infrastructure, including the city street network, traffic signals under municipal control, and policies governing land use and zoning. In support of its planning and development goals, the City has adopted a range of plans that provide strategic guidance for managing and enhancing its transportation systems. The following documents are particularly relevant to the Project:

City of Milpitas General Plan

The Milpitas General Plan is the City's foundational policy document, outlining a long-term vision for growth, development, and quality of life. It includes goals, policies, and implementation strategies intended to guide decision-making across a broad range of topics, including land use, housing, mobility, and environmental stewardship.

The Circulation Element of the General Plan establishes a framework for developing a safe, efficient, and accessible multimodal transportation system that serves the needs of residents, employees, and visitors. It emphasizes the integration of transportation demand management (TDM) strategies, encourages the use of public transit and non-motorized travel modes (e.g., walking and bicycling), and supports regional coordination with agencies such as VTA and MTC.

Key objectives include:

- Reducing reliance on single-occupancy vehicles,
- Promoting active transportation,
- Ensuring connectivity between land uses and mobility options, and
- Aligning local actions with regional sustainability initiatives.

The last comprehensive update to the General Plan occurred in 1994. A major update process is currently underway to modernize the Plan and align it with current environmental, equity, and mobility goals.

Milpitas Transit Area Specific Plan

The Milpitas Transit Area Specific Plan (TASP) was adopted in June 2008 and amended in December 2011. It establishes a detailed land use and transportation strategy for a 437-acre redevelopment area in the southern portion of the City, centered around the Milpitas BART station and VTA Light Rail.

The Plan envisions the area as a compact, mixed-use, transit-oriented community that reduces vehicle dependence and supports sustainable growth.

The current land use program under the Plan includes:

- 7,109 residential dwelling units,
- Approximately 994,000 square feet of office space
- 340 hotel rooms, and
- Roughly 287,000 square feet of commercial retail space.

The Specific Plan includes street design standards, pedestrian and bicycle infrastructure requirements, and policies aimed at enhancing connectivity and urban design. Although the Project site itself lies outside the TASP boundaries, some study intersections fall within its area of influence. Therefore, the applicable level of service (LOS) standards and transportation performance metrics established in the TASP are used in this Project's analysis.

City of Milpitas Bikeway Master Plan

The Bikeway Master Plan, originally adopted on December 8, 2003, and updated in 2009, outlines the City's strategy for creating a comprehensive and connected bicycle transportation network. The plan is currently undergoing another update to reflect new regional and state policies, emerging mobility trends, and community feedback.

The Plan identifies:

- The City's existing and planned bikeway infrastructure,
- Gaps and opportunities for connectivity,
- Design guidelines for bikeway types (Class I, II, and III),
- Safety and wayfinding improvements, and
- Implementation strategies to increase bicycle ridership as a viable transportation mode.

The Plan supports the City's goals for active transportation, environmental sustainability, and health by promoting bicycle use as an alternative to automobile travel, particularly for short trips and first/last mile connections to transit.

A.3. Project Overview

The project includes the demolition of all existing on-site structures and the construction of a modern, 487,564-square-foot distribution center. The parcel is currently occupied by a vacant LifeScan facility, formerly operated by Johnson & Johnson. The planned facility will serve as a hub for the delivery of eCommerce goods. The target build date is 2026.

The study includes analysis of the Existing and Future Conditions of the following intersections:

1. West Calaveras Boulevard & Abel Street
2. E Calaveras Boulevard & Milpitas Boulevard
3. South Milpitas Boulevard & Yosemite Drive
4. South Milpitas Boulevard & Ames Avenue / Driveway 1
5. South Milpitas Boulevard & Driveway 2
6. South Milpitas Boulevard & Gibraltar Drive
7. Gibraltar Drive & Driveway 3
8. Gibraltar Drive & Driveway 4
9. Montague Expressway & South Milpitas Drive
10. Great Mall Parkway / East Capitol Avenue & Montague Expressway
11. Montague Expressway & McCandless Drive / Trade Center Boulevard
12. Montague Expressway & South Main Street / Oakland Road

The study area includes both CMP-designated and non-CMP intersections. The following study locations are designated CMP intersections:

- West Calaveras Boulevard & South Abel Street
- East Calaveras Boulevard & Milpitas Boulevard
- South Milpitas Drive & Montague Expressway
- Great Mall Parkway/East Capitol Avenue & Montague Expressway
- Montague Expressway & McCandless Drive/Trade Center Boulevard
- Montague Expressway & South Main Street/Oakland Road

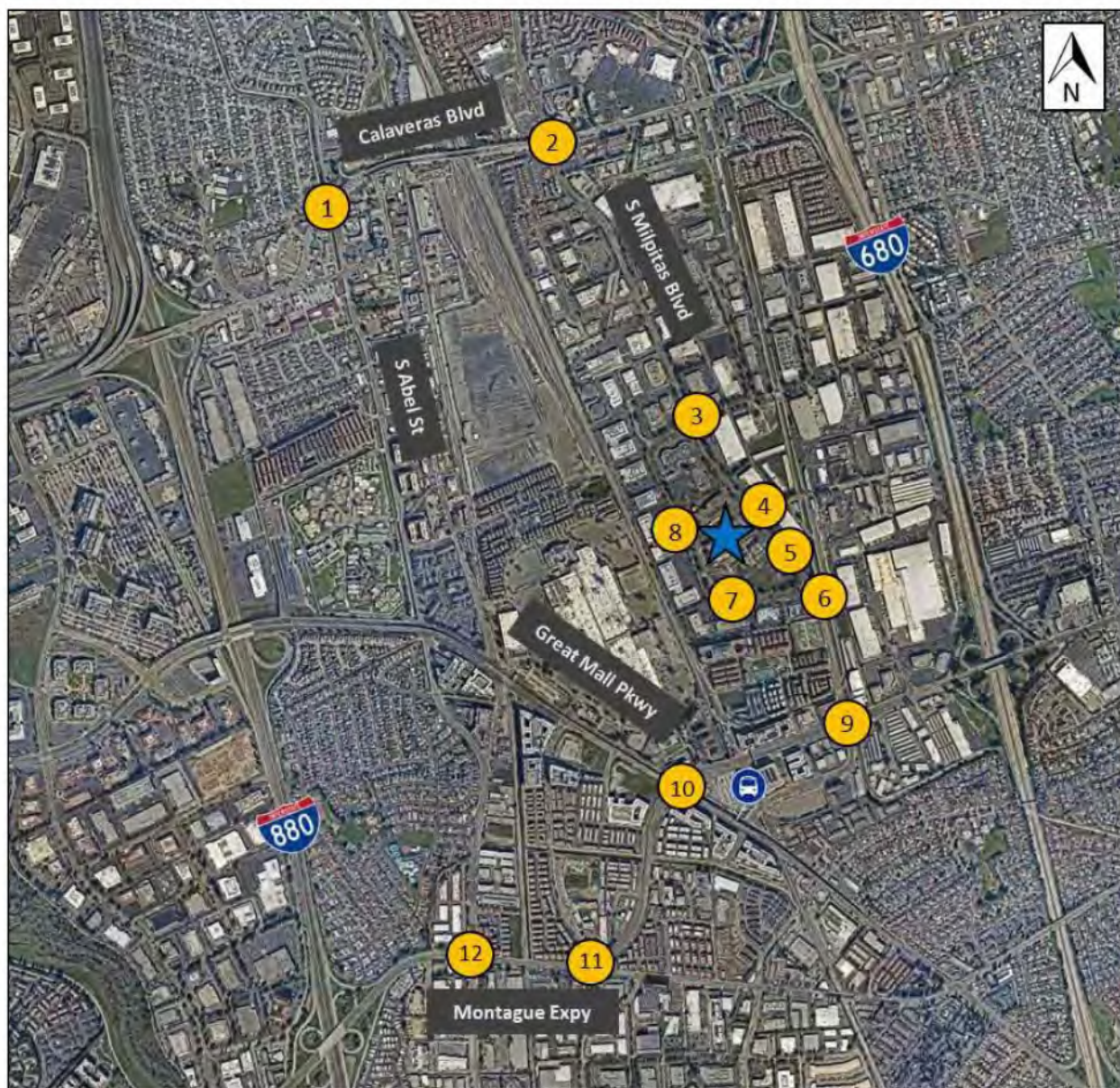
These intersections were included in the study area to reflect realistic traffic conditions. However, consistent with CMP guidelines, no project-specific mitigations were applied at these locations, regardless of queuing or capacity analysis findings.

The following study locations are not part of the CMP network:

- South Milpitas Boulevard & Yosemite Drive
- South Milpitas Boulevard & Ames Avenue/Driveway 1
- South Milpitas Boulevard & Driveway 2
- South Milpitas Boulevard & Gibraltar Drive
- Gibraltar Drive & Driveway 3
- Gibraltar Drive & Driveway 4

Figure 2 illustrates the previously listed study intersections superimposed on existing aerial imagery.

Figure 2: Site Location Aerial



A.5. Development Site Description

Site access will be provided via four (4) driveways located along South Milpitas Boulevard and Gibraltar Drive. Two existing driveways will accommodate truck ingress and egress, while two new driveways will be constructed for passenger vehicle access. A total of 785 parking stalls will be provided, including 408 for associates, 18 accessible stalls, 24 compact stalls, 90 EV-ready spaces, 23 electric vehicle charging stations (EVCS), and 335 flex stalls. The distribution center will be served by D1 and D2 along Milpitas Boulevard and D3 and D4 along Gibraltar Drive. Figure 3 below shows a schematic of the site with driveways accentuation. A site plan is attached in Appendix A.

Figure 3: Site Plan



All line-haul truck traffic will enter the site via Driveway 1 (D1) on Milpitas Boulevard and exit via Driveway 4 (D4) on Gibraltar Drive. Driveways 2 (D2) and 3 (D3), located on Milpitas Boulevard and Gibraltar Drive respectively, will serve passenger vehicles only and provide access to the parking area on the west side of the site. Separating truck and passenger vehicle access enhances site circulation by minimizing vehicle conflicts, optimizing on-site queuing, and ensuring adequate parking accommodations.

B. Existing Conditions

B.1. Existing Transportation Network

Abel Street is a four-lane principle arterial with a 35 MPH posted speed limit with a turn lane throughout the corridor. Traversing the central portion of the City of Milpitas, it provides direct access to key civic and commercial destinations, including the Milpitas Library, City Hall, and the Great Mall. The corridor is characterized by a mix of residential and commercial land uses and is well-served by local public transit. It lies within walking distance of the Milpitas Transit Center, a regional transportation hub offering connections to BART, VTA bus routes, and light rail services.

Ames Avenue is an east–west local roadway that provides direct access to the project site as well as to nearby commercial, office, and light industrial uses located east of the site. The roadway consists of a single travel lane in each direction and has a posted speed limit of 35 miles per hour. On-street parking is permitted east of the Union Pacific Railroad tracks. Pedestrian facilities are limited, with discontinuous sidewalks present on both sides of the street. There are no dedicated bicycle facilities along Ames Avenue, limiting multimodal connectivity in this portion of the study area.

Calaveras Boulevard is a six-lane, median-divided roadway with a posted speed limit of 40 miles per hour in the vicinity of the study area. Functioning as an east–west principal arterial, it provides regional connectivity between I- 880 and I- 680 and forms part of SR 237. Sidewalks are provided on both sides of the street, except between Milpitas Boulevard and Abel Street where a sidewalk is provided only on the north side. Bicycle facilities are not provided.

Gibraltar Drive is a local roadway that primarily runs north–south but includes an east–west segment near the project site. The roadway provides direct access to the project site and serves adjacent industrial and office developments located to the west. Gibraltar Drive consists of one travel lane in each direction. Along the east–west segment, a two-way left-turn lane is provided to facilitate access to driveways and cross streets. The posted speed limit is 30 MPH. On-street parking is prohibited throughout the corridor. Sidewalks are present on both sides of the roadway, offering pedestrian connectivity; however, no dedicated bicycle facilities are provided, and limiting bicycle access along this corridor.

Great Mall Parkway–Capitol Avenue is a major northwest-southeast oriented arterial roadway that serves as a key corridor for regional mobility in the southwestern portion of the city. It provides access to a mix of surrounding land uses, including residential neighborhoods, commercial centers, and office developments. The roadway consists of three travel lanes in each direction, separated by the Valley Transportation Authority (VTA) light rail tracks, which run within a raised median. The posted speed limit is 40 miles per hour. On-street parking is prohibited, and the corridor is designed to support multimodal travel with sidewalks and striped bicycle lanes provided along both sides of the roadway.

South Milpitas Boulevard is a four-lane, median-divided arterial with a posted speed limit of 40 miles per hour. It extends north from the southern city limits near the Montague Expressway. The corridor is also planned for infrastructure improvement projects, including a proposed bridge crossing over the Penitencia East Channel.

Yosemite Drive is an east–west oriented local roadway located northeast of the project site. It functions as a connector within the local street network, providing direct access to surrounding offices, and industrial, and commercial land uses in the study area. The roadway is divided, with two travel lanes in each direction, and has a posted speed limit of 40 miles per hour. On-street parking is prohibited along the corridor. Pedestrian and bicycle infrastructure includes sidewalks and striped bike lanes on both sides of the street, supporting multimodal travel in the area.

Montague Expressway is an east-west oriented expressway located south of the Project site and serves as a major regional arterial in the area. The roadway is divided by a raised center median and is designed to accommodate high traffic volumes with limited access. Between Montague Court and Great Mall Parkway, the expressway provides three general-purpose lanes and one eastbound high-occupancy vehicle (HOV) lane, which operates on weekdays from 6:00 AM to 9:00 AM. West of Great Mall Parkway, the facility transitions to three general-purpose lanes in each direction. The posted speed limit is 45 miles per hour. On-street parking is prohibited. Pedestrian infrastructure is limited, with discontinuous sidewalks along both sides of the corridor, and dedicated bicycle facilities are not present, limiting non-motorized travel options along this segment.

South Milpitas Boulevard is a north-south collector roadway that provides direct vehicular access to the Project site and serves as a key connector for surrounding office, industrial, and commercial developments. The roadway features two travel lanes in each direction. Between Los Coches Street and Gibraltar Drive, a continuous two-way left-turn lane facilitates access to driveways serving adjacent land uses. Outside of this segment, a raised center median is present. The posted speed limit is 40 MPH. On-street parking is not permitted. Sidewalks are provided on both sides of the roadway; however, pedestrian continuity is occasionally interrupted by landscaped building frontages that lack defined pathways. Designated striped bicycle lanes are present on both sides of the street, supporting multimodal travel.

Trade Zone Boulevard is a collector roadway that consists of two travel lanes in each direction and is divided by a raised center median. The posted speed limit is 35 MPH. On-street parking is prohibited along the entire corridor. Sidewalks and designated bicycle facilities are provided on both sides of the roadway, supporting pedestrian and cyclist mobility in the area. The corridor transitions in orientation at Montague Expressway: Trade Zone Boulevard, located south of Montague Expressway, runs east-west, while McCandless Drive, located north of the expressway, runs north-south.

B.2. Existing Bicycle Facilities

Bicycle infrastructure exists in the immediate vicinity of the project site. Bicycle facilities are categorized according to the California Department of Transportation (Caltrans) classification system, which defines the following four facility types:

Class I – Shared-Use Path (Bike Path): A completely separated facility for the exclusive use of bicycles and pedestrians, located off-street within its own right-of-way. Existing Class I bike facilities are not present within the vicinity of the site.

Class II – Bike Lane: A designated on-street lane for bicycle use, typically marked by striping and signage, located adjacent to vehicle travel lanes on priority corridors. Within the Project vicinity, existing Class II Bikeways are provided on:

- Abel-Main Street south of Calaveras Boulevard
- Great Mall Parkway
- Capitol Avenue
- South Milpitas Boulevard
- Trade Zone Boulevard-McCandless Drive
- Yosemite Drive

Class III – Bike Route: A shared roadway facility identified by signage and/or pavement markings, where bicyclists and motor vehicles operate within the same travel lane. Bikeway facilities of this class are limited to the project area. Within the Project vicinity, Class III Bikeways are provided on:

- Calaveras Boulevard
- Abel Street north of Corning Avenue

Class IV – Separated Bikeway (Protected Bike Lane or Cycle Track): An on-street bicycle facility physically separated from motor vehicle traffic by curbs, parked cars, posts, or other physical barriers. Existing Class IV bike facilities are not present within the vicinity of the site.

B.3. Existing Pedestrian Facilities

Pedestrian infrastructure within the Project vicinity includes a comprehensive network of sidewalks, crosswalks, curb ramps, and pedestrian signals. Sidewalks are generally present on at least one side of all surface streets within the study area, supporting pedestrian connectivity throughout the corridor.

At all signalized intersections within the study area, pedestrian accommodation includes marked crosswalks, accessible curb ramps, and pedestrian signal heads with pushbutton actuators to facilitate safe crossing movements. Crosswalks are also present at select unsignalized intersections, enhancing pedestrian access across lower-volume streets.

Curb ramps compliant with Americans with Disabilities Act (ADA) standards are provided at all study intersections, supporting accessibility for all users, including individuals with mobility impairments. The availability of these pedestrian amenities contributes to a walkable environment that supports multimodal access to surrounding land uses.

B.4. Existing Transit Facilities

The study area is served by a robust network of public transit options provided by the Santa Clara Valley Transportation Authority (VTA), Alameda-Contra Costa Transit District (AC Transit), and Bay Area Rapid Transit (BART). These agencies offer a range of services that include local and regional bus routes, light rail transit (LRT), and intercity rail service.

The Project site is directly served by AC Transit Route 217, which provides east-west service between the Fremont BART Station and the Great Mall/Main Transit Center in Milpitas. Bus stops for Route 217 are located along South Milpitas Boulevard, with one stop situated just south of Ames Avenue (west side) and another just north of Ames Avenue (east side), offering convenient access to the Project site. VTA operates multiple transit services in the area, including:

- Local bus routes: 44, 47, and 71;
- Frequent service routes (higher frequency during peak periods): 60, 66, 70, and 77;
- Express route: 104, which offers limited-stop service for commuters.
- Light Rail Transit (LRT): The Orange Line, providing a service from Mountain View to Alum Rock, traverses the study area and connects with the Milpitas Transit Center.

BART service was extended to the City of Milpitas with the opening of the Milpitas BART Station on June 13, 2020. The station provides regional connectivity to destinations throughout the Bay Area, including San Francisco, Oakland, and the East Bay, and is co-located with VTA's Milpitas Transit Center, creating a multimodal hub.

B.5. Traffic Counts

Studies of comparable developments across North America indicate that traffic generation is typically correlated with a measurable unit of site activity (e.g., number of fueling positions, gross floor area, or number of service bays). Given the variability of site traffic throughout the day and year, it is essential to identify an appropriate peak hourly volume to inform the design of the external roadway network and site access points. For this analysis, a common AM and PM peak hour was determined by evaluating the peak hours at each study intersection and selecting the time periods most consistently represented across the study area.

Intersection turning movement counts (TMCs) at the twelve study intersections were collected on Monday, November 19, 2024, while schools were in session. A comprehensive analysis of the study network was conducted to identify consistent peak hours across all intersections. Most intersections

exhibited a common AM peak between 7:45 AM and 8:45 AM, and a common PM peak between 5:00 PM and 6:00 PM. To ensure consistency in the analysis, these time periods were selected as the representative AM and PM peak hours. Supporting intersection traffic data is provided in Appendix C.

B.6. Existing Traffic Analysis

The capacity analysis and queuing analysis in each of the scenarios were performed using the traffic analysis software Synchro® 12. Average vehicular delays are calculated and reported as Levels of Service (LOS) as defined by the Highway Capacity Manual, 7th Edition (HCM 7), where LOS A is best, and LOS F is worst. LOS A through LOS D is considered acceptable LOS and LOS E and LOS F are considered unacceptable LOS and may require mitigation. Site driveways are not shown in Existing and No-Build Conditions as they are currently not in use. Due to the operational limitations of the LOS methodology in the HCM, U-turn movements were included with left-turn volumes in the analysis. This adjustment reflects the fact that U-turning vehicles utilize the same lane as left-turning vehicles and contribute to overall delay experienced in the left-turn lane and the overall intersection capacity. In addition to LOS, queue lengths were evaluated. Movements where queue lengths exceed available storage space are identified below each table. When this condition occurs, it indicates that vehicle queues may extend beyond the designated turn lane, potentially interfering with adjacent movements and degrading overall intersection performance. Capacity worksheets are included in Appendix D. The results of Existing capacity analyses are shown in Table 1 and include analysis of the volumes shown in Figures 4 - 6.

Figure 4: Existing Traffic Volumes 1

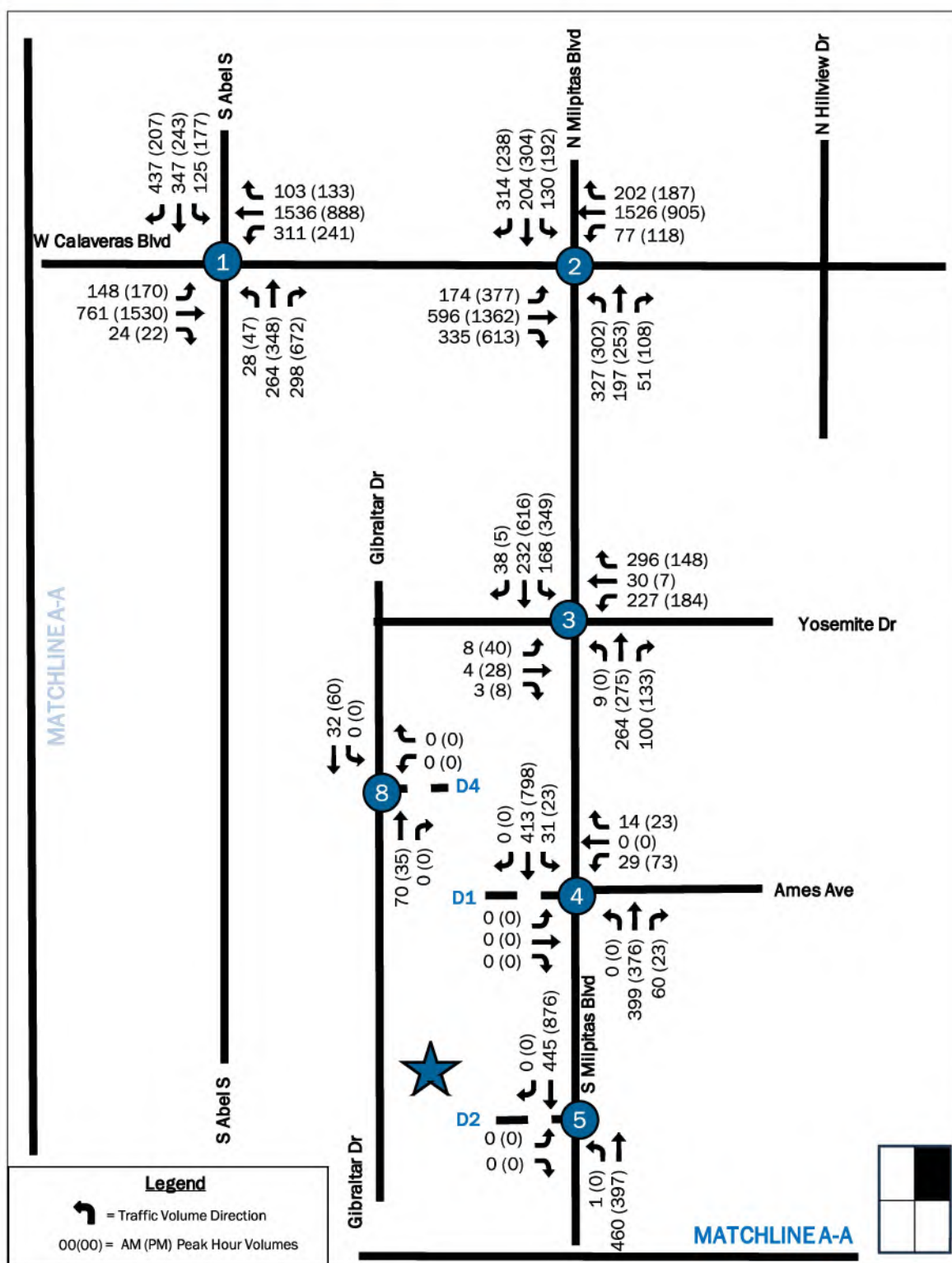


Figure 5: Existing Traffic Volumes 2

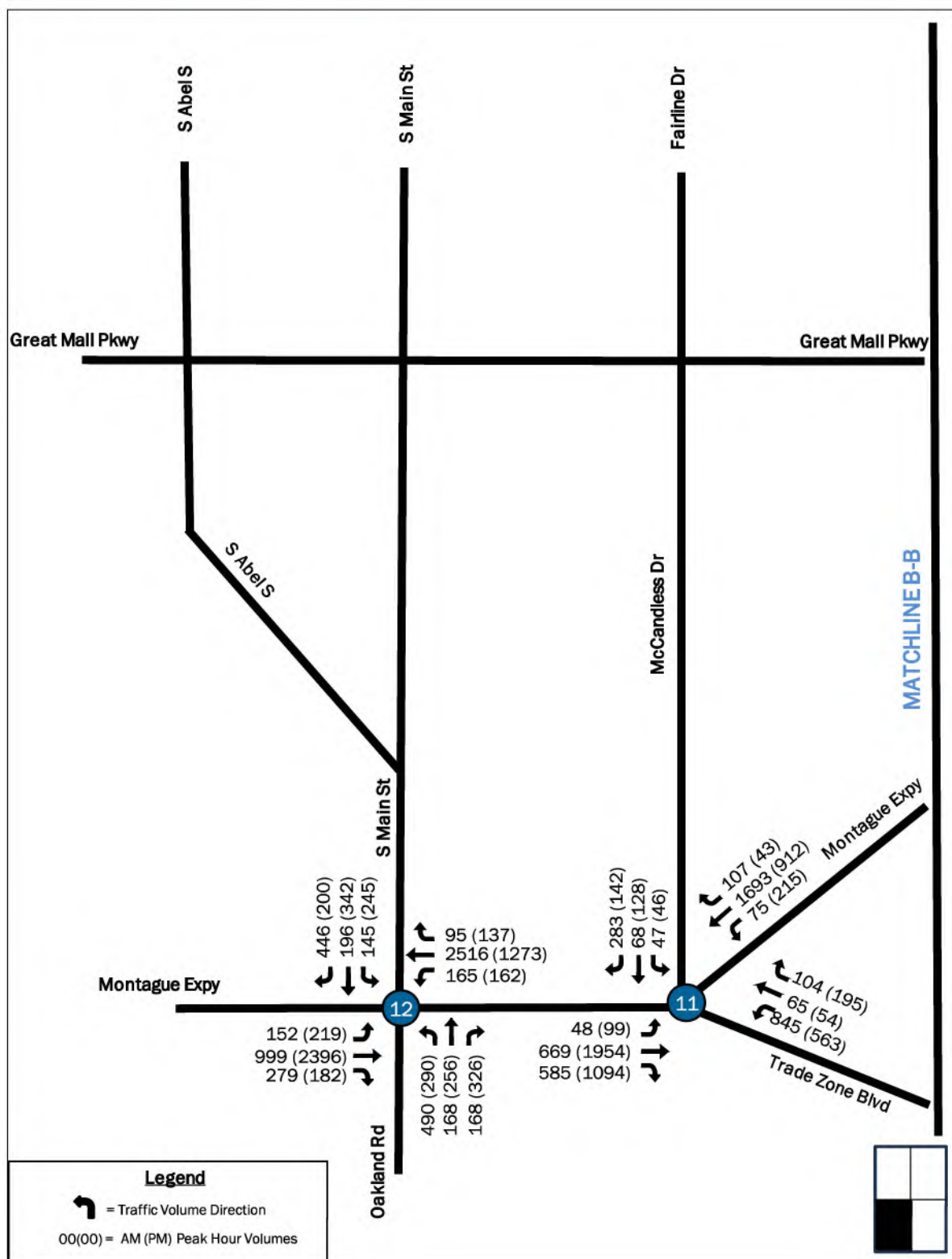


Figure 6: Figure 5: Existing Traffic Volumes 3

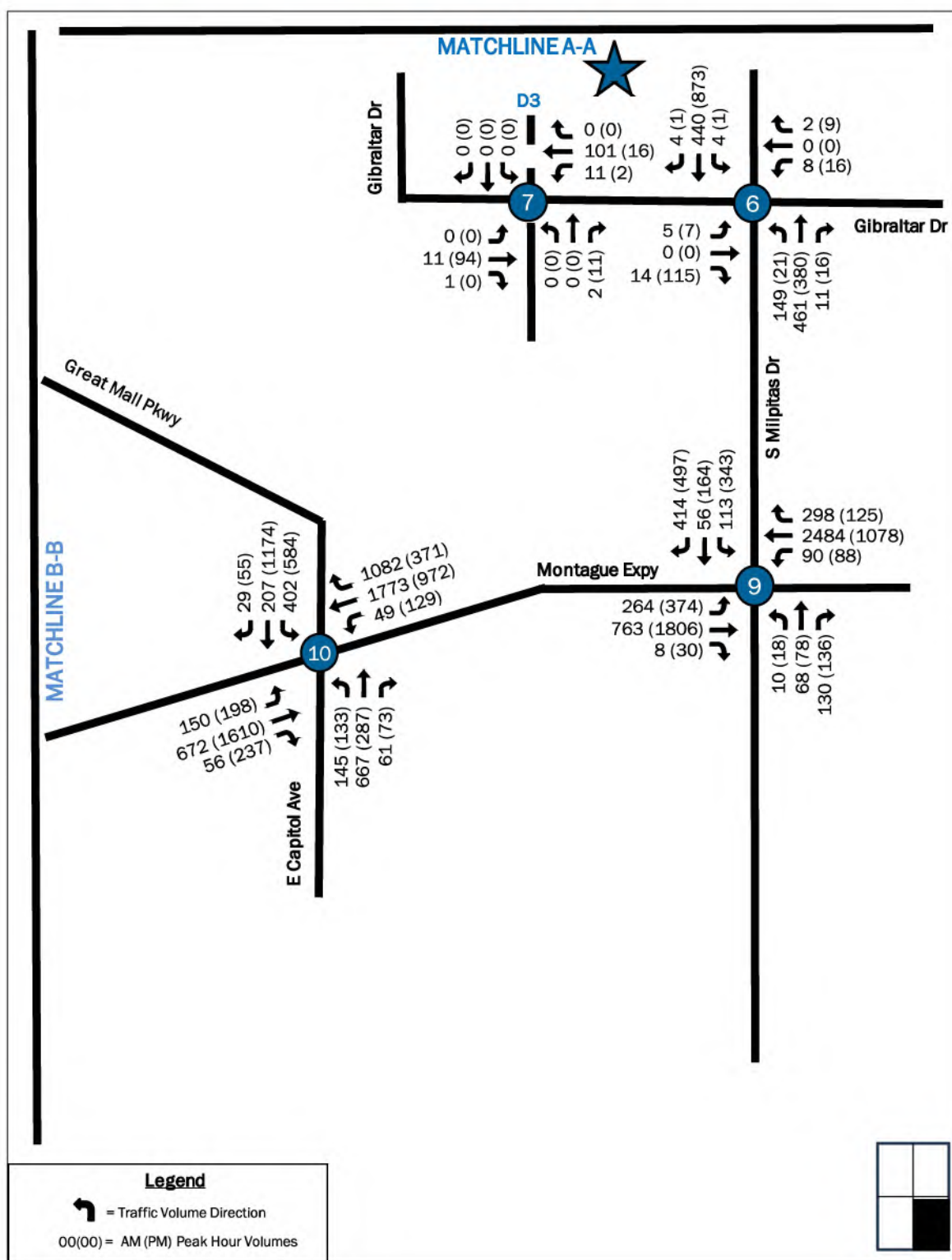


Table 1: Existing (2024) Intersection Capacity Analysis

| ID | Intersection | Control | Movement | AM | | PM | |
|----|--|--------------|----------|-----|-------|-----|-------|
| | | | | LOS | Delay | LOS | Delay |
| 1 | West Calaveras Boulevard & South Abel Street | Signal | Overall | D | 49.3 | F | 108.9 |
| | | | EB | D | 37.5 | D | 39.1 |
| | | | WB | D | 39.2 | C | 34.2 |
| | | | NB | E | 61.0 | F | 324.6 |
| | | | SB | E | 73.9 | E | 65.8 |
| 2 | East Calaveras Boulevard & Milpitas Boulevard | Signal | Overall | D | 37.6 | D | 39.3 |
| | | | EB | C | 31.9 | D | 38.8 |
| | | | WB | D | 38.7 | D | 37.7 |
| | | | NB | D | 40.6 | D | 40.7 |
| | | | SB | D | 40.4 | D | 42.3 |
| 3 | South Milpitas Boulevard & Yosemite Drive | Signal | Overall | C | 33.1 | C | 30.8 |
| | | | EB | C | 35.0 | D | 43.4 |
| | | | WB | D | 46.9 | D | 48.3 |
| | | | NB | B | 19.6 | B | 18.2 |
| | | | SB | C | 27.2 | C | 28.9 |
| 4 | South Milpitas Boulevard & Ames Avenue/Driveway 1 | Signal | Overall | A | 5.7 | A | 6.6 |
| | | | WB | D | 45.0 | D | 42.4 |
| | | | NB | A | 2.8 | A | 3.7 |
| | | | SB | A | 4.9 | A | 3.8 |
| 5 | South Milpitas Boulevard & Driveway 2 | Stop-Control | NBL | A | 8.4 | A | 0.0 |
| | | | EB | A | 0.0 | A | 0.0 |
| 6 | South Milpitas Boulevard & Gibraltar Drive | Signal | Overall | B | 14.8 | A | 7.0 |
| | | | WB | F | 113.1 | F | 110.1 |
| | | | NB | B | 18.6 | A | 6.6 |
| | | | SB | A | 7.2 | A | 4.2 |
| 7 | Gibraltar Drive & Driveway 3 | Stop-Control | NB | A | 8.4 | A | 8.9 |
| | | | WBL | A | 7.3 | A | 7.5 |
| 9 | South Milpitas Drive & Montague Expressway | Signal | Overall | E | 79.5 | E | 79.7 |
| | | | EB | E | 56.1 | E | 56.6 |
| | | | WB | E | 77.8 | E | 55.9 |
| | | | NB | E | 66.8 | E | 67.4 |
| | | | SB | F | 134.5 | F | 164.1 |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | Signal | Overall | F | 92.3 | E | 72.3 |
| | | | EB | D | 44.1 | D | 45.9 |
| | | | WB | F | 93.1 | D | 45.3 |
| | | | NB | F | 122.1 | F | 118.0 |
| | | | SB | F | 112.8 | F | 111.0 |

| ID | Intersection | Control | Movement | AM | | PM | |
|----|---|---------|----------|-----|-------|-----|-------|
| | | | | LOS | Delay | LOS | Delay |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | Signal | Overall | D | 49.4 | E | 71.3 |
| | | | EB | B | 16.6 | F | 86.8 |
| | | | WB | B | 16.1 | C | 26.1 |
| | | | NB | F | 160.8 | E | 75.6 |
| | | | SB | E | 68.5 | E | 67.3 |
| 12 | Montague Expressway & South Main Street/Oakland Road | Signal | Overall | E | 67.5 | D | 49.4 |
| | | | EB | D | 35.9 | D | 42.0 |
| | | | WB | E | 56.4 | C | 34.0 |
| | | | NB | F | 160.4 | F | 87.1 |
| | | | SB | F | 83.1 | F | 85.4 |

Based on the 2024 analysis results, the following intersections exhibit an overall LOS E or worse during the AM and/or PM peak hours.

- West Calaveras Boulevard and South Abel Street (CMP)
- South Milpitas Drive and Montague Expressway (CMP)
- Great Mall Parkway/East Capitol Avenue and Montague Expressway (CMP)
- Montague Expressway and McCandless Drive/Trade Center Boulevard (CMP)
- Montague Expressway and South Main Street/Oakland Road (CMP)

Additionally, South Milpitas Boulevard and Gibraltar Drive exhibits an LOS F on the westbound approach during both the AM and PM peak hour. Additionally, the westbound approach at the South Milpitas Boulevard and Gibraltar Drive intersection operates at LOS F during both the AM and PM peak hours.

Table 2: Existing (2024) Queuing Analysis

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|---|---------|----------|----------------|--------------------------|-----|
| | | | | | AM | PM |
| 1 | West Calaveras Boulevard & South Abel Street | Signal | EBL | 245 | 184 | 195 |
| | | | EBT | - | 239 | 559 |
| | | | EBR | - | 0 | 0 |
| | | | WBL | 250 | 391 | 265 |
| | | | WBT | - | 552 | 256 |
| | | | WBR | - | 24 | 43 |
| | | | NBL | 230 | 53 | 74 |
| | | | NBT | - | 144 | 170 |
| | | | NBR | 285 | 75 | 506 |
| | | | SBL | 285 | 215 | 303 |
| | | | SBT | - | 184 | 122 |
| | | | SBR | 285 | 95 | 62 |
| 2 | East Calaveras Boulevard & Milpitas Boulevard | Signal | EBL | 460 | 102 | 187 |
| | | | EBT | - | 167 | 483 |
| | | | EBR | 200 | 65 | 288 |
| | | | WBL | 215 | 105 | 144 |
| | | | WBT | - | 549 | 288 |
| | | | WBR | 270 | 80 | 57 |
| | | | NBL | 215 | 163 | 150 |
| | | | NBT | - | 104 | 128 |
| | | | NBR | 185 | 0 | 34 |
| | | | SBL | 215 | 73 | 101 |
| | | | SBT | - | 110 | 156 |
| | | | SBR | - | 80 | 68 |
| 3 | South Milpitas Boulevard & Yosemite Drive | Signal | EBL | - | 16 | 49 |
| | | | EBT | - | 15 | 48 |
| | | | WBL | - | 253 | 214 |
| | | | WBT | - | 105 | 63 |
| | | | NBL | 170 | 24 | 0 |
| | | | NBT | - | 121 | 131 |
| | | | SBL | 250 | 174 | 302 |
| | | | SBT | - | 73 | 104 |
| 4 | South Milpitas Boulevard & Ames Avenue/Driveway 1 | Signal | WBT | - | 17 | 60 |
| | | | NBT | - | 68 | 68 |
| | | | SBL | 140 | 46 | 37 |
| | | | SBT | - | 28 | 81 |

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|--|--------------|----------|----------------|--------------------------|-----|
| | | | | | AM | PM |
| 5 | South Milpitas Boulevard & Driveway 2 | Stop-Control | NBL | - | 0 | 0 |
| | | | NBT | - | 0 | 0 |
| | | | EBL | - | 0 | 0 |
| | | | SBT | - | 0 | 0 |
| 6 | South Milpitas Boulevard & Gibraltar Drive | Signal | EBL | 100 | 19 | 22 |
| | | | EBR | - | 0 | 61 |
| | | | WBT | - | 0 | 0 |
| | | | NBL | 130 | 203 | 48 |
| | | | NBT | - | 101 | 92 |
| | | | SBL | 75 | 17 | 7 |
| | | | SBT | - | 343 | 741 |
| | | | SBR | - | 0 | 0 |
| 7 | Gibraltar Drive & Driveway 3 | Stop-Control | EBL | - | 0 | 0 |
| | | | EBT | - | 0 | 0 |
| | | | WBL | - | 0 | 0 |
| | | | WBT | - | 0 | 0 |
| | | | NBL | - | 0 | 0 |
| | | | SBL | - | 0 | 0 |
| | | | SBT | - | 0 | 0 |
| 8 | South Milpitas Drive & Montague Expressway | Stop-Control | WBL | - | 0 | 0 |
| | | | NBT | - | 0 | 0 |
| | | | SBL | - | 0 | 0 |
| | | | SBL | - | 0 | 0 |
| 9 | South Milpitas Drive & Montague Expressway | Signal | EBL | 600 | 269 | 359 |
| | | | EBT | - | 254 | 676 |
| | | | WBL | 300 | 110 | 107 |
| | | | WBT | - | 1323 | 410 |
| | | | WBR | 200 | 343 | 86 |
| | | | NBL | 185 | 21 | 28 |
| | | | NBT | - | 83 | 89 |
| | | | SBL | 215 | 128 | 395 |
| | | | SBT | - | 60 | 145 |
| | | | SBR | 215 | 179 | 325 |

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|---|---------|----------|----------------|--------------------------|------|
| | | | | | AM | PM |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | Signal | EBL | 680 | 191 | 237 |
| | | | EBT | - | 227 | 656 |
| | | | EBR | 385 | 6 | 123 |
| | | | WBL | 400 | 78 | 167 |
| | | | WBT | - | 759 | 379 |
| | | | WBR | 240 | 2234 | 236 |
| | | | NBL | 350 | 187 | 170 |
| | | | NBT | - | 490 | 208 |
| | | | NBR | 385 | 0 | 4 |
| | | | SBL | 365 | 444 | 626 |
| | | | SBT | - | 138 | 775 |
| | | | SBR | - | 0 | 9 |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | Signal | EBL | 190 | 86 | 148 |
| | | | EBT | - | 187 | 786 |
| | | | EBR | 230 | 76 | 1212 |
| | | | WBL | 250 | 120 | 270 |
| | | | WBT | - | 560 | 233 |
| | | | WBR | - | 42 | 0 |
| | | | NBL | 175 | 313 | 225 |
| | | | NBT | - | 369 | 270 |
| | | | NBR | - | 49 | 71 |
| | | | SBL | 170 | 56 | 62 |
| | | | SBT | - | 88 | 164 |
| | | | SBR | 165 | 81 | 63 |
| 12 | Montague Expressway & South Main Street/Oakland Road | Signal | EBL | 190 | 144 | 186 |
| | | | EBT | - | 347 | 1110 |
| | | | EBR | 230 | 53 | 120 |
| | | | WBL | 250 | 155 | 146 |
| | | | WBT | - | 1400 | 449 |
| | | | WBR | - | 46 | 61 |
| | | | NBL | 175 | 534 | 240 |
| | | | NBT | - | 145 | 210 |
| | | | NBR | - | 76 | 265 |
| | | | SBL | 170 | 141 | 205 |
| | | | SBT | - | 173 | 276 |
| | | | SBR | 165 | 716 | 83 |

Queuing at the following intersections, highlighted in red in Table 2, has exceeded the storage length provided. The non-CMP intersections are bolded for reference.

- West Calaveras Boulevard & South Abel Street: The westbound left, northbound right, and southbound left have exceeded the storage length provided during the AM and/or PM peak hour.
- E Calaveras Boulevard & Milpitas Boulevard: The eastbound right has exceeded the storage length provided during the PM peak hour.
- **S Milpitas Boulevard & Yosemite Drive**: The southbound left has exceeded the storage length provided during the PM peak hour.
- **South Milpitas Boulevard & Gibraltar Drive**: The northbound left has exceeded the storage length provided during the AM peak hour.
- South Milpitas Drive & Montague Expressway: The westbound right and southbound left have exceeded the storage length provided during the AM and/or PM peak hour.
- Montague Expressway & McCandless Drive/Trade Center Boulevard: The eastbound right, westbound left, and northbound left have exceeded the storage length provided during the AM and/or PM peak hour.
- Montague Expressway & South Main Street/Oakland Road: The northbound left, southbound left, and southbound right have exceeded the storage length provided during the AM and/or PM peak hour.

C. Development Site Traffic

C.1. Trip Generation

The delivery center is a specialized warehouse that stores a wide range of everyday consumer goods, enabling same-day delivery. They serve as the critical last-mile link between a tenant's delivery operations and their customers. Packages are dispatched to residential developments within a four-hour delivery window, using private carrier vehicles. Deliveries begin as early as 3:00 AM and continue throughout the day, with intentional pauses during peak AM and PM Peak traffic hours to minimize impacts to local roadways and avoid congestion.

At the proposed delivery center, up to 15 line-haul trucks are expected to deliver packages to the delivery center each day. The line-haul trucks will arrive at the site between the hours of 10:00 PM and 8:00 AM. Trucks enter the site via South Milpitas Boulevard on the east side of the building and exit the site on Gibraltar Drive. Once trucks are unloaded, the trucks continue to the next center and do not return to the site. The customer shipments are sorted by address groupings, assigned to the delivery routes, placed onto movable racks, and staged for dispatch. Table 3 summarizes the types of trips.

Table 3: Project Trip Generation - Traffic Volume by Vehicle Type

| Traffic | Number of Vehicles | Daily Trips |
|------------------|--------------------|--------------|
| Auto - Employees | 1,891 | 3,782 |
| Line-Haul Trucks | 15 | 30 |
| Total | 1,906 | 3,812 |

The 2026 Build Traffic Scenario accounts for the addition of the project site as a delivery center with a building footprint of 487,564 square feet. To estimate site-generated traffic volumes, CESO utilized trip generation data provided by the prospective tenant. These estimates were developed using inputs such as building size, land use, and site design, drawing from multiple sources including national operational data, industry standards, and professional engineering judgment.

The resulting trip generation, summarized in Table 4, reflects a more conservative estimate than that derived from ITE Land Use Code 150 (Warehousing) as published in the Institute of Transportation Engineers' Trip Generation Manual, 11th Edition. Trip volumes are categorized by vehicle type to reflect operational characteristics of the proposed facility.

Table 4: Project Trip Generation – Peak Hour Traffic Volume (User Specified Land Use Code)

| Land Use | | Total | Inbound | Outbound |
|--------------------------------------|-------|-------|---------|----------|
| Delivery Center (Vehicle Trips) | Daily | 3,782 | 1,891 | 1,891 |
| | AM | 258 | 129 | 129 |
| | PM | 244 | 122 | 122 |
| Delivery Center (Truck Trips) | Daily | 30 | 15 | 15 |
| | AM | 2 | 2 | 0 |
| | PM | 1 | 0 | 1 |
| Delivery Center (Total Net Trips) | Daily | 3,812 | 1,906 | 1,906 |
| | AM | 260 | 131 | 129 |
| | PM | 245 | 122 | 123 |

C.2. Adjustments to Trip Generation Rates

Due to the nature of the development, no adjustments for pass-by or internal capture were considered for trips generated by the Project.

C.3. Trip Generation and Assignment

The proposed distribution center at 1000 Gibraltar Drive will receive merchandise from regional delivery and sortation centers located in Oakland and Tracy for last-mile delivery to customers within the Milpitas metropolitan area. Vehicle trip distribution for the site varies by mode, with passenger vehicles and delivery trucks following distinct travel patterns based on the anticipated trip schedules and designated routing.

As illustrated in Figures 7-14 general trip distribution percentages were derived from the previously approved 2020 Draft Local Transportation Analysis (LTA) for the 1000 Gibraltar Industrial Project and refined to reflect updated driveway usage and delivery destinations. According to Figure 7, delivery trucks will access the site exclusively via Intersection 4 (Project Driveway 1) and exit through Intersection 8 (Project Driveway 4), utilizing South Milpitas Boulevard for both ingress and egress.

Truck trip distribution is projected as follows:

- 50% via the south along S. Milpitas Boulevard to I-680
- 20% via the north along S. Milpitas Boulevard and Calaveras Boulevard
- 30% via the west along Montague Expressway toward I-880

Passenger vehicles will enter and exit through Intersections 5 (Driveway 2), 7 (Driveway 3), and 8 (Driveway 4). Car trip distribution is anticipated as follows:

- 30% from the south along S. Milpitas Boulevard toward I-680

- 30% from the north via S. Milpitas Boulevard and Calaveras Boulevard
- 40% from the west via Montague Expressway toward I-880

The net project development trips from the new trips expected from the anticipated trip distribution is depicted in Figures 15 – 23.

Figure 7: Trip Distribution Map (Trucks)

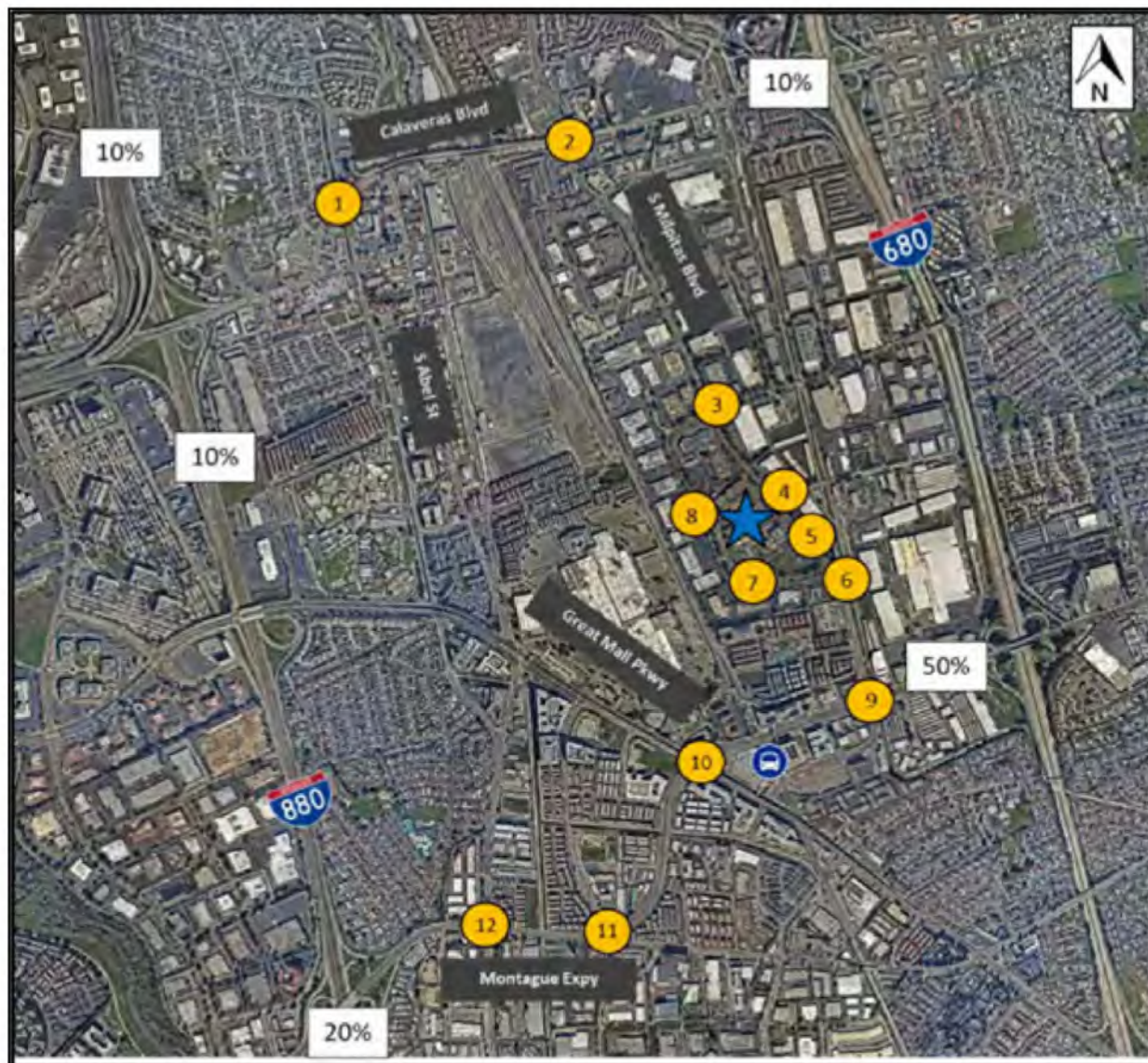


Figure 8: Trip Distribution Map (Cars)

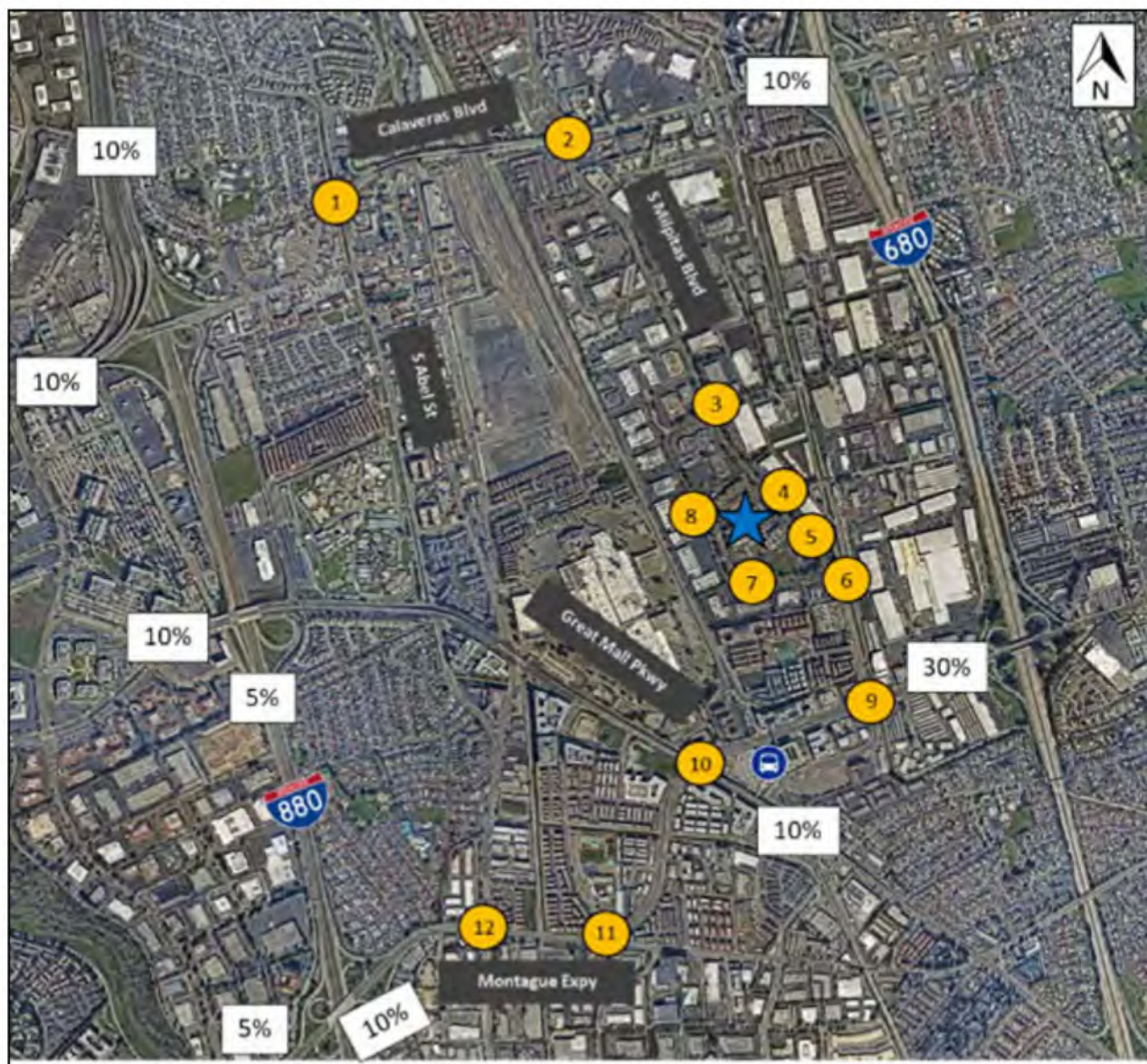


Figure 9: Trip Distribution Cars 1

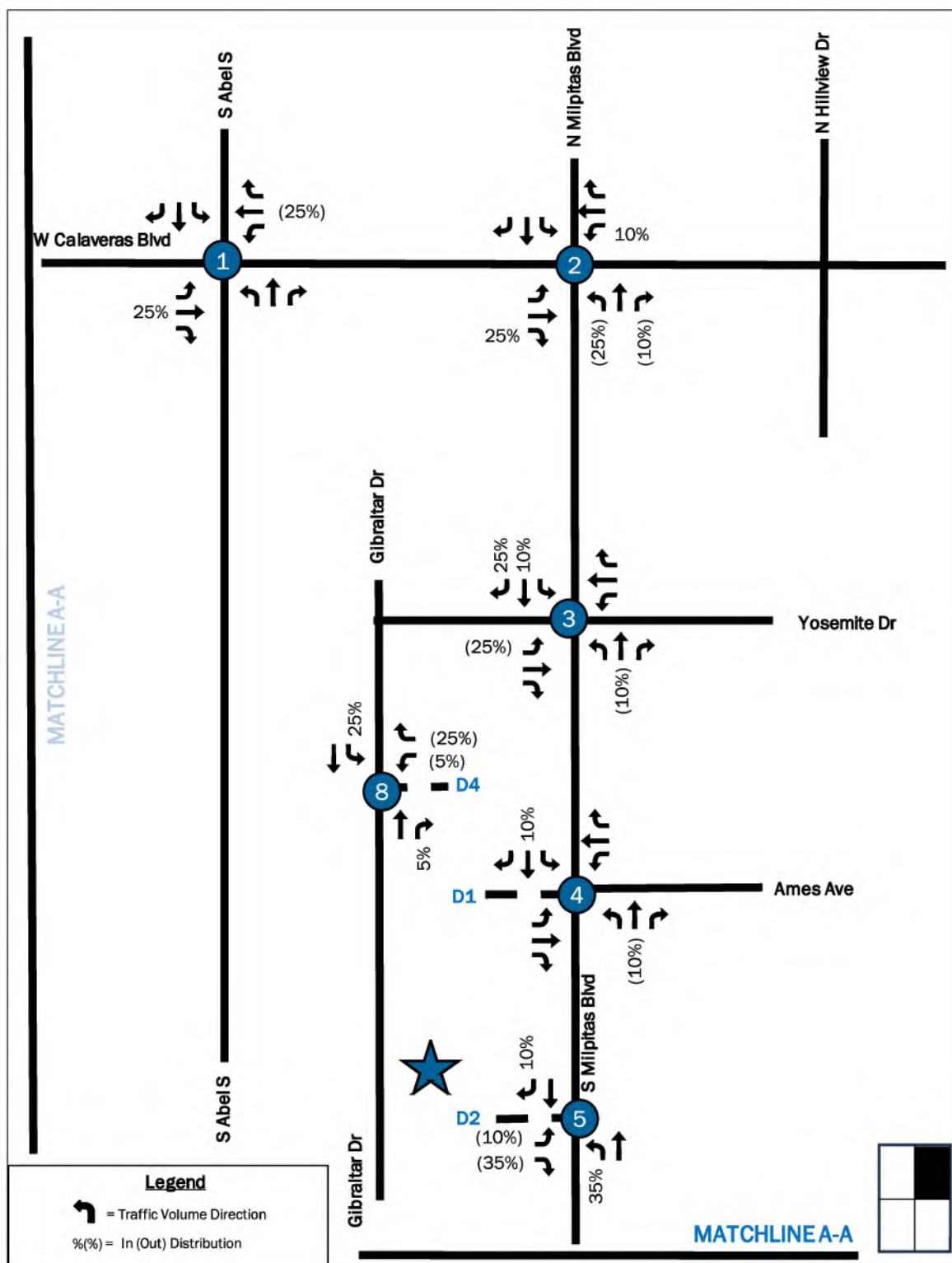


Figure 10: Trip Distribution Cars 2

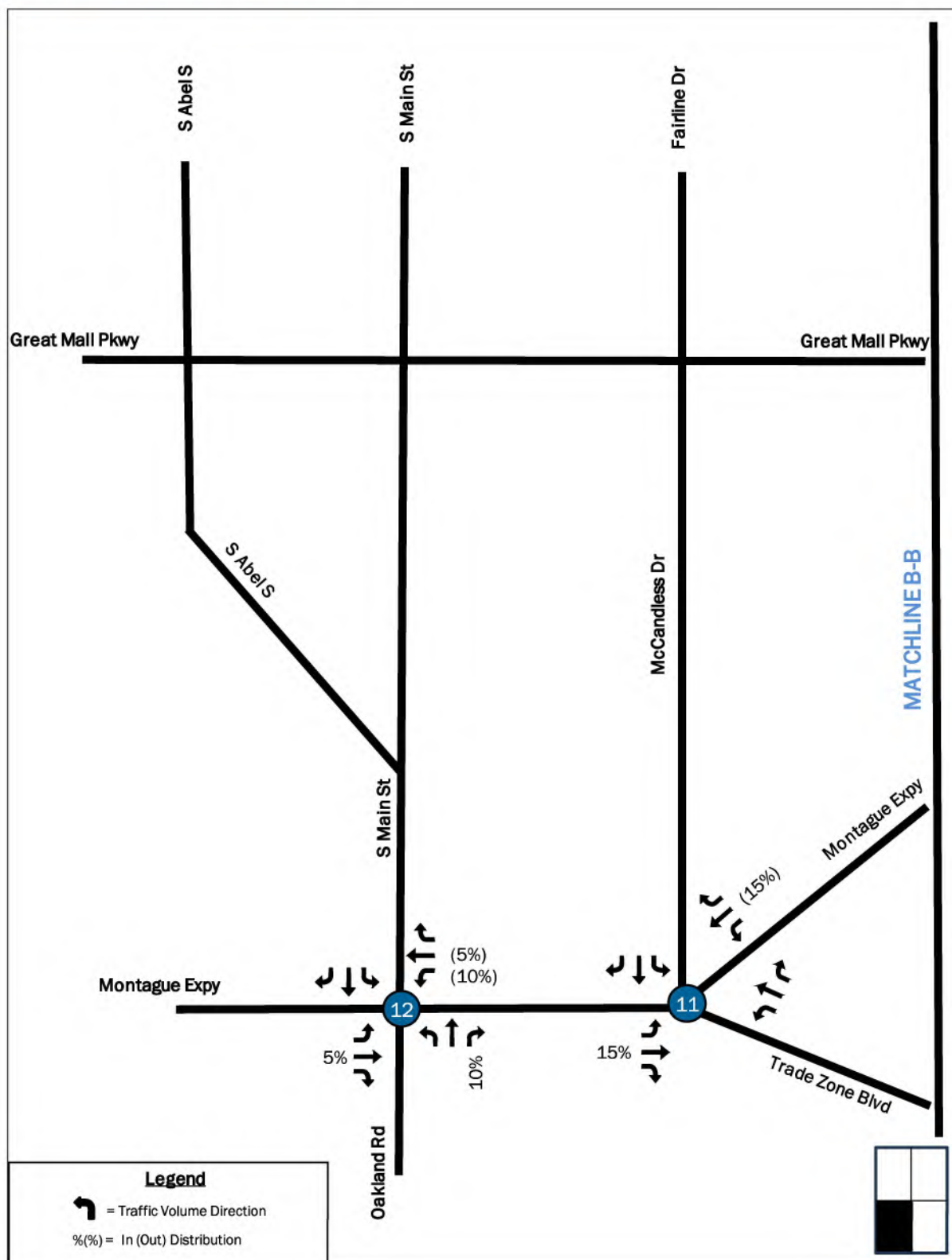


Figure 11: Trip Distribution Cars 3

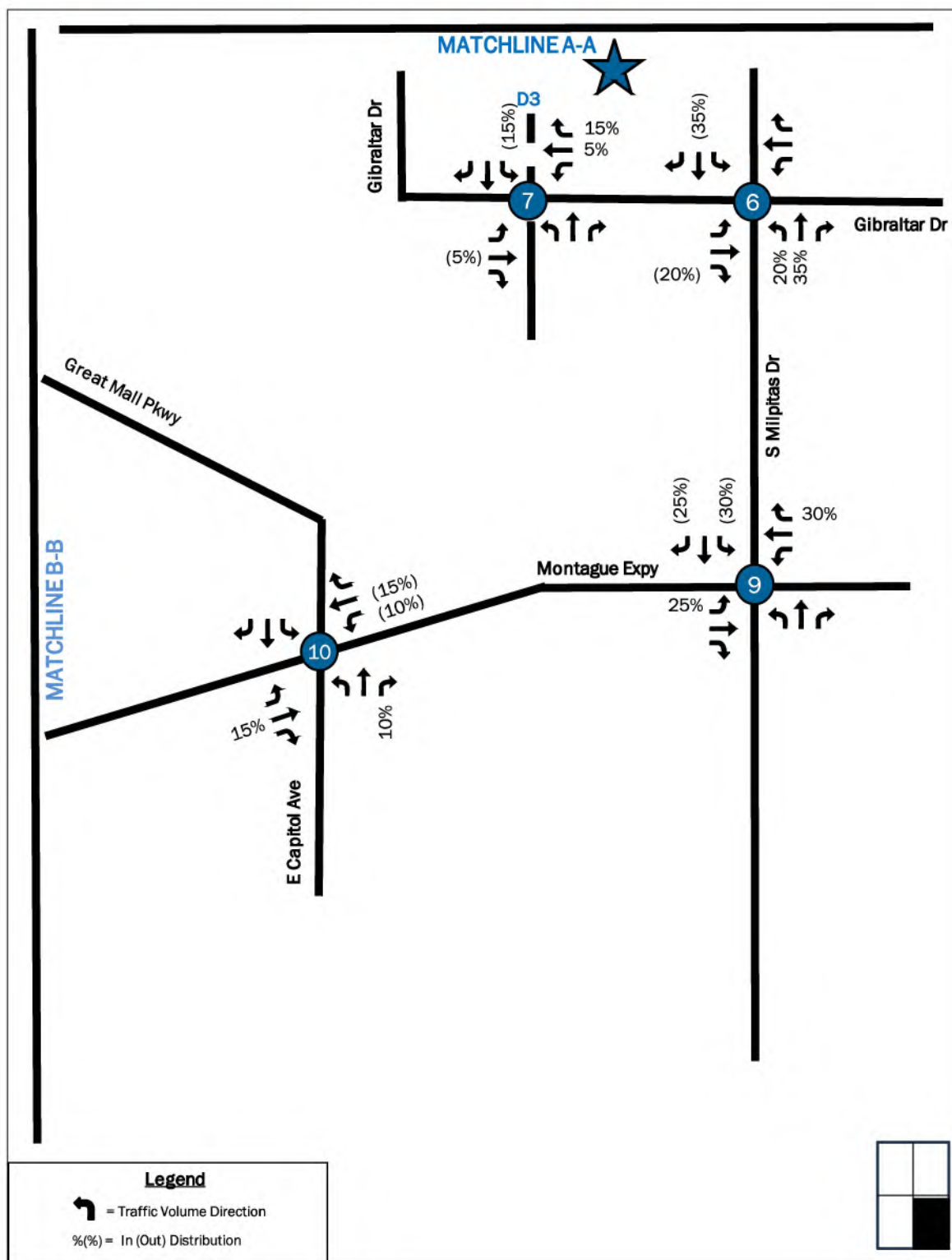


Figure 12: Trip Distribution Trucks 1

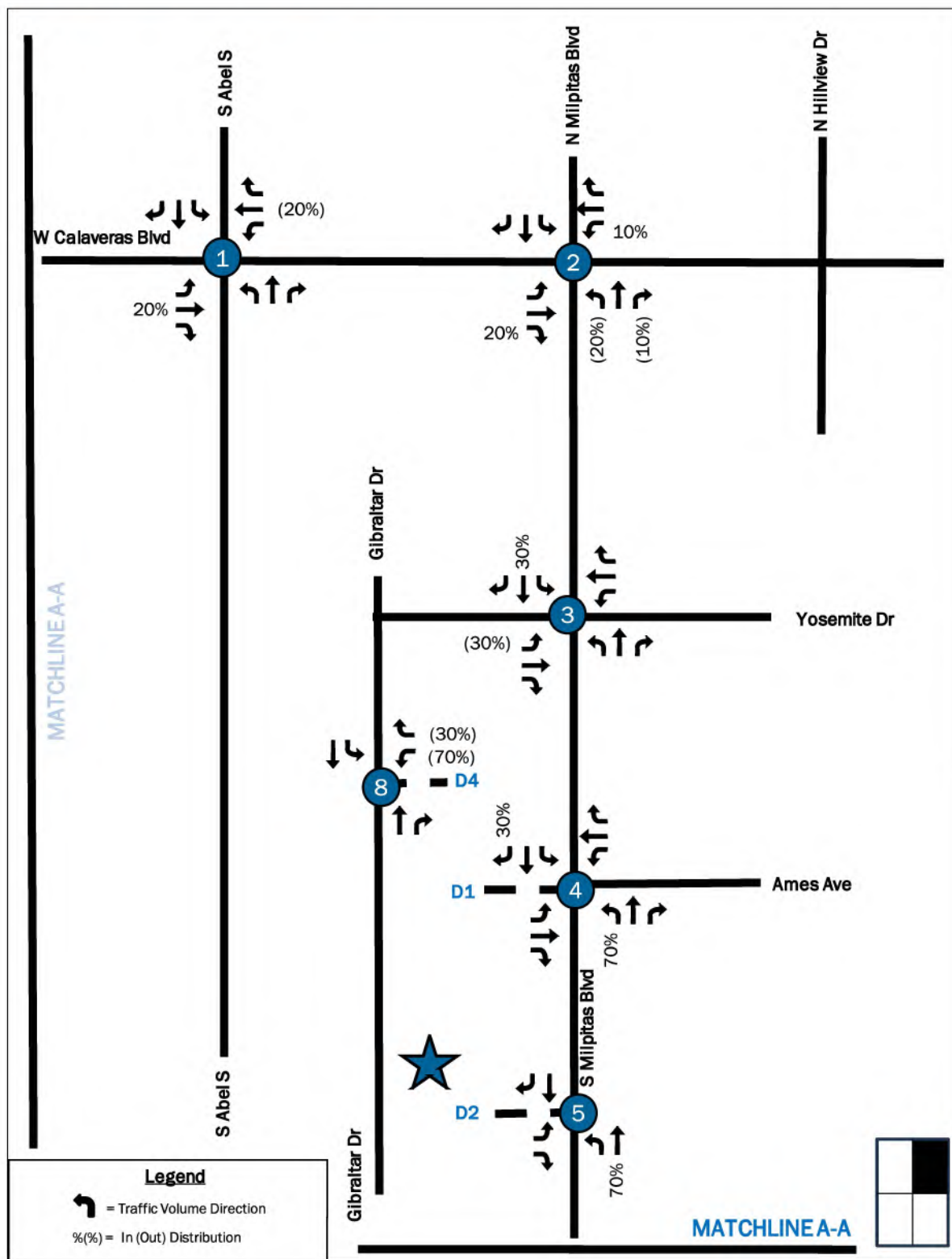


Figure 13: Trip Distribution Trucks 2

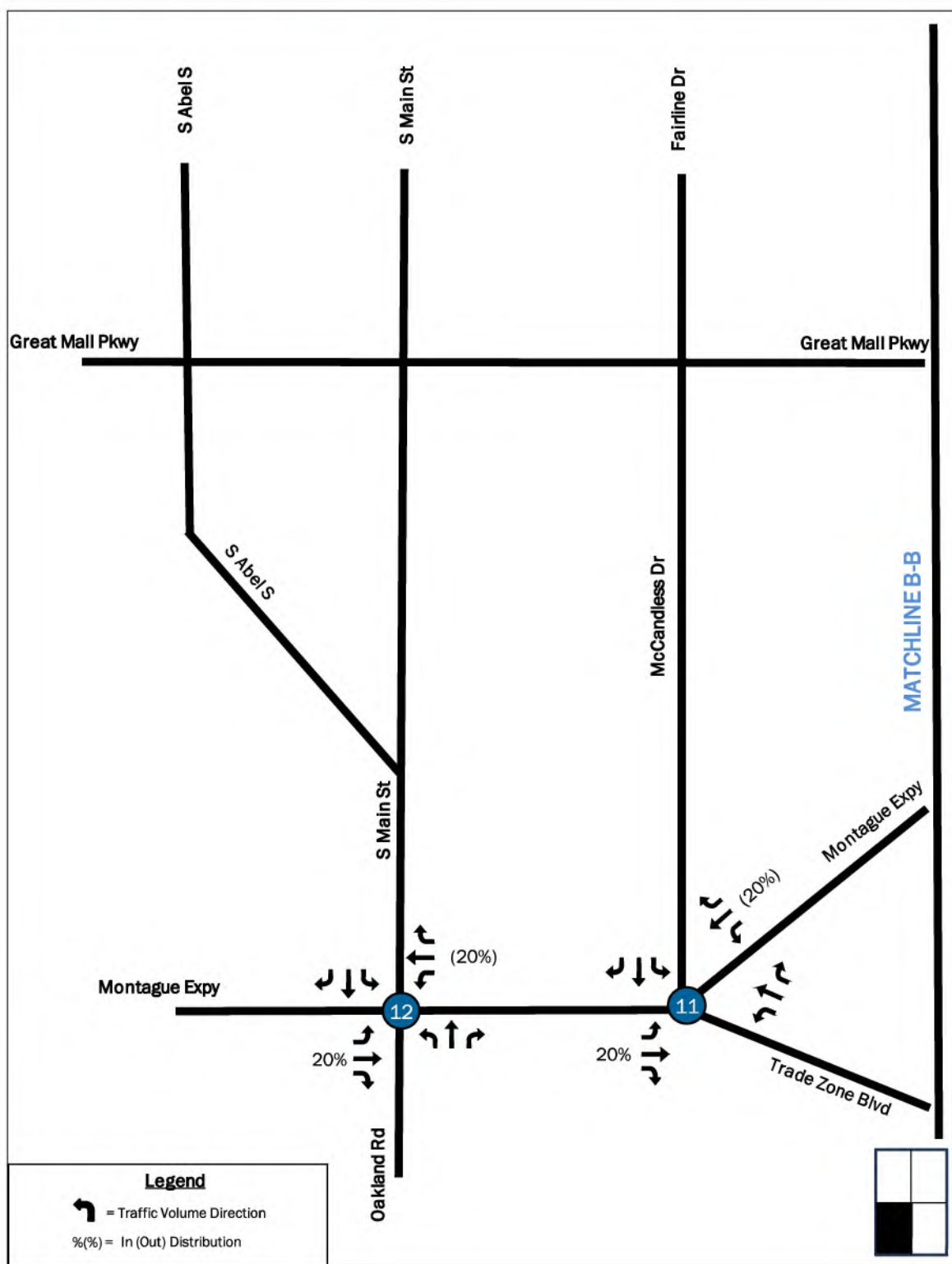


Figure 14: Trip Distribution Trucks 3

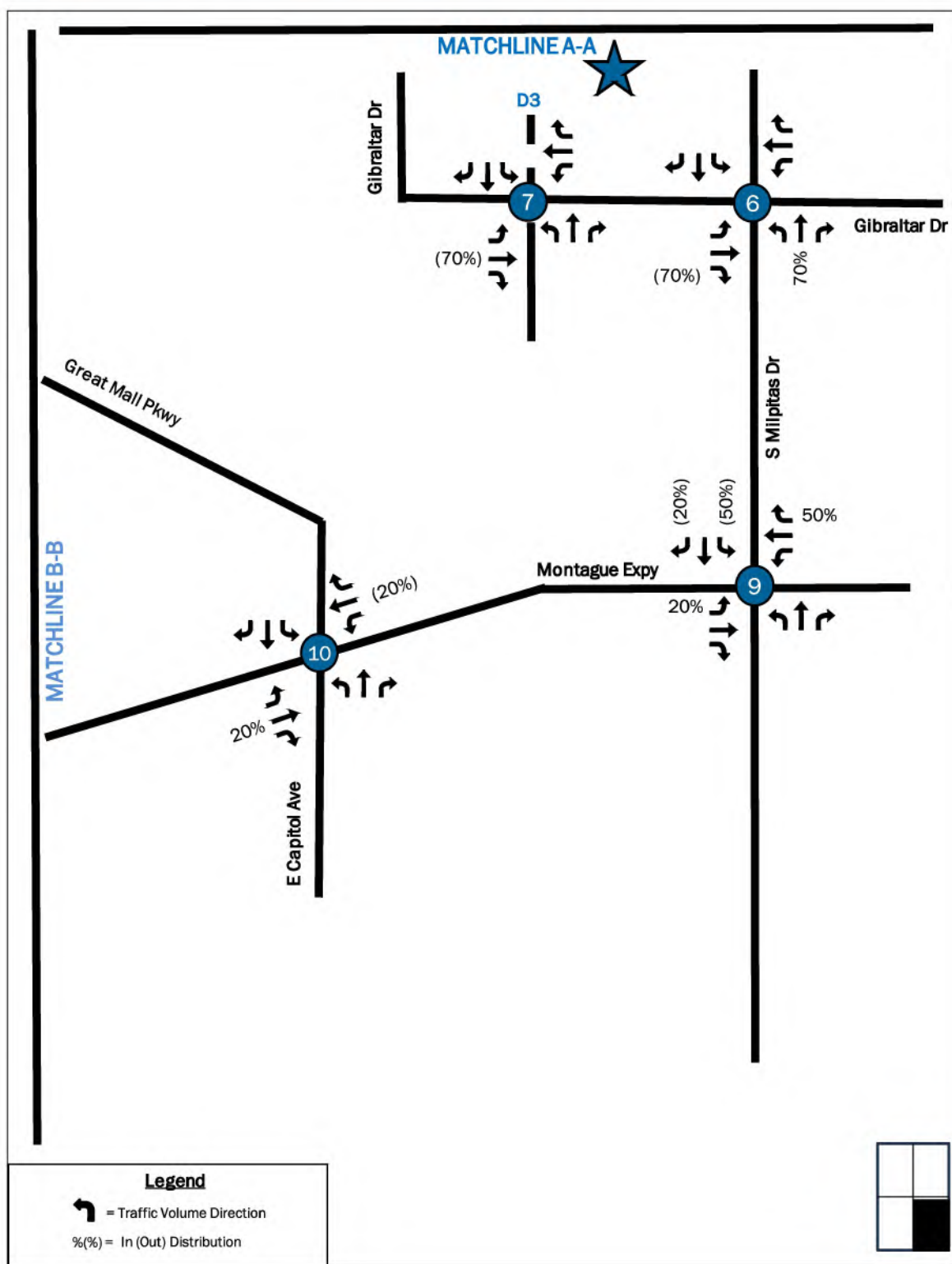


Figure 15: Project Site Trips (Cars) 1

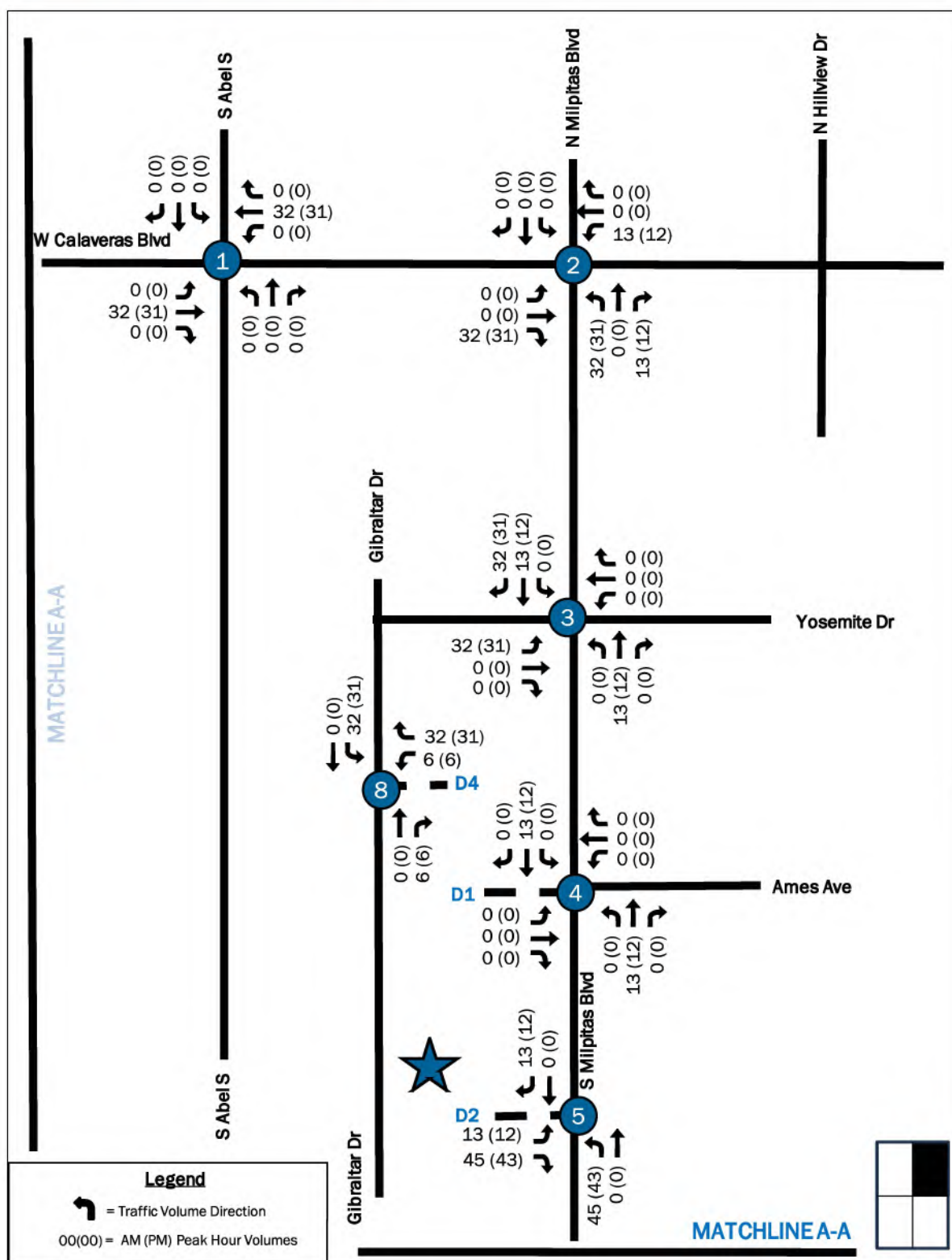


Figure 16: Project Site Trips (Cars) 2

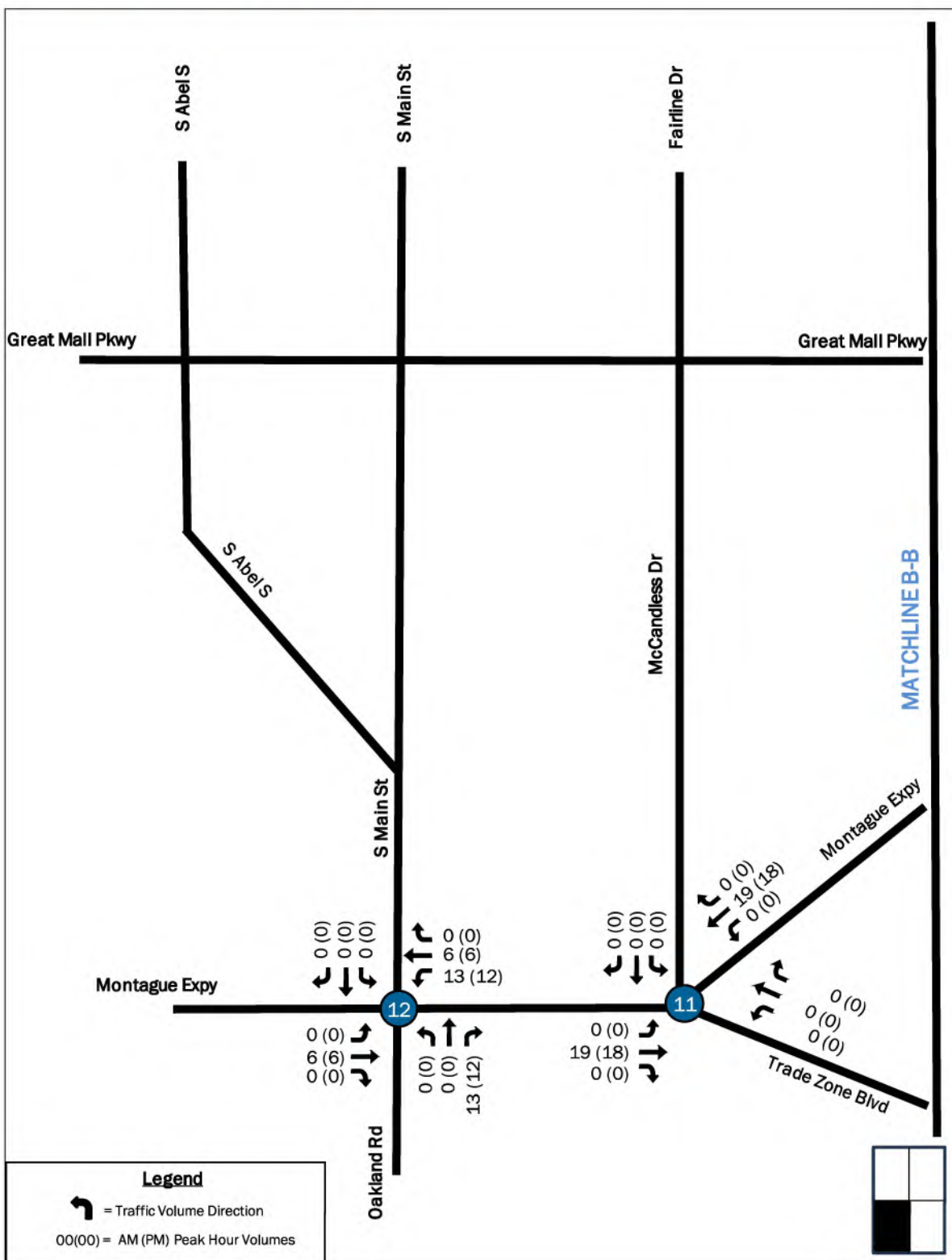


Figure 17: Project Site Trips (Cars) 3

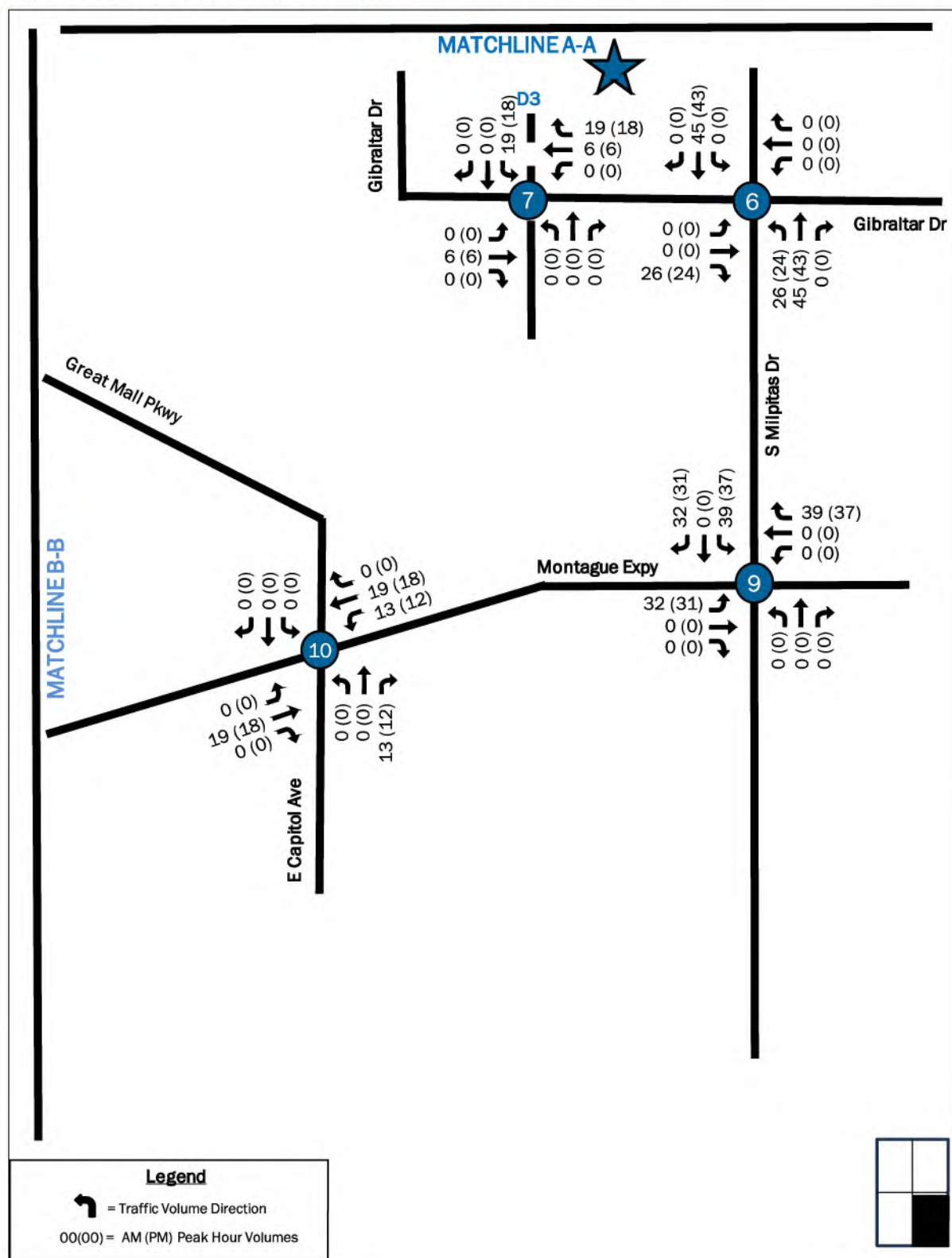


Figure 18: Project Site Trips (Trucks) 1

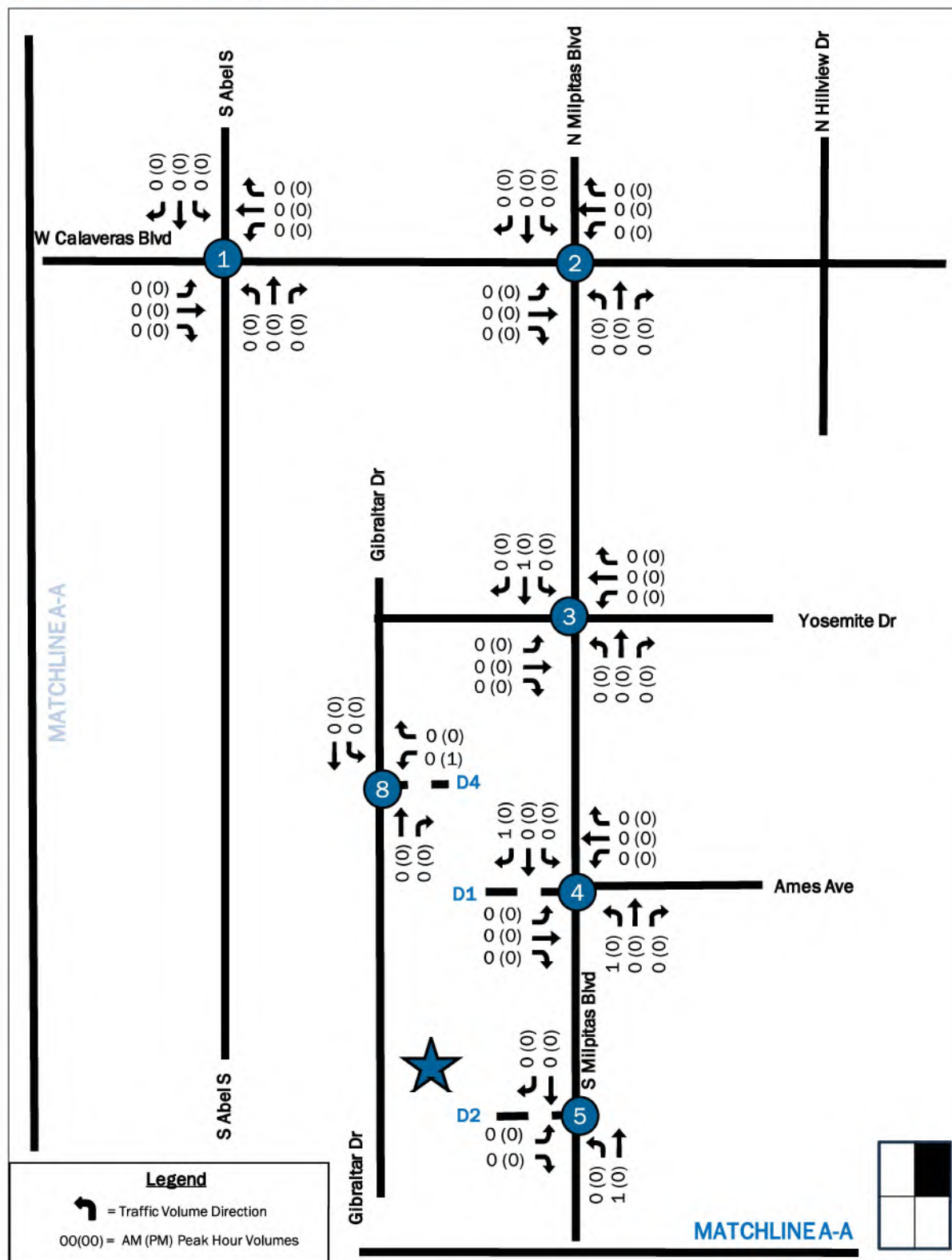


Figure 19: Project Site Trips (Trucks) 2

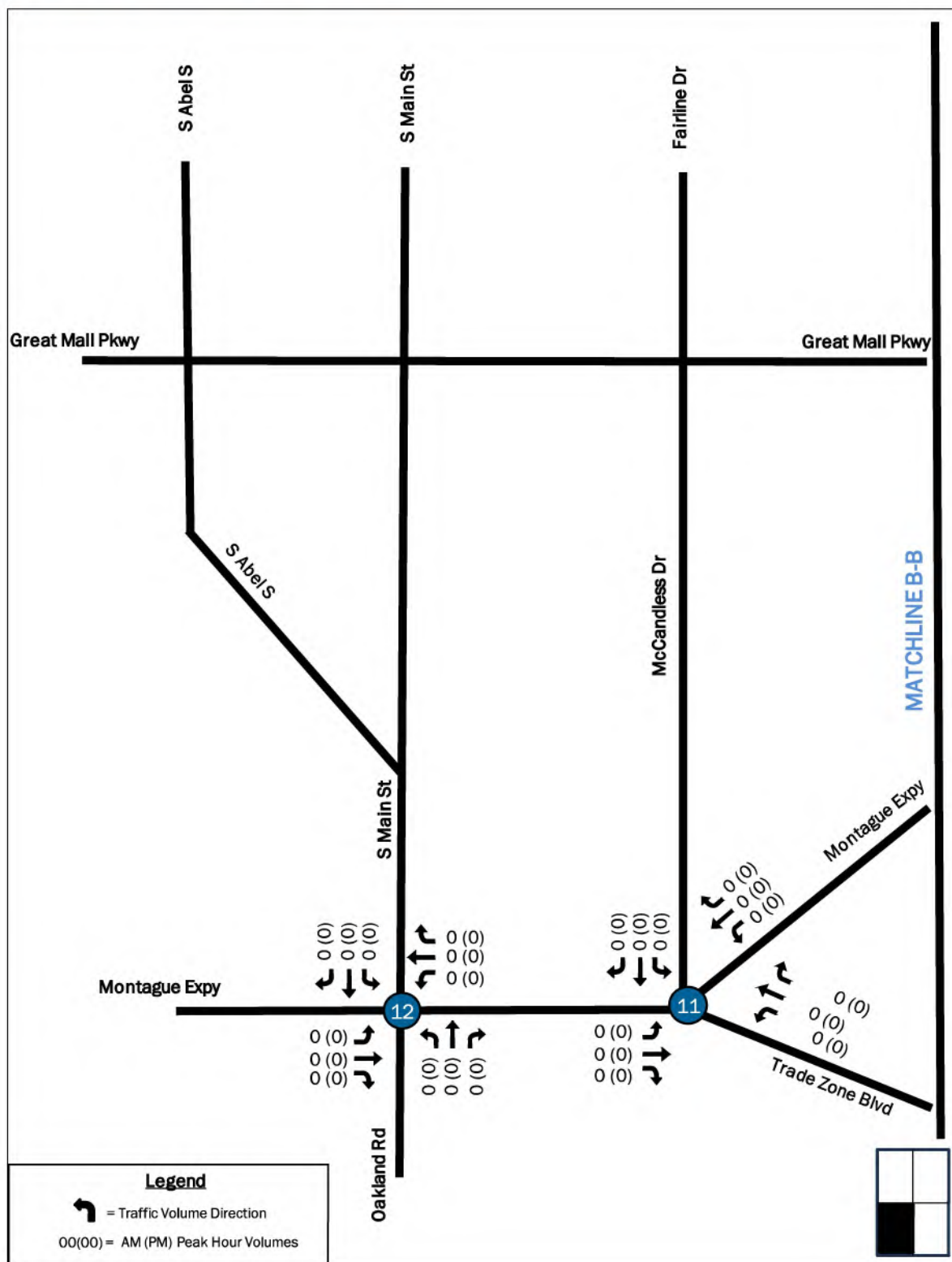


Figure 20: Project Site Trips (Trucks) 3

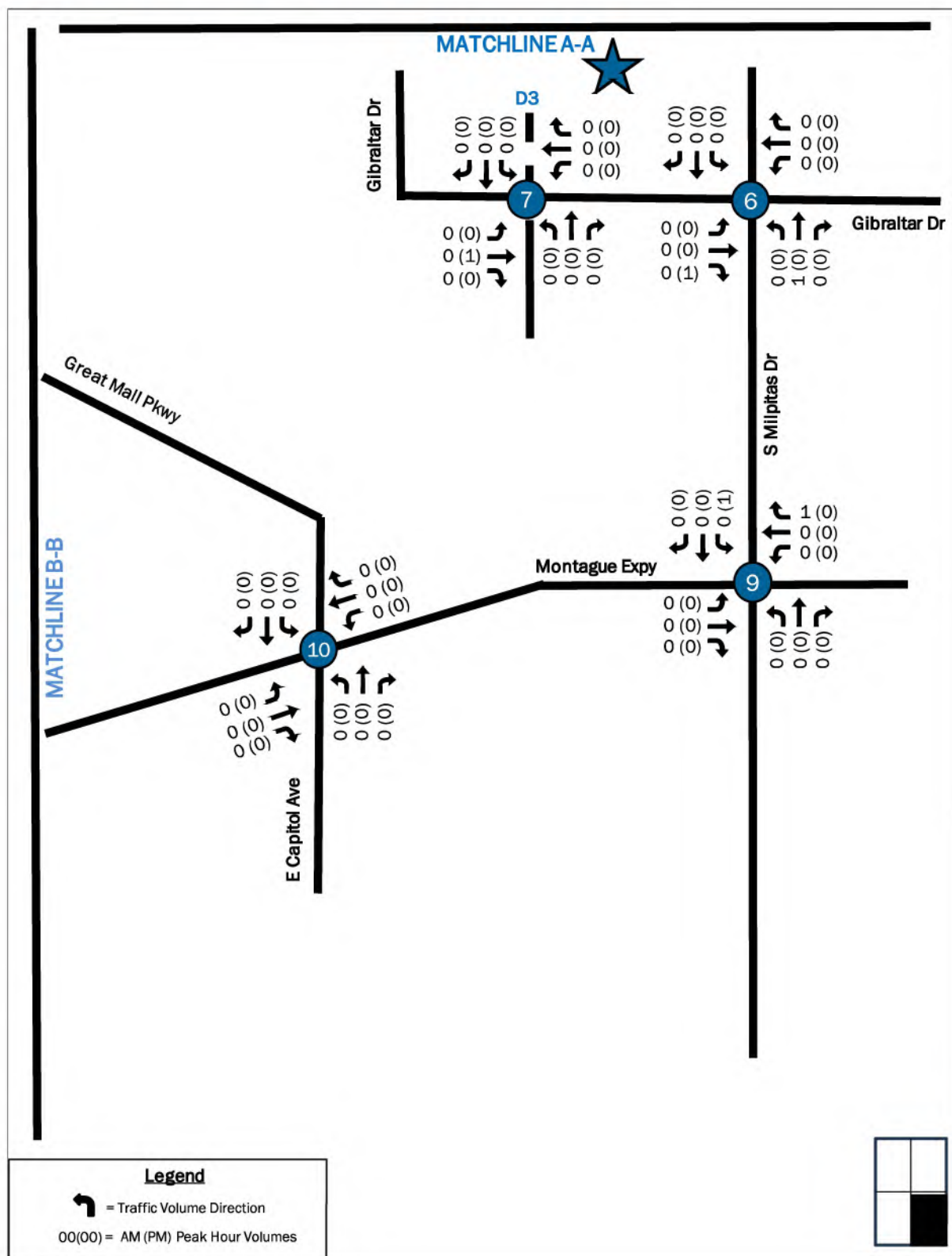


Figure 21: Project Site Trips (Cars & Trucks) 1

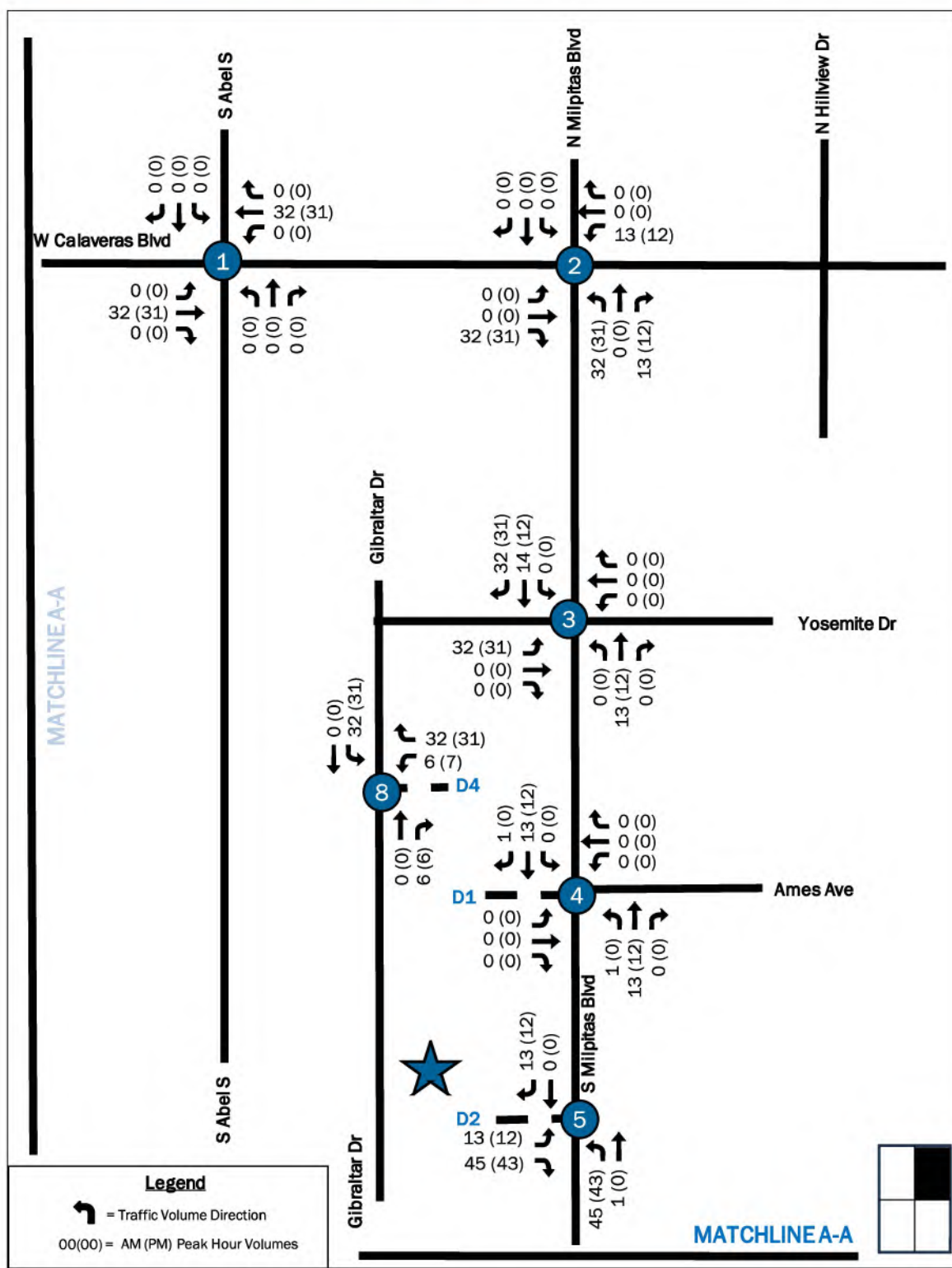


Figure 22: Project Site Trips (Cars & Trucks) 2

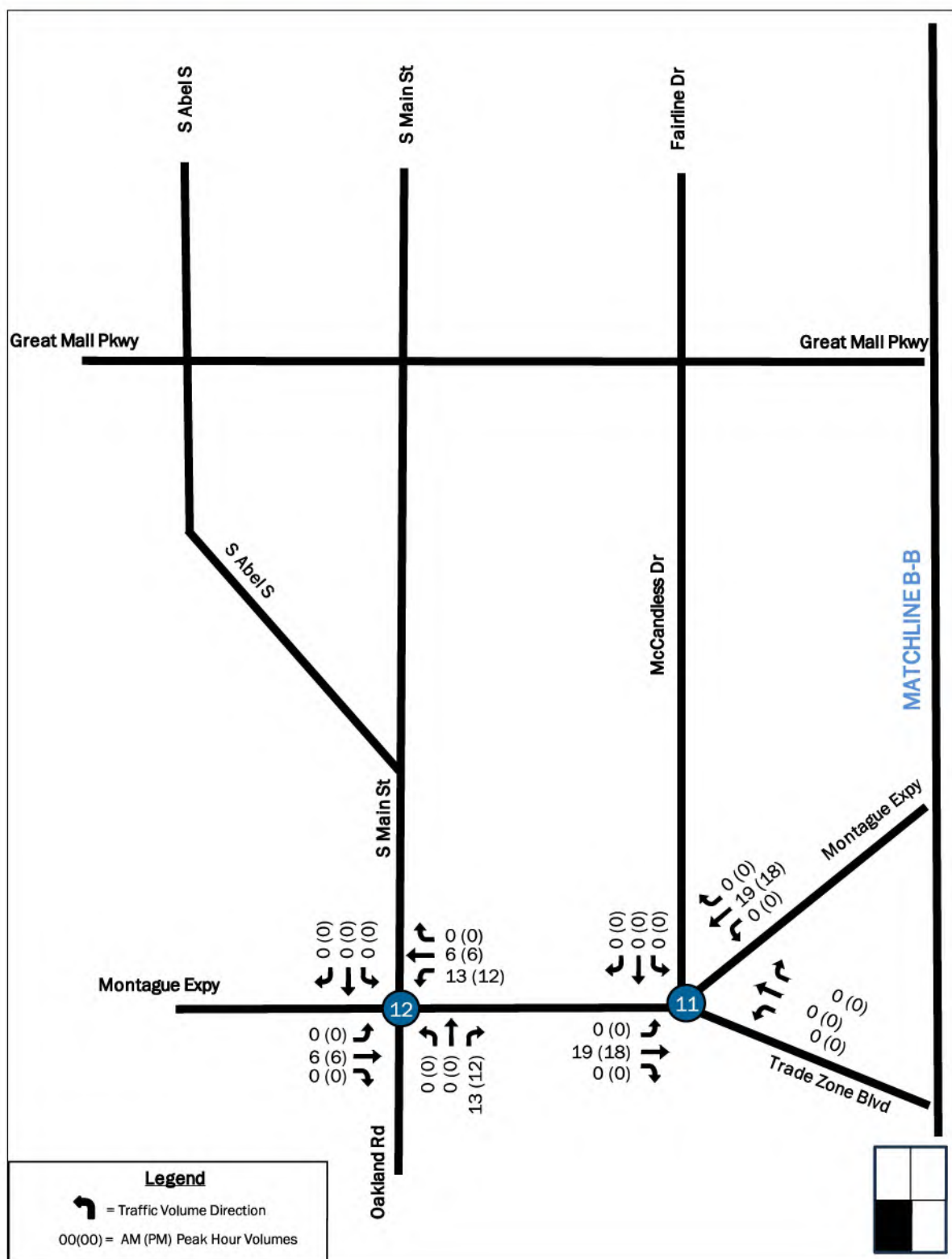
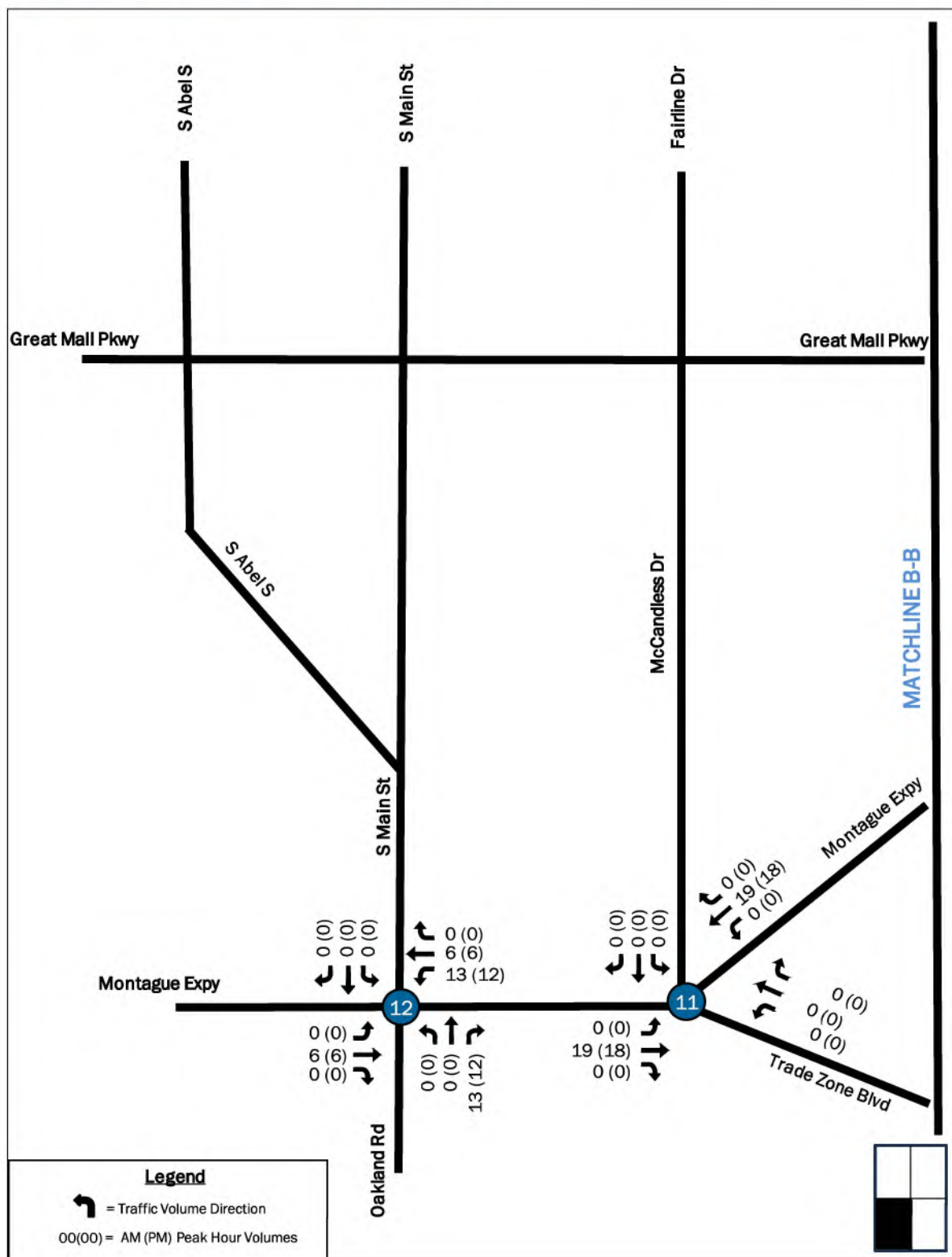


Figure 23: Project Site Trips (Cars & Trucks) 3



D. Future Traffic Conditions

D.1. Background Growth

Analysis of the area's historic development pattern, changes in nearby traffic volumes, and the anticipated completion of the Project was used to determine a growth rate for the study area's traffic. Project build-out is anticipated no later than 2026. The study uses a growth rate of 3.0% per year from Existing Year 2024 to the Horizon Year 2040. The growth rate was derived from a Project scoping memorandum based on the traffic growth patterns for the Project vicinity area. Growth rate calculations are included in Appendix B.

D.2. No Build Traffic Analysis Results

The results of the 2026 No-Build traffic capacity analysis are shown in Table 5 and represent volumes as shown in Figures 18 - 20. Future No-Build traffic volumes are demonstrated before any trips generated by the Project have been added. The City of Santa Milpitas considers LOS D as the performance standard for intersections (maintain LOS D or better). LOS E is coded as orange, and LOS F is coded as red in the Tables provided.

Figure 24: No Build (2026) Volumes 1

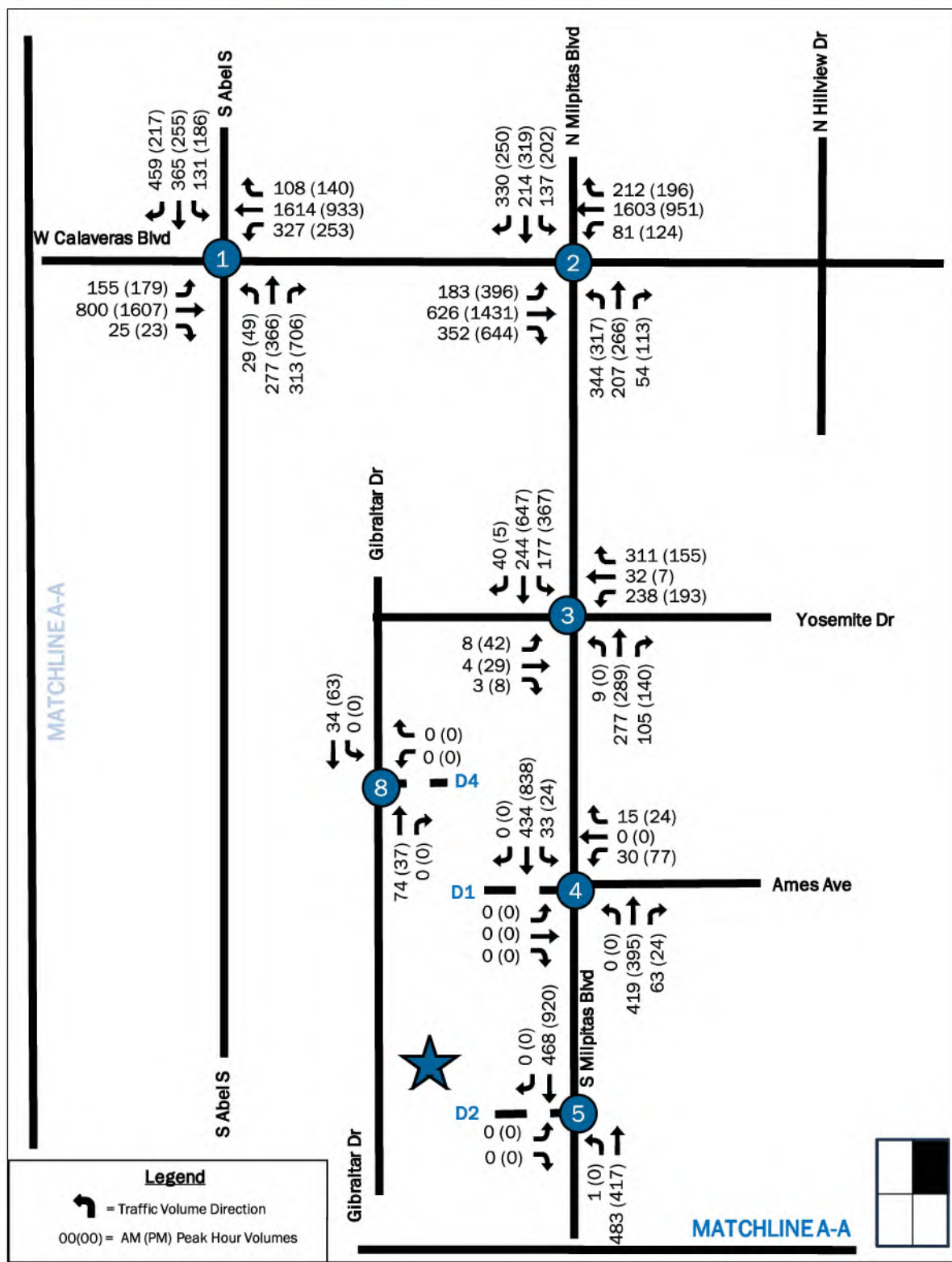


Figure 25: No Build (2026) Volumes 2

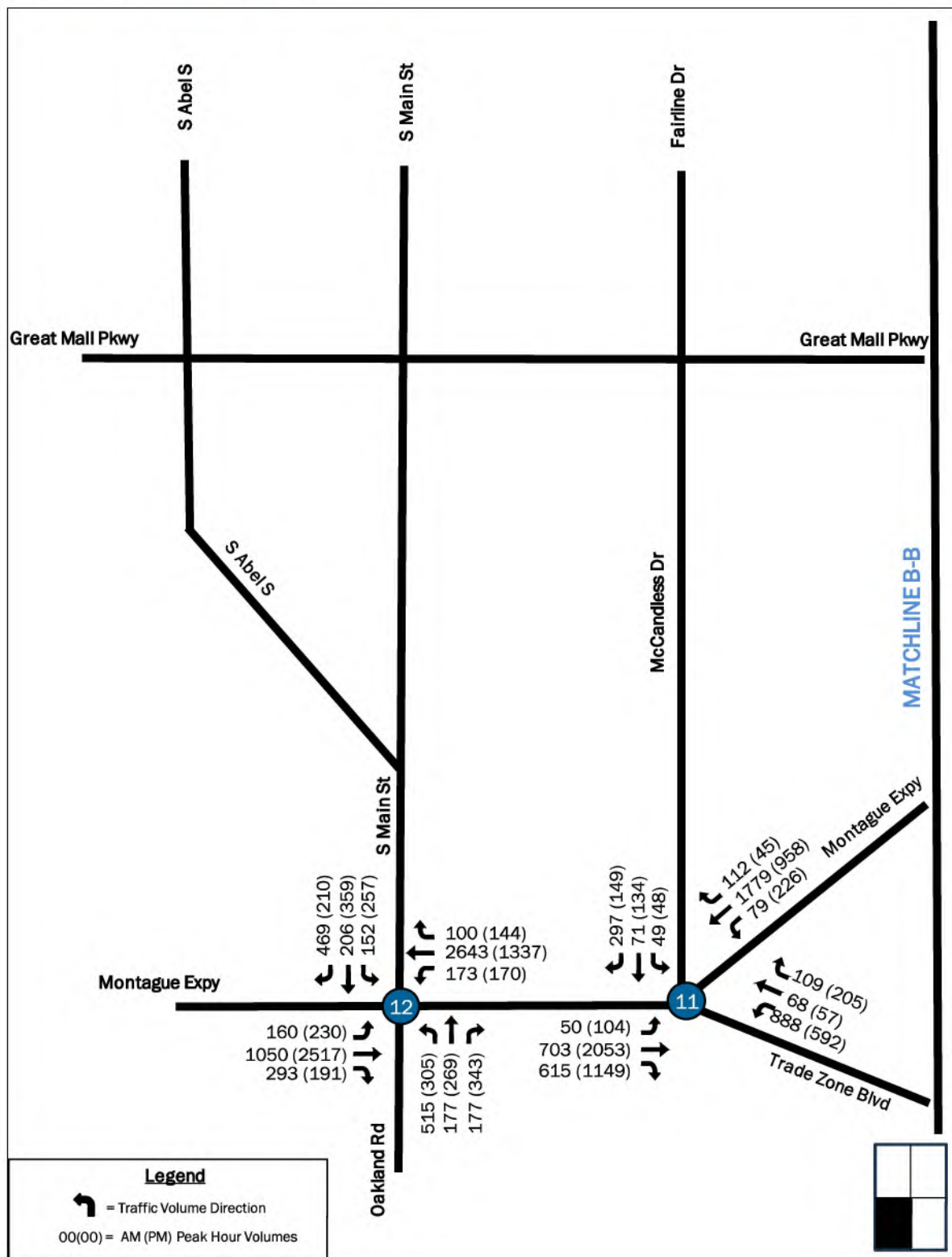


Figure 26: No Build (2026) Volumes 3

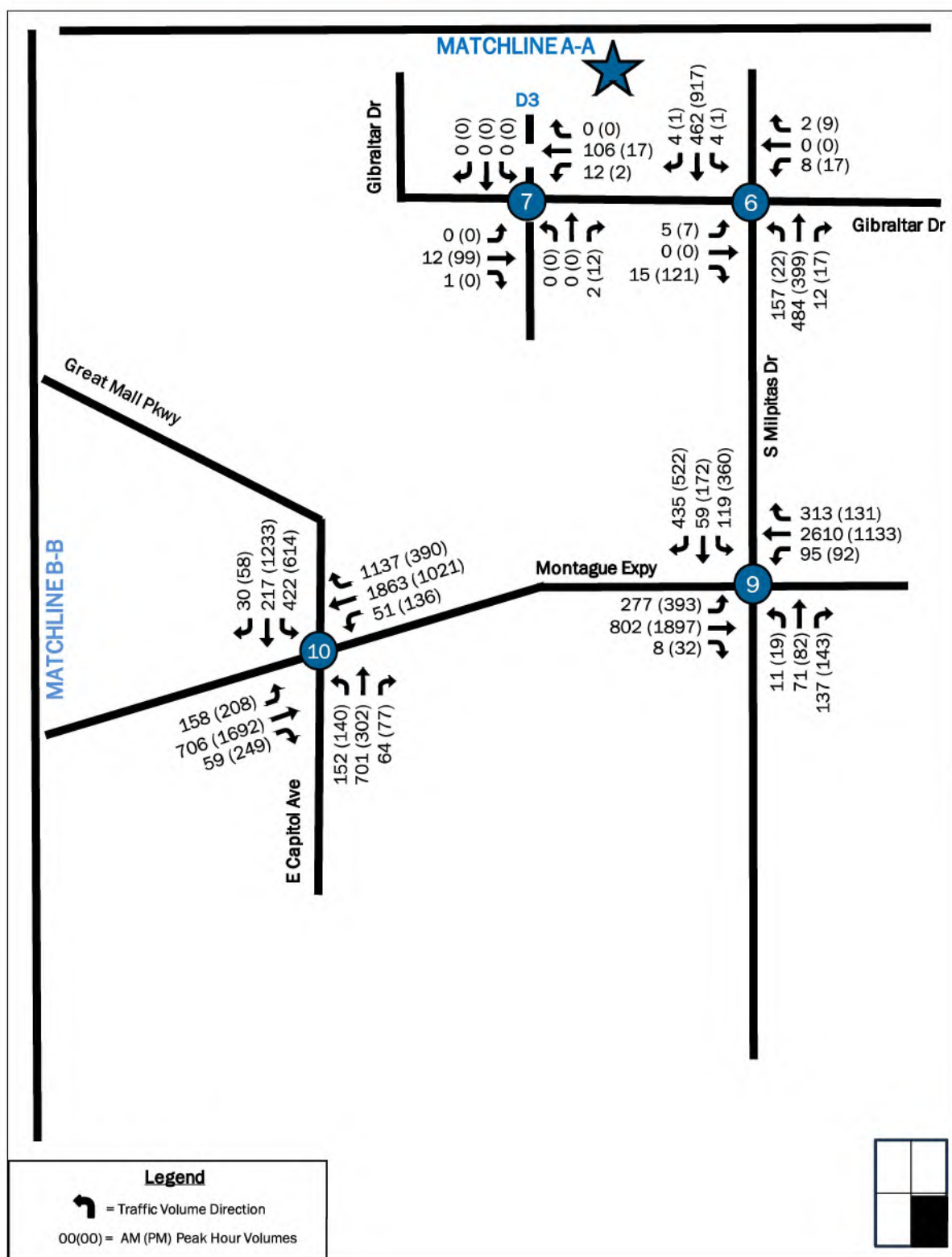


Table 5: No Build (2026) Capacity Analysis

| ID | Intersection | Control | Movement | AM | | PM | |
|----|--|--------------|----------|-----|-------|-----|-------|
| | | | | LOS | Delay | LOS | Delay |
| 1 | West Calaveras Boulevard & South Abel Street | Signal | Overall | D | 52.8 | F | 117.3 |
| | | | EB | D | 38.9 | D | 41.8 |
| | | | WB | D | 41.7 | D | 35.1 |
| | | | NB | E | 66.4 | F | 351.8 |
| | | | SB | F | 80.3 | E | 70.8 |
| 2 | E Calaveras Boulevard & Milpitas Boulevard | Signal | Overall | D | 39.3 | D | 40.4 |
| | | | EB | C | 32.1 | D | 40.5 |
| | | | WB | D | 42.0 | D | 38.8 |
| | | | NB | D | 40.9 | D | 41.0 |
| | | | SB | D | 40.6 | D | 42.6 |
| 3 | S Milpitas Boulevard & Yosemite Drive | Signal | Overall | C | 33.7 | C | 33.3 |
| | | | EB | C | 34.2 | D | 42.9 |
| | | | WB | D | 41.5 | D | 48.4 |
| | | | NB | C | 20.7 | B | 18.8 |
| | | | SB | C | 27.4 | C | 33.3 |
| 4 | S Milpitas Boulevard & Ames Avenue/Driveway 1 | Signal | Overall | A | 5.8 | A | 6.7 |
| | | | WB | D | 44.9 | D | 42.2 |
| | | | NB | A | 2.9 | A | 3.9 |
| | | | SB | A | 4.9 | A | 3.9 |
| 5 | South Milpitas Boulevard & Driveway 2 | Stop-Control | NBL | A | 8.5 | A | 0.0 |
| | | | EB | A | 0.0 | A | 0.0 |
| 6 | South Milpitas Boulevard & Gibraltar Drive | Signal | Overall | B | 15.0 | A | 7.1 |
| | | | WB | F | 113.1 | F | 108.1 |
| | | | NB | B | 18.8 | A | 6.6 |
| | | | SB | A | 7.6 | A | 4.6 |
| 7 | Gibraltar Drive & Driveway 3 | Stop-Control | NB | A | 8.4 | A | 9.0 |
| | | | WBL | A | 7.3 | A | 7.5 |
| 9 | South Milpitas Drive & Montague Expressway | Signal | Overall | F | 90.6 | F | 84.2 |
| | | | EB | D | 56.6 | E | 57.7 |
| | | | WB | F | 92.9 | E | 57.3 |
| | | | NB | E | 67.2 | E | 67.8 |
| | | | SB | F | 148.1 | F | 180.9 |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | Signal | Overall | F | 103.6 | E | 73.8 |
| | | | EB | D | 46.3 | D | 48.6 |
| | | | WB | F | 112.9 | D | 48.0 |
| | | | NB | F | 122.2 | F | 117.3 |
| | | | SB | F | 112.2 | F | 111.0 |

| ID | Intersection | Control | Movement | AM | | PM | |
|----|---|---------|----------|-----|-------|-----|-------|
| | | | | LOS | Delay | LOS | Delay |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | Signal | Overall | D | 55.2 | F | 83.2 |
| | | | EB | B | 17.3 | F | 103.9 |
| | | | WB | B | 16.3 | C | 26.9 |
| | | | NB | F | 185.3 | F | 85.0 |
| | | | SB | E | 68.2 | E | 67.0 |
| 12 | Montague Expressway & South Main Street/Oakland Road | Signal | Overall | E | 78.0 | D | 51.9 |
| | | | EB | C | 36.4 | D | 46 |
| | | | WB | E | 70.2 | D | 35.2 |
| | | | NB | F | 179.4 | F | 87.8 |
| | | | SB | F | 83.2 | F | 85.9 |

Based on the 2026 No Build analysis results; the following intersections exhibit an overall LOS of E or worse during the AM and/or PM peak hours:

- West Calaveras Boulevard & South Abel Street (CMP)
- South Milpitas Drive & Montague Expressway (CMP)
- Great Mall Parkway/East Capitol Avenue & Montague Expressway (CMP)
- Montague Expressway & McCandless Drive/Trade Center Boulevard (CMP)
- Montague Expressway & South Main Street/Oakland Road (CMP)

Additionally South Milpitas Boulevard and Gibraltar Drive displayed an LOS F for the westbound approach to the intersection.

Table 6 summarizes the projected queue lengths for each movement within the study area under 2026 No-Build Conditions. Queueing conditions remain consistent with existing conditions in terms of available storage and impacts on adjacent movements, with one exception: the eastbound left-turn movement at Montague Expressway & South Main Street/Oakland Road during the PM peak is projected to slightly exceed the available turn lane storage.

Table 6: No Build (2026) Queuing Analysis

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|---|---------|----------|----------------|--------------------------|-----|
| | | | | | AM | PM |
| 1 | West Calaveras Boulevard & South Abel Street | Signal | EBL | 245 | 191 | 203 |
| | | | EBT | - | 252 | 606 |
| | | | EBR | - | 0 | 0 |
| | | | WBL | 250 | 441 | 279 |
| | | | WBT | - | 630 | 273 |
| | | | WBR | - | 29 | 46 |
| | | | NBL | 230 | 56 | 77 |
| | | | NBT | - | 147 | 178 |
| | | | NBR | 285 | 78 | 568 |
| | | | SBL | 285 | 227 | 321 |
| | | | SBT | - | 190 | 128 |
| | | | SBR | 285 | 96 | 63 |
| 2 | East Calaveras Boulevard & Milpitas Boulevard | Signal | EBL | 460 | 106 | 195 |
| | | | EBT | - | 177 | 530 |
| | | | EBR | 200 | 68 | 387 |
| | | | WBL | 215 | 108 | 150 |
| | | | WBT | - | 600 | 307 |
| | | | WBR | 270 | 89 | 59 |
| | | | NBL | 215 | 171 | 157 |
| | | | NBT | - | 108 | 135 |
| | | | NBR | 185 | 0 | 38 |
| | | | SBL | 215 | 76 | 106 |
| | | | SBT | - | 115 | 164 |
| | | | SBR | - | 83 | 71 |
| 3 | South Milpitas Boulevard & Yosemite Drive | Signal | EBL | - | 16 | 51 |
| | | | EBT | - | 15 | 49 |
| | | | WBL | - | 272 | 229 |
| | | | WBT | - | 109 | 64 |
| | | | NBL | 170 | 24 | 0 |
| | | | NBT | - | 130 | 142 |
| | | | SBL | 250 | 180 | 317 |
| | | | SBT | - | 78 | 111 |
| 4 | South Milpitas Boulevard & Ames Avenue/Driveway 1 | Signal | WBT | - | 19 | 63 |
| | | | NBT | - | 72 | 72 |
| | | | SBL | 140 | 47 | 38 |
| | | | SBT | - | 30 | 89 |

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|--|--------------|----------|----------------|--------------------------|-----|
| | | | | | AM | PM |
| 5 | South Milpitas Boulevard & Driveway 2 | Stop-Control | NBL | - | 0 | 0 |
| | | | NBT | - | 0 | 0 |
| | | | EBL | - | 0 | 0 |
| | | | SBT | - | 0 | 0 |
| 6 | South Milpitas Boulevard & Gibraltar Drive | Signal | EBL | 100 | 19 | 22 |
| | | | EBR | - | 0 | 62 |
| | | | WBT | - | 0 | 0 |
| | | | NBL | 130 | 210 | 50 |
| | | | NBT | - | 106 | 97 |
| | | | SBL | 75 | 17 | 7 |
| | | | SBT | - | 371 | 825 |
| | | | SBR | - | 0 | 0 |
| 7 | Gibraltar Drive & Driveway 3 | Stop-Control | EBL | - | 0 | 0 |
| | | | EBT | - | 0 | 0 |
| | | | WBL | - | 0 | 0 |
| | | | WBT | - | 0 | 0 |
| | | | NBL | - | 0 | 3 |
| | | | SBL | - | 0 | 0 |
| | | | SBT | - | 0 | 0 |
| 8 | South Milpitas Drive & Montague Expressway | Stop-Control | EBL | - | 0 | 0 |
| | | | EBT | - | 0 | 0 |
| | | | WBL | - | 0 | 0 |
| | | | SBL | - | 0 | 0 |
| 9 | South Milpitas Drive & Montague Expressway | Signal | EBL | 600 | 280 | 377 |
| | | | EBT | - | 270 | 725 |
| | | | WBL | 300 | 116 | 110 |
| | | | WBT | - | 1451 | 433 |
| | | | WBR | 200 | 370 | 93 |
| | | | NBL | 185 | 22 | 29 |
| | | | NBT | - | 86 | 93 |
| | | | SBL | 215 | 134 | 424 |
| | | | SBT | - | 63 | 152 |
| | | | SBR | 215 | 223 | 390 |

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|---|---------|----------|----------------|--------------------------|------|
| | | | | | AM | PM |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | Signal | EBL | 680 | 200 | 247 |
| | | | EBT | - | 247 | 725 |
| | | | EBR | 385 | 9 | 146 |
| | | | WBL | 400 | 80 | 173 |
| | | | WBT | - | 839 | 415 |
| | | | WBR | 240 | 2465 | 279 |
| | | | NBL | 350 | 194 | 178 |
| | | | NBT | - | 511 | 214 |
| | | | NBR | 385 | 0 | 13 |
| | | | SBL | 365 | 462 | 683 |
| | | | SBT | - | 141 | 807 |
| | | | SBR | - | 0 | 14 |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | Signal | EBL | 190 | 90 | 153 |
| | | | EBT | - | 199 | 887 |
| | | | EBR | 230 | 79 | 1352 |
| | | | WBL | 250 | 124 | 282 |
| | | | WBT | - | 605 | 290 |
| | | | WBR | - | 46 | 0 |
| | | | NBL | 175 | 331 | 234 |
| | | | NBT | - | 390 | 280 |
| | | | NBR | - | 50 | 71 |
| | | | SBL | 170 | 61 | 64 |
| | | | SBT | - | 91 | 168 |
| | | | SBR | 165 | 82 | 64 |
| 12 | Montague Expressway & South Main Street/Oakland Road | Signal | EBL | 190 | 150 | 195 |
| | | | EBT | - | 371 | 1277 |
| | | | EBR | 230 | 63 | 129 |
| | | | WBL | 250 | 161 | 152 |
| | | | WBT | - | 1530 | 482 |
| | | | WBR | - | 51 | 68 |
| | | | NBL | 175 | 571 | 252 |
| | | | NBT | - | 151 | 221 |
| | | | NBR | - | 76 | 321 |
| | | | SBL | 170 | 144 | 213 |
| | | | SBT | - | 180 | 290 |
| | | | SBR | 165 | 784 | 83 |

Queuing at the following intersections, highlighted in red in Table 6 above, have exceeded the storage length provided during the AM and/or PM peak hour. The non-CMP intersections are bolded for reference.

- West Calaveras Boulevard & South Abel Street: The westbound left, northbound right, and southbound left movements exceeded the storage length provided during the AM and/or PM peak hours.
- East Calaveras Boulevard & Milpitas Boulevard: The eastbound right movement has exceeded the storage length provided during the PM peak hour.
- **South Milpitas Boulevard & Yosemite Drive:** The southbound left has exceeded the storage length provided during the PM peak hour.
- **South Milpitas Boulevard & Gibraltar Drive:** The northbound left has exceeded the storage length provided during the AM peak hour.
- South Milpitas Drive & Montague Expressway: The westbound right, southbound left, and southbound right have exceeded the storage length provided during the AM and/or PM peak hour.
- Great Mall Parkway/East Capitol Avenue & Montague Expressway: The westbound right and southbound left have exceeded the storage during both the AM and PM peak hour.
- Montague Expressway & McCandless Drive/Trade Center Boulevard: The eastbound left, eastbound right, westbound left, and northbound left have exceeded the storage length provided during the AM and/or PM peak hour.
- Montague Expressway & South Main Street/Oakland Road: The eastbound left, northbound left, southbound left, and southbound right have exceeded the storage length provided during the AM and/or PM peak hour.

D.3. Future Traffic with Proposed Development

Peak hour site traffic volumes were distributed to study area roadways based on the trip distribution percentages discussed in Section C.3. These volumes were added to No-Build (2026) volumes to determine operating conditions in the Build scenario.

D.4. Build 2026 Traffic Analysis Results

The results of the Build (2026) traffic capacity are shown in Table 7. Figure 21 – 23 illustrates the Build traffic volumes. All the intersections continue to operate at the same LOS. With the addition of site traffic, intersections in the study area are anticipated to operate similarly to the No-Build condition, without significant impacts on traffic operations during peak hours except for the two intersections listed above. Intersections with inadequate LOS show some increase in delay with increased volume.

Table 7: Build (2026) Intersection Capacity Analysis

| ID | Intersection | Control | Movement | AM | | PM | |
|----|---|--------------|----------|-----|-------|-----|-------|
| | | | | LOS | Delay | LOS | Delay |
| 1 | West Calaveras Boulevard & South Abel Street | Signal | Overall | D | 52.9 | F | 116.5 |
| | | | EB | D | 39.1 | D | 42.6 |
| | | | WB | D | 42.2 | D | 35.1 |
| | | | NB | E | 66.4 | F | 351.8 |
| | | | SB | F | 80.3 | E | 70.9 |
| 2 | East Calaveras Boulevard & Milpitas Boulevard | Signal | Overall | D | 39.7 | D | 41.0 |
| | | | EB | C | 32.6 | D | 41.4 |
| | | | WB | D | 42.1 | D | 39.0 |
| | | | NB | D | 41.6 | D | 41.6 |
| | | | SB | D | 40.6 | D | 42.6 |
| 3 | South Milpitas Boulevard & Yosemite Drive | Signal | Overall | C | 33.4 | C | 32.9 |
| | | | EB | C | 32.4 | D | 41.0 |
| | | | WB | D | 46.5 | D | 47.1 |
| | | | NB | C | 22.5 | B | 20.0 |
| | | | SB | C | 27.1 | C | 32.7 |
| 4 | South Milpitas Boulevard & Ames Avenue/Driveway 1 | Signal | Overall | A | 6.2 | A | 6.7 |
| | | | WB | D | 44.9 | D | 42.2 |
| | | | NB | A | 3.2 | A | 3.9 |
| | | | SB | A | 5.7 | A | 3.9 |
| 5 | South Milpitas Boulevard & Driveway 2 | Stop-Control | NBL | A | 8.7 | B | 10.4 |
| | | | EB | B | 11.5 | B | 14.8 |
| 6 | South Milpitas Boulevard & Gibraltar Drive | Signal | Overall | B | 16.1 | A | 8.7 |
| | | | WB | F | 118.7 | F | 108.1 |
| | | | NB | B | 19.7 | A | 9.2 |
| | | | SB | A | 9.0 | A | 5.9 |
| 7 | Gibraltar Drive & Driveway 3 | Stop-Control | NB | A | 8.5 | A | 9.0 |
| | | | WBL | A | 7.3 | A | 7.5 |
| | | | SB | B | 10.0 | A | 9.8 |
| 8 | Gibraltar Drive & Driveway 4 | Stop-Control | WB | A | 9.0 | A | 9.1 |
| | | | SBL | A | 7.5 | A | 7.4 |
| 9 | South Milpitas Drive & Montague Expressway | Signal | Overall | F | 99.7 | F | 92.1 |
| | | | EB | E | 58.1 | E | 58.7 |
| | | | WB | F | 101.6 | E | 58.6 |
| | | | NB | E | 67.2 | E | 67.8 |
| | | | SB | E | 169.2 | F | 208.9 |

| ID | Intersection | Control | Movement | AM | | PM | |
|----|---|---------|----------|-----|-------|-----|-------|
| | | | | LOS | Delay | LOS | Delay |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | Signal | Overall | F | 103.3 | E | 74.1 |
| | | | EB | D | 46.4 | D | 49.8 |
| | | | WB | F | 112.6 | D | 48.5 |
| | | | NB | F | 122.2 | F | 117.3 |
| | | | SB | F | 112.2 | F | 111.0 |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | Signal | Overall | D | 54.9 | F | 82.8 |
| | | | EB | B | 17.3 | F | 103.5 |
| | | | WB | B | 16.8 | C | 26.8 |
| | | | NB | F | 185.3 | F | 85.0 |
| | | | SB | E | 68.2 | E | 67.0 |
| 12 | Montague Expressway & South Main Street/Oakland Road | Signal | Overall | E | 78.4 | D | 52.5 |
| | | | EB | D | 36.8 | D | 46.9 |
| | | | WB | E | 70.9 | D | 35.6 |
| | | | NB | F | 179.4 | F | 87.6 |
| | | | SB | F | 83.2 | F | 85.9 |

Based on the 2026 Build analysis results, the following intersections exhibit on overall LOS of E or worse during the AM and/or PM peak hours:

- West Calaveras Boulevard & South Abel Street (CMP)
- South Milpitas Drive & Montague Expressway (CMP)
- Great Mall Parkway/East Capitol Avenue & Montague Expressway (CMP)
- Montague Expressway & McCandless Drive/Trade Center Boulevard (CMP)
- Montague Expressway & South Main Street/Oakland Road (CMP)

Additionally, South Milpitas Boulevard and Gibraltar Drive exhibits an LOS F on the westbound approach during both the AM and PM peak hour.

Table 8 summarizes the corresponding queue lengths for every movement in the study area for 2026 Build Conditions. All queues remain consistent with 2026 No-Build conditions on whether there is sufficient space without impacting neighboring movements.

Table 8: Build (2026) Queuing Analysis

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|---|---------|----------|----------------|--------------------------|-----|
| | | | | | AM | PM |
| 1 | West Calaveras Boulevard & South Abel Street | Signal | EBL | 245 | 191 | 203 |
| | | | EBT | - | 264 | 624 |
| | | | EBR | - | 0 | 0 |
| | | | WBL | 250 | 441 | 279 |
| | | | WBT | - | 651 | 283 |
| | | | WBR | - | 29 | 46 |
| | | | NBL | 230 | 56 | 77 |
| | | | NBT | - | 147 | 178 |
| | | | NBR | 285 | 78 | 568 |
| | | | SBL | 285 | 227 | 321 |
| | | | SBT | - | 190 | 128 |
| | | | SBR | 285 | 96 | 63 |
| 2 | East Calaveras Boulevard & Milpitas Boulevard | Signal | EBL | 460 | 106 | 195 |
| | | | EBT | - | 180 | 542 |
| | | | EBR | 200 | 72 | 418 |
| | | | WBL | 215 | 122 | 161 |
| | | | WBT | - | 600 | 307 |
| | | | WBR | 270 | 89 | 59 |
| | | | NBL | 215 | 187 | 171 |
| | | | NBT | - | 108 | 135 |
| | | | NBR | 185 | 0 | 48 |
| | | | SBL | 215 | 76 | 106 |
| | | | SBT | - | 115 | 164 |
| | | | SBR | - | 83 | 71 |
| 3 | South Milpitas Boulevard & Yosemite Drive | Signal | EBL | - | 46 | 77 |
| | | | EBT | - | 15 | 49 |
| | | | WBL | - | 270 | 178 |
| | | | WBT | - | 109 | 64 |
| | | | NBL | 170 | 24 | 0 |
| | | | NBT | - | 137 | 147 |
| | | | SBL | 250 | 180 | 317 |
| | | | SBT | - | 87 | 118 |
| 4 | South Milpitas Boulevard & Ames Avenue/Driveway 1 | Signal | WBT | - | 19 | 63 |
| | | | NBT | - | 75 | 75 |
| | | | SBL | 140 | 47 | 38 |
| | | | SBT | - | 59 | 91 |

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|--|--------------|----------|----------------|--------------------------|------|
| | | | | | AM | PM |
| 5 | South Milpitas Boulevard & Driveway 2 | Stop-Control | NBL | - | 3 | 5 |
| | | | NBT | - | 0 | 0 |
| | | | EBL | - | 8 | 13 |
| | | | SBT | - | 0 | 0 |
| 6 | South Milpitas Boulevard & Gibraltar Drive | Signal | EBL | 100 | 20 | 22 |
| | | | EBR | - | 0 | 67 |
| | | | WBT | - | 0 | 0 |
| | | | NBL | 130 | 249 | 82 |
| | | | NBT | - | 116 | 110 |
| | | | SBL | 75 | 17 | 1 |
| | | | SBT | - | 450 | 1074 |
| | | | SBR | - | 0 | 0 |
| 7 | Gibraltar Drive & Driveway 3 | Stop-Control | EBL | - | 0 | 0 |
| | | | EBT | - | 0 | 0 |
| | | | WBL | - | 0 | 0 |
| | | | WBT | - | 0 | 0 |
| | | | NBL | - | 0 | 3 |
| | | | SBL | - | 3 | 3 |
| | | | SBT | - | 0 | 0 |
| 8 | South Milpitas Drive & Montague Expressway | Stop-Control | EBL | - | 0 | 0 |
| | | | EBT | - | 0 | 0 |
| | | | WBL | - | 5 | 5 |
| | | | SBL | - | 3 | 3 |
| 9 | South Milpitas Drive & Montague Expressway | Signal | EBL | 600 | 307 | 418 |
| | | | EBT | - | 270 | 725 |
| | | | WBL | 300 | 116 | 110 |
| | | | WBT | - | 1482 | 433 |
| | | | WBR | 200 | 443 | 125 |
| | | | NBL | 185 | 22 | 29 |
| | | | NBT | - | 86 | 93 |
| | | | SBL | 215 | 172 | 489 |
| | | | SBT | - | 63 | 152 |
| | | | SBR | 215 | 294 | 465 |

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|---|---------|----------|----------------|--------------------------|------|
| | | | | | AM | PM |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | Signal | EBL | 680 | 200 | 247 |
| | | | EBT | - | 256 | 740 |
| | | | EBR | 385 | 9 | 149 |
| | | | WBL | 400 | 95 | 186 |
| | | | WBT | - | 850 | 423 |
| | | | WBR | 240 | 2474 | 287 |
| | | | NBL | 350 | 194 | 178 |
| | | | NBT | - | 511 | 214 |
| | | | NBR | 385 | 16 | 34 |
| | | | SBL | 365 | 462 | 683 |
| | | | SBT | - | 141 | 807 |
| | | | SBR | - | 0 | 14 |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | Signal | EBL | 190 | 90 | 153 |
| | | | EBT | - | 205 | 899 |
| | | | EBR | 230 | 79 | 1352 |
| | | | WBL | 250 | 124 | 282 |
| | | | WBT | - | 615 | 260 |
| | | | WBR | - | 46 | 0 |
| | | | NBL | 175 | 331 | 234 |
| | | | NBT | - | 390 | 280 |
| | | | NBR | - | 50 | 71 |
| | | | SBL | 170 | 61 | 64 |
| | | | SBT | - | 91 | 168 |
| | | | SBR | 165 | 82 | 64 |
| 12 | Montague Expressway & South Main Street/Oakland Road | Signal | EBL | 190 | 150 | 195 |
| | | | EBT | - | 378 | 1292 |
| | | | EBR | 230 | 65 | 131 |
| | | | WBL | 250 | 171 | 160 |
| | | | WBT | - | 1534 | 485 |
| | | | WBR | - | 51 | 69 |
| | | | NBL | 175 | 571 | 252 |
| | | | NBT | - | 151 | 221 |
| | | | NBR | - | 80 | 360 |
| | | | SBL | 170 | 144 | 213 |
| | | | SBT | - | 180 | 290 |
| | | | SBR | 165 | 784 | 83 |

Queuing at the following intersections, highlighted in red in Table 8 above, have exceeded the storage length provided during the AM and/or PM peak hour. Non-CMP intersections are shown in bold for reference.

- West Calaveras Boulevard & South Abel Street: The westbound left, northbound right, and southbound left have exceeded the storage length provided during the AM and/or PM peak hour. Eastbound left and southbound right movements have surpassed available queuing space in this scenario when compared to 2026 No-Build conditions.
- East Calaveras Boulevard & Milpitas Boulevard: The eastbound right has exceeded the storage length provided during the PM peak hour. The northbound right movement has surpassed available queuing space in this scenario when compared to 2026 No-Build conditions.
- **South Milpitas Boulevard & Yosemite Drive:** The southbound left has exceeded the storage length provided during the PM peak hour.
- **South Milpitas Boulevard & Gibraltar Drive:** The northbound left has exceeded the storage length provided during the AM peak hour.
- South Milpitas Drive & Montague Expressway: The westbound right, southbound left, and southbound right have exceeded the storage length provided during the AM and/or PM peak hour. The eastbound left movement has surpassed available queuing space in this scenario when compared to 2026 No-Build conditions.
- Great Mall Parkway/East Capitol Avenue & Montague Expressway: The westbound right and the southbound left have exceeded the storage length provided during the AM and PM peak hour.
- Montague Expressway & McCandless Drive/Trade Center Boulevard: The eastbound right, westbound left, and northbound left have exceeded the storage length provided during the AM and/or PM peak hour. The southbound right movement has surpassed available queuing space in this scenario when compared to 2026 No-Build conditions.
- Montague Expressway & South Main Street/Oakland Road: The northbound left, southbound left, and southbound right have exceeded the storage length provided during the AM and/or PM peak hour.

Figure 27: Build (2026) Traffic Volumes 1

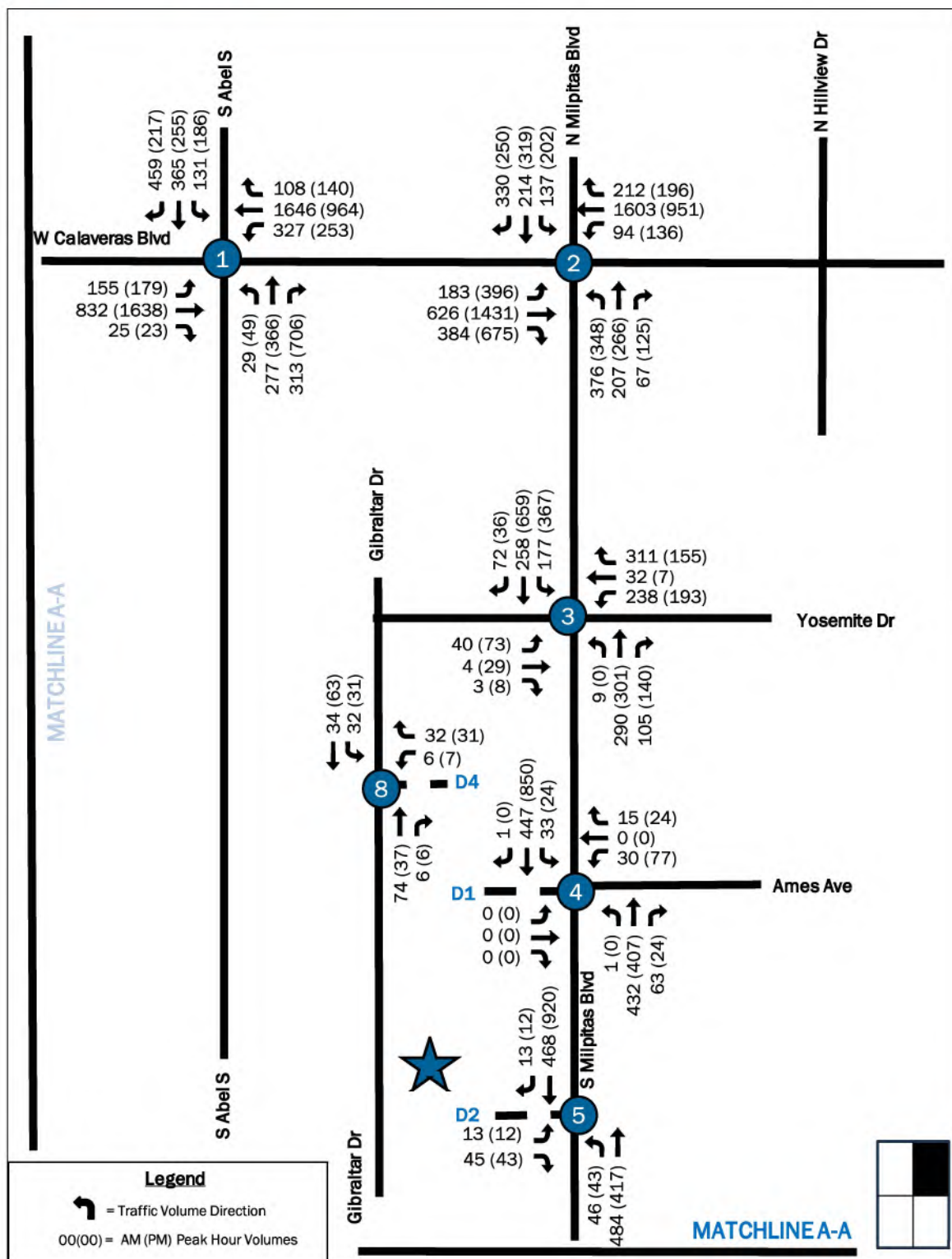


Figure 28: Build (2026) Traffic Volumes 2

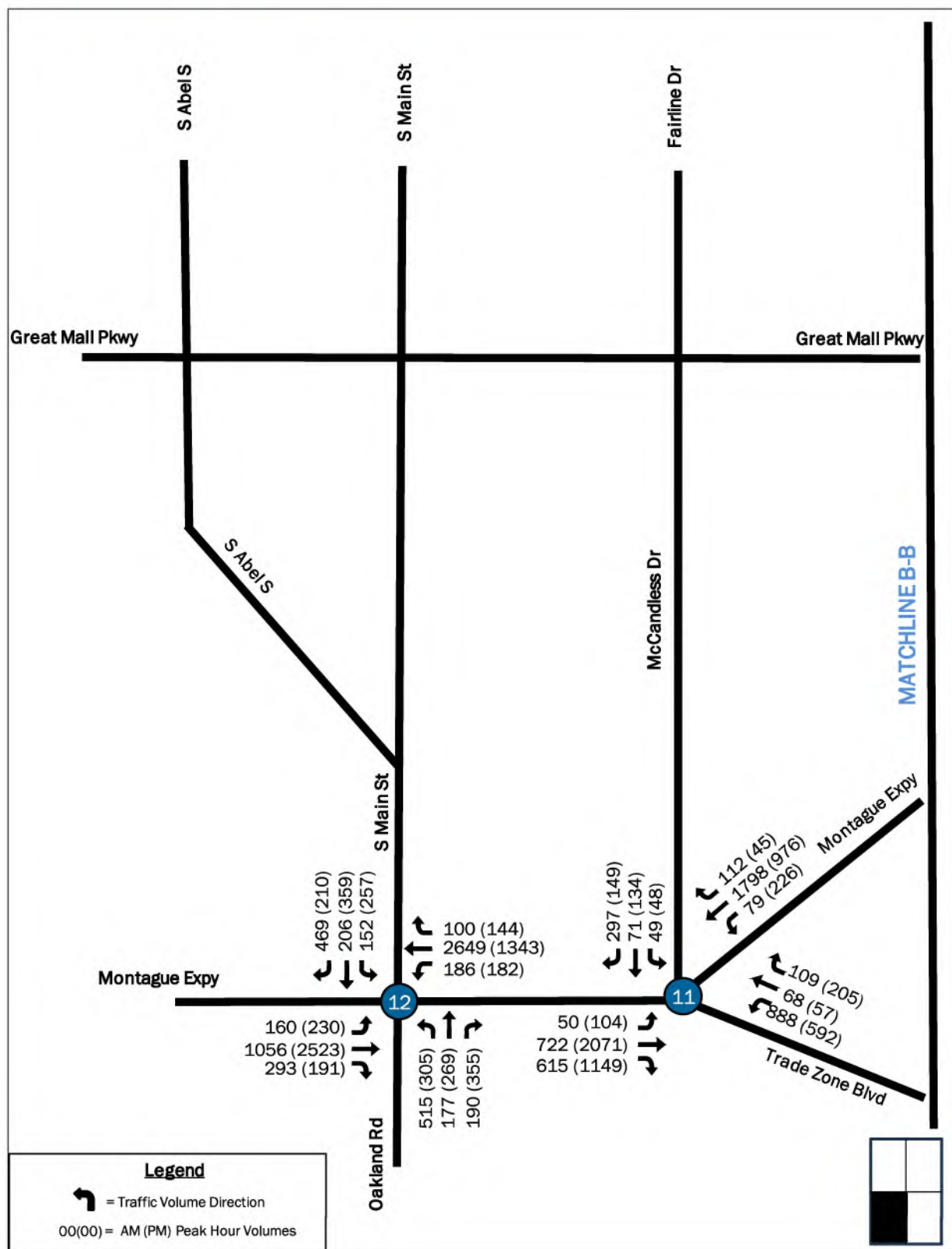
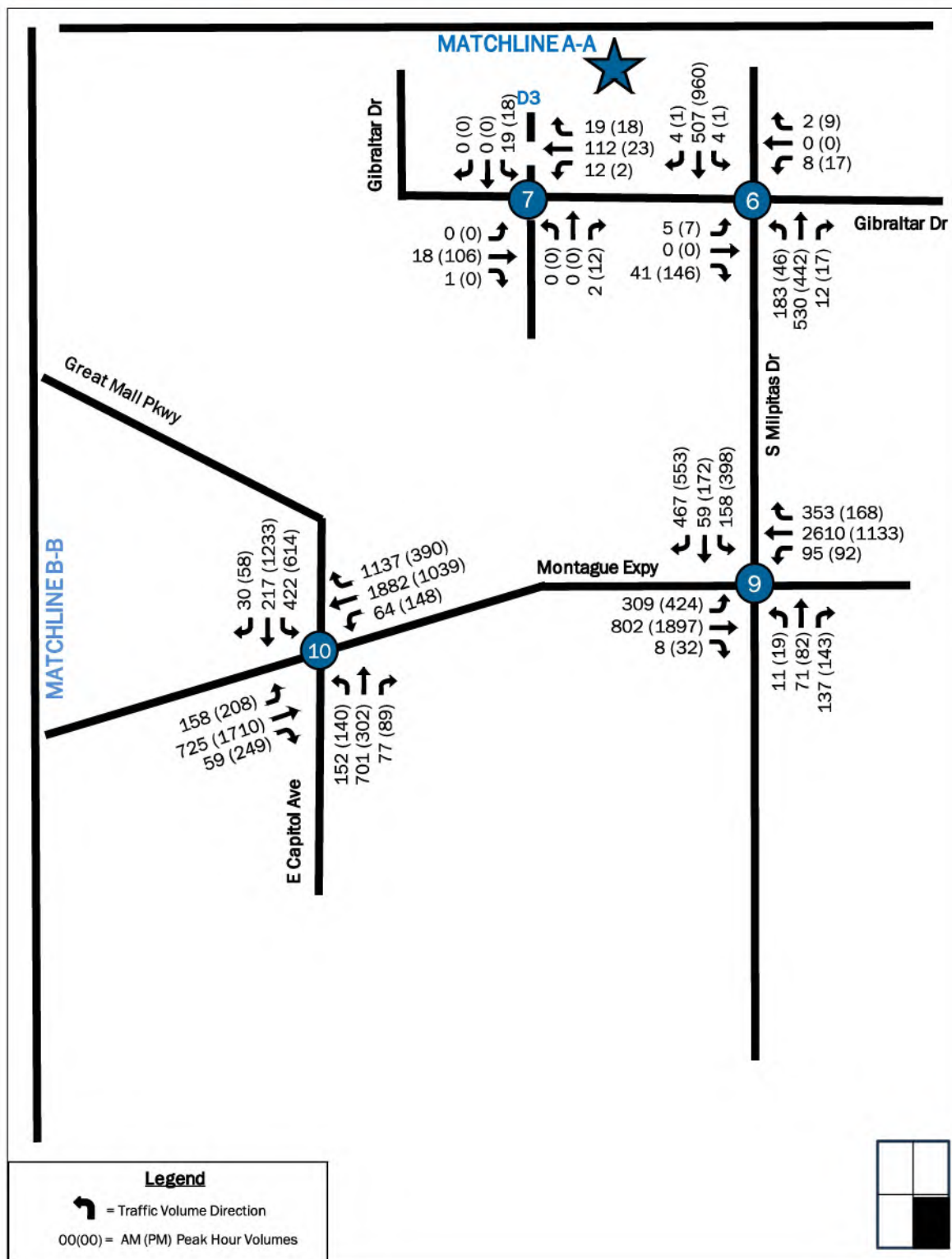


Figure 29: Build (2026) Traffic Volumes 3



D.5. Horizon Year (2040) Capacity Analysis

The results of 2040 existing plus background traffic capacity analyses are shown in Table 6 and include the analysis of the volumes shown in Figure 24 – 26.

D.6. Horizon Year (2040) No-Build Traffic Analysis Results

As shown in Table 9, most study intersections are projected to experience increased delay per approach and a decline in overall Level of Service (LOS) by the Horizon Year (2040) No-Build scenario, relative to the 2026 No-Build capacity conditions. The intersection of East Calaveras and Milpitas Boulevard operations degraded from LOS D to LOS E between the 2026 and 2040 No-Build conditions. South Milpitas Boulevard at Yosemite Drive degraded from LOS D to LOS E between scenarios.

Table 9: Horizon Year (2040) No-Build Capacity Analysis

| ID | Intersection | Control | Movement | AM | | PM | |
|----|---|--------------|----------|-----|-------|-----|-------|
| | | | | LOS | Delay | LOS | Delay |
| 1 | West Calaveras Boulevard & South Abel Street | Signal | Overall | F | 146.0 | F | 248.3 |
| | | | EB | D | 43.1 | F | 212.4 |
| | | | WB | F | 175.2 | D | 43.9 |
| | | | NB | F | 141.7 | F | 592.9 |
| | | | SB | F | 192.3 | F | 127.1 |
| 2 | East Calaveras Boulevard & Milpitas Boulevard | Signal | Overall | F | 115.8 | F | 96.0 |
| | | | EB | C | 34.8 | F | 136.6 |
| | | | WB | F | 195.6 | F | 84.2 |
| | | | NB | D | 44.8 | D | 44.5 |
| | | | SB | D | 42.4 | D | 46.5 |
| 3 | South Milpitas Boulevard & Yosemite Drive | Signal | Overall | D | 50.1 | E | 65.4 |
| | | | EB | C | 31.5 | D | 38.7 |
| | | | WB | E | 77.8 | D | 50.0 |
| | | | NB | C | 30.3 | C | 24.7 |
| | | | SB | C | 32.8 | F | 89.9 |
| 4 | South Milpitas Boulevard & Ames Avenue/Driveway 1 | Signal | Overall | A | 6.6 | A | 8.1 |
| | | | WB | D | 44.0 | D | 40.6 |
| | | | NB | A | 4.0 | A | 5.5 |
| | | | SB | A | 5.6 | A | 5.5 |
| 5 | South Milpitas Boulevard & Driveway 2 | Stop-Control | NBL | A | 9.1 | A | 0.0 |
| | | | EB | A | 0.0 | A | 0.0 |

| ID | Intersection | Control | Movement | AM | | PM | |
|----|---|--------------|----------|-----|-------|-----|-------|
| | | | | LOS | Delay | LOS | Delay |
| 6 | South Milpitas Boulevard & Gibraltar Drive | Signal | Overall | B | 18.2 | B | 12.1 |
| | | | WB | F | 112.9 | F | 93.2 |
| | | | NB | C | 20.6 | A | 6.6 |
| | | | SB | B | 12.9 | B | 12.4 |
| 7 | Gibraltar Drive & Driveway 3 | Stop-Control | NB | A | 8.5 | A | 9.3 |
| | | | WBL | A | 7.3 | A | 7.6 |
| 9 | South Milpitas Drive & Montague Expressway | Signal | Overall | F | 241.5 | F | 132.1 |
| | | | EB | E | 60.7 | E | 77.6 |
| | | | WB | F | 309.6 | E | 66.4 |
| | | | NB | E | 70.5 | E | 71.0 |
| | | | SB | F | 288.3 | F | 351.3 |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | Signal | Overall | F | 223.3 | F | 93.1 |
| | | | EB | E | 58.4 | E | 68.2 |
| | | | WB | F | 316.3 | E | 66.8 |
| | | | NB | F | 142.7 | F | 101.3 |
| | | | SB | F | 110.1 | F | 149.4 |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | Signal | Overall | F | 111.5 | F | 263.0 |
| | | | EB | C | 31.3 | F | 368.9 |
| | | | WB | C | 23.3 | C | 33.3 |
| | | | NB | F | 409.5 | F | 201.6 |
| | | | SB | F | 66.2 | E | 64.3 |
| 12 | Montague Expressway & South Main Street/Oakland Road | Signal | Overall | F | 213.8 | F | 139.6 |
| | | | EB | D | 42.4 | F | 206.3 |
| | | | WB | F | 270.4 | D | 47.2 |
| | | | NB | F | 349.4 | F | 104.4 |
| | | | SB | F | 84.7 | F | 100.7 |

Based on the 2040 No Build analysis results; the following intersections exhibit on overall LOS of E or worse during the AM and/or PM peak hours:

- West Calaveras Boulevard & South Abel Street (CMP)
- East Calaveras Boulevard & Milpitas Boulevard (CMP)
- South Milpitas Boulevard & Yosemite Drive (non-CMP)
- South Milpitas Drive & Montague Expressway (CMP)
- Great Mall Parkway/East Capitol Avenue & Montague Expressway (CMP)
- Montague Expressway & McCandless Drive/Trade Center Boulevard (CMP)
- Montague Expressway & South Main Street/Oakland Road (CMP)

Additionally, South Milpitas Boulevard and Gibraltar Drive exhibits an LOS F on the westbound approach during both the AM and PM peak hour.

Table 10 summarizes the corresponding queue lengths for every movement in the study area for 2040 No-Build Conditions. Most queues remain consistent with 2026 No-Build conditions on whether there is sufficient space without impacting neighboring movements. Additional movements that experience insufficient queuing space are noted.

Table 10: Horizon Year (2040) No-Build Queuing Analysis

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|--|---------|----------|----------------|--------------------------|------|
| | | | | | AM | PM |
| 1 | West Calaveras Boulevard & South Abel Street | Signal | EBL | 245 | 249 | 266 |
| | | | EBT | - | 378 | 1003 |
| | | | EBR | - | 0 | 0 |
| | | | WBL | 250 | 715 | 467 |
| | | | WBT | - | 1140 | 488 |
| | | | WBR | - | 70 | 72 |
| | | | NBL | 230 | 72 | 99 |
| | | | NBT | - | 204 | 254 |
| | | | NBR | 285 | 153 | 1086 |
| | | | SBL | 285 | 343 | 467 |
| | | | SBT | - | 272 | 180 |
| 2 | E Calaveras Boulevard & Milpitas Boulevard | Signal | SBR | 285 | 399 | 75 |
| | | | EBL | 460 | 138 | 273 |
| | | | EBT | - | 68 | 903 |
| | | | EBR | 200 | 87 | 851 |
| | | | WBL | 215 | 140 | 199 |
| | | | WBT | - | 1032 | 568 |
| | | | WBR | 270 | 179 | 89 |
| | | | NBL | 215 | 243 | 220 |
| | | | NBT | - | 149 | 188 |
| | | | NBR | 185 | 7 | 57 |
| | | | SBL | 215 | 102 | 145 |
| 3 | S Milpitas Boulevard & Yosemite Drive | Signal | SBT | - | 157 | 231 |
| | | | SBR | - | 289 | 97 |
| | | | EBL | - | 17 | 64 |
| | | | EBT | - | 17 | 61 |
| | | | WBL | - | 433 | 346 |
| | | | WBT | - | 132 | 76 |
| | | | NBL | 170 | 29 | 0 |
| | | | NBT | - | 225 | 236 |
| | | | SBL | 250 | 241 | 488 |

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|---|--------------|----------|----------------|--------------------------|------|
| | | | | | AM | PM |
| 4 | S Milpitas Boulevard & Ames Avenue/Driveway 1 | Signal | SBT | - | 127 | 180 |
| | | | WBT | - | 35 | 94 |
| | | | NBT | - | 122 | 122 |
| | | | SBL | 140 | 61 | 47 |
| | | | SBT | - | 51 | 178 |
| 5 | South Milpitas Boulevard & Driveway 2 | Stop-Control | NBL | - | 0 | 0 |
| | | | NBT | - | 0 | 0 |
| | | | EBL | - | 0 | 0 |
| | | | SBT | - | 0 | 0 |
| 6 | South Milpitas Boulevard & Gibraltar Drive | Signal | EBL | 100 | 23 | 30 |
| | | | EBR | - | 0 | 73 |
| | | | WBT | - | 0 | 0 |
| | | | NBL | 130 | 275 | 63 |
| | | | NBT | - | 161 | 148 |
| | | | SBL | 75 | 21 | 7 |
| | | | SBT | - | 699 | 1725 |
| | | | SBR | - | 0 | 0 |
| 7 | Gibraltar Drive & Driveway 3 | Stop-Control | EBL | - | 0 | 0 |
| | | | EBT | - | 0 | 0 |
| | | | WBL | - | 0 | 0 |
| | | | WBT | - | 0 | 0 |
| | | | NBL | - | 0 | 3 |
| | | | SBL | - | 0 | 0 |
| | | | SBT | - | 0 | 0 |
| 8 | Gibraltar Drive & Driveway 4 | Stop-Control | EBL | - | 0 | 0 |
| | | | EBT | - | 0 | 0 |
| | | | WBL | - | 0 | 0 |
| | | | SBL | - | 0 | 0 |
| 9 | South Milpitas Drive & Montague Expressway | Signal | EBL | 600 | 390 | 643 |
| | | | EBT | - | 408 | 1298 |
| | | | WBL | 300 | 152 | 147 |
| | | | WBT | - | 2471 | 656 |
| | | | WBR | 200 | 623 | 167 |
| | | | NBL | 185 | 28 | 39 |
| | | | NBT | - | 112 | 131 |
| | | | SBL | 215 | 182 | 678 |
| | | | SBT | - | 83 | 207 |
| | | | SBR | 215 | 763 | 1127 |

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|---|---------|----------|----------------|--------------------------|------|
| | | | | | AM | PM |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | Signal | EBL | 680 | 269 | 332 |
| | | | EBT | - | 381 | 1209 |
| | | | EBR | 385 | 41 | 322 |
| | | | WBL | 400 | 105 | 232 |
| | | | WBT | - | 1595 | 654 |
| | | | WBR | 240 | 4322 | 660 |
| | | | NBL | 350 | 266 | 240 |
| | | | NBT | - | 812 | 282 |
| | | | NBR | 385 | 40 | 65 |
| | | | SBL | 365 | 686 | 402 |
| | | | SBT | - | 190 | 1399 |
| | | | SBR | - | 0 | 53 |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | Signal | EBL | 190 | 115 | 200 |
| | | | EBT | - | 306 | 1571 |
| | | | EBR | 230 | 615 | 2483 |
| | | | WBL | 250 | 163 | 448 |
| | | | WBT | - | 1155 | 459 |
| | | | WBR | - | 84 | 12 |
| | | | NBL | 175 | 655 | 308 |
| | | | NBT | - | 778 | 370 |
| | | | NBR | - | 93 | 78 |
| | | | SBL | 170 | 77 | 75 |
| | | | SBT | - | 121 | 210 |
| | | | SBR | 165 | 173 | 68 |
| 12 | Montague Expressway & South Main Street/Oakland Road | Signal | EBL | 190 | 199 | 260 |
| | | | EBT | - | 606 | 2287 |
| | | | EBR | 230 | 212 | 221 |
| | | | WBL | 250 | 216 | 201 |
| | | | WBT | - | 2636 | 832 |
| | | | WBR | - | 94 | 134 |
| | | | NBL | 175 | 880 | 411 |
| | | | NBT | - | 214 | 334 |
| | | | NBR | - | 142 | 784 |
| | | | SBL | 170 | 191 | 290 |
| | | | SBT | - | 249 | 452 |
| | | | SBR | 165 | 1342 | 245 |

Queuing at the following intersections, highlighted in red in Table 10 above, have exceeded the storage length provided during the AM and/or PM peak hour. Non-CMP intersections are shown in bold for reference.

- West Calaveras Boulevard & South Abel Street: The eastbound left, westbound left, northbound right, and southbound left have exceeded the storage length provided during the AM and/or PM peak hour. Eastbound left and southbound right movements have surpassed available queuing space in this scenario when compared to 2026 No-Build conditions.
- E Calaveras Boulevard & Milpitas Boulevard: The eastbound right and northbound left have exceeded the storage length provided during the AM and/or PM peak hour. The northbound right movement has surpassed available queuing space in this scenario when compared to 2026 No-Build conditions.
- **South Milpitas Boulevard & Yosemite Drive:** The southbound left has exceeded the storage length provided during the PM peak hour.
- **South Milpitas Boulevard & Gibraltar Drive:** The northbound left has exceeded the storage length provided during the AM peak hour.
- South Milpitas Drive & Montague Expressway: The eastbound left, westbound right, southbound left, and southbound right have exceeded the storage length provided during the AM and/or PM peak hour. The eastbound left movement has surpassed available queuing space in this scenario when compared to 2026 No-Build conditions.
- Great Mall Parkway/East Capitol Avenue & Montague Expressway: The westbound right and the southbound left have exceeded the storage length provided during the AM and PM peak hour.
- Montague Expressway & McCandless Drive/Trade Center Boulevard: The eastbound right, westbound left, northbound left, and southbound right have exceeded the storage length provided during the AM and/or PM peak hour. The southbound right movement has surpassed available queuing space in this scenario when compared to 2026 No-Build conditions.
- Montague Expressway & South Main Street/Oakland Road: The eastbound left, northbound left, southbound left, and southbound right have exceeded the storage length provided during the AM and/or PM peak hour.

Figure 30: Horizon (2040) No-Build Traffic Volumes 1

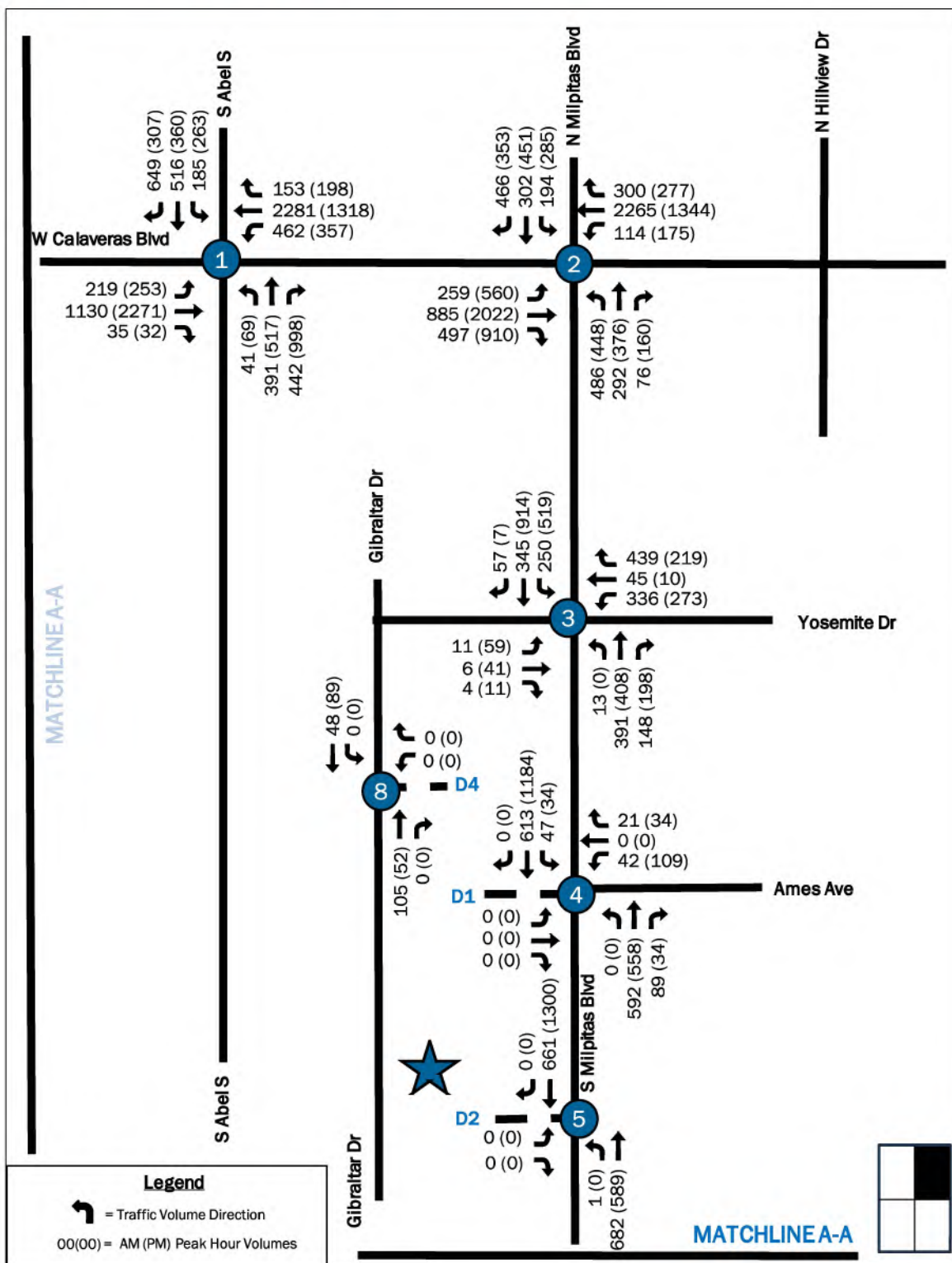


Figure 31: Horizon (2040) No-Build Traffic Volumes 2

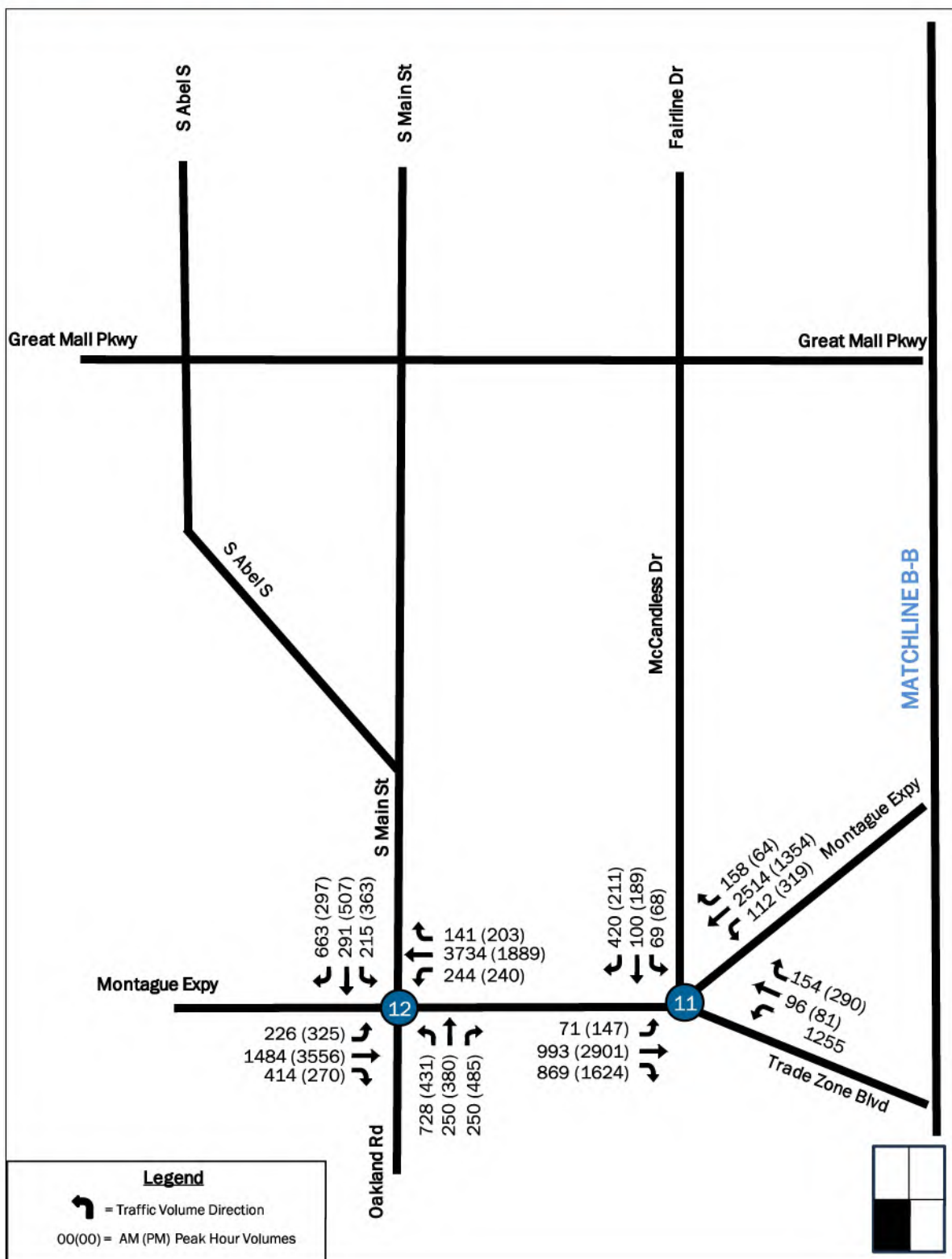
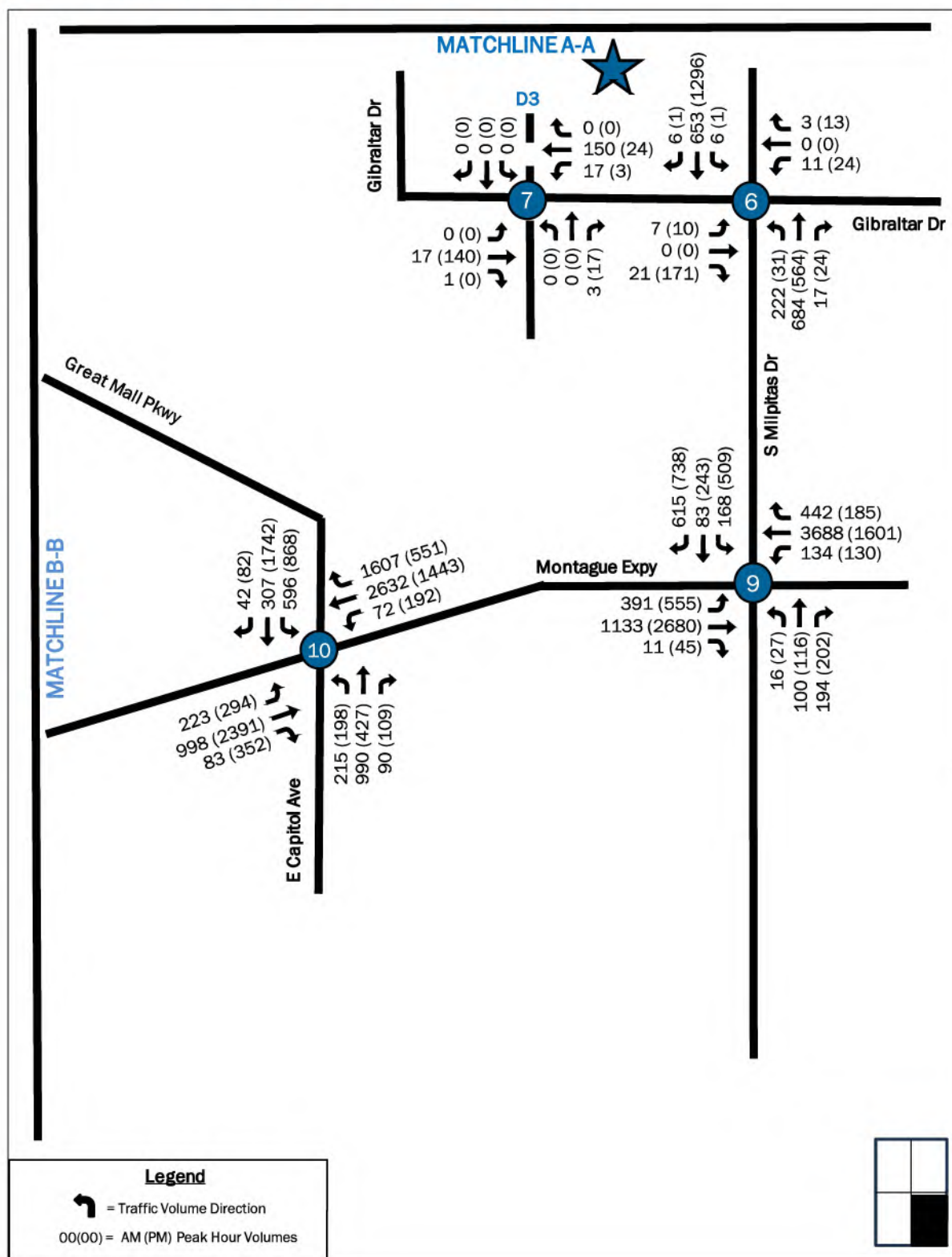


Figure 32: Horizon (2040) No-Build Traffic Volumes 3



D.7. Horizon Year 2040 Traffic Volumes with Proposed Development

The results of the 2035 capacity analyses for existing conditions with background and site-generated traffic are summarized in Table 11 and include an analysis of the traffic volumes shown in Figure 27 – 29.

D.8. Horizon Year (2040) Build Capacity Analysis Results

As shown in Table 11, most study intersections are projected to experience increased delay per approach and a decline in overall Level of Service (LOS) by the Horizon Year (2040) Build scenario, relative to the 2026 Build capacity conditions.

Table 11: Horizon Year (2040) Build Capacity Analysis

| ID | Intersection | Control | Movement | AM | | PM | |
|----|---|--------------|----------|-----|-------|-----|-------|
| | | | | LOS | Delay | LOS | Delay |
| 1 | West Calaveras Boulevard & South Abel Street | Signal | Overall | F | 148.6 | F | 250.3 |
| | | | EB | D | 43.6 | F | 220.4 |
| | | | WB | F | 181.8 | D | 44.1 |
| | | | NB | F | 141.7 | F | 592.9 |
| | | | SB | F | 192.3 | F | 127.1 |
| 2 | E Calaveras Boulevard & Milpitas Boulevard | Signal | Overall | F | 115.4 | F | 100.1 |
| | | | EB | D | 35.4 | F | 146.5 |
| | | | WB | F | 194.8 | F | 84.2 |
| | | | NB | D | 46.0 | D | 45.4 |
| | | | SB | D | 42.4 | D | 46.5 |
| 3 | S Milpitas Boulevard & Yosemite Drive | Signal | Overall | D | 49.6 | E | 64.2 |
| | | | EB | C | 30.8 | D | 36.7 |
| | | | WB | E | 76.6 | D | 47.0 |
| | | | NB | C | 32.9 | C | 26.5 |
| | | | SB | C | 32.8 | F | 88.4 |
| 4 | S Milpitas Boulevard & Ames Avenue/Driveway 1 | Stop-Control | Overall | A | 7.1 | A | 8.1 |
| | | | WB | D | 44.0 | D | 40.6 |
| | | | NB | A | 4.2 | A | 5.6 |
| | | | SB | A | 6.6 | A | 5.5 |
| 5 | South Milpitas Boulevard & Driveway 2 | Stop-Control | NBL | A | 9.4 | B | 12.9 |
| | | | EB | B | 13.2 | C | 20.5 |
| 6 | South Milpitas Boulevard & Gibraltar Drive | Signal | Overall | C | 22.2 | B | 15.9 |
| | | | WB | E | 72.9 | F | 93.2 |
| | | | NB | C | 22.9 | A | 8.4 |
| | | | SB | B | 19.3 | B | 17.6 |

| ID | Intersection | Control | Movement | AM | | PM | |
|----|---|--------------|----------------|----------|--------------|----------|--------------|
| | | | | LOS | Delay | LOS | Delay |
| 7 | Gibraltar Drive & Driveway 3 | Stop-Control | NB | A | 8.5 | A | 9.3 |
| | | | WBL | A | 7.3 | A | 7.6 |
| | | | SB | B | 10.6 | B | 10.4 |
| 8 | Gibraltar Drive & Driveway 4 | Stop-Control | WB | A | 9.2 | A | 9.3 |
| | | | SBL | A | 7.6 | A | 7.5 |
| 9 | South Milpitas Drive & Montague Expressway | Signal | Overall | F | 253.4 | F | 143.4 |
| | | | EB | E | 62.9 | F | 82.1 |
| | | | WB | F | 323.6 | E | 66.3 |
| | | | NB | E | 70.5 | E | 71.0 |
| | | | SB | F | 309.9 | F | 386.2 |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | Signal | Overall | F | 222.8 | F | 109.5 |
| | | | EB | E | 58.7 | E | 69.1 |
| | | | WB | F | 315.3 | E | 67.2 |
| | | | NB | F | 142.7 | F | 113.9 |
| | | | SB | F | 110.1 | F | 186.1 |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | Signal | Overall | F | 111.0 | F | 263.9 |
| | | | EB | C | 30.9 | F | 370.7 |
| | | | WB | C | 23.4 | C | 33.3 |
| | | | NB | F | 409.5 | F | 201.6 |
| | | | SB | E | 66.2 | E | 64.3 |
| 12 | Montague Expressway & South Main Street/Oakland Road | Signal | Overall | F | 214.2 | F | 142.3 |
| | | | EB | D | 42.9 | F | 211.8 |
| | | | WB | F | 270.9 | D | 47.6 |
| | | | NB | F | 349.4 | F | 104.4 |
| | | | SB | F | 84.7 | F | 100.7 |

Based on the 2040 No Build analysis results; the following intersections exhibit on overall LOS of E or worse during the AM and/or PM peak hours.

- West Calaveras Boulevard & South Abel Street (CMP)
- East Calaveras Boulevard & Milpitas Boulevard (CMP)
- South Milpitas Boulevard & Yosemite Drive (non-CMP)
- South Milpitas Drive & Montague Expressway (CMP)
- Great Mall Parkway/East Capitol Avenue & Montague Expressway (CMP)
- Montague Expressway & McCandless Drive/Trade Center Boulevard (CMP)
- Montague Expressway & South Main Street/Oakland Road (CMP)

Table 12 summarizes the corresponding queue lengths for every movement in the study area for 2040 Build Conditions. All queues remain consistent with 2040 No-Build conditions on whether there is sufficient space without impacting neighboring movements.

Table 12: Horizon Year (2040) Build Queuing Analysis

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|---|---------|----------|----------------|--------------------------|------|
| | | | | | AM | PM |
| 1 | West Calaveras Boulevard & South Abel Street | Signal | EBL | 245 | 249 | 266 |
| | | | EBT | - | 391 | 1021 |
| | | | EBR | - | 0 | 0 |
| | | | WBL | 250 | 715 | 467 |
| | | | WBT | - | 1160 | 507 |
| | | | WBR | - | 70 | 75 |
| | | | NBL | 230 | 72 | 99 |
| | | | NBT | - | 204 | 254 |
| | | | NBR | 285 | 153 | 1086 |
| | | | SBL | 285 | 343 | 467 |
| | | | SBT | - | 272 | 180 |
| | | | SBR | 285 | 399 | 75 |
| 2 | East Calaveras Boulevard & Milpitas Boulevard | Signal | EBL | 460 | 138 | 273 |
| | | | EBT | - | 272 | 903 |
| | | | EBR | 200 | 110 | 913 |
| | | | WBL | 215 | 153 | 213 |
| | | | WBT | - | 1032 | 568 |
| | | | WBR | 270 | 179 | 89 |
| | | | NBL | 215 | 260 | 236 |
| | | | NBT | - | 149 | 188 |
| | | | NBR | 185 | 18 | 58 |
| | | | SBL | 215 | 102 | 145 |
| | | | SBT | - | 157 | 231 |
| | | | SBR | - | 293 | 99 |
| 3 | South Milpitas Boulevard & Yosemite Drive | Signal | EBL | - | 44 | 90 |
| | | | EBT | - | 17 | 61 |
| | | | WBL | - | 432 | 345 |
| | | | WBT | - | 132 | 76 |
| | | | NBL | 170 | 29 | 0 |
| | | | NBT | - | 233 | 244 |
| | | | SBL | 250 | 242 | 488 |
| | | | SBT | - | 141 | 191 |
| 4 | South Milpitas Boulevard & Ames Avenue/Driveway 1 | Signal | WBT | - | 35 | 94 |
| | | | NBT | - | 125 | 125 |
| | | | SBL | 140 | 61 | 47 |
| | | | SBT | - | 93 | 180 |

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|--|--------------|----------|----------------|--------------------------|------|
| | | | | | AM | PM |
| 5 | South Milpitas Boulevard & Driveway 2 | Stop-Control | NBL | - | 5 | 8 |
| | | | NBT | - | 0 | 0 |
| | | | EBL | - | 10 | 18 |
| | | | SBT | - | 0 | 0 |
| 6 | South Milpitas Boulevard & Gibraltar Drive | Signal | EBL | 100 | 23 | 30 |
| | | | EBR | - | 10 | 75 |
| | | | WBT | - | 0 | 0 |
| | | | NBL | 130 | 302 | 94 |
| | | | NBT | - | 182 | 163 |
| | | | SBL | 75 | 21 | 7 |
| | | | SBT | - | 883 | 1853 |
| | | | SBR | - | 0 | 0 |
| 7 | Gibraltar Drive & Driveway 3 | Stop-Control | EBL | - | 0 | 0 |
| | | | EBT | - | 0 | 0 |
| | | | WBL | - | 0 | 0 |
| | | | WBT | - | 0 | 0 |
| | | | NBL | - | 0 | 3 |
| | | | SBL | - | 3 | 3 |
| | | | SBT | - | 0 | 0 |
| 8 | Gibraltar Drive & Driveway 4 | Stop-Control | EBL | - | 0 | 0 |
| | | | EBT | - | 0 | 0 |
| | | | WBL | - | 5 | 5 |
| | | | SBL | - | 3 | 3 |
| 9 | South Milpitas Drive & Montague Expressway | Signal | EBL | 600 | 447 | 695 |
| | | | EBT | - | 408 | 1298 |
| | | | WBL | 300 | 152 | 147 |
| | | | WBT | - | 2471 | 656 |
| | | | WBR | 200 | 707 | 212 |
| | | | NBL | 185 | 28 | 39 |
| | | | NBT | - | 112 | 131 |
| | | | SBL | 215 | 221 | 744 |
| | | | SBT | - | 83 | 207 |
| | | | SBR | 215 | 871 | 1226 |

| ID | Intersection | Control | Movement | Storage Length | 95th % Queue Length (FT) | |
|----|---|---------|----------|----------------|--------------------------|------|
| | | | | | AM | PM |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | Signal | EBL | 680 | 269 | 332 |
| | | | EBT | - | 392 | 1223 |
| | | | EBR | 385 | 41 | 325 |
| | | | WBL | 400 | 121 | 245 |
| | | | WBT | - | 1615 | 664 |
| | | | WBR | 240 | 4322 | 666 |
| | | | NBL | 350 | 266 | 240 |
| | | | NBT | - | 812 | 298 |
| | | | NBR | 385 | 63 | 73 |
| | | | SBL | 365 | 686 | 1176 |
| | | | SBT | - | 190 | 1399 |
| | | | SBR | - | 0 | 53 |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | Signal | EBL | 190 | 115 | 200 |
| | | | EBT | - | 313 | 1583 |
| | | | EBR | 230 | 615 | 2483 |
| | | | WBL | 250 | 163 | 448 |
| | | | WBT | - | 1167 | 467 |
| | | | WBR | - | 84 | 12 |
| | | | NBL | 175 | 655 | 308 |
| | | | NBT | - | 778 | 370 |
| | | | NBR | - | 93 | 78 |
| | | | SBL | 170 | 77 | 75 |
| | | | SBT | - | 121 | 210 |
| | | | SBR | 165 | 173 | 68 |
| 12 | Montague Expressway & South Main Street/Oakland Road | Signal | EBL | 190 | 199 | 260 |
| | | | EBT | - | 609 | 2301 |
| | | | EBR | 230 | 213 | 222 |
| | | | WBL | 250 | 227 | 210 |
| | | | WBT | - | 2643 | 835 |
| | | | WBR | - | 94 | 135 |
| | | | NBL | 175 | 880 | 411 |
| | | | NBT | - | 214 | 334 |
| | | | NBR | - | 165 | 815 |
| | | | SBL | 170 | 191 | 290 |
| | | | SBT | - | 249 | 452 |
| | | | SBR | 165 | 1342 | 245 |

Queuing at the following intersections, highlighted in red in Table 12 above, have exceeded the storage length provided during the AM and/or PM peak hour. The non-CMP intersections are bolded for reference

- West Calaveras Boulevard & South Abel Street: The eastbound left, westbound left, northbound right, and southbound left have exceeded the storage length provided during the AM and/or PM peak hour.
- East Calaveras Boulevard & Milpitas Boulevard: The eastbound right and northbound left have exceeded the storage length provided during the AM and/or PM peak hour.
- **South Milpitas Boulevard & Yosemite Drive:** The southbound left has exceeded the storage length provided during the PM peak hour.
- **South Milpitas Boulevard & Gibraltar Drive:** The northbound left has exceeded the storage length provided during the AM peak hour.
- South Milpitas Drive & Montague Expressway: The eastbound left, westbound right, southbound left, and southbound right have exceeded the storage length provided during the AM and/or PM peak hour.
- Great Mall Parkway/East Capitol Avenue & Montague Expressway: The westbound right and southbound left have exceeded the storage length provided during the AM and PM peak hour.
- Montague Expressway & McCandless Drive/Trade Center Boulevard: The northbound left and southbound right have exceeded the storage length provided during the AM and/or PM peak hour.
- Montague Expressway & South Main Street/Oakland Road: The eastbound left, northbound left, southbound left, and southbound right have exceeded the storage length provided during the AM and/or PM peak hour.

Figure 33: Horizon (2040) Build Traffic Volumes 1

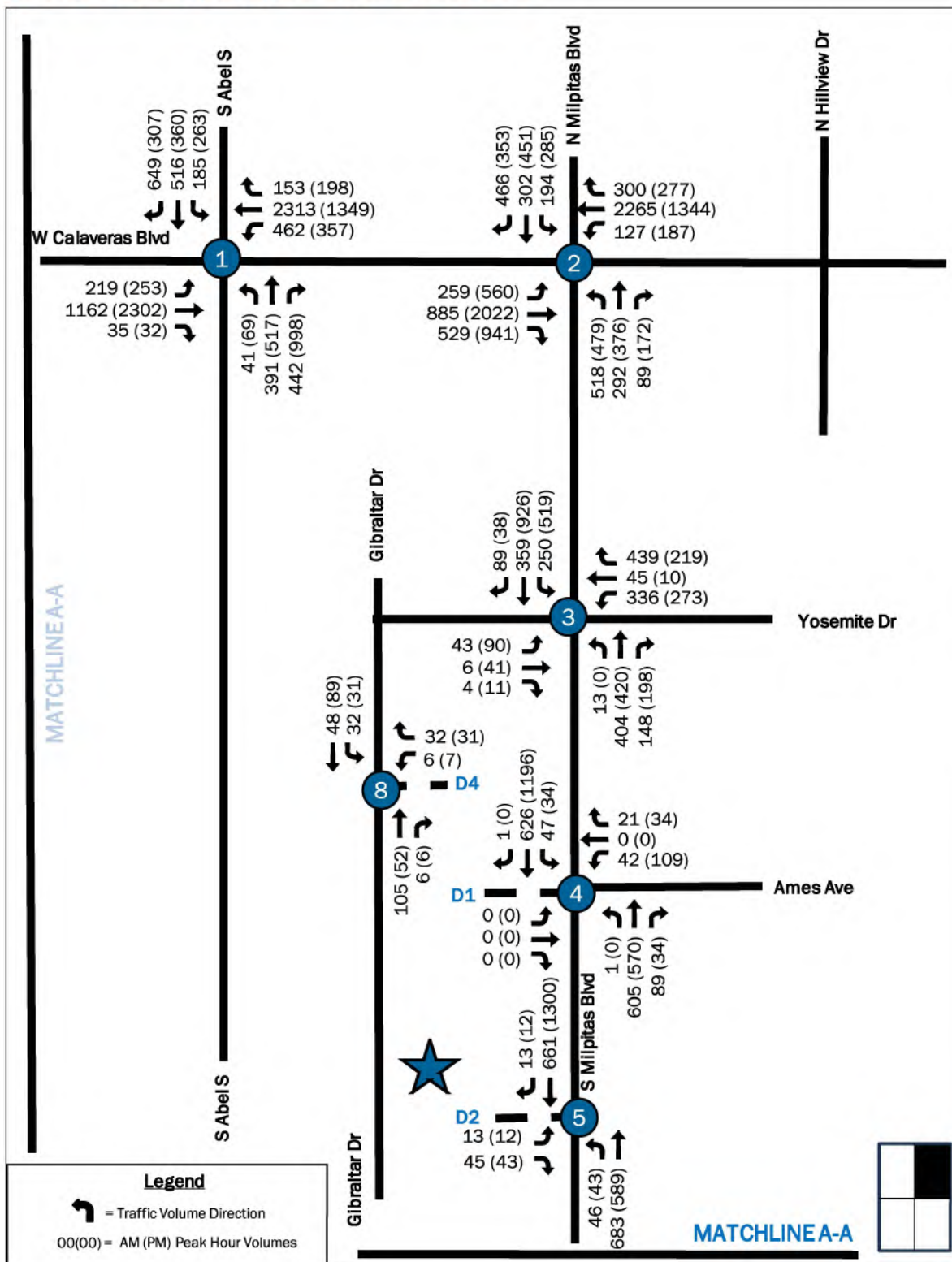


Figure 34: Horizon (2040) Build Traffic Volumes 2

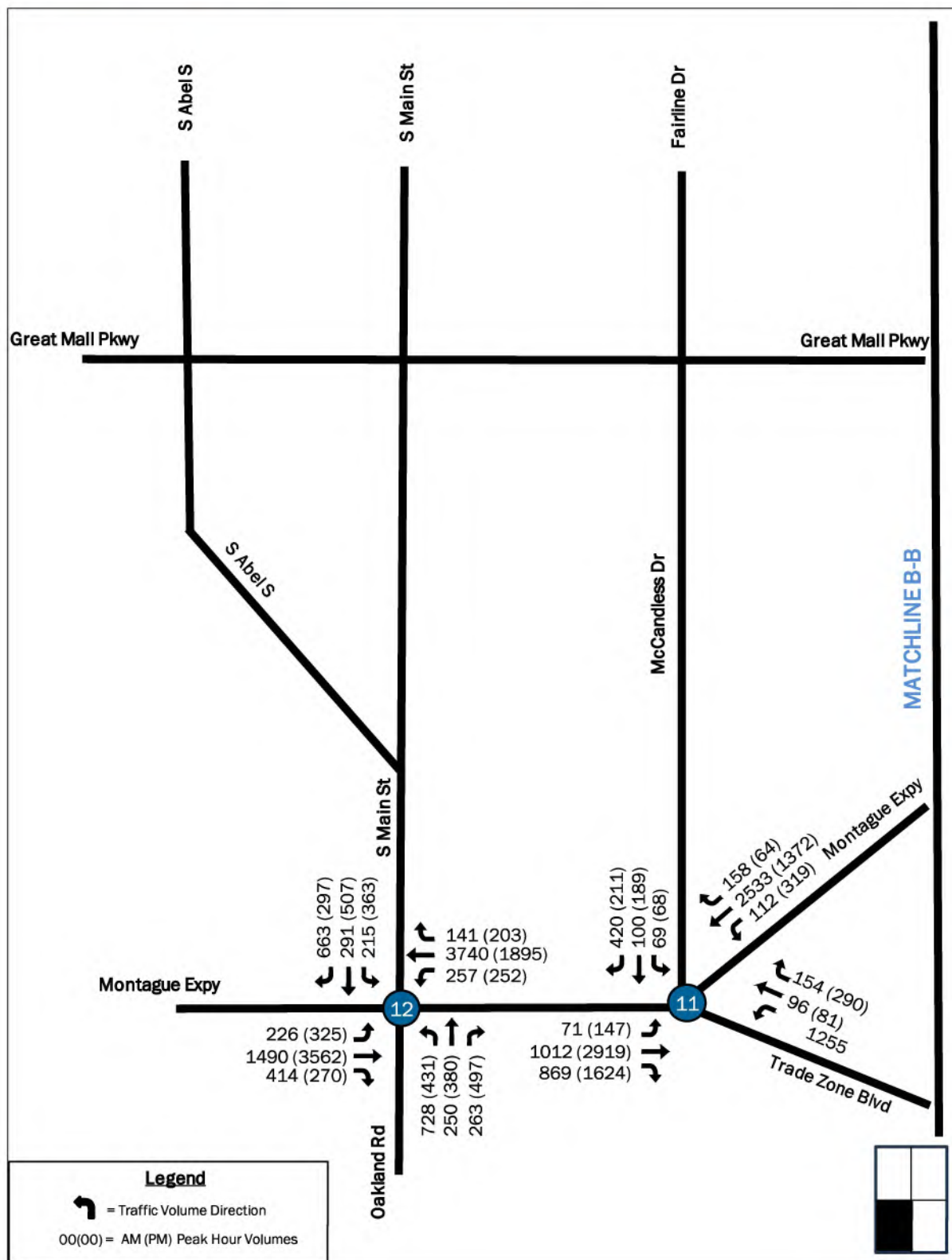
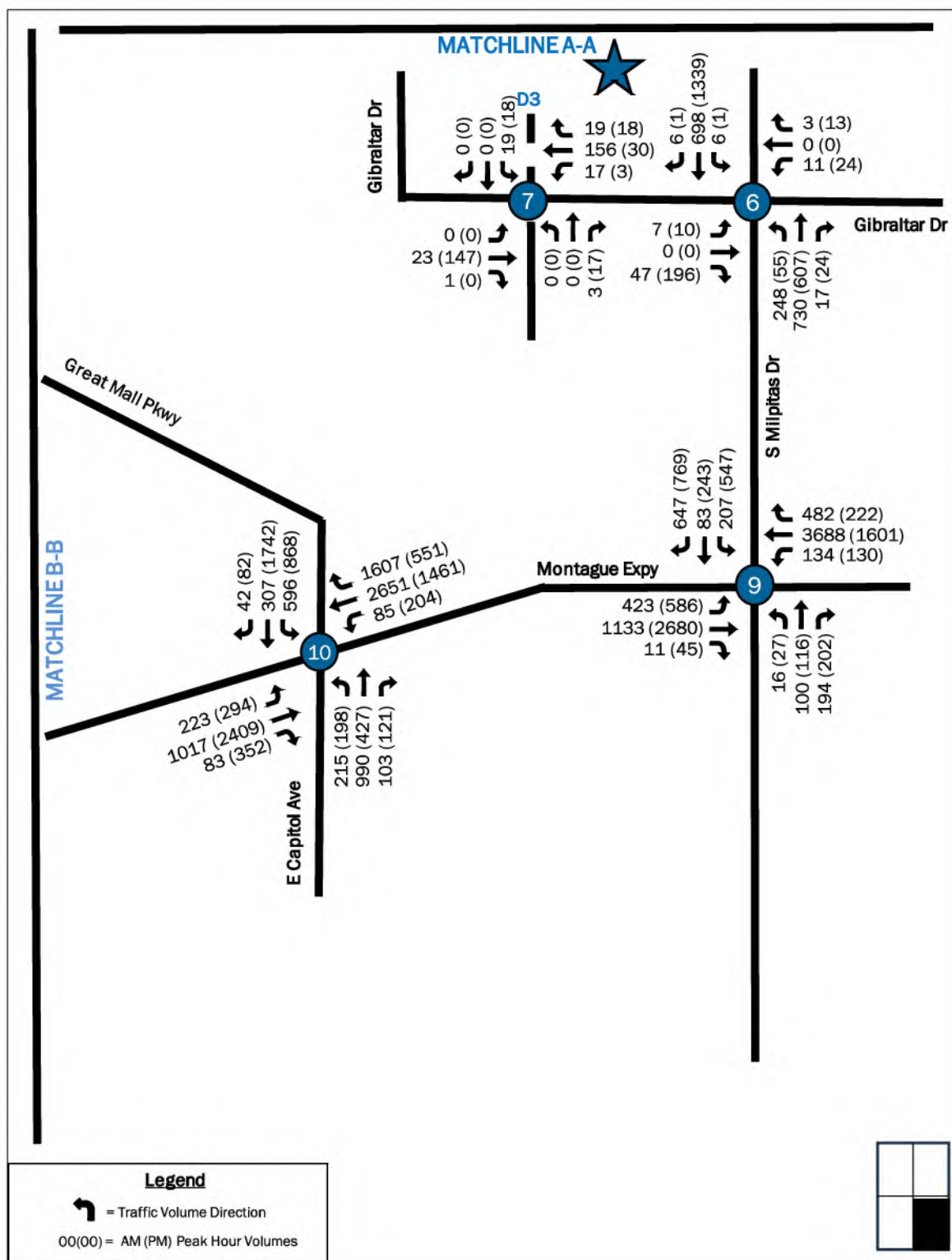


Figure 35: Horizon (2040) Build Traffic Volumes 3



D.9. Horizon Year (2040) Build with Mitigation Capacity Analysis

Mitigation measures may be considered at these non-CMP intersections. Under 2040 Horizon Year Build conditions, the intersection of South Milpitas Boulevard and Yosemite Drive is projected to operate at an overall unacceptable LOS E during the PM peak hour. However, the volume-to-capacity (v/c) ratio remained below 1.0, indicating that the unacceptable LOS is not due to a capacity constraint, but rather to the existing signal timing parameters. To address this, the signal timing was optimized by implementing a 90-second cycle length with adjusted phase splits. As a result, the intersection's LOS improved from LOS E to LOS C during the PM peak hour.

At South Milpitas Boulevard and Gibraltar Drive, the westbound approach is projected to operate at LOS E in the AM and LOS F in the PM peak hour during the 2040 Horizon year. However, since the intersection's overall LOS remains acceptable, no signal timing modifications are recommended at this time.

E. Conclusion

A new delivery center is planned for development along Gibraltar Drive in Milpitas, California. The proposed industrial building will encompass approximately 487,564 square feet and is designed to function as a last-mile distribution center. The site is expected to generate a net total of 3,812 daily trips with 260 occurring during the AM peak hour (131 inbound, 129 outbound) and 245 occurring during the PM peak hour (122 inbound, 123 outbound).

The study area includes both CMP-designated and non-CMP intersections. The following study locations are designated CMP intersections:

- West Calaveras Boulevard & South Abel Street
- East Calaveras Boulevard & Milpitas Boulevard
- South Milpitas Drive & Montague Expressway
- Great Mall Parkway/East Capitol Avenue & Montague Expressway
- Montague Expressway & McCandless Drive/Trade Center Boulevard
- Montague Expressway & South Main Street/Oakland Road

These intersections were included in the study area to reflect realistic traffic conditions. However, consistent with CMP guidelines, no project-specific mitigations were applied at these locations, regardless of queuing or capacity analysis findings.

The following study locations are not part of the CMP network:

- South Milpitas Boulevard & Yosemite Drive
- South Milpitas Boulevard & Ames Avenue/Driveway 1
- South Milpitas Boulevard & Driveway 2
- South Milpitas Boulevard & Gibraltar Drive
- Gibraltar Drive & Driveway 3
- Gibraltar Drive & Driveway 4

Adverse Effect Criteria

Per the City of Milpitas Transportation Analysis Guidelines, an adverse effect on intersection operations is identified when the addition of project-related traffic causes the operating standard to fall below LOS D, comparing baseline (No Build) to Build conditions.

For intersections already operating at LOS E or F under baseline conditions, an adverse effect is defined as either of the following:

- An increase in average critical delay of 4.0 seconds or more and an increase in the critical volume-to-capacity (V/C) ratio of 0.010 or more, or

- A decrease in average critical delay and an increase in the critical V/C ratio of 0.010 or more.

Intersections meeting either criterion are considered to experience adverse effects and should be evaluated for mitigation.

Intersection Analysis Results

A comparison of 2026 No Build to 2026 Build conditions indicates that the following CMP intersections are projected to operate at LOS E or F, with an increase in critical delay of at least 4.0 seconds and an increase in V/C ratio of 0.010 or more during the AM and/or PM peak periods:

- South Milpitas Drive & Montague Expressway
- Montague Expressway & South Main Street / Oakland Road

Under 2040 No Build vs. 2040 Build conditions, the following CMP intersections meet the same adverse effect criteria:

- East Calaveras Boulevard & Milpitas Boulevard
- South Milpitas Drive & Montague Expressway
- Montague Expressway & McCandless Drive / Trade Center Boulevard
- Montague Expressway & South Main Street / Oakland Road

Although mitigation for CMP intersections is not within the scope of this analysis, it is recommended that the City consider evaluating these locations further due to the identified operational impacts.

Non-CMP Intersections

All non-CMP intersections are projected to operate at LOS B or better under both 2026 and 2040 scenarios, with one exception. The intersection of South Milpitas Boulevard & Yosemite Drive is projected to operate at LOS E in both the 2040 No-Build and Build conditions. However, the critical delay and V/C ratio remained unchanged, and thus, no adverse effect is identified. Accordingly, no mitigation is recommended.

Summary of Findings and Recommendations

Based on the findings, the surrounding transportation network is expected to accommodate the project-generated traffic under both near-term and long-range conditions. No mitigation measures are required for non-CMP intersections, and while CMP intersections exhibit adverse effects, any potential improvements should be considered by the City in coordination with the appropriate CMP agency. A detailed capacity comparison of both the 2026 and 2040 No-Build and Build conditions is shown in Table 13 and Table 14.

Table 13: 2026 No-Build vs Build Capacity Comparison

| ID | Intersection | Peak | 2026 No-Build | | | 2026 Build | | | Δ 2026 Delay | Δ 2026 v/c |
|----|---|------|---------------|----------------|--------------|-------------|----------------|--------------|--------------|------------|
| | | | Overall LOS | Critical Delay | Critical v/c | Overall LOS | Critical Delay | Critical v/c | | |
| 1 | West Calaveras Boulevard & South Abel Street | AM | D | 89.0 | 1.10 | D | 115.3 | 1.10 | 26.3 | 0.00 |
| | | PM | F | 532.0 | 2.06 | F | 532.0 | 1.12 | 0.0 | -0.94 |
| 2 | East Calaveras Boulevard & Milpitas Boulevard | AM | D | 60.6 | 0.90 | D | 60.4 | 0.90 | -0.2 | 0.00 |
| | | PM | D | 59.6 | 0.83 | D | 59.3 | 0.83 | -0.3 | 0.00 |
| 3 | South Milpitas Boulevard & Yosemite Drive | AM | C | 66.0 | 0.91 | C | 66.0 | 0.91 | 0.0 | 0.00 |
| | | PM | C | 81.8 | 0.98 | C | 81.8 | 0.98 | 0.0 | 0.00 |
| 4 | South Milpitas Boulevard & Ames Avenue/Driveway 1 | AM | A | 44.9 | 0.84 | A | 134.4 | 0.63 | 89.5 | -0.21 |
| | | PM | A | 52.9 | 0.80 | A | 52.9 | 0.54 | 0.0 | -0.26 |
| 5 | South Milpitas Boulevard & Driveway 2 | AM | A | 8.5 | 0.00 | B | 11.5 | 0.10 | 3.0 | 0.10 |
| | | PM | A | 0.0 | - | B | 14.8 | 0.14 | 14.8 | N/A |
| 6 | South Milpitas Boulevard & Gibraltar Drive | AM | B | 73.8 | 0.87 | B | 136.2 | 0.88 | 62.4 | 0.01 |
| | | PM | A | 235.6 | 0.79 | A | 235.6 | 0.76 | 0.0 | -0.03 |
| 7 | Gibraltar Drive & Driveway 3 | AM | A | 8.4 | 0.01 | B | 10.0 | 0.03 | 1.6 | 0.02 |
| | | PM | A | 9.0 | 0.02 | A | 9.8 | 0.02 | 0.8 | 0.00 |
| 8 | Gibraltar Drive & Driveway 4 | AM | A | 0.0 | - | A | 9.5 | 0.05 | 9.5 | N/A |
| | | PM | A | 0.0 | - | A | 9.1 | 0.07 | 9.1 | N/A |
| 9 | South Milpitas Drive & Montague Expressway | AM | F | 173.0 | 1.14 | F | 205.3 | 1.22 | 32.3 | 0.08 |
| | | PM | F | 238.1 | 1.30 | F | 270.1 | 1.38 | 32.0 | 0.08 |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | AM | F | 232.4 | 1.38 | F | 232.4 | 1.38 | 0.0 | 0.00 |
| | | PM | E | 137.5 | 0.96 | E | 135.2 | 0.96 | -2.3 | 0.00 |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | AM | E | 185.3 | 1.26 | D | 185.3 | 1.26 | 0.0 | 0.00 |
| | | PM | F | 240.3 | 1.45 | F | 240.1 | 1.45 | -0.2 | 0.00 |
| 12 | Montague Expressway & South Main Street/Oakland Road | AM | E | 219.8 | 1.27 | E | 219.8 | 1.27 | 0.0 | 0.01 |
| | | PM | D | 100.1 | 0.88 | D | 100.1 | 0.90 | 0.0 | 0.02 |

Table 14: 2040 No-Build vs Build Capacity Comparison

| ID | Intersection | Peak | 2040 No-Build | | | 2040 Build | | | Δ 2040 Delay | Δ 2040 v/c |
|----|---|------|---------------|----------------|--------------|-------------|----------------|--------------|--------------|------------|
| | | | Overall LOS | Critical Delay | Critical v/c | Overall LOS | Critical Delay | Critical v/c | | |
| 1 | West Calaveras Boulevard & South Abel Street | AM | F | 316.8 | 1.580 | F | 316.8 | 1.580 | 0.0 | 0.000 |
| | | PM | F | 912.9 | 2.910 | F | 912.9 | 2.910 | 0.0 | 0.000 |
| 2 | East Calaveras Boulevard & Milpitas Boulevard | AM | F | 202.3 | 1.360 | F | 202.3 | 1.360 | 0.0 | 0.000 |
| | | PM | F | 159.2 | 1.260 | F | 171.8 | 1.290 | 12.6 | 0.030 |
| 3 | South Milpitas Boulevard & Yosemite Drive | AM | D | 63.3 | 1.100 | D | 107.5 | 1.099 | 44.2 | 0.000 |
| | | PM | E | 232.8 | 1.393 | E | 232.8 | 1.390 | 0.0 | 0.000 |
| 4 | South Milpitas Boulevard & Ames Avenue/Driveway 1 | AM | A | 56.6 | 0.730 | A | 134.4 | 0.730 | 77.8 | 0.000 |
| | | PM | A | 52.8 | 0.610 | A | 52.8 | 0.610 | 0.0 | 0.000 |
| 5 | South Milpitas Boulevard & Driveway 2 | AM | A | 9.1 | - | B | 13.2 | 0.122 | 4.1 | N/A |
| | | PM | A | 0.0 | - | C | 20.5 | 0.198 | 20.5 | N/A |
| 6 | South Milpitas Boulevard & Gibraltar Drive | AM | B | 120.6 | 0.910 | C | 120.6 | 0.920 | 0.0 | 0.010 |
| | | PM | B | 235.6 | 0.860 | B | 235.6 | 0.910 | 0.0 | 0.050 |
| 7 | Gibraltar Drive & Driveway 3 | AM | A | 8.5 | 0.013 | B | 10.6 | 0.035 | 2.1 | 0.022 |
| | | PM | A | 9.3 | 0.025 | B | 10.4 | 0.033 | 1.1 | 0.008 |
| 8 | Gibraltar Drive & Driveway 4 | AM | A | 0.0 | - | A | 9.2 | 0.052 | 9.2 | N/A |
| | | PM | A | 0.0 | - | A | 9.3 | 0.070 | 9.3 | N/A |
| 9 | South Milpitas Drive & Montague Expressway | AM | F | 369.4 | 1.610 | F | 406.5 | 1.690 | 37.1 | 0.080 |
| | | PM | F | 472.5 | 1.840 | F | 507.2 | 1.920 | 34.7 | 0.080 |
| 10 | Great Mall Parkway/East Capitol Avenue & Montague Expressway | AM | F | 717.7 | 2.430 | F | 717.7 | 2.430 | 0.0 | 0.000 |
| | | PM | F | 154.0 | 1.120 | F | 250.6 | 1.290 | 96.6 | 0.170 |
| 11 | Montague Expressway & McCandless Drive/Trade Center Boulevard | AM | F | 409.5 | 0.970 | F | 409.5 | 1.770 | 0.0 | 0.800 |
| | | PM | F | 694.1 | 2.450 | F | 694.1 | 2.450 | 0.0 | 0.000 |
| 12 | Montague Expressway & South Main Street/Oakland Road | AM | F | 446.5 | 1.790 | F | 446.5 | 1.787 | 0.0 | -0.003 |
| | | PM | F | 216.5 | 1.370 | F | 222.5 | 1.390 | 6.0 | 0.020 |

Appendix A Site Plan

Appendix B

Growth Rate Data

P_{2040} Projected volume

P_{2024} Current Volume

e = Constant

r = Growth Rate=

t = Time=16yrs

$$P_{2040} = P_{2024} e^{rt}$$

Average AM and PM Peak = USE 2.5% Growth

**Average
AM Peak**

| 1.14% | 1.43% | 1.83% | 2.38% | 3.01% | 4.64% | 4.82% | 1.91% | 1.99% | 2.29% | 3.16% | 2.60% |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | |

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
|------|------------------------------------|------------------------------------|---------------------------|------------------------------------|----------------------------------|------------------------------|---------------------------|--------------------------|-------------------------------------|-------------------------------------|-----------------------------------|-----|
| | I-880 SB Ramp/Calaveras Blvd | I-880 NB Ramp/Calaveras Blvd | Abel St/Calaveras Blvd | Milpitas Blvd/Calaveras Blvd | Hillview Dr/Calaveras Blvd | Milpitas Blvd/Yosemite Dr | Milpitas Blvd/Ames Ave | Main St/Montague Expy | Trade Zone Blvd/Montague Expy | Great Mall Pkwy/Montague Expy | Milpitas Blvd/Montague Expy | |
| 2040 | 4,860 | 5,390 | 5,930 | 6,200 | 5,810 | 2,950 | 2,070 | 7,900 | 6,310 | 7,640 | 7,780 | vpd |
| 2024 | 4,049 | 4,288 | 4,422 | 4,237 | 3,592 | 1,405 | 958 | 5,819 | 4,589 | 5,293 | 4,689 | vpd |

Approach

| | | | | | | | | | | | |
|----|------|------|------|------|------|-----|-----|------|------|------|------|
| 1 | 330 | 1150 | 660 | 630 | 140 | 220 | 80 | 220 | 270 | 30 | 420 |
| 2 | 190 | 450 | 770 | 250 | 270 | 810 | 960 | 300 | 90 | 940 | 430 |
| 3 | 1100 | 440 | 170 | 190 | 580 | 170 | 30 | 160 | 60 | 440 | 340 |
| 4 | 3240 | 3350 | 80 | 220 | 590 | 550 | 120 | 120 | 20 | 1090 | 220 |
| 5 | | | 2130 | 2200 | 2350 | 70 | 20 | 3710 | 2570 | 2130 | 3940 |
| 6 | | | 780 | 140 | 240 | 70 | 50 | 170 | 170 | 310 | 470 |
| 7 | | | 580 | 70 | 100 | 110 | 120 | 230 | 110 | 130 | 300 |
| 8 | | | 330 | 400 | 200 | 600 | 560 | 350 | 40 | 960 | 550 |
| 9 | | | 30 | 480 | 40 | 20 | 20 | 710 | 1210 | 420 | 160 |
| 10 | | | 90 | 590 | 70 | 70 | 50 | 360 | 940 | 190 | 180 |
| 11 | | | 110 | 850 | 1140 | 70 | 30 | 1380 | 790 | 800 | 690 |
| 12 | | | 200 | 180 | 90 | 190 | 30 | 190 | 40 | 200 | 80 |

P_{2040} Projected volume

P_{2024} = Current Volume

e = Constant

r = Growth Rate =

t = Time = 16 yrs

$$P_{2040} = P_{2024} e^{rt}$$

Average AM and PM Peak = USE 2.5% Growth

**Average
PM Peak**

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.04% | 0.96% | 3.33% | 2.81% | 2.20% | 3.20% | 4.49% | 1.80% | 0.77% | 2.42% | 2.51% | 2.32% |
| 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | |

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
|------|------------------------------------|------------------------------------|---------------------------|------------------------------------|----------------------------------|------------------------------|---------------------------|--------------------------|-------------------------------------|-------------------------------------|-----------------------------------|-----|
| | I-880 SB Ramp/Calaveras Blvd | I-880 NB Ramp/Calaveras Blvd | Abel St/Calaveras Blvd | Milpitas Blvd/Calaveras Blvd | Hillview Dr/Calaveras Blvd | Milpitas Blvd/Yosemite Dr | Milpitas Blvd/Ames Ave | Main St/Montague Expy | Trade Zone Blvd/Montague Expy | Great Mall Pkwy/Montague Expy | Milpitas Blvd/Montague Expy | |
| 2040 | 5,140 | 5,720 | 8,000 | 7,780 | 5,600 | 2,990 | 2,700 | 8,120 | 6,160 | 8,570 | 7,100 | vpd |
| 2024 | 4,350 | 4,906 | 4,693 | 4,963 | 3,937 | 1,793 | 1,316 | 6,087 | 5,445 | 5,823 | 4,748 | vpd |

Approach

| | | | | | | | | | | | |
|----|------|------|------|------|------|-----|------|------|------|------|------|
| 1 | 190 | 2670 | 220 | 370 | 120 | 120 | 20 | 300 | 110 | 80 | 190 |
| 2 | 450 | 860 | 290 | 470 | 210 | 490 | 1040 | 910 | 190 | 1550 | 730 |
| 3 | 2840 | 450 | 180 | 390 | 320 | 460 | 120 | 250 | 60 | 760 | 200 |
| 4 | 1660 | 1740 | 190 | 260 | 310 | 200 | 70 | 180 | 90 | 470 | 20 |
| 5 | | | 1320 | 1410 | 1560 | 70 | 40 | 1220 | 900 | 1240 | 1590 |
| 6 | | | 490 | 210 | 270 | 310 | 140 | 290 | 250 | 380 | 190 |
| 7 | | | 1130 | 230 | 300 | 150 | 100 | 310 | 200 | 200 | 310 |
| 8 | | | 840 | 520 | 330 | 600 | 1070 | 360 | 90 | 680 | 360 |
| 9 | | | 90 | 700 | 40 | 20 | 20 | 250 | 640 | 310 | 40 |
| 10 | | | 70 | 790 | 100 | 310 | 30 | 590 | 1470 | 400 | 50 |
| 11 | | | 2660 | 1940 | 1860 | 70 | 30 | 3120 | 2060 | 2290 | 3270 |
| 12 | | | 520 | 490 | 180 | 190 | 20 | 340 | 100 | 210 | 150 |

Appendix C

Traffic Counts

National Data & Surveying Services

Intersection Turning Movement Count

Location: N Abel St/S Abel St & SR 237/W Calaveras Blvd/Calaveras Blvd/Carlo St
City: Milpitas
Control: Signalized

Project ID: 24-080364-003
Date: 11/19/2024

Data - Total

| NS/EW Streets: | | N Abel St/S Abel St | | | | N Abel St/S Abel St | | | | SR 237/W Calaveras Blvd/Calaveras Blvd/Carlo St | | | | SR 237/W Calaveras Blvd/Calaveras Blvd/Carlo St | | | | |
|------------------|---------|---------------------|---------|---------|---------|---------------------|---------|---------|---------|---|-----------|-----------|---------|---|---------|---------|---------|-------|
| AM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | | 1 NL | 2 NT | 1 NR | 0 NU | 1 SL | 1 ST | 1 SR | 0 SU | 1 EL | 2.5 ET | 0.5 ER | 0 EU | 1 WL | 3 WT | 1 WR | 0 WU | |
| | 7:00 AM | 0 | 8 | 20 | 0 | 14 | 22 | 56 | 0 | 22 | 132 | 4 | 1 | 24 | 404 | 8 | 0 | 715 |
| | 7:15 AM | 2 | 31 | 36 | 0 | 25 | 26 | 101 | 0 | 25 | 139 | 7 | 3 | 19 | 471 | 16 | 0 | 901 |
| | 7:30 AM | 2 | 59 | 60 | 0 | 28 | 52 | 108 | 0 | 39 | 216 | 5 | 0 | 33 | 413 | 14 | 0 | 1029 |
| | 7:45 AM | 9 | 64 | 100 | 0 | 20 | 73 | 108 | 0 | 39 | 177 | 5 | 3 | 65 | 334 | 11 | 0 | 1008 |
| | 8:00 AM | 2 | 97 | 78 | 0 | 28 | 72 | 118 | 0 | 30 | 182 | 6 | 2 | 86 | 422 | 19 | 0 | 1142 |
| | 8:15 AM | 5 | 82 | 70 | 0 | 37 | 108 | 108 | 0 | 38 | 222 | 7 | 2 | 73 | 410 | 45 | 0 | 1207 |
| | 8:30 AM | 12 | 21 | 50 | 0 | 40 | 94 | 103 | 0 | 32 | 180 | 6 | 2 | 87 | 370 | 28 | 0 | 1025 |
| | 8:45 AM | 4 | 29 | 87 | 0 | 58 | 82 | 110 | 0 | 33 | 204 | 5 | 3 | 94 | 310 | 29 | 0 | 1048 |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 36 | 391 | 501 | 0 | 250 | 529 | 812 | 0 | 258 | 1452 | 45 | 16 | 481 | 3134 | 170 | 0 | 8075 |
| PEAK HR : | | 08:00 AM - 09:00 AM | | | | 15.71% | 33.25% | 51.04% | 0.00% | 14.57% | 81.99% | 2.54% | 0.90% | 12.71% | 82.80% | 4.49% | 0.00% | |
| PEAK HR VOL : | | 23 | 229 | 285 | 0 | 163 | 356 | 439 | 0 | 133 | 788 | 24 | 9 | 340 | 1512 | 121 | 0 | 4422 |
| PEAK HR FACTOR : | | 0.479 | 0.590 | 0.819 | 0.000 | 0.703 | 0.824 | 0.930 | 0.000 | 0.875 | 0.887 | 0.857 | 0.750 | 0.904 | 0.896 | 0.672 | 0.000 | 0.916 |
| | | 0.758 | | | | 0.947 | | | | 0.887 | | | | 0.934 | | | | |
| PM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | | 1 NL | 2 NT | 1 NR | 0 NU | 1 SL | 1 ST | 1 SR | 0 SU | 1 EL | 2.5 ET | 0.5 ER | 0 EU | 1 WL | 3 WT | 1 WR | 0 WU | |
| | 4:00 PM | 12 | 55 | 130 | 0 | 40 | 44 | 64 | 1 | 51 | 368 | 4 | 0 | 58 | 208 | 22 | 0 | 1057 |
| | 4:15 PM | 19 | 46 | 122 | 0 | 36 | 38 | 58 | 0 | 48 | 422 | 9 | 0 | 62 | 243 | 23 | 0 | 1126 |
| | 4:30 PM | 8 | 53 | 134 | 0 | 38 | 68 | 56 | 0 | 43 | 417 | 7 | 2 | 58 | 247 | 22 | 0 | 1153 |
| | 4:45 PM | 13 | 75 | 156 | 0 | 42 | 46 | 56 | 0 | 34 | 433 | 6 | 1 | 53 | 212 | 31 | 0 | 1158 |
| | 5:00 PM | 7 | 93 | 192 | 0 | 48 | 46 | 47 | 0 | 50 | 336 | 8 | 0 | 60 | 224 | 35 | 0 | 1146 |
| | 5:15 PM | 10 | 92 | 185 | 0 | 55 | 60 | 43 | 0 | 43 | 344 | 1 | 0 | 72 | 249 | 40 | 0 | 1194 |
| | 5:30 PM | 16 | 89 | 155 | 0 | 42 | 73 | 59 | 0 | 39 | 442 | 5 | 0 | 51 | 192 | 32 | 0 | 1195 |
| | 5:45 PM | 14 | 74 | 140 | 0 | 32 | 64 | 58 | 0 | 38 | 408 | 8 | 0 | 58 | 223 | 26 | 0 | 1143 |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 99 | 577 | 1214 | 0 | 333 | 439 | 441 | 1 | 346 | 3170 | 48 | 3 | 472 | 1798 | 231 | 0 | 9172 |
| PEAK HR : | | 04:45 PM - 05:45 PM | | | | 27.43% | 36.16% | 36.33% | 0.08% | 9.70% | 88.87% | 1.35% | 0.08% | 18.67% | 71.89% | 9.24% | 0.00% | |
| PEAK HR VOL : | | 46 | 349 | 688 | 0 | 187 | 225 | 205 | 0 | 166 | 1555 | 20 | 1 | 236 | 877 | 138 | 0 | 4693 |
| PEAK HR FACTOR : | | 0.719 | 0.938 | 0.896 | 0.000 | 0.850 | 0.771 | 0.869 | 0.000 | 0.830 | 0.880 | 0.625 | 0.250 | 0.819 | 0.881 | 0.863 | 0.000 | 0.982 |
| | | 0.927 | | | | 0.886 | | | | 0.896 | | | | 0.866 | | | | |

National Data & Surveying Services

Intersection Turning Movement Count

Location: N Milpitas Blvd/S Milpitas Blvd & SR 237/E Calaveras Blvd/Calaveras Blvd
City: Milpitas
Control: Signalized

Project ID: 24-080364-004
Date: 11/19/2024

Data - Total

| NS/EW Streets: | | N Milpitas Blvd/S Milpitas Blvd | | | | N Milpitas Blvd/S Milpitas Blvd | | | | SR 237/E Calaveras Blvd/Calaveras Blvd | | | | SR 237/E Calaveras Blvd/Calaveras Blvd | | | | | | |
|------------------|---------|---------------------------------|--------|--------|-------|---------------------------------|--------|--------|-------|--|--------|--------|--------|--|--------|--------|-------|-------|-------|-------|
| AM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | | | |
| | | 2 | 2 | 1 | 0 | 2 | 2 | 1 | 0 | 2 | 3 | 1 | 0 | 1 | 2 | 1 | 0 | | | |
| | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL | | |
| | 7:00 AM | 64 | 17 | 9 | 0 | 9 | 19 | 43 | 0 | 22 | 83 | 54 | 1 | 6 | 355 | 20 | 2 | 704 | | |
| | 7:15 AM | 55 | 18 | 10 | 0 | 8 | 18 | 68 | 0 | 22 | 100 | 53 | 1 | 12 | 430 | 29 | 4 | 828 | | |
| | 7:30 AM | 44 | 21 | 12 | 0 | 15 | 29 | 70 | 0 | 30 | 182 | 76 | 0 | 12 | 347 | 28 | 2 | 868 | | |
| | 7:45 AM | 66 | 32 | 9 | 0 | 22 | 40 | 47 | 0 | 38 | 142 | 94 | 0 | 12 | 382 | 38 | 7 | 929 | | |
| | 8:00 AM | 99 | 51 | 10 | 1 | 35 | 54 | 77 | 0 | 39 | 149 | 75 | 0 | 16 | 360 | 63 | 7 | 1036 | | |
| | 8:15 AM | 86 | 70 | 12 | 0 | 37 | 52 | 88 | 0 | 53 | 159 | 110 | 1 | 8 | 396 | 51 | 10 | 1133 | | |
| | 8:30 AM | 75 | 44 | 20 | 0 | 35 | 58 | 102 | 1 | 43 | 146 | 56 | 0 | 13 | 388 | 50 | 4 | 1035 | | |
| 8:45 AM | 83 | 27 | 30 | 1 | 34 | 43 | 75 | 0 | 43 | 197 | 97 | 0 | 20 | 331 | 48 | 4 | 1033 | | | |
| TOTAL VOLUMES : | | 572 | 280 | 112 | NU | 195 | 313 | 570 | SU | 1 | 290 | 1158 | 615 | 3 | 99 | 2989 | 327 | WU | TOTAL | |
| APPROACH %'s : | | 59.21% | 28.99% | 11.59% | 0.21% | 18.07% | 29.01% | 52.83% | 0.09% | 1 | 14.04% | 56.05% | 29.77% | 0.15% | 2.87% | 86.51% | 9.46% | 1.16% | 7566 | |
| PEAK HR : | | 08:00 AM - 09:00 AM | | | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | | 343 | 192 | 72 | 2 | 141 | 207 | 342 | 1 | 178 | 651 | 338 | 1 | 57 | 1475 | 212 | 25 | 4237 | | |
| PEAK HR FACTOR : | | 0.866 | 0.686 | 0.600 | 0.500 | 0.953 | 0.892 | 0.838 | 0.250 | 0.840 | 0.826 | 0.768 | 0.250 | 0.713 | 0.931 | 0.841 | 0.625 | 0.935 | | |
| | | 0.906 | | | | 0.881 | | | | 0.866 | | | | 0.951 | | | | | | |
| PM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | | | |
| | | 2 | 2 | 1 | 0 | 2 | 2 | 1 | 0 | 2 | 3 | 1 | 0 | 1 | 2 | 1 | 0 | | | |
| | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL | | |
| | 4:00 PM | 87 | 59 | 23 | 1 | 55 | 60 | 68 | 1 | 101 | 327 | 110 | 2 | 20 | 201 | 45 | 9 | 1169 | | |
| | 4:15 PM | 72 | 42 | 18 | 0 | 33 | 54 | 70 | 3 | 99 | 366 | 121 | 4 | 14 | 234 | 39 | 6 | 1175 | | |
| | 4:30 PM | 112 | 52 | 31 | 0 | 37 | 57 | 64 | 2 | 94 | 359 | 126 | 1 | 25 | 198 | 39 | 4 | 1201 | | |
| | 4:45 PM | 85 | 65 | 28 | 0 | 34 | 56 | 66 | 0 | 77 | 387 | 139 | 0 | 22 | 193 | 47 | 5 | 1204 | | |
| | 5:00 PM | 90 | 66 | 38 | 0 | 53 | 61 | 73 | 1 | 96 | 332 | 160 | 2 | 28 | 221 | 42 | 2 | 1265 | | |
| | 5:15 PM | 87 | 61 | 30 | 0 | 35 | 69 | 56 | 2 | 80 | 334 | 139 | 0 | 24 | 236 | 38 | 2 | 1193 | | |
| | 5:30 PM | 73 | 72 | 18 | 1 | 44 | 98 | 53 | 0 | 96 | 382 | 150 | 3 | 36 | 214 | 60 | 1 | 1301 | | |
| 5:45 PM | 51 | 54 | 22 | 0 | 56 | 76 | 56 | 1 | 98 | 314 | 164 | 2 | 23 | 234 | 47 | 2 | 1200 | | | |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL | | |
| APPROACH %'s : | | 65.17 | 47.1 | 208 | 2 | 347 | 531 | 506 | 10 | 741 | 2801 | 1109 | 14 | 192 | 1731 | 357 | 31 | 9708 | | |
| | | 49.10% | 35.20% | 15.55% | 0.15% | 24.89% | 38.09% | 36.30% | 0.72% | 15.88% | 60.04% | 23.77% | 0.30% | 8.31% | 74.90% | 15.45% | 1.34% | | | |
| PEAK HR : | | 04:45 PM - 05:45 PM | | | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | | 335 | 264 | 114 | 1 | 166 | 284 | 248 | 3 | 349 | 1435 | 588 | 5 | 110 | 864 | 187 | 10 | 4963 | | |
| PEAK HR FACTOR : | | 0.931 | 0.917 | 0.750 | 0.250 | 0.783 | 0.724 | 0.849 | 0.375 | 0.909 | 0.927 | 0.919 | 0.417 | 0.764 | 0.915 | 0.779 | 0.500 | 0.954 | | |
| | | 0.920 | | | | 0.899 | | | | 0.942 | | | | 0.941 | | | | | | |

National Data & Surveying Services

Intersection Turning Movement Count

Location: S Milpitas Blvd & Yosemite Dr
City: Milpitas
Control: Signalized

Project ID: 24-080364-006
Date: 11/19/2024

Data - Total

| NS/EW Streets: | | S Milpitas Blvd | | | | S Milpitas Blvd | | | | Yosemite Dr | | | | Yosemite Dr | | | | |
|------------------|------------|---------------------|--------|--------|------------|-----------------|--------|-------|-----------|-------------|--------|--------|-----------|-------------|-------|--------|-------|-------|
| AM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | | |
| | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL | |
| | 7:00 AM | 2 | 49 | 14 | 0 | 22 | 40 | 5 | 0 | 1 | 1 | 0 | 0 | 36 | 4 | 33 | 0 | 207 |
| | 7:15 AM | 0 | 39 | 8 | 0 | 16 | 44 | 10 | 0 | 2 | 0 | 0 | 0 | 37 | 5 | 27 | 0 | 188 |
| | 7:30 AM | 1 | 42 | 16 | 0 | 33 | 63 | 7 | 0 | 1 | 1 | 0 | 0 | 48 | 6 | 37 | 0 | 255 |
| | 7:45 AM | 3 | 58 | 26 | 0 | 34 | 56 | 8 | 0 | 1 | 0 | 2 | 0 | 61 | 3 | 57 | 0 | 309 |
| | 8:00 AM | 0 | 72 | 28 | 0 | 49 | 47 | 6 | 0 | 4 | 2 | 0 | 0 | 61 | 9 | 97 | 0 | 375 |
| | 8:15 AM | 3 | 71 | 23 | 0 | 59 | 62 | 13 | 0 | 1 | 0 | 0 | 0 | 58 | 8 | 77 | 0 | 375 |
| | 8:30 AM | 3 | 63 | 23 | 0 | 26 | 67 | 11 | 0 | 2 | 2 | 1 | 0 | 47 | 10 | 65 | 0 | 320 |
| 8:45 AM | 1 | 84 | 23 | 0 | 36 | 64 | 13 | 0 | 2 | 2 | 2 | 0 | 39 | 6 | 63 | 0 | 335 | |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 13 | 478 | 161 | 0 | 275 | 443 | 73 | 0 | 14 | 8 | 5 | 0 | 387 | 51 | 456 | 0 | 2364 |
| | | 1.99% | 73.31% | 24.69% | 0.00% | 34.77% | 56.01% | 9.23% | 0.00% | 51.85% | 29.63% | 18.52% | 0.00% | 43.29% | 5.70% | 51.01% | 0.00% | |
| PEAK HR : | | 08:00 AM - 09:00 AM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | | 7 | 290 | 97 | 0 | 170 | 240 | 43 | 0 | 9 | 6 | 3 | 0 | 205 | 33 | 302 | 0 | 1405 |
| PEAK HR FACTOR : | | 0.583 | 0.863 | 0.866 | 0.000 | 0.720 | 0.896 | 0.827 | 0.000 | 0.563 | 0.750 | 0.375 | 0.000 | 0.840 | 0.825 | 0.778 | 0.000 | 0.937 |
| | | 0.912 | | | | 0.845 | | | | 0.750 | | | | 0.808 | | | | |
| PM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | | |
| | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL | |
| | 4:00 PM | 0 | 68 | 22 | 0 | 81 | 108 | 4 | 0 | 13 | 3 | 3 | 0 | 37 | 1 | 35 | 0 | 375 |
| | 4:15 PM | 0 | 47 | 27 | 0 | 76 | 109 | 1 | 0 | 6 | 1 | 1 | 0 | 36 | 0 | 39 | 0 | 343 |
| | 4:30 PM | 1 | 90 | 29 | 0 | 75 | 105 | 5 | 0 | 18 | 11 | 7 | 0 | 32 | 0 | 34 | 0 | 407 |
| | 4:45 PM | 1 | 86 | 29 | 0 | 77 | 109 | 2 | 0 | 10 | 11 | 2 | 0 | 37 | 3 | 44 | 0 | 411 |
| | 5:00 PM | 0 | 55 | 29 | 0 | 85 | 156 | 2 | 0 | 12 | 10 | 3 | 0 | 40 | 5 | 44 | 0 | 441 |
| | 5:15 PM | 0 | 95 | 44 | 0 | 82 | 139 | 1 | 0 | 10 | 7 | 2 | 0 | 40 | 0 | 36 | 0 | 456 |
| | 5:30 PM | 0 | 65 | 29 | 0 | 84 | 163 | 1 | 0 | 9 | 5 | 2 | 0 | 51 | 1 | 33 | 0 | 443 |
| 5:45 PM | 0 | 60 | 31 | 0 | 98 | 158 | 1 | 0 | 9 | 6 | 1 | 0 | 52 | 1 | 35 | 1 | 453 | |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 2 | 566 | 240 | 0 | 658 | 1047 | 17 | 0 | 87 | 54 | 21 | 0 | 325 | 11 | 300 | 1 | 3329 |
| | | 0.25% | 70.05% | 29.70% | 0.00% | 38.21% | 60.80% | 0.99% | 0.00% | 53.70% | 33.33% | 12.96% | 0.00% | 51.02% | 1.73% | 47.10% | 0.16% | |
| PEAK HR : | | 05:00 PM - 06:00 PM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | | 0 | 275 | 133 | 0 | 349 | 616 | 5 | 0 | 40 | 28 | 8 | 0 | 183 | 7 | 148 | 1 | 1793 |
| PEAK HR FACTOR : | | 0.000 | 0.724 | 0.756 | 0.000 | 0.890 | 0.945 | 0.625 | 0.000 | 0.833 | 0.700 | 0.667 | 0.000 | 0.880 | 0.350 | 0.841 | 0.250 | 0.983 |
| | | 0.734 | | | | 0.944 | | | | 0.760 | | | | 0.952 | | | | |

National Data & Surveying Services

Intersection Turning Movement Count

Location: S Milpitas Blvd & Gibraltar Dr/ABC Printing Dwy
City: Milpitas
Control: Signalized

Project ID: 24-080364-010
Date: 11/19/2024

Data - Total

| NS/EW Streets: | S Milpitas Blvd | | | | S Milpitas Blvd | | | | Gibraltar Dr/ABC Printing Dwy | | | | Gibraltar Dr/ABC Printing Dwy | | | | | |
|------------------|---------------------|---------|---------|---------|-----------------|---------|---------|---------|-------------------------------|---------|---------|---------|-------------------------------|---------|---------|---------|-------|-----|
| AM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | | |
| | 1 NL | 2 NT | 0 NR | 0 NU | 1 SL | 2 ST | 0 SR | 0 SU | 1 EL | 0 ET | 1 ER | 0 EU | 0 WL | 1 WT | 0 WR | 0 WU | TOTAL | |
| | 7:00 AM | 35 | 76 | 4 | 8 | 2 | 67 | 0 | 0 | 1 | 0 | 6 | 0 | 2 | 0 | 3 | 0 | 204 |
| | 7:15 AM | 27 | 67 | 3 | 9 | 1 | 76 | 7 | 0 | 0 | 0 | 4 | 0 | 8 | 0 | 2 | 0 | 204 |
| | 7:30 AM | 39 | 69 | 0 | 15 | 0 | 109 | 2 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 242 |
| | 7:45 AM | 49 | 112 | 0 | 2 | 0 | 126 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 295 |
| | 8:00 AM | 28 | 125 | 0 | 3 | 0 | 104 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 263 |
| | 8:15 AM | 32 | 117 | 10 | 0 | 3 | 110 | 1 | 0 | 1 | 0 | 2 | 0 | 8 | 0 | 1 | 0 | 285 |
| | 8:30 AM | 35 | 107 | 1 | 0 | 1 | 100 | 2 | 0 | 1 | 0 | 7 | 0 | 0 | 0 | 1 | 0 | 255 |
| | 8:45 AM | 29 | 131 | 0 | 1 | 0 | 90 | 2 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 258 |
| TOTAL VOLUMES : | 274 | 804 | 18 | 38 | SL | 782 | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL | |
| APPROACH %'s : | 24.16% | 70.90% | 1.59% | 3.35% | | 97.26% | 1.87% | 0.00% | 17.95% | 0.00% | 82.05% | 0.00% | 62.07% | 0.00% | 37.93% | 0.00% | 2006 | |
| PEAK HR : | 07:45 AM - 08:45 AM | | | | | | | | | | | | | | | | TOTAL | |
| PEAK HR VOL : | 144 | 461 | 11 | 5 | | 440 | 4 | 0 | 5 | 0 | 14 | 0 | 8 | 0 | 2 | 0 | 1098 | |
| PEAK HR FACTOR : | 0.735 | 0.922 | 0.275 | 0.417 | 0.333 | 0.873 | 0.500 | 0.000 | 0.625 | 0.000 | 0.500 | 0.000 | 0.250 | 0.000 | 0.500 | 0.000 | 0.931 | |
| | 0.952 | | | | 0.882 | | | | 0.594 | | | | 0.278 | | | | | |
| PM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | | |
| | 1 NL | 0 NT | 0 NR | 0 NU | 1 SL | 2 ST | 0 SR | 0 SU | 1 EL | 0 ET | 0 ER | 0 EU | 0 WL | 1 WT | 0 WR | 0 WU | TOTAL | |
| | 4:00 PM | 3 | 87 | 3 | 1 | 3 | 159 | 1 | 0 | 1 | 0 | 21 | 0 | 0 | 1 | 0 | 280 | |
| | 4:15 PM | 3 | 77 | 10 | 0 | 10 | 159 | 0 | 0 | 0 | 17 | 0 | 2 | 0 | 0 | 0 | 278 | |
| | 4:30 PM | 5 | 96 | 1 | 0 | 0 | 170 | 1 | 0 | 8 | 0 | 60 | 0 | 1 | 0 | 2 | 344 | |
| | 4:45 PM | 10 | 113 | 1 | 0 | 1 | 175 | 0 | 0 | 5 | 0 | 31 | 0 | 1 | 0 | 1 | 338 | |
| | 5:00 PM | 8 | 87 | 2 | 0 | 0 | 215 | 1 | 0 | 3 | 0 | 34 | 0 | 0 | 0 | 1 | 351 | |
| | 5:15 PM | 4 | 123 | 3 | 0 | 0 | 210 | 0 | 0 | 1 | 0 | 32 | 0 | 0 | 0 | 2 | 375 | |
| | 5:30 PM | 4 | 85 | 8 | 1 | 1 | 230 | 0 | 0 | 2 | 0 | 34 | 0 | 10 | 0 | 5 | 380 | |
| | 5:45 PM | 3 | 85 | 3 | 1 | 0 | 218 | 0 | 0 | 1 | 0 | 15 | 0 | 6 | 0 | 1 | 333 | |
| TOTAL VOLUMES : | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL | |
| APPROACH %'s : | 40 | 753 | 31 | 3 | 15 | 1536 | 3 | 0 | 21 | 0 | 244 | 0 | 20 | 0 | 13 | 0 | 2679 | |
| | 4.84% | 91.05% | 3.75% | 0.36% | 0.97% | 98.84% | 0.19% | 0.00% | 7.92% | 0.00% | 92.08% | 0.00% | 60.61% | 0.00% | 39.39% | 0.00% | | |
| PEAK HR : | 04:45 PM - 05:45 PM | | | | | | | | | | | | | | | | TOTAL | |
| PEAK HR VOL : | 26 | 408 | 14 | 1 | 2 | 830 | 1 | 0 | 11 | 0 | 131 | 0 | 11 | 0 | 9 | 0 | 1444 | |
| PEAK HR FACTOR : | 0.650 | 0.829 | 0.438 | 0.250 | 0.500 | 0.902 | 0.250 | 0.000 | 0.550 | 0.000 | 0.963 | 0.000 | 0.275 | 0.000 | 0.450 | 0.000 | 0.950 | |
| | 0.863 | | | | 0.902 | | | | 0.959 | | | | 0.333 | | | | | |

National Data & Surveying Services

Intersection Turning Movement Count

Location: S Milpitas Blvd & CR G4/Montague Expy
City: Milpitas
Control: Signalized

Project ID: 24-080364-013
Date: 11/19/2024

Data - Total

| NS/EW Streets: | S Milpitas Blvd | | | | S Milpitas Blvd | | | | CR G4/Montague Expy | | | | CR G4/Montague Expy | | | |
|------------------|---------------------|--------|--------|-------|-----------------|--------|--------|-------|---------------------|--------|-------|-------|---------------------|--------|--------|-------|
| AM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | |
| | 2 | 2 | 0 | 0 | 2 | 1 | 1 | 0 | 2 | 3.5 | 0.5 | 0 | 2 | 4 | 1 | 0 |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU |
| 7:00 AM | 2 | 6 | 12 | 0 | 16 | 9 | 61 | 0 | 34 | 96 | 0 | 4 | 5 | 460 | 65 | 3 |
| 7:15 AM | 1 | 14 | 21 | 0 | 25 | 6 | 62 | 0 | 43 | 96 | 2 | 3 | 7 | 538 | 48 | 3 |
| 7:30 AM | 4 | 8 | 18 | 0 | 23 | 10 | 95 | 0 | 38 | 130 | 0 | 0 | 9 | 717 | 66 | 3 |
| 7:45 AM | 2 | 19 | 34 | 0 | 25 | 19 | 103 | 0 | 57 | 182 | 3 | 9 | 21 | 684 | 81 | 2 |
| 8:00 AM | 2 | 19 | 27 | 0 | 34 | 12 | 93 | 0 | 67 | 229 | 2 | 5 | 18 | 599 | 65 | 6 |
| 8:15 AM | 3 | 22 | 42 | 0 | 26 | 15 | 116 | 0 | 50 | 171 | 1 | 3 | 13 | 590 | 70 | 3 |
| 8:30 AM | 3 | 8 | 27 | 0 | 28 | 10 | 102 | 0 | 64 | 181 | 2 | 9 | 22 | 611 | 82 | 5 |
| 8:45 AM | 5 | 24 | 21 | 0 | 34 | 12 | 61 | 0 | 71 | 178 | 1 | 14 | 15 | 489 | 90 | 12 |
| TOTAL VOLUMES : | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU |
| APPROACH %'s : | 22 | 120 | 202 | 0 | 211 | 93 | 693 | 0 | 424 | 1263 | 11 | 47 | 110 | 4688 | 567 | 37 |
| | 6.40% | 34.88% | 58.72% | 0.00% | 21.16% | 9.33% | 69.51% | 0.00% | 24.30% | 72.38% | 0.63% | 2.69% | 2.04% | 86.78% | 10.50% | 0.68% |
| PEAK HR : | 07:45 AM - 08:45 AM | | | | | | | | | | | | | | | |
| PEAK HR VOL : | 10 | 68 | 130 | 0 | 113 | 56 | 414 | 0 | 238 | 763 | 8 | 26 | 74 | 2484 | 298 | 16 |
| PEAK HR FACTOR : | 0.833 | 0.773 | 0.774 | 0.000 | 0.831 | 0.737 | 0.892 | 0.000 | 0.888 | 0.833 | 0.667 | 0.722 | 0.841 | 0.908 | 0.909 | 0.667 |
| | 0.776 | | | | 0.928 | | | | 0.854 | | | | 0.911 | | | |
| TOTAL | | | | | | | | | | | | | | | | |
| 4698 | | | | | | | | | | | | | | | | |
| 0.946 | | | | | | | | | | | | | | | | |
| PM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | |
| | 2 | 2 | 0 | 0 | 2 | 1 | 1 | 0 | 2 | 3.5 | 0.5 | 0 | 2 | 4 | 1 | 0 |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU |
| 4:00 PM | 1 | 12 | 26 | 0 | 58 | 17 | 104 | 0 | 58 | 407 | 3 | 11 | 25 | 245 | 27 | 2 |
| 4:15 PM | 1 | 13 | 24 | 0 | 71 | 24 | 95 | 0 | 65 | 394 | 5 | 15 | 20 | 284 | 25 | 2 |
| 4:30 PM | 2 | 22 | 31 | 0 | 98 | 23 | 137 | 0 | 78 | 443 | 2 | 21 | 22 | 288 | 33 | 2 |
| 4:45 PM | 7 | 22 | 36 | 0 | 67 | 27 | 105 | 0 | 60 | 458 | 6 | 11 | 22 | 307 | 33 | 0 |
| 5:00 PM | 1 | 20 | 32 | 0 | 114 | 31 | 118 | 0 | 65 | 454 | 6 | 22 | 13 | 270 | 29 | 2 |
| 5:15 PM | 5 | 23 | 40 | 0 | 85 | 54 | 112 | 0 | 84 | 464 | 12 | 32 | 15 | 240 | 40 | 2 |
| 5:30 PM | 10 | 19 | 35 | 0 | 67 | 24 | 141 | 0 | 77 | 462 | 7 | 30 | 24 | 274 | 23 | 4 |
| 5:45 PM | 2 | 16 | 29 | 0 | 77 | 55 | 126 | 0 | 50 | 426 | 5 | 14 | 26 | 294 | 33 | 2 |
| TOTAL VOLUMES : | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU |
| APPROACH %'s : | 29 | 147 | 253 | 0 | 637 | 255 | 938 | 0 | 537 | 3508 | 46 | 156 | 167 | 2202 | 243 | 16 |
| | 6.76% | 34.27% | 58.97% | 0.00% | 34.81% | 13.93% | 51.26% | 0.00% | 12.64% | 82.60% | 1.08% | 3.67% | 6.35% | 83.79% | 9.25% | 0.61% |
| PEAK HR : | 04:30 PM - 05:30 PM | | | | | | | | | | | | | | | |
| PEAK HR VOL : | 15 | 87 | 139 | 0 | 364 | 135 | 472 | 0 | 287 | 1819 | 26 | 86 | 72 | 1105 | 135 | 6 |
| PEAK HR FACTOR : | 0.536 | 0.946 | 0.869 | 0.000 | 0.798 | 0.625 | 0.861 | 0.000 | 0.854 | 0.980 | 0.542 | 0.672 | 0.818 | 0.900 | 0.844 | 0.750 |
| | 0.886 | | | | 0.923 | | | | 0.937 | | | | 0.910 | | | |
| TOTAL | | | | | | | | | | | | | | | | |
| 4748 | | | | | | | | | | | | | | | | |
| 0.983 | | | | | | | | | | | | | | | | |

National Data & Surveying Services

Intersection Turning Movement Count

Location: E Capitol Ave/Great Mall Pkwy & CR G4/Montague Expy
City: Milpitas
Control: Signalized

Project ID: 24-080364-014
Date: 11/19/2024

Data - Total

| NS/EW Streets: | E Capitol Ave/Great Mall Pkwy | | | | E Capitol Ave/Great Mall Pkwy | | | | CR G4/Montague Expy | | | | CR G4/Montague Expy | | | | | |
|------------------|-------------------------------|---------------------|--------|--------|-------------------------------|--------|--------|-------|---------------------|--------|--------|--------|---------------------|-------|--------|--------|-------|-------|
| AM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | | |
| | 2 | 3 | 1 | 0 | 2 | 3 | 1 | 0 | 2 | 4 | 1 | 0 | 2 | 4 | 1 | 0 | | |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL | |
| | 51 | 58 | 11 | 1 | 33 | 19 | 6 | 0 | 5 | 109 | 8 | 5 | 2 | 394 | 91 | 3 | 796 | |
| | 48 | 74 | 13 | 0 | 49 | 27 | 4 | 0 | 17 | 110 | 21 | 14 | 2 | 473 | 176 | 2 | 1030 | |
| | 35 | 133 | 13 | 0 | 71 | 24 | 10 | 1 | 21 | 114 | 12 | 8 | 3 | 529 | 255 | 6 | 1235 | |
| | 7:45 AM | 44 | 150 | 14 | 0 | 99 | 38 | 5 | 0 | 31 | 169 | 12 | 9 | 4 | 446 | 270 | 4 | 1295 |
| | 8:00 AM | 44 | 178 | 10 | 0 | 107 | 72 | 9 | 0 | 28 | 191 | 11 | 5 | 2 | 448 | 270 | 2 | 1377 |
| | 8:15 AM | 38 | 155 | 20 | 0 | 102 | 50 | 9 | 1 | 27 | 165 | 21 | 10 | 6 | 451 | 275 | 13 | 1343 |
| | 8:30 AM | 19 | 184 | 17 | 0 | 93 | 47 | 6 | 0 | 26 | 147 | 12 | 14 | 14 | 428 | 267 | 4 | 1278 |
| 8:45 AM | 33 | 152 | 22 | 1 | 98 | 58 | 7 | 0 | 26 | 142 | 16 | 11 | 16 | 281 | 224 | 5 | 1092 | |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 312 | 1084 | 120 | 2 | 652 | 335 | 56 | 2 | 181 | 1147 | 113 | 76 | 49 | 3450 | 1828 | 39 | 9446 |
| | | 20.55% | 71.41% | 7.91% | 0.13% | 62.39% | 32.06% | 5.36% | 0.19% | 11.93% | 75.61% | 7.45% | 5.01% | 0.91% | 64.29% | 34.07% | 0.73% | |
| PEAK HR : | | 07:45 AM - 08:45 AM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | | 145 | 667 | 61 | 0 | 401 | 207 | 29 | 1 | 112 | 672 | 56 | 38 | 26 | 1773 | 1082 | 23 | 5293 |
| PEAK HR FACTOR : | | 0.824 | 0.906 | 0.763 | 0.000 | 0.937 | 0.719 | 0.806 | 0.250 | 0.903 | 0.880 | 0.667 | 0.679 | 0.464 | 0.983 | 0.984 | 0.442 | 0.961 |
| | | 0.941 | | | | 0.848 | | | | 0.934 | | | | 0.974 | | | | |
| PM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | | |
| | 2 | 3 | 1 | 0 | 2 | 3 | 1 | 0 | 2 | 4 | 1 | 0 | 2 | 4 | 1 | 0 | | |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL | |
| | 32 | 84 | 15 | 1 | 146 | 220 | 15 | 0 | 34 | 330 | 57 | 9 | 17 | 218 | 75 | 3 | 1256 | |
| | 26 | 66 | 21 | 0 | 150 | 290 | 9 | 0 | 35 | 316 | 69 | 11 | 28 | 206 | 87 | 4 | 1318 | |
| | 4:30 PM | 32 | 66 | 19 | 1 | 141 | 260 | 22 | 0 | 33 | 390 | 72 | 10 | 32 | 259 | 104 | 4 | 1445 |
| | 4:45 PM | 29 | 85 | 22 | 0 | 143 | 291 | 19 | 0 | 41 | 421 | 66 | 8 | 14 | 223 | 104 | 3 | 1469 |
| | 5:00 PM | 26 | 77 | 17 | 1 | 151 | 298 | 17 | 0 | 36 | 362 | 45 | 16 | 36 | 227 | 88 | 5 | 1402 |
| | 5:15 PM | 45 | 62 | 21 | 1 | 143 | 266 | 14 | 0 | 47 | 443 | 69 | 9 | 20 | 253 | 88 | 6 | 1487 |
| | 5:30 PM | 29 | 81 | 13 | 1 | 138 | 296 | 10 | 0 | 32 | 399 | 73 | 12 | 31 | 243 | 90 | 6 | 1454 |
| 5:45 PM | 30 | 67 | 22 | 0 | 151 | 314 | 14 | 1 | 28 | 406 | 50 | 18 | 19 | 249 | 105 | 6 | 1480 | |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 249 | 588 | 150 | 5 | 1163 | 2235 | 120 | 1 | 286 | 3067 | 501 | 93 | 197 | 1878 | 741 | 37 | 11311 |
| | | 25.10% | 59.27% | 15.12% | 0.50% | 33.05% | 63.51% | 3.41% | 0.03% | 7.25% | 77.70% | 12.69% | 2.36% | 6.91% | 65.83% | 25.97% | 1.30% | |
| PEAK HR : | | 05:00 PM - 06:00 PM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | | 130 | 287 | 73 | 3 | 583 | 1174 | 55 | 1 | 143 | 1610 | 237 | 55 | 106 | 972 | 371 | 23 | 5823 |
| PEAK HR FACTOR : | | 0.722 | 0.886 | 0.830 | 0.750 | 0.965 | 0.935 | 0.809 | 0.250 | 0.761 | 0.909 | 0.812 | 0.764 | 0.736 | 0.960 | 0.883 | 0.958 | 0.979 |
| | | 0.955 | | | | 0.944 | | | | 0.900 | | | | 0.971 | | | | |

National Data & Surveying Services

Intersection Turning Movement Count

Location: McCandless Dr/Trade Zone Blvd & CR G4/Montague Expy
City: Milpitas
Control: Signalized

Project ID: 24-080364-015
Date: 11/19/2024

Data - Total

| NS/EW Streets: | | McCandless Dr/Trade Zone Blvd | | | | McCandless Dr/Trade Zone Blvd | | | | CR G4/Montague Expy | | | | CR G4/Montague Expy | | | | |
|------------------|-----------|-------------------------------|---------|---------|-----------|-------------------------------|---------|---------|---------|---------------------|---------|---------|---------|---------------------|---------|---------|-------|------------------------|
| AM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | 2.5 NL | 0.5 NT | 1 NR | 0 NU | 1.5 SL | 0.5 ST | 1 SR | 0 SU | 1 EL | 3 ET | 1 ER | 0 EU | 1 WL | 3 WT | 1 WR | 0 WU | | |
| | 7:00 AM | 160 | 2 | 15 | 0 | 3 | 3 | 28 | 0 | 8 | 110 | 109 | 0 | 13 | 478 | 4 | 2 | 935 |
| | 7:15 AM | 128 | 4 | 15 | 0 | 3 | 7 | 37 | 0 | 6 | 141 | 120 | 1 | 11 | 484 | 9 | 0 | 966 |
| | 7:30 AM | 205 | 5 | 17 | 0 | 5 | 8 | 42 | 0 | 4 | 122 | 150 | 0 | 21 | 487 | 10 | 4 | 1080 |
| | 7:45 AM | 218 | 9 | 37 | 0 | 6 | 13 | 52 | 0 | 11 | 158 | 170 | 0 | 17 | 452 | 6 | 3 | 1152 |
| | 8:00 AM | 199 | 12 | 26 | 0 | 8 | 21 | 65 | 0 | 10 | 200 | 170 | 0 | 14 | 446 | 12 | 5 | 1188 |
| | 8:15 AM | 185 | 14 | 21 | 0 | 11 | 19 | 83 | 0 | 13 | 177 | 112 | 1 | 14 | 416 | 33 | 2 | 1101 |
| | 8:30 AM | 243 | 30 | 20 | 0 | 22 | 15 | 83 | 0 | 13 | 134 | 133 | 0 | 17 | 379 | 56 | 3 | 1148 |
| | 8:45 AM | 215 | 6 | 19 | 0 | 17 | 27 | 109 | 0 | 6 | 117 | 149 | 1 | 18 | 367 | 12 | 6 | 1069 |
| TOTAL VOLUMES : | | 1553 | 82 | 170 | 0 | 75 | 113 | 499 | 0 | 71 | 1159 | 1113 | 3 | 125 | 3509 | 142 | 25 | 8639 |
| APPROACH %'s : | | 86.04% | | 4.54% | 9.42% | 0.00% | | | | 3.03% | 49.40% | 47.44% | 0.13% | 3.29% | 92.32% | 3.74% | 0.66% | |
| PEAK HR : | | 07:45 AM - 08:45 AM | | | | | | | | | | | | | | | | TOTAL 4589 0.966 |
| PEAK HR VOL : | | 845 | 65 | 104 | 0 | 47 | 68 | 283 | 0 | 47 | 669 | 585 | 1 | 62 | 1693 | 107 | 13 | |
| PEAK HR FACTOR : | | 0.869 | 0.542 | 0.703 | 0.000 | 0.534 | 0.810 | 0.852 | 0.000 | 0.904 | 0.836 | 0.860 | 0.250 | 0.912 | 0.936 | 0.478 | 0.650 | |
| | | 0.865 | | | | 0.829 | | | | 0.857 | | | | 0.981 | | | | |
| PM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | 2.5 NL | 0.5 NT | 1 NR | 0 NU | 1.5 SL | 0.5 ST | 1 SR | 0 SU | 1 EL | 3 ET | 1 ER | 0 EU | 1 WL | 3 WT | 1 WR | 0 WU | | |
| | 4:00 PM | 105 | 10 | 41 | 0 | 6 | 31 | 41 | 0 | 25 | 414 | 293 | 5 | 45 | 246 | 5 | 12 | 1281 |
| | 4:15 PM | 121 | 16 | 45 | 0 | 6 | 27 | 28 | 0 | 25 | 432 | 296 | 2 | 37 | 208 | 6 | 5 | 1254 |
| | 4:30 PM | 163 | 18 | 40 | 0 | 9 | 27 | 25 | 0 | 28 | 401 | 286 | 3 | 39 | 255 | 13 | 13 | 1320 |
| | 4:45 PM | 113 | 23 | 49 | 0 | 5 | 30 | 28 | 0 | 36 | 495 | 309 | 0 | 45 | 192 | 7 | 4 | 1336 |
| | 5:00 PM | 138 | 18 | 49 | 0 | 12 | 28 | 43 | 0 | 22 | 539 | 248 | 1 | 40 | 227 | 8 | 5 | 1362 |
| | 5:15 PM | 150 | 13 | 59 | 0 | 13 | 33 | 33 | 0 | 15 | 478 | 259 | 0 | 53 | 238 | 15 | 3 | 1376 |
| | 5:30 PM | 145 | 10 | 40 | 0 | 11 | 39 | 33 | 0 | 24 | 455 | 278 | 1 | 53 | 214 | 7 | 5 | 1315 |
| | 5:45 PM | 130 | 13 | 47 | 0 | 10 | 28 | 33 | 0 | 33 | 482 | 309 | 3 | 53 | 233 | 13 | 3 | 1390 |
| TOTAL VOLUMES : | | 1065 | 121 | 370 | 0 | 74 | 243 | 264 | 0 | 208 | 3696 | 2278 | 15 | 365 | 1813 | 74 | 50 | 10636 |
| APPROACH %'s : | | 68.44% | | 7.78% | 23.78% | 0.00% | | | | 3.36% | 59.64% | 36.76% | 0.24% | 15.86% | 78.76% | 3.21% | 2.17% | |
| PEAK HR : | | 05:00 PM - 06:00 PM | | | | | | | | | | | | | | | | TOTAL 5445 0.979 |
| PEAK HR VOL : | | 563 | 54 | 195 | 0 | 46 | 128 | 142 | 0 | 94 | 1954 | 1094 | 5 | 199 | 912 | 43 | 16 | |
| PEAK HR FACTOR : | | 0.938 | 0.750 | 0.826 | 0.000 | 0.885 | 0.821 | 0.826 | 0.000 | 0.712 | 0.906 | 0.885 | 0.417 | 0.939 | 0.958 | 0.717 | 0.800 | |
| | | 0.914 | | | | 0.952 | | | | 0.951 | | | | 0.947 | | | | |

National Data & Surveying Services

Intersection Turning Movement Count

Location: S Milpitas Blvd & Ames Ave/East Project Center Dwy
City: Milpitas
Control: Signalized

Project ID: 24-080364-008
Date: 11/19/2024

Data - Total

| NS/EW Streets: | | S Milpitas Blvd | | | | S Milpitas Blvd | | | | Ames Ave/East Project Center Dwy | | | | Ames Ave/East Project Center Dwy | | | | |
|------------------|---------|---------------------|--------|--------|-------|-----------------|--------|-------|-------|----------------------------------|-------|-------|-------|----------------------------------|-------|--------|-------|-------|
| AM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | |
| | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | TOTAL |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | | |
| | 7:00 AM | 0 | 73 | 12 | 0 | 10 | 57 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 6 | 0 | 170 | |
| | 7:15 AM | 0 | 49 | 17 | 0 | 9 | 76 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 9 | 0 | 170 | |
| | 7:30 AM | 0 | 55 | 19 | 0 | 7 | 104 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 4 | 0 | 200 | |
| | 7:45 AM | 0 | 97 | 16 | 0 | 4 | 112 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 4 | 0 | 243 | |
| | 8:00 AM | 0 | 105 | 11 | 0 | 7 | 100 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 5 | 0 | 232 | |
| | 8:15 AM | 0 | 106 | 18 | 0 | 11 | 104 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 3 | 0 | 252 | |
| | 8:30 AM | 0 | 91 | 15 | 0 | 9 | 97 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 2 | 0 | 219 | |
| | 8:45 AM | 0 | 115 | 18 | 0 | 18 | 87 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 10 | 0 | 255 | |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 0 | 691 | 126 | 0 | 75 | 737 | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 0 | 43 | 0 | 1741 |
| | | 0.00% | 84.58% | 15.42% | 0.00% | 9.24% | 90.76% | 0.00% | 0.00% | | | | | 61.61% | 0.00% | 38.39% | 0.00% | |
| PEAK HR : | | 08:00 AM - 09:00 AM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | | 0 | 417 | 62 | 0 | 45 | 388 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 20 | 0 | 958 |
| PEAK HR FACTOR : | | 0.000 | 0.907 | 0.861 | 0.000 | 0.625 | 0.933 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.650 | 0.000 | 0.500 | 0.000 | 0.939 |
| | | 0.900 | | | | 0.941 | | | | | | | | 0.676 | | | | |
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National Data & Surveying Services

Intersection Turning Movement Count

Location: S Milpitas Blvd & Ames Ave/Eco Office Dwy/East Project S Dwy
City: Milpitas
Control: No Control

Project ID: 24-080364-009
Date: 11/19/2024

Data - Total

| NS/EW Streets: | | S Milpitas Blvd | | | | S Milpitas Blvd | | | | Ames Ave/Eco Office Dwy/East Project S Dwy | | | | Ames Ave/Eco Office Dwy/East Project S Dwy | | | | |
|------------------|---------|---------------------|---------|---------|---------|-----------------|---------|---------|---------|--|---------|---------|---------|--|---------|---------|---------|-------|
| AM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | | 0 NL | 2 NT | 0 NR | 0 NU | 0 SL | 2 ST | 0 SR | 0 SU | 0 EL | 1 ET | 0 ER | 0 EU | 0 WL | 1 WT | 0 WR | 0 WU | |
| | 7:00 AM | 0 | 79 | 1 | 0 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 148 |
| | 7:15 AM | 0 | 66 | 3 | 0 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 156 |
| | 7:30 AM | 0 | 72 | 0 | 0 | 0 | 111 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 186 |
| | 7:45 AM | 0 | 113 | 2 | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 240 |
| | 8:00 AM | 1 | 119 | 3 | 0 | 0 | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 227 |
| | 8:15 AM | 0 | 121 | 1 | 0 | 0 | 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 238 |
| | 8:30 AM | 0 | 107 | 1 | 0 | 1 | 101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 210 |
| | 8:45 AM | 0 | 131 | 2 | 0 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 224 |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 1 | 808 | 13 | 0 | 1 | 802 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 1629 |
| PEAK HR : | | 07:45 AM - 08:45 AM | | | | 0.12% | | | | 99.88% | | | | 0.00% | | | | TOTAL |
| PEAK HR VOL : | | 1 | 460 | 7 | 0 | 1 | 445 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 915 |
| PEAK HR FACTOR : | | 0.250 | 0.950 | 0.583 | 0.000 | 0.250 | 0.890 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | 0.953 |
| | | 0.951 | | | | 0.892 | | | | | | | | 0.250 | | | | |
| PM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | | 0 NL | 2 NT | 0 NR | 0 NU | 0 SL | 2 ST | 0 SR | 0 SU | 0 EL | 1 ET | 0 ER | 0 EU | 0 WL | 1 WT | 0 WR | 0 WU | |
| | 4:00 PM | 0 | 90 | 1 | 0 | 0 | 159 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 256 |
| | 4:15 PM | 0 | 70 | 0 | 0 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 239 |
| | 4:30 PM | 0 | 113 | 0 | 0 | 0 | 172 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 285 |
| | 4:45 PM | 0 | 116 | 0 | 0 | 0 | 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 291 |
| | 5:00 PM | 0 | 93 | 0 | 0 | 0 | 217 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 310 |
| | 5:15 PM | 0 | 124 | 0 | 0 | 0 | 209 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333 |
| | 5:30 PM | 0 | 89 | 1 | 0 | 0 | 235 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 325 |
| | 5:45 PM | 0 | 91 | 0 | 0 | 0 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 306 |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 0 | 786 | 2 | 0 | 0 | 1551 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 2345 |
| PEAK HR : | | 05:00 PM - 06:00 PM | | | | 0.00% | | | | 99.94% | | | | 60.00% | | | | TOTAL |
| PEAK HR VOL : | | 0 | 397 | 1 | 0 | 0 | 876 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1274 |
| PEAK HR FACTOR : | | 0.000 | 0.800 | 0.250 | 0.000 | 0.000 | 0.932 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.956 |
| | | 0.802 | | | | 0.932 | | | | | | | | | | | | |

National Data & Surveying Services

Intersection Turning Movement Count

Location: Milpitas Town Center Dwy/1000 Gibraltar Dr Dwy/South Project Dwy & Gibraltar Dr
City: Milpitas
Control: 1-Way Stop(NB)

Project ID: 24-080364-011
Date: 11/19/2024

Data - Total

| NS/EW Streets: | | Milpitas Town Center Dwy/1000 Gibraltar Dr Dwy/South Project Dwy | | | | Milpitas Town Center Dwy/1000 Gibraltar Dr Dwy/South Project Dwy | | | | Gibraltar Dr | | | | Gibraltar Dr | | | | |
|------------------|---------|--|---------|---------|---------|--|---------|---------|---------|--------------|---------|---------|---------|--------------|---------|---------|---------|-------|
| AM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | | 0 NL | 1 NT | 0 NR | 0 NU | 0 SL | 1 ST | 0 SR | 0 SU | 0 EL | 1 ET | 0 ER | 0 EU | 0 WL | 1 WT | 0 WR | 0 WU | |
| | 7:00 AM | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 11 | 16 | 0 | 0 | 36 |
| | 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 1 | 13 | 0 | 0 | 21 |
| | 7:30 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 16 | 0 | 0 | 24 |
| | 7:45 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 5 | 30 | 0 | 0 | 38 |
| | 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 20 | 0 | 0 | 25 |
| | 8:15 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 24 | 0 | 0 | 29 |
| | 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 1 | 27 | 0 | 0 | 34 |
| | 8:45 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 24 | 0 | 0 | 30 |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 4 | 0 | 27 | 170 | 0 | 0 | 237 |
| PEAK HR : | | 0.00% | 0.00% | 100.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 87.50% | 12.50% | 0.00% | 13.71% | 86.29% | 0.00% | 0.00% | |
| PEAK HR VOL : | | 07:45 AM - 08:45 AM | | | | 0 | 0 | 0 | 0 | 0 | 11 | 1 | 0 | 11 | 101 | 0 | 0 | 126 |
| PEAK HR FACTOR : | | 0.000 | 0.000 | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.458 | 0.250 | 0.000 | 0.550 | 0.842 | 0.000 | 0.000 | 0.829 |
| | | 0.500 | | | | | | | | 0.500 | | | | 0.800 | | | | |
| PM | | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | | 0 NL | 1 NT | 0 NR | 0 NU | 0 SL | 1 ST | 0 SR | 0 SU | 0 EL | 1 ET | 0 ER | 0 EU | 0 WL | 1 WT | 0 WR | 0 WU | |
| | 4:00 PM | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 5 | 0 | 0 | 25 |
| | 4:15 PM | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 1 | 2 | 0 | 0 | 17 |
| | 4:30 PM | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 5 | 0 | 0 | 49 |
| | 4:45 PM | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 2 | 8 | 0 | 0 | 37 |
| | 5:00 PM | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 1 | 7 | 0 | 0 | 36 |
| | 5:15 PM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 1 | 2 | 0 | 0 | 32 |
| | 5:30 PM | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 4 | 0 | 0 | 35 |
| | 5:45 PM | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 3 | 0 | 0 | 20 |
| TOTAL VOLUMES : | | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 187 | 0 | 0 | 5 | 36 | 0 | 0 | 251 |
| PEAK HR : | | 0.00% | 0.00% | 100.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 100.00% | 0.00% | 0.00% | 12.20% | 87.80% | 0.00% | 0.00% | |
| PEAK HR VOL : | | 04:30 PM - 05:30 PM | | | | 0 | 0 | 0 | 0 | 0 | 115 | 0 | 0 | 4 | 22 | 0 | 0 | 154 |
| PEAK HR FACTOR : | | 0.000 | 0.000 | 0.542 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.719 | 0.000 | 0.000 | 0.500 | 0.688 | 0.000 | 0.000 | 0.786 |
| | | 0.542 | | | | | | | | 0.719 | | | | 0.650 | | | | |

National Data & Surveying Services

Intersection Turning Movement Count

Location: Gibraltar Dr & 909 Bldg 4 Dwy/West Project North Dwy
City: Milpitas
Control: No Control

Project ID: 24-080364-012
Date: 11/21/2024

Data - Total

| NS/EW Streets: | Gibraltar Dr | | | | Gibraltar Dr | | | | 909 Bldg 4 Dwy/West Project North Dwy | | | | 909 Bldg 4 Dwy/West Project North Dwy | | | | |
|------------------|---------------------|---------|---------|---------|--------------|---------|---------|---------|---------------------------------------|---------|---------|---------|---------------------------------------|---------|---------|---------|-------|
| AM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | |
| | 0 NL | 1 NT | 0 NR | 0 NU | 0 SL | 1 ST | 0 SR | 0 SU | 0 EL | 0 ET | 0 ER | 0 EU | 0 WL | 1 WT | 0 WR | 0 WU | TOTAL |
| 7:00 AM | 0 | 10 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 7:15 AM | 0 | 6 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 7:30 AM | 0 | 12 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 7:45 AM | 0 | 22 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 8:00 AM | 0 | 13 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 8:15 AM | 0 | 17 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 8:30 AM | 0 | 18 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 8:45 AM | 0 | 16 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| TOTAL VOLUMES : | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | 0 | 114 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 172 |
| | 0.00% | 100.00% | 0.00% | 0.00% | 0.00% | 100.00% | 0.00% | 0.00% | 0.00% | | | | | | | | |
| PEAK HR : | 07:45 AM - 08:45 AM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | 0 | 70 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 |
| PEAK HR FACTOR : | 0.000 | 0.795 | 0.000 | 0.000 | 0.000 | 0.800 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.797 |
| | 0.795 | | | | 0.800 | | | | | | | | | | | | |
| PM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | |
| | 0 NL | 1 NT | 0 NR | 0 NU | 0 SL | 1 ST | 0 SR | 0 SU | 0 EL | 0 ET | 0 ER | 0 EU | 0 WL | 1 WT | 0 WR | 0 WU | TOTAL |
| 4:00 PM | 0 | 5 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 4:15 PM | 0 | 5 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 4:30 PM | 0 | 14 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 4:45 PM | 0 | 8 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 5:00 PM | 0 | 10 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 5:15 PM | 0 | 7 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 5:30 PM | 0 | 13 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 5:45 PM | 0 | 5 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| TOTAL VOLUMES : | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | 0 | 67 | 0 | 0 | 0 | 131 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 198 |
| | 0.00% | 100.00% | 0.00% | 0.00% | 0.00% | 100.00% | 0.00% | 0.00% | 0.00% | | | | | | | | |
| PEAK HR : | 04:30 PM - 05:30 PM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | 0 | 39 | 0 | 0 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 125 |
| PEAK HR FACTOR : | 0.000 | 0.696 | 0.000 | 0.000 | 0.000 | 0.566 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.601 |
| | 0.696 | | | | 0.566 | | | | | | | | | | | | |































Appendix D

Synchro Reports

D1 – Existing Conditions 2024

HCM 7th Signalized Intersection Summary
1: S Abel S/N Abel St & W Calaveras Blvd

1000 Gibraltar Dr - LTA
Existing AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |    |  |  |    |  |  |   |  |  |   |  |
| Traffic Volume (veh/h) | 148 | 761 | 24 | 311 | 1536 | 103 | 28 | 264 | 298 | 125 | 347 | 437 |
| Future Volume (veh/h) | 148 | 761 | 24 | 311 | 1536 | 103 | 28 | 264 | 298 | 125 | 347 | 437 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | | No | | | | No | | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 161 | 827 | 0 | 338 | 1670 | 0 | 30 | 287 | 324 | 136 | 377 | 475 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 192 | 1706 | | 364 | 2177 | | 47 | 775 | 346 | 162 | 1005 | 448 |
| Arrive On Green | 0.11 | 0.33 | 0.00 | 0.20 | 0.43 | 0.00 | 0.03 | 0.22 | 0.22 | 0.09 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 1781 | 5106 | 1585 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 161 | 827 | 0 | 338 | 1670 | 0 | 30 | 287 | 324 | 136 | 377 | 475 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1702 | 1585 | 1781 | 1702 | 1585 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 10.6 | 15.4 | 0.0 | 22.4 | 33.5 | 0.0 | 2.0 | 8.2 | 24.1 | 9.0 | 10.2 | 33.9 |
| Cycle Q Clear(g_c), s | 10.6 | 15.4 | 0.0 | 22.4 | 33.5 | 0.0 | 2.0 | 8.2 | 24.1 | 9.0 | 10.2 | 33.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 192 | 1706 | | 364 | 2177 | | 47 | 775 | 346 | 162 | 1005 | 448 |
| V/C Ratio(X) | 0.84 | 0.48 | | 0.93 | 0.77 | | 0.64 | 0.37 | 0.94 | 0.84 | 0.38 | 1.06 |
| Avail Cap(c_a), veh/h | 465 | 1706 | | 383 | 2177 | | 197 | 779 | 347 | 168 | 1005 | 448 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.5 | 31.7 | 0.0 | 46.9 | 29.3 | 0.0 | 57.9 | 39.9 | 46.1 | 53.7 | 34.5 | 43.0 |
| Incr Delay (d2), s/veh | 9.2 | 1.0 | 0.0 | 28.0 | 2.7 | 0.0 | 13.6 | 0.3 | 32.4 | 29.2 | 0.2 | 59.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.2 | 6.4 | 0.0 | 12.5 | 13.6 | 0.0 | 1.1 | 3.6 | 12.5 | 5.3 | 4.4 | 20.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 61.7 | 32.7 | 0.0 | 74.9 | 32.0 | 0.0 | 71.4 | 40.2 | 78.5 | 82.9 | 34.8 | 102.4 |
| LnGrp LOS | E | C | | E | C | | E | D | E | F | C | F |
| Approach Vol, veh/h | 988 | | | | 2008 | | | | 641 | | | |
| Approach Delay, s/veh | 37.5 | | | | 39.2 | | | | 61.0 | | | |
| Approach LOS | D | | | | D | | | | E | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 28.7 | 44.8 | 7.9 | 38.6 | 17.7 | 55.9 | 15.6 | 30.9 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.7 | 4.7 | 4.7 | 4.7 | * 4.7 | 4.7 | 4.7 | | | | |
| Max Green Setting (Gmax), s | 25.8 | 36.3 | 13.3 | 26.3 | 31.3 | * 30 | 11.3 | 26.3 | | | | |
| Max Q Clear Time (g_c+I1), s | 24.4 | 17.4 | 4.0 | 35.9 | 12.6 | 35.5 | 11.0 | 26.1 | | | | |
| Green Ext Time (p_c), s | 0.2 | 5.4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.1 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 49.3
HCM 7th LOS D

Notes













* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
2: S Milpitas Blvd/N Milpitas Blvd & E Calaveras Blvd

1000 Gibraltar Dr - LTA
Existing AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 174 | 596 | 335 | 77 | 1526 | 202 | 327 | 197 | 51 | 130 | 204 | 314 |
| Future Volume (veh/h) | 174 | 596 | 335 | 77 | 1526 | 202 | 327 | 197 | 51 | 130 | 204 | 314 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 185 | 634 | 0 | 82 | 1623 | 0 | 348 | 210 | 54 | 138 | 217 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 257 | 1967 | | 114 | 1913 | | 721 | 742 | 331 | 661 | 680 | |
| Arrive On Green | 0.07 | 0.39 | 0.00 | 0.06 | 0.37 | 0.00 | 0.21 | 0.21 | 0.21 | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3456 | 5106 | 1585 | 1781 | 5106 | 1585 | 3456 | 3554 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 185 | 634 | 0 | 82 | 1623 | 0 | 348 | 210 | 54 | 138 | 217 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1702 | 1585 | 1781 | 1702 | 1585 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 6.0 | 9.9 | 0.0 | 5.1 | 33.2 | 0.0 | 10.1 | 5.7 | 3.2 | 3.8 | 6.0 | 0.0 |
| Cycle Q Clear(g_c), s | 6.0 | 9.9 | 0.0 | 5.1 | 33.2 | 0.0 | 10.1 | 5.7 | 3.2 | 3.8 | 6.0 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 257 | 1967 | | 114 | 1913 | | 721 | 742 | 331 | 661 | 680 | |
| V/C Ratio(X) | 0.72 | 0.32 | | 0.72 | 0.85 | | 0.48 | 0.28 | 0.16 | 0.21 | 0.32 | |
| Avail Cap(c_a), veh/h | 782 | 1967 | | 325 | 1913 | | 721 | 742 | 331 | 661 | 680 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 51.6 | 24.6 | 0.0 | 52.4 | 32.7 | 0.0 | 39.7 | 37.9 | 36.9 | 38.8 | 39.7 | 0.0 |
| Incr Delay (d2), s/veh | 3.8 | 0.4 | 0.0 | 8.3 | 4.9 | 0.0 | 2.3 | 1.0 | 1.1 | 0.7 | 1.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.7 | 4.0 | 0.0 | 2.5 | 13.9 | 0.0 | 4.4 | 2.5 | 1.3 | 1.7 | 2.7 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 55.4 | 25.0 | 0.0 | 60.7 | 37.6 | 0.0 | 42.0 | 38.9 | 38.0 | 39.6 | 40.9 | 0.0 |
| LnGrp LOS | E | C | | E | D | | D | D | D | D | D | |
| Approach Vol, veh/h | 819 | | 1705 | | | | 612 | | 355 | | | |
| Approach Delay, s/veh | 31.9 | | 38.7 | | | | 40.6 | | 40.4 | | | |
| Approach LOS | C | | D | | | | D | | D | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 11.5 | 48.5 | 28.0 | 26.0 | 12.7 | 47.3 | 26.0 | 28.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | | | | |
| Max Green Setting (Gmax), s | 20.8 | 30.4 | 23.8 | 21.8 | 25.8 | 25.4 | 21.8 | 23.8 | | | | |
| Max Q Clear Time (g_c+I1), s | 11.9 | 11.9 | 12.1 | 8.0 | 8.0 | 35.2 | 5.8 | 7.7 | | | | |
| Green Ext Time (p_c), s | 0.1 | 3.9 | 0.9 | 1.0 | 0.5 | 0.0 | 0.3 | 1.2 | | | | |

Intersection Summary

| | |
|------------------------------|------|
| HCM 7th Control Delay, s/veh | 37.6 |
| HCM 7th LOS | D |

Notes

Unsignalized Delay for [EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 3: S Milpitas Blvd & Yosemite Dr

1000 Gibraltar Dr - LTA
Existing AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 8 | 4 | 3 | 227 | 30 | 296 | 9 | 264 | 100 | 168 | 232 | 38 |
| Future Volume (veh/h) | 8 | 4 | 3 | 227 | 30 | 296 | 9 | 264 | 100 | 168 | 232 | 38 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 9 | 4 | 3 | 241 | 32 | 315 | 10 | 281 | 106 | 179 | 247 | 40 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 120 | 177 | 133 | 444 | 35 | 349 | 21 | 1125 | 415 | 213 | 1689 | 270 |
| Arrive On Green | 0.01 | 0.18 | 0.18 | 0.07 | 0.24 | 0.24 | 0.01 | 0.45 | 0.45 | 0.12 | 0.56 | 0.56 |
| Sat Flow, veh/h | 1753 | 977 | 732 | 1753 | 146 | 1436 | 1753 | 2501 | 922 | 1753 | 3020 | 482 |
| Grp Volume(v), veh/h | 9 | 0 | 7 | 241 | 0 | 347 | 10 | 194 | 193 | 179 | 142 | 145 |
| Grp Sat Flow(s),veh/h/ln | 1753 | 0 | 1709 | 1753 | 0 | 1582 | 1753 | 1749 | 1675 | 1753 | 1749 | 1754 |
| Q Serve(g_s), s | 0.4 | 0.0 | 0.3 | 7.5 | 0.0 | 21.9 | 0.6 | 7.1 | 7.4 | 10.3 | 4.0 | 4.1 |
| Cycle Q Clear(g_c), s | 0.4 | 0.0 | 0.3 | 7.5 | 0.0 | 21.9 | 0.6 | 7.1 | 7.4 | 10.3 | 4.0 | 4.1 |
| Prop In Lane | 1.00 | | 0.43 | 1.00 | | 0.91 | 1.00 | | 0.55 | 1.00 | | 0.28 |
| Lane Grp Cap(c), veh/h | 120 | 0 | 310 | 444 | 0 | 384 | 21 | 786 | 753 | 213 | 978 | 981 |
| V/C Ratio(X) | 0.07 | 0.00 | 0.02 | 0.54 | 0.00 | 0.90 | 0.47 | 0.25 | 0.26 | 0.84 | 0.14 | 0.15 |
| Avail Cap(c_a), veh/h | 228 | 0 | 506 | 444 | 0 | 469 | 272 | 786 | 753 | 374 | 978 | 981 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 35.0 | 0.0 | 34.7 | 32.5 | 0.0 | 37.8 | 50.6 | 17.5 | 17.6 | 44.3 | 10.9 | 10.9 |
| Incr Delay (d2), s/veh | 0.3 | 0.0 | 0.0 | 1.4 | 0.0 | 18.2 | 15.4 | 0.8 | 0.8 | 8.5 | 0.3 | 0.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.2 | 0.0 | 0.1 | 1.6 | 0.0 | 10.1 | 0.3 | 2.9 | 2.9 | 4.9 | 1.5 | 1.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 35.2 | 0.0 | 34.7 | 33.9 | 0.0 | 56.0 | 66.0 | 18.3 | 18.4 | 52.8 | 11.2 | 11.2 |
| LnGrp LOS | D | | C | C | | E | E | B | B | D | B | B |
| Approach Vol, veh/h | 16 | | 588 | | | 397 | | | 466 | | | |
| Approach Delay, s/veh | 35.0 | | 46.9 | | | 19.6 | | | 27.2 | | | |
| Approach LOS | C | | D | | | B | | | C | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 16.5 | 51.3 | 12.0 | 23.2 | 5.2 | 62.6 | 5.6 | 29.5 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.5 | 4.5 | 4.0 | 5.0 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 22.0 | 25.0 | 7.5 | 30.5 | 16.0 | 31.0 | 7.5 | 30.5 | | | | |
| Max Q Clear Time (g_c+1/2), s | 12.3 | 9.4 | 9.5 | 2.3 | 2.6 | 6.1 | 2.4 | 23.9 | | | | |
| Green Ext Time (p_c), s | 0.3 | 1.9 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 | 1.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 33.1 | | | | | | | | | |
| HCM 7th LOS | | | C | | | | | | | | | |

HCM 7th Signalized Intersection Summary 4: S Milpitas Blvd & D1/Ames Ave

1000 Gibraltar Dr - LTA
Existing AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↗ | ↕ | | ↗ | ↕ | |
| Traffic Volume (veh/h) | 0 | 0 | 0 | 29 | 0 | 14 | 0 | 399 | 60 | 31 | 413 | 0 |
| Future Volume (veh/h) | 0 | 0 | 0 | 29 | 0 | 14 | 0 | 399 | 60 | 31 | 413 | 0 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 |
| Adj Flow Rate, veh/h | 0 | 0 | 0 | 31 | 0 | 15 | 0 | 424 | 64 | 33 | 439 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cap, veh/h | 0 | 69 | 0 | 104 | 0 | 18 | 2 | 2342 | 351 | 54 | 2946 | 0 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.04 | 0.00 | 0.78 | 0.78 | 0.03 | 0.86 | 0.00 |
| Sat Flow, veh/h | 0 | 1811 | 0 | 958 | 0 | 464 | 1725 | 3001 | 450 | 1725 | 3532 | 0 |
| Grp Volume(v), veh/h | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 242 | 246 | 33 | 439 | 0 |
| Grp Sat Flow(s),veh/h/ln | 0 | 1811 | 0 | 1422 | 0 | 0 | 1725 | 1721 | 1730 | 1725 | 1721 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 3.2 | 3.3 | 1.7 | 1.9 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 3.2 | 3.3 | 1.7 | 1.9 | 0.0 |
| Prop In Lane | 0.00 | | 0.00 | 0.67 | | 0.33 | 1.00 | | 0.26 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 0 | 69 | 0 | 121 | 0 | 0 | 2 | 1343 | 1350 | 54 | 2946 | 0 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.18 | 0.18 | 0.61 | 0.15 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 322 | 0 | 470 | 0 | 0 | 307 | 1343 | 1350 | 307 | 2946 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 0.0 | 43.0 | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 43.1 | 1.1 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 10.8 | 0.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.9 | 0.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 0.0 | 45.0 | 0.0 | 0.0 | 0.0 | 2.8 | 2.8 | 53.8 | 1.2 | 0.0 |
| LnGrp LOS | | | | D | | | | A | A | D | A | |
| Approach Vol, veh/h | 0 | | | 46 | | | 488 | | | 472 | | |
| Approach Delay, s/veh | 0.0 | | | 45.0 | | | 2.8 | | | 4.9 | | |
| Approach LOS | | | | D | | | A | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 6.8 | 75.2 | | 7.9 | 0.0 | 82.1 | | 7.9 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | | * 4.5 | 4.0 | 5.0 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.0 | 35.0 | | * 16 | 16.0 | 35.0 | | 25.5 | | | | |
| Max Q Clear Time (g_c+13), s | 13.8 | 5.3 | | 0.0 | 0.0 | 3.9 | | 4.9 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.9 | | 0.0 | 0.0 | 2.9 | | 0.1 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 5.7
HCM 7th LOS A

Notes

User approved pedestrian interval to be less than phase max green.





* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.




HCM 7th Signalized Intersection Summary
6: S Milpitas Blvd & Gibraltar Dr/ABC Dwy

1000 Gibraltar Dr - LTA
Existing AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|-------|------|------|-------|-------|-------|------|------|------|-------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 5 | 0 | 14 | 8 | 0 | 2 | 149 | 461 | 11 | 4 | 440 | 4 |
| Future Volume (veh/h) | 5 | 0 | 14 | 8 | 0 | 2 | 149 | 461 | 11 | 4 | 440 | 4 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 0 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 |
| Adj Flow Rate, veh/h | 6 | 0 | 17 | 10 | 0 | 2 | 180 | 555 | 13 | 5 | 530 | 5 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Percent Heavy Veh, % | 6 | 0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cap, veh/h | 0 | 0 | 0 | 15 | 0 | 3 | 209 | 3029 | 71 | 9 | 1386 | 1175 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.12 | 0.88 | 0.88 | 0.01 | 0.77 | 0.77 |
| Sat Flow, veh/h | | 0 | | 1408 | 0 | 282 | 1725 | 3437 | 80 | 1725 | 1811 | 1535 |
| Grp Volume(v), veh/h | | 0.0 | | 12 | 0 | 0 | 180 | 278 | 290 | 5 | 530 | 5 |
| Grp Sat Flow(s), veh/h/ln | | | | 1690 | 0 | 0 | 1725 | 1721 | 1797 | 1725 | 1811 | 1535 |
| Q Serve(g_s), s | | | | 1.0 | 0.0 | 0.0 | 13.9 | 3.1 | 3.1 | 0.4 | 13.2 | 0.1 |
| Cycle Q Clear(g_c), s | | | | 1.0 | 0.0 | 0.0 | 13.9 | 3.1 | 3.1 | 0.4 | 13.2 | 0.1 |
| Prop In Lane | | | | 0.83 | | 0.17 | 1.00 | | 0.04 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | | | | 18 | 0 | 0 | 209 | 1516 | 1583 | 9 | 1386 | 1175 |
| V/C Ratio(X) | | | | 0.66 | 0.00 | 0.00 | 0.86 | 0.18 | 0.18 | 0.57 | 0.38 | 0.00 |
| Avail Cap(c_a), veh/h | | | | 342 | 0 | 0 | 349 | 1516 | 1583 | 349 | 1386 | 1175 |
| HCM Platoon Ratio | | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | | | | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | | | 67.0 | 0.0 | 0.0 | 58.6 | 1.1 | 1.1 | 67.5 | 5.3 | 3.8 |
| Incr Delay (d2), s/veh | | | | 46.1 | 0.0 | 0.0 | 14.4 | 0.3 | 0.3 | 63.8 | 0.8 | 0.0 |
| Initial Q Delay(d3), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | | | | 0.6 | 0.0 | 0.0 | 6.8 | 0.5 | 0.5 | 0.3 | 4.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | | | | 113.1 | 0.0 | 0.0 | 73.1 | 1.4 | 1.4 | 131.4 | 6.1 | 3.8 |
| LnGrp LOS | | | | F | | | E | A | A | F | A | A |
| Approach Vol, veh/h | | | | | 12 | | | 748 | | | 540 | |
| Approach Delay, s/veh | | | | | 113.1 | | | 18.6 | | | 7.2 | |
| Approach LOS | | | | | F | | | B | | | A | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | | | | | |
| Phs Duration (G+Y+Rc), s | 124.9 | | | 6.0 | 21.0 | 109.1 | | | | | | |
| Change Period (Y+Rc), s | 4.5 | 5.0 | | 4.5 | 4.5 | 5.0 | | | | | | |
| Max Green Setting (Gmax), s | 27.5 | 35.0 | | 27.5 | 27.5 | 35.0 | | | | | | |
| Max Q Clear Time (g_c+I), s | 12.4 | 5.1 | | 3.0 | 15.9 | 15.2 | | | | | | |
| Green Ext Time (p_c), s | 0.0 | 8.7 | | 0.0 | 0.6 | 7.3 | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 14.8 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|---|------|--------|---|------|--------|---|-------|--------|---|-------|
| Int Delay, s/veh | 0.8 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  | | |  | | |  | | |  | |
| Traffic Vol, veh/h | 0 | 11 | 1 | 11 | 101 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 11 | 1 | 11 | 101 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, % | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mvmt Flow | 0 | 13 | 1 | 13 | 122 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 122 | 0 | 0 | 14 | 0 | 0 | 162 | 162 | 14 | 161 | 163 | 122 |
| Stage 1 | - | - | - | - | - | - | 14 | 14 | - | 148 | 148 | - |
| Stage 2 | - | - | - | - | - | - | 148 | 148 | - | 13 | 14 | - |
| Critical Hdwy | 4.17 | - | - | 4.17 | - | - | 7.17 | 6.57 | 6.27 | 7.17 | 6.57 | 6.27 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.17 | 5.57 | - | 6.17 | 5.57 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.17 | 5.57 | - | 6.17 | 5.57 | - |
| Follow-up Hdwy | 2.263 | - | - | 2.263 | - | - | 3.563 | 4.063 | 3.363 | 3.563 | 4.063 | 3.363 |
| Pot Cap-1 Maneuver | 1435 | - | - | 1572 | - | - | 792 | 721 | 1052 | 793 | 721 | 916 |
| Stage 1 | - | - | - | - | - | - | 993 | 874 | - | 843 | 765 | - |
| Stage 2 | - | - | - | - | - | - | 843 | 765 | - | 994 | 874 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1435 | - | - | 1572 | - | - | 785 | 715 | 1052 | 784 | 714 | 916 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 785 | 715 | - | 784 | 714 | - |
| Stage 1 | - | - | - | - | - | - | 993 | 874 | - | 835 | 758 | - |
| Stage 2 | - | - | - | - | - | - | 835 | 758 | - | 992 | 874 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Ctrl Dly, s/v | 0 | | | 0.72 | | | 8.43 | | | 0 | | |
| HCM LOS | | | | | | | A | | | A | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 1052 | 1435 | - | - | 1572 | - | - | - | | | | |
| HCM Lane V/C Ratio | 0.002 | - | - | - | 0.008 | - | - | - | | | | |
| HCM Ctrl Dly (s/v) | 8.4 | 0 | - | - | 7.3 | - | - | 0 | | | | |
| HCM Lane LOS | A | A | - | - | A | - | - | A | | | | |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | - | | | | |

| Intersection | | | | | | |
|--------------------------|---|------|---|------|------|---|
| Int Delay, s/veh | 0 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations |  | |  | | |  |
| Traffic Vol, veh/h | 0 | 0 | 70 | 0 | 0 | 32 |
| Future Vol, veh/h | 0 | 0 | 70 | 0 | 0 | 32 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, % | 6 | 6 | 6 | 6 | 6 | 6 |
| Mvmt Flow | 0 | 0 | 88 | 0 | 0 | 40 |























| Major/Minor | Minor1 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 128 | 44 | 0 |
| Stage 1 | 88 | - | - |
| Stage 2 | 40 | - | - |
| Critical Hdwy | 6.69 | 6.99 | 4.19 |
| Critical Hdwy Stg 1 | 5.89 | - | - |
| Critical Hdwy Stg 2 | 5.49 | - | - |
| Follow-up Hdwy | 3.557 | 3.357 | 2.257 |
| Pot Cap-1 Maneuver | 850 | 1005 | 1480 |
| Stage 1 | 916 | - | - |
| Stage 2 | 971 | - | - |
| Platoon blocked, % | | - | - |
| Mov Cap-1 Maneuver | 850 | 1005 | 1480 |
| Mov Cap-2 Maneuver | 850 | - | - |
| Stage 1 | 916 | - | - |
| Stage 2 | 971 | - | - |

| Approach | WB | NB | SB |
|-------------------|----|----|----|
| HCM Ctrl Dly, s/v | 0 | 0 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|-----------------------|-----|----------|------|-----|
| Capacity (veh/h) | - | - | 1480 | - |
| HCM Lane V/C Ratio | - | - | - | - |
| HCM Ctrl Dly (s/v) | - | - | 0 | - |
| HCM Lane LOS | - | - | A | - |
| HCM 95th %tile Q(veh) | - | - | 0 | - |

HCM 7th Signalized Intersection Summary
9: S Milpitas Dr & Montague Expy













1000 Gibraltar Dr - LTA
Existing AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  |  |  |  | |  |  |  |
| Traffic Volume (veh/h) | 264 | 763 | 8 | 90 | 2484 | 298 | 10 | 68 | 130 | 113 | 56 | 414 |
| Future Volume (veh/h) | 264 | 763 | 8 | 90 | 2484 | 298 | 10 | 68 | 130 | 113 | 56 | 414 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1914 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 278 | 803 | 8 | 95 | 2615 | 314 | 11 | 72 | 137 | 119 | 59 | 436 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 315 | 3105 | 31 | 127 | 2662 | 682 | 432 | 490 | 437 | 358 | 903 | 403 |
| Arrive On Green | 0.09 | 0.48 | 0.48 | 0.04 | 0.42 | 0.42 | 0.13 | 0.28 | 0.28 | 0.11 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3401 | 6513 | 65 | 3401 | 6332 | 1622 | 3401 | 1749 | 1560 | 3401 | 3497 | 1560 |
| Grp Volume(v), veh/h | 278 | 585 | 226 | 95 | 2615 | 314 | 11 | 72 | 137 | 119 | 59 | 436 |
| Grp Sat Flow(s),veh/h/ln | 1700 | 1583 | 1829 | 1700 | 1583 | 1622 | 1700 | 1749 | 1560 | 1700 | 1749 | 1560 |
| Q Serve(g_s), s | 18.6 | 16.9 | 17.0 | 6.4 | 93.8 | 32.0 | 0.7 | 7.1 | 15.9 | 7.5 | 2.9 | 59.4 |
| Cycle Q Clear(g_c), s | 18.6 | 16.9 | 17.0 | 6.4 | 93.8 | 32.0 | 0.7 | 7.1 | 15.9 | 7.5 | 2.9 | 59.4 |
| Prop In Lane | 1.00 | | 0.04 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 315 | 2264 | 872 | 127 | 2662 | 682 | 432 | 490 | 437 | 358 | 903 | 403 |
| V/C Ratio(X) | 0.88 | 0.26 | 0.26 | 0.75 | 0.98 | 0.46 | 0.03 | 0.15 | 0.31 | 0.33 | 0.07 | 1.08 |
| Avail Cap(c_a), veh/h | 500 | 2264 | 872 | 355 | 2662 | 682 | 432 | 490 | 437 | 358 | 903 | 403 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.90 | 0.90 | 0.90 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 103.1 | 35.9 | 35.9 | 109.7 | 65.8 | 47.9 | 87.9 | 62.2 | 65.4 | 95.4 | 64.4 | 85.3 |
| Incr Delay (d2), s/veh | 9.9 | 0.2 | 0.6 | 8.6 | 13.8 | 2.2 | 0.1 | 0.6 | 1.9 | 2.5 | 0.1 | 68.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.7 | 6.7 | 7.8 | 3.0 | 39.8 | 13.5 | 0.3 | 3.3 | 6.6 | 3.4 | 1.3 | 31.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 112.9 | 36.2 | 36.6 | 118.2 | 79.6 | 50.1 | 88.0 | 62.8 | 67.2 | 97.9 | 64.5 | 154.0 |
| LnGrp LOS | F | D | D | F | E | D | F | E | E | F | E | F |
| Approach Vol, veh/h | 1089 | | | 3024 | | | 220 | | | 614 | | |
| Approach Delay, s/veh | 55.9 | | | 77.8 | | | 66.8 | | | 134.5 | | |
| Approach LOS | E | | | E | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 27.5 | 102.5 | 35.0 | 65.0 | 14.6 | 115.4 | 30.0 | 70.0 | | | | |
| Change Period (Y+Rc), s | 6.2 | 5.8 | 5.8 | 5.6 | 6.0 | 5.8 | 5.8 | 5.6 | | | | |
| Max Green Setting (Gmax), s | 33.8 | 84.2 | 29.2 | 54.4 | 24.0 | 94.2 | 24.2 | 64.4 | | | | |
| Max Q Clear Time (g_c+I1), s | 20.6 | 95.8 | 2.7 | 61.4 | 8.4 | 19.0 | 9.5 | 17.9 | | | | |
| Green Ext Time (p_c), s | 0.7 | 0.0 | 0.0 | 0.0 | 0.2 | 5.7 | 0.3 | 1.3 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 79.5 | | | | | | | | | | | |
| HCM 7th LOS | E | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary
10: E Capitol Ave/Great Mall Pkwy & Montague Expy

1000 Gibraltar Dr - LTA
Existing AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|--|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 150 | 672 | 56 | 49 | 1773 | 1082 | 145 | 667 | 61 | 402 | 207 | 29 |
| Future Volume (veh/h) | 150 | 672 | 56 | 49 | 1773 | 1082 | 145 | 667 | 61 | 402 | 207 | 29 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 156 | 700 | 0 | 51 | 1847 | 1127 | 151 | 695 | 0 | 419 | 216 | 0 |
| Peak Hour Factor | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 186 | 3791 | | 75 | 3582 | 883 | 178 | 792 | | 456 | 1198 | |
| Arrive On Green | 0.05 | 0.60 | 0.00 | 0.02 | 0.57 | 0.57 | 0.05 | 0.16 | 0.00 | 0.13 | 0.24 | 0.00 |
| Sat Flow, veh/h | 3401 | 6332 | 1560 | 3401 | 6332 | 1560 | 3401 | 5025 | 1560 | 3401 | 5025 | 1560 |
| Grp Volume(v), veh/h | 156 | 700 | 0 | 51 | 1847 | 1127 | 151 | 695 | 0 | 419 | 216 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1700 | 1583 | 1560 | 1700 | 1583 | 1560 | 1700 | 1675 | 1560 | 1700 | 1675 | 1560 |
| Q Serve(g_s), s | 12.3 | 13.5 | 0.0 | 4.0 | 48.3 | 152.8 | 11.9 | 36.5 | 0.0 | 32.8 | 9.2 | 0.0 |
| Cycle Q Clear(g_c), s | 12.3 | 13.5 | 0.0 | 4.0 | 48.3 | 152.8 | 11.9 | 36.5 | 0.0 | 32.8 | 9.2 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 186 | 3791 | | 75 | 3582 | 883 | 178 | 792 | | 456 | 1198 | |
| V/C Ratio(X) | 0.84 | 0.18 | | 0.68 | 0.52 | 1.28 | 0.85 | 0.88 | | 0.92 | 0.18 | |
| Avail Cap(c_a), veh/h | 684 | 3791 | | 307 | 3582 | 883 | 293 | 1011 | | 674 | 1569 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.98 | 0.98 | 0.00 | 0.18 | 0.18 | 0.18 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 26.4 | 24.4 | 0.0 | 131.1 | 35.9 | 58.6 | 126.8 | 111.2 | 0.0 | 115.4 | 81.8 | 0.0 |
| Incr Delay (d2), s/veh | 9.4 | 0.1 | 0.0 | 1.9 | 0.1 | 126.3 | 11.4 | 7.4 | 0.0 | 13.3 | 0.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.7 | 5.2 | 0.0 | 1.8 | 18.9 | 90.4 | 5.6 | 16.6 | 0.0 | 15.6 | 4.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 135.8 | 24.5 | 0.0 | 133.0 | 36.0 | 184.9 | 138.2 | 118.5 | 0.0 | 128.7 | 81.9 | 0.0 |
| LnGrp LOS | F | C | | F | D | F | F | F | | F | F | |
| Approach Vol, veh/h | 856 | | 3025 | | | 846 | | | 635 | | | |
| Approach Delay, s/veh | 44.8 | | 93.1 | | | 122.1 | | | 112.8 | | | |
| Approach LOS | D | | F | | | F | | | F | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 20.5 | 158.6 | 42.7 | 48.2 | 11.6 | 167.5 | 20.9 | 70.1 | | | | |
| Change Period (Y+Rc), s | 5.7 | 5.8 | 6.5 | 5.7 | 5.6 | 5.8 | 6.7 | 5.7 | | | | |
| Max Green Setting (G_max), s | 54.3 | 84.2 | 53.5 | 54.3 | 24.4 | 114.2 | 23.3 | 84.3 | | | | |
| Max Q Clear Time (g_c+1/3), s | 114.3 | 154.8 | 34.8 | 38.5 | 6.0 | 15.5 | 13.9 | 11.2 | | | | |
| Green Ext Time (p_c), s | 0.5 | 0.0 | 1.4 | 4.0 | 0.1 | 5.1 | 0.3 | 1.5 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 92.3
HCM 7th LOS F













Notes

Unsignalized Delay for [NBR, EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
11: Trade Zone Blvd/McCandless Dr & Montague Expy

1000 Gibraltar Dr - LTA
Existing AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 48 | 669 | 585 | 75 | 1693 | 107 | 845 | 65 | 104 | 47 | 68 | 283 |
| Future Volume (veh/h) | 48 | 669 | 585 | 75 | 1693 | 107 | 845 | 65 | 104 | 47 | 68 | 283 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 49 | 690 | 603 | 77 | 1745 | 0 | 919 | 0 | 0 | 48 | 70 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 64 | 3192 | 991 | 98 | 3279 | | 765 | 0 | | 196 | 98 | |
| Arrive On Green | 0.04 | 0.64 | 0.64 | 0.06 | 0.65 | 0.00 | 0.10 | 0.00 | 0.00 | 0.04 | 0.05 | 0.00 |
| Sat Flow, veh/h | 1753 | 5025 | 1560 | 1753 | 5025 | 1560 | 5259 | 0 | 1560 | 1753 | 1841 | 1560 |
| Grp Volume(v), veh/h | 49 | 690 | 603 | 77 | 1745 | 0 | 919 | 0 | 0 | 48 | 70 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1753 | 1675 | 1560 | 1753 | 1675 | 1560 | 1753 | 0 | 1560 | 1753 | 1841 | 1560 |
| Q Serve(g_s), s | 3.9 | 8.1 | 32.2 | 6.1 | 25.9 | 0.0 | 14.6 | 0.0 | 0.0 | 3.6 | 5.2 | 0.0 |
| Cycle Q Clear(g_c), s | 3.9 | 8.1 | 32.2 | 6.1 | 25.9 | 0.0 | 14.6 | 0.0 | 0.0 | 3.6 | 5.2 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 64 | 3192 | 991 | 98 | 3279 | | 765 | 0 | | 196 | 98 | |
| V/C Ratio(X) | 0.77 | 0.22 | 0.61 | 0.79 | 0.53 | | 1.20 | 0.00 | | 0.24 | 0.71 | |
| Avail Cap(c_a), veh/h | 377 | 3192 | 991 | 381 | 3279 | | 765 | 0 | | 310 | 390 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.91 | 0.91 | 0.91 | 0.82 | 0.82 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 66.9 | 10.8 | 15.2 | 65.3 | 12.9 | 0.0 | 57.9 | 0.0 | 0.0 | 59.2 | 65.2 | 0.0 |
| Incr Delay (d2), s/veh | 16.2 | 0.1 | 2.5 | 10.8 | 0.5 | 0.0 | 102.9 | 0.0 | 0.0 | 0.6 | 9.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.0 | 2.9 | 12.0 | 3.0 | 9.0 | 0.0 | 9.3 | 0.0 | 0.0 | 1.6 | 2.7 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 83.0 | 10.9 | 17.7 | 76.1 | 13.5 | 0.0 | 160.8 | 0.0 | 0.0 | 59.8 | 74.4 | 0.0 |
| LnGrp LOS | F | B | B | E | B | | F | | | E | E | |
| Approach Vol, veh/h | 1342 | | | 1822 | | | 919 | | | 118 | | |
| Approach Delay, s/veh | 16.6 | | | 16.1 | | | 160.8 | | | 68.5 | | |
| Approach LOS | B | | | B | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 10.0 | 97.2 | 10.9 | 21.9 | 12.4 | 94.7 | 20.0 | 12.9 | | | | |
| Change Period (Y+Rc), s | 4.9 | 5.8 | 5.3 | 5.4 | 4.6 | 5.8 | 5.4 | * 5.4 | | | | |
| Max Green Setting (Gmax), s | 30.0 | 44.2 | 14.7 | 29.6 | 30.4 | 44.2 | 14.6 | * 30 | | | | |
| Max Q Clear Time (g_c+15, s) | 15.9 | 27.9 | 5.6 | 0.0 | 8.1 | 34.2 | 16.6 | 7.2 | | | | |
| Green Ext Time (p_c), s | 0.1 | 10.5 | 0.0 | 0.0 | 0.2 | 4.7 | 0.0 | 0.3 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 49.4
HCM 7th LOS D

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
12: Oakland Rd/S Main St & Montague Expy

1000 Gibraltar Dr - LTA
Existing AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|-------|-------|------|------|------|-------|-------|-------|------|------|------|------|
| Lane Configurations | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑ | ↱ | ↰↱ | ↑↑ | ↱ |
| Traffic Volume (veh/h) | 152 | 999 | 279 | 165 | 2516 | 95 | 490 | 168 | 168 | 145 | 196 | 446 |
| Future Volume (veh/h) | 152 | 999 | 279 | 165 | 2516 | 95 | 490 | 168 | 168 | 145 | 196 | 446 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | | No | | | | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 162 | 1063 | 0 | 176 | 2677 | 0 | 521 | 179 | 0 | 154 | 209 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 204 | 2692 | | 217 | 2722 | | 433 | 788 | | 196 | 547 | |
| Arrive On Green | 0.06 | 0.53 | 0.00 | 0.06 | 0.54 | 0.00 | 0.13 | 0.22 | 0.00 | 0.06 | 0.16 | 0.00 |
| Sat Flow, veh/h | 3428 | 5066 | 1572 | 3428 | 5066 | 1572 | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 |
| Grp Volume(v), veh/h | 162 | 1063 | 0 | 176 | 2677 | 0 | 521 | 179 | 0 | 154 | 209 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1689 | 1572 | 1714 | 1689 | 1572 | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 |
| Q Serve(g_s), s | 8.9 | 23.6 | 0.0 | 9.6 | 98.5 | 0.0 | 24.0 | 7.9 | 0.0 | 8.4 | 10.1 | 0.0 |
| Cycle Q Clear(g_c), s | 8.9 | 23.6 | 0.0 | 9.6 | 98.5 | 0.0 | 24.0 | 7.9 | 0.0 | 8.4 | 10.1 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 204 | 2692 | | 217 | 2722 | | 433 | 788 | | 196 | 547 | |
| V/C Ratio(X) | 0.79 | 0.39 | | 0.81 | 0.98 | | 1.20 | 0.23 | | 0.79 | 0.38 | |
| Avail Cap(c_a), veh/h | 530 | 2692 | | 433 | 2722 | | 433 | 788 | | 520 | 547 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 0.68 | 0.68 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 88.2 | 26.4 | 0.0 | 87.9 | 43.1 | 0.0 | 83.0 | 60.4 | 0.0 | 88.4 | 72.1 | 0.0 |
| Incr Delay (d2), s/veh | 6.9 | 0.4 | 0.0 | 4.9 | 10.9 | 0.0 | 111.6 | 0.7 | 0.0 | 6.8 | 2.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.1 | 9.6 | 0.0 | 4.4 | 42.2 | 0.0 | 17.4 | 3.6 | 0.0 | 3.9 | 4.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 95.1 | 26.8 | 0.0 | 92.8 | 54.0 | 0.0 | 194.6 | 61.0 | 0.0 | 95.3 | 74.1 | 0.0 |
| LnGrp LOS | F | C | | F | D | | F | E | | F | E | |
| Approach Vol, veh/h | 1225 | | | | 2853 | | 700 | | | | 363 | |
| Approach Delay, s/veh | 35.9 | | | | 56.4 | | 160.4 | | | | 83.1 | |
| Approach LOS | D | | | | E | | F | | | | F | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 16.9 | 107.9 | 17.0 | 48.2 | 18.0 | 106.8 | 30.0 | 35.2 | | | | |
| Change Period (Y+Rc), s | 5.6 | 5.8 | 6.2 | 5.7 | 6.0 | 5.8 | 6.0 | * 5.7 | | | | |
| Max Green Setting (Gmax), s | 29.4 | 84.2 | 28.8 | 24.3 | 24.0 | 89.2 | 24.0 | * 30 | | | | |
| Max Q Clear Time (g_c+10), s | 100.5 | 100.5 | 10.4 | 9.9 | 11.6 | 25.6 | 26.0 | 12.1 | | | | |
| Green Ext Time (p_c), s | 0.4 | 0.0 | 0.4 | 0.8 | 0.4 | 8.7 | 0.0 | 1.1 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 67.5
HCM 7th LOS E































Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
1: S Abel S/N Abel St & W Calaveras Blvd

1000 Gibraltar Dr - LTA
Existing PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |    |  |  |    |  |  |   |  |  |   |  |
| Traffic Volume (veh/h) | 170 | 1530 | 22 | 241 | 888 | 133 | 47 | 348 | 672 | 177 | 243 | 207 |
| Future Volume (veh/h) | 170 | 1530 | 22 | 241 | 888 | 133 | 47 | 348 | 672 | 177 | 243 | 207 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 173 | 1561 | 0 | 246 | 906 | 0 | 48 | 355 | 686 | 181 | 248 | 211 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 205 | 1955 | | 277 | 2140 | | 62 | 785 | 350 | 169 | 998 | 445 |
| Arrive On Green | 0.11 | 0.38 | 0.00 | 0.15 | 0.42 | 0.00 | 0.03 | 0.22 | 0.22 | 0.09 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1795 | 5147 | 1598 | 1795 | 5147 | 1598 | 1795 | 3582 | 1598 | 1795 | 3582 | 1598 |
| Grp Volume(v), veh/h | 173 | 1561 | 0 | 246 | 906 | 0 | 48 | 355 | 686 | 181 | 248 | 211 |
| Grp Sat Flow(s),veh/h/ln | 1795 | 1716 | 1598 | 1795 | 1716 | 1598 | 1795 | 1791 | 1598 | 1795 | 1791 | 1598 |
| Q Serve(g_s), s | 11.3 | 32.4 | 0.0 | 16.1 | 15.0 | 0.0 | 3.2 | 10.3 | 26.3 | 11.3 | 6.4 | 13.2 |
| Cycle Q Clear(g_c), s | 11.3 | 32.4 | 0.0 | 16.1 | 15.0 | 0.0 | 3.2 | 10.3 | 26.3 | 11.3 | 6.4 | 13.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 205 | 1955 | | 277 | 2140 | | 62 | 785 | 350 | 169 | 998 | 445 |
| V/C Ratio(X) | 0.84 | 0.80 | | 0.89 | 0.42 | | 0.77 | 0.45 | 1.96 | 1.07 | 0.25 | 0.47 |
| Avail Cap(c_a), veh/h | 468 | 1955 | | 386 | 2140 | | 199 | 785 | 350 | 169 | 998 | 445 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.1 | 33.1 | 0.0 | 49.7 | 24.9 | 0.0 | 57.4 | 40.6 | 46.8 | 54.3 | 33.5 | 36.0 |
| Incr Delay (d2), s/veh | 9.1 | 3.5 | 0.0 | 16.7 | 0.6 | 0.0 | 17.8 | 0.4 | 441.9 | 89.2 | 0.1 | 0.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.4 | 19.8 | 0.0 | 13.1 | 10.1 | 0.0 | 3.1 | 8.1 | 83.8 | 14.6 | 5.1 | 8.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 61.2 | 36.6 | 0.0 | 66.4 | 25.5 | 0.0 | 75.2 | 41.0 | 488.7 | 143.6 | 33.7 | 36.8 |
| LnGrp LOS | E | D | | E | C | | E | D | F | F | C | D |
| Approach Vol, veh/h | 1734 | | | 1152 | | | 1089 | | | 640 | | |
| Approach Delay, s/veh | 39.1 | | | 34.2 | | | 324.6 | | | 65.8 | | |
| Approach LOS | D | | | C | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 22.7 | 50.3 | 8.9 | 38.1 | 18.4 | 54.6 | 16.0 | 31.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.7 | 4.7 | 4.7 | 4.7 | * 4.7 | 4.7 | 4.7 | | | | |
| Max Green Setting (Gmax), s | 25.8 | 36.3 | 13.3 | 26.3 | 31.3 | * 30 | 11.3 | 26.3 | | | | |
| Max Q Clear Time (g_c+I1), s | 18.1 | 34.4 | 5.2 | 15.2 | 13.3 | 17.0 | 13.3 | 28.3 | | | | |
| Green Ext Time (p_c), s | 0.4 | 1.6 | 0.0 | 1.7 | 0.4 | 4.9 | 0.0 | 0.0 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 108.9
HCM 7th LOS F

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
2: S Milpitas Blvd/N Milpitas Blvd & E Calaveras Blvd

1000 Gibraltar Dr - LTA
Existing PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑ | ↱ | ↰↱ | ↑↑ | ↱ |
| Traffic Volume (veh/h) | 377 | 1362 | 613 | 118 | 905 | 187 | 302 | 253 | 108 | 192 | 304 | 238 |
| Future Volume (veh/h) | 377 | 1362 | 613 | 118 | 905 | 187 | 302 | 253 | 108 | 192 | 304 | 238 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | | No | | | | No | | | |
| Adj Sat Flow, veh/h/ln | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 397 | 1434 | 0 | 124 | 953 | 0 | 318 | 266 | 114 | 202 | 320 | 0 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 480 | 1863 | | 156 | 1602 | | 727 | 748 | 334 | 666 | 685 | |
| Arrive On Green | 0.14 | 0.36 | 0.00 | 0.09 | 0.31 | 0.00 | 0.21 | 0.21 | 0.21 | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3483 | 5147 | 1598 | 1795 | 5147 | 1598 | 3483 | 3582 | 1598 | 3483 | 3582 | 1598 |
| Grp Volume(v), veh/h | 397 | 1434 | 0 | 124 | 953 | 0 | 318 | 266 | 114 | 202 | 320 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1716 | 1598 | 1795 | 1716 | 1598 | 1742 | 1791 | 1598 | 1742 | 1791 | 1598 |
| Q Serve(g_s), s | 12.6 | 28.1 | 0.0 | 7.7 | 17.8 | 0.0 | 9.1 | 7.2 | 6.9 | 5.7 | 9.0 | 0.0 |
| Cycle Q Clear(g_c), s | 12.6 | 28.1 | 0.0 | 7.7 | 17.8 | 0.0 | 9.1 | 7.2 | 6.9 | 5.7 | 9.0 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 480 | 1863 | | 156 | 1602 | | 727 | 748 | 334 | 666 | 685 | |
| V/C Ratio(X) | 0.83 | 0.77 | | 0.79 | 0.59 | | 0.44 | 0.36 | 0.34 | 0.30 | 0.47 | |
| Avail Cap(c_a), veh/h | 788 | 1863 | | 328 | 1602 | | 727 | 748 | 334 | 666 | 685 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 47.8 | 32.2 | 0.0 | 51.0 | 33.2 | 0.0 | 39.3 | 38.5 | 38.4 | 39.6 | 40.9 | 0.0 |
| Incr Delay (d2), s/veh | 3.8 | 3.1 | 0.0 | 8.7 | 1.6 | 0.0 | 1.9 | 1.3 | 2.8 | 1.2 | 2.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.5 | 17.3 | 0.0 | 6.8 | 11.9 | 0.0 | 7.2 | 5.9 | 0.5 | 4.5 | 7.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 51.6 | 35.3 | 0.0 | 59.8 | 34.8 | 0.0 | 41.2 | 39.9 | 41.2 | 40.8 | 43.2 | 0.0 |
| LnGrp LOS | D | D | | E | C | | D | D | D | D | D | |
| Approach Vol, veh/h | 1831 | | | | 1077 | | | | 698 | | | |
| Approach Delay, s/veh | 38.8 | | | | 37.7 | | | | 40.7 | | | |
| Approach LOS | D | | | | D | | | | D | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 44.1 | 45.9 | 28.0 | 26.0 | 19.9 | 40.1 | 26.0 | 28.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | | | | |
| Max Green Setting (Gmax), s | 20.8 | 30.4 | 23.8 | 21.8 | 25.8 | 25.4 | 21.8 | 23.8 | | | | |
| Max Q Clear Time (g_c+I), s | 19.5 | 30.1 | 11.1 | 11.0 | 14.6 | 19.8 | 7.7 | 9.2 | | | | |
| Green Ext Time (p_c), s | 0.2 | 0.3 | 0.9 | 1.3 | 1.1 | 2.8 | 0.5 | 1.6 | | | | |

Intersection Summary

| | |
|------------------------------|------|
| HCM 7th Control Delay, s/veh | 39.3 |
| HCM 7th LOS | D |

Notes

Unsignalized Delay for [EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 3: S Milpitas Blvd & Yosemite Dr

1000 Gibraltar Dr - LTA
Existing PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 40 | 28 | 8 | 184 | 7 | 148 | 0 | 275 | 133 | 349 | 616 | 5 |
| Future Volume (veh/h) | 40 | 28 | 8 | 184 | 7 | 148 | 0 | 275 | 133 | 349 | 616 | 5 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 41 | 29 | 8 | 188 | 7 | 151 | 0 | 281 | 136 | 356 | 629 | 5 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 163 | 118 | 33 | 288 | 9 | 188 | 2 | 1066 | 503 | 380 | 2556 | 20 |
| Arrive On Green | 0.03 | 0.08 | 0.08 | 0.07 | 0.12 | 0.12 | 0.00 | 0.45 | 0.45 | 0.21 | 0.71 | 0.71 |
| Sat Flow, veh/h | 1781 | 1411 | 389 | 1781 | 71 | 1525 | 1781 | 2344 | 1105 | 1781 | 3613 | 29 |
| Grp Volume(v), veh/h | 41 | 0 | 37 | 188 | 0 | 158 | 0 | 211 | 206 | 356 | 309 | 325 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1800 | 1781 | 0 | 1596 | 1781 | 1777 | 1672 | 1781 | 1777 | 1865 |
| Q Serve(g_s), s | 2.1 | 0.0 | 2.0 | 7.5 | 0.0 | 9.9 | 0.0 | 7.6 | 7.9 | 20.2 | 6.4 | 6.4 |
| Cycle Q Clear(g_c), s | 2.1 | 0.0 | 2.0 | 7.5 | 0.0 | 9.9 | 0.0 | 7.6 | 7.9 | 20.2 | 6.4 | 6.4 |
| Prop In Lane | 1.00 | | 0.22 | 1.00 | | 0.96 | 1.00 | | 0.66 | 1.00 | | 0.02 |
| Lane Grp Cap(c), veh/h | 163 | 0 | 151 | 288 | 0 | 197 | 2 | 808 | 760 | 380 | 1257 | 1319 |
| V/C Ratio(X) | 0.25 | 0.00 | 0.24 | 0.65 | 0.00 | 0.80 | 0.00 | 0.26 | 0.27 | 0.94 | 0.25 | 0.25 |
| Avail Cap(c_a), veh/h | 233 | 0 | 533 | 288 | 0 | 473 | 277 | 808 | 760 | 380 | 1257 | 1319 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 41.2 | 0.0 | 44.1 | 40.5 | 0.0 | 43.9 | 0.0 | 17.4 | 17.4 | 39.8 | 5.3 | 5.3 |
| Incr Delay (d2), s/veh | 0.8 | 0.0 | 0.8 | 5.2 | 0.0 | 7.5 | 0.0 | 0.8 | 0.9 | 30.3 | 0.5 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 1.7 | 0.0 | 1.6 | 8.6 | 0.0 | 7.6 | 0.0 | 5.6 | 5.5 | 17.3 | 3.7 | 3.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 42.0 | 0.0 | 45.0 | 45.7 | 0.0 | 51.4 | 0.0 | 18.1 | 18.3 | 70.1 | 5.8 | 5.8 |
| LnGrp LOS | D | | D | D | | D | | B | B | E | A | A |
| Approach Vol, veh/h | 78 | | | | | 346 | | 417 | | 990 | | |
| Approach Delay, s/veh | 43.4 | | | | | 48.3 | | 18.2 | | 28.9 | | |
| Approach LOS | D | | | | | D | | B | | C | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 36.0 | 51.9 | 12.0 | 13.1 | 0.0 | 77.9 | 8.0 | 17.2 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.5 | 4.5 | 4.0 | 5.0 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 22.0 | 25.0 | 7.5 | 30.5 | 16.0 | 31.0 | 7.5 | 30.5 | | | | |
| Max Q Clear Time (g_c+Q_c), s | 22.2 | 9.9 | 9.5 | 4.0 | 0.0 | 8.4 | 4.1 | 11.9 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.0 | 0.0 | 0.1 | 0.0 | 3.6 | 0.0 | 0.8 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 30.8 | | | | | | | | | | | |
| HCM 7th LOS | C | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary 4: S Milpitas Blvd & D1/Ames Ave

1000 Gibraltar Dr - LTA
Existing PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | ↔ | ↔ | | ↔ | ↔ | |
| Traffic Volume (veh/h) | 0 | 0 | 0 | 73 | 0 | 23 | 0 | 376 | 23 | 23 | 798 | 0 |
| Future Volume (veh/h) | 0 | 0 | 0 | 73 | 0 | 23 | 0 | 376 | 23 | 23 | 798 | 0 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 0 | 0 | 0 | 75 | 0 | 24 | 0 | 388 | 24 | 24 | 823 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 0 | 159 | 0 | 162 | 2 | 30 | 2 | 2515 | 155 | 45 | 2876 | 0 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.09 | 0.00 | 0.74 | 0.74 | 0.03 | 0.81 | 0.00 |
| Sat Flow, veh/h | 0 | 1870 | 0 | 1083 | 24 | 354 | 1781 | 3400 | 210 | 1781 | 3647 | 0 |
| Grp Volume(v), veh/h | 0 | 0 | 0 | 99 | 0 | 0 | 0 | 202 | 210 | 24 | 823 | 0 |
| Grp Sat Flow(s),veh/h/ln | 0 | 1870 | 0 | 1461 | 0 | 0 | 1781 | 1777 | 1833 | 1781 | 1777 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 5.8 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 1.2 | 5.2 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 1.2 | 5.2 | 0.0 |
| Prop In Lane | 0.00 | | 0.00 | 0.76 | | 0.24 | 1.00 | | 0.11 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 0 | 159 | 0 | 195 | 0 | 0 | 2 | 1315 | 1356 | 45 | 2876 | 0 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0.00 | 0.00 | 0.15 | 0.15 | 0.54 | 0.29 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 333 | 0 | 483 | 0 | 0 | 317 | 1315 | 1356 | 317 | 2876 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 0.0 | 40.4 | 0.0 | 0.0 | 0.0 | 3.4 | 3.4 | 43.4 | 2.1 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 9.7 | 0.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 1.5 | 1.5 | 1.1 | 1.6 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 0.0 | 42.4 | 0.0 | 0.0 | 0.0 | 3.7 | 3.7 | 53.0 | 2.4 | 0.0 |
| LnGrp LOS | | | | D | | | | A | A | D | A | |
| Approach Vol, veh/h | 0 | | | 99 | | | 412 | | | 847 | | |
| Approach Delay, s/veh | 0.0 | | | 42.4 | | | 3.7 | | | 3.8 | | |
| Approach LOS | | | | D | | | A | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 6.3 | 71.6 | | 12.2 | 0.0 | 77.8 | | 12.2 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | | * 4.5 | 4.0 | 5.0 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.0 | 35.0 | | * 16 | 16.0 | 35.0 | | 25.5 | | | | |
| Max Q Clear Time (g_c+13.2), s | 13.2 | 5.0 | | 0.0 | 0.0 | 7.2 | | 8.0 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.3 | | 0.0 | 0.0 | 5.9 | | 0.4 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 6.6
HCM 7th LOS A

Notes

User approved pedestrian interval to be less than phase max green.





* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

HCM 7th Signalized Intersection Summary
6: S Milpitas Blvd & Gibraltar Dr/ABC Dwy

1000 Gibraltar Dr - LTA
Existing PM






| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|-------|------|-------|-------|-------|-------|------|------|-------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 7 | 0 | 115 | 16 | 0 | 9 | 21 | 380 | 16 | 1 | 873 | 1 |
| Future Volume (veh/h) | 7 | 0 | 115 | 16 | 0 | 9 | 21 | 380 | 16 | 1 | 873 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 0 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 7 | 0 | 121 | 17 | 0 | 9 | 22 | 400 | 17 | 1 | 919 | 1 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 0 | 0 | 0 | 21 | 0 | 11 | 30 | 3070 | 130 | 2 | 1624 | 1376 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.02 | 0.02 | 0.88 | 0.88 | 0.00 | 0.86 | 0.86 |
| Sat Flow, veh/h | | 0 | | 1126 | 0 | 596 | 1795 | 3501 | 148 | 1795 | 1885 | 1598 |
| Grp Volume(v), veh/h | | 0.0 | | 26 | 0 | 0 | 22 | 204 | 213 | 1 | 919 | 1 |
| Grp Sat Flow(s), veh/h/ln | | | | 1722 | 0 | 0 | 1795 | 1791 | 1858 | 1795 | 1885 | 1598 |
| Q Serve(g_s), s | | | | 2.0 | 0.0 | 0.0 | 1.7 | 2.2 | 2.2 | 0.1 | 17.9 | 0.0 |
| Cycle Q Clear(g_c), s | | | | 2.0 | 0.0 | 0.0 | 1.7 | 2.2 | 2.2 | 0.1 | 17.9 | 0.0 |
| Prop In Lane | | | | 0.65 | | 0.35 | 1.00 | | 0.08 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | | | | 33 | 0 | 0 | 30 | 1570 | 1630 | 2 | 1624 | 1376 |
| V/C Ratio(X) | | | | 0.79 | 0.00 | 0.00 | 0.74 | 0.13 | 0.13 | 0.51 | 0.57 | 0.00 |
| Avail Cap(c_a), veh/h | | | | 348 | 0 | 0 | 363 | 1570 | 1630 | 363 | 1624 | 1376 |
| HCM Platoon Ratio | | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | | | | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | | | 66.4 | 0.0 | 0.0 | 66.6 | 1.2 | 1.2 | 67.9 | 2.5 | 1.3 |
| Incr Delay (d2), s/veh | | | | 43.7 | 0.0 | 0.0 | 39.3 | 0.2 | 0.2 | 167.8 | 1.4 | 0.0 |
| Initial Q Delay(d3), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | | | | 2.3 | 0.0 | 0.0 | 1.9 | 0.7 | 0.7 | 0.2 | 7.3 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | | | | 110.1 | 0.0 | 0.0 | 105.9 | 1.3 | 1.3 | 235.6 | 4.0 | 1.3 |
| LnGrp LOS | | | | F | | | F | A | A | F | A | A |
| Approach Vol, veh/h | | | | | 26 | | | 439 | | | 921 | |
| Approach Delay, s/veh | | | | | 110.1 | | | 6.6 | | | 4.2 | |
| Approach LOS | | | | | F | | | A | | | A | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | | | | | |
| Phs Duration (G+Y+Rc), s | 4.6 | 124.3 | | 7.1 | 6.8 | 122.1 | | | | | | |
| Change Period (Y+Rc), s | 4.5 | 5.0 | | 4.5 | 4.5 | 5.0 | | | | | | |
| Max Green Setting (Gmax), s | 27.5 | 35.0 | | 27.5 | 27.5 | 35.0 | | | | | | |
| Max Q Clear Time (g_c+I), s | 4.2 | 4.2 | | 4.0 | 3.7 | 19.9 | | | | | | |
| Green Ext Time (p_c), s | 0.0 | 6.2 | | 0.1 | 0.0 | 10.8 | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 7.0 | | | | | | | | | |
| HCM 7th LOS | | | A | | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|---|------|--------|---|------|--------|---|-------|--------|---|-------|
| Int Delay, s/veh | 0.9 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  | | |  | | |  | | |  | |
| Traffic Vol, veh/h | 0 | 94 | 0 | 2 | 16 | 0 | 0 | 0 | 11 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 94 | 0 | 2 | 16 | 0 | 0 | 0 | 11 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 119 | 0 | 3 | 20 | 0 | 0 | 0 | 14 | 0 | 0 | 0 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 20 | 0 | 0 | 119 | 0 | 0 | 144 | 144 | 119 | 144 | 144 | 20 |
| Stage 1 | - | - | - | - | - | - | 119 | 119 | - | 25 | 25 | - |
| Stage 2 | - | - | - | - | - | - | 25 | 25 | - | 119 | 119 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1596 | - | - | 1469 | - | - | 825 | 747 | 933 | 825 | 747 | 1057 |
| Stage 1 | - | - | - | - | - | - | 885 | 797 | - | 992 | 874 | - |
| Stage 2 | - | - | - | - | - | - | 992 | 874 | - | 885 | 797 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1596 | - | - | 1469 | - | - | 823 | 746 | 933 | 811 | 746 | 1057 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 823 | 746 | - | 811 | 746 | - |
| Stage 1 | - | - | - | - | - | - | 885 | 797 | - | 991 | 873 | - |
| Stage 2 | - | - | - | - | - | - | 991 | 873 | - | 872 | 797 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Ctrl Dly, s/v | 0 | | | 0.83 | | | 8.92 | | | 0 | | |
| HCM LOS | | | | | | | A | | | A | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 933 | 1596 | - | - | 1469 | - | - | - | | | | |
| HCM Lane V/C Ratio | 0.015 | - | - | - | 0.002 | - | - | - | | | | |
| HCM Ctrl Dly (s/v) | 8.9 | 0 | - | - | 7.5 | - | - | 0 | | | | |
| HCM Lane LOS | A | A | - | - | A | - | - | A | | | | |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | - | | | | |

Intersection

Int Delay, s/veh 0

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|---|------|---|------|------|---|
| Lane Configurations |  | |  | | |  |
| Traffic Vol, veh/h | 0 | 0 | 35 | 0 | 0 | 60 |
| Future Vol, veh/h | 0 | 0 | 35 | 0 | 0 | 60 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 60 | 60 | 60 | 60 | 60 | 60 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 58 | 0 | 0 | 100 |























| Major/Minor | Minor1 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 158 | 29 | 0 |
| Stage 1 | 58 | - | - |
| Stage 2 | 100 | - | - |
| Critical Hdwy | 6.63 | 6.93 | 4.13 |
| Critical Hdwy Stg 1 | 5.83 | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - |
| Follow-up Hdwy | 3.519 | 3.319 | 2.219 |
| Pot Cap-1 Maneuver | 825 | 1039 | 1545 |
| Stage 1 | 958 | - | - |
| Stage 2 | 923 | - | - |
| Platoon blocked, % | | - | - |
| Mov Cap-1 Maneuver | 825 | 1039 | 1545 |
| Mov Cap-2 Maneuver | 825 | - | - |
| Stage 1 | 958 | - | - |
| Stage 2 | 923 | - | - |

| Approach | WB | NB | SB |
|-------------------|----|----|----|
| HCM Ctrl Dly, s/v | 0 | 0 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|-----------------------|-----|----------|------|-----|
| Capacity (veh/h) | - | - | 1545 | - |
| HCM Lane V/C Ratio | - | - | - | - |
| HCM Ctrl Dly (s/v) | - | - | 0 | - |
| HCM Lane LOS | - | - | A | - |
| HCM 95th %tile Q(veh) | - | - | 0 | - |

HCM 7th Signalized Intersection Summary
9: S Milpitas Dr & Montague Expy

1000 Gibraltar Dr - LTA
Existing PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  |  |  |  | |  |  |  |
| Traffic Volume (veh/h) | 374 | 1806 | 30 | 88 | 1078 | 125 | 18 | 78 | 136 | 343 | 164 | 497 |
| Future Volume (veh/h) | 374 | 1806 | 30 | 88 | 1078 | 125 | 18 | 78 | 136 | 343 | 164 | 497 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1945 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 382 | 1843 | 31 | 90 | 1100 | 128 | 18 | 80 | 139 | 350 | 167 | 507 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 419 | 3142 | 53 | 122 | 2521 | 646 | 439 | 498 | 444 | 364 | 918 | 409 |
| Arrive On Green | 0.12 | 0.48 | 0.48 | 0.04 | 0.39 | 0.39 | 0.13 | 0.28 | 0.28 | 0.11 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3456 | 6566 | 110 | 3456 | 6434 | 1648 | 3456 | 1777 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 382 | 1355 | 519 | 90 | 1100 | 128 | 18 | 80 | 139 | 350 | 167 | 507 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1609 | 1850 | 1728 | 1609 | 1648 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 25.1 | 46.8 | 46.8 | 5.9 | 28.8 | 11.8 | 1.1 | 7.8 | 15.9 | 23.2 | 8.4 | 59.4 |
| Cycle Q Clear(g_c), s | 25.1 | 46.8 | 46.8 | 5.9 | 28.8 | 11.8 | 1.1 | 7.8 | 15.9 | 23.2 | 8.4 | 59.4 |
| Prop In Lane | 1.00 | | 0.06 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 419 | 2309 | 886 | 122 | 2521 | 646 | 439 | 498 | 444 | 364 | 918 | 409 |
| V/C Ratio(X) | 0.91 | 0.59 | 0.59 | 0.74 | 0.44 | 0.20 | 0.04 | 0.16 | 0.31 | 0.96 | 0.18 | 1.24 |
| Avail Cap(c_a), veh/h | 508 | 2309 | 886 | 361 | 2521 | 646 | 439 | 498 | 444 | 364 | 918 | 409 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.77 | 0.77 | 0.77 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 99.9 | 43.5 | 43.5 | 109.9 | 51.3 | 46.1 | 88.1 | 62.4 | 65.3 | 102.4 | 66.4 | 85.3 |
| Incr Delay (d2), s/veh | 15.2 | 0.8 | 2.2 | 8.4 | 0.6 | 0.7 | 0.2 | 0.7 | 1.8 | 38.6 | 0.4 | 126.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 17.2 | 25.1 | 28.8 | 5.1 | 17.4 | 8.7 | 0.9 | 6.6 | 11.0 | 18.2 | 7.0 | 55.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 115.0 | 44.3 | 45.7 | 118.2 | 51.9 | 46.8 | 88.3 | 63.1 | 67.2 | 141.1 | 66.8 | 212.0 |
| LnGrp LOS | F | D | D | F | D | D | F | E | E | F | E | F |
| Approach Vol, veh/h | 2256 | | | 1318 | | | 237 | | | 1024 | | |
| Approach Delay, s/veh | 56.6 | | | 55.9 | | | 67.4 | | | 164.1 | | |
| Approach LOS | E | | | E | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 34.1 | 95.9 | 35.0 | 65.0 | 14.1 | 115.9 | 30.0 | 70.0 | | | | |
| Change Period (Y+Rc), s | 6.2 | 5.8 | 5.8 | 5.6 | 6.0 | 5.8 | 5.8 | 5.6 | | | | |
| Max Green Setting (Gmax), s | 33.8 | 84.2 | 29.2 | 54.4 | 24.0 | 94.2 | 24.2 | 64.4 | | | | |
| Max Q Clear Time (g_c+I1), s | 27.1 | 30.8 | 3.1 | 61.4 | 7.9 | 48.8 | 25.2 | 17.9 | | | | |
| Green Ext Time (p_c), s | 0.8 | 9.7 | 0.0 | 0.0 | 0.2 | 18.4 | 0.0 | 1.3 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 79.7 | | | | | | | | | | | |
| HCM 7th LOS | E | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary
10: E Capitol Ave/Great Mall Pkwy & Montague Expy

1000 Gibraltar Dr - LTA
Existing PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---------------------------------|-------|-------|------|-------|------|-------|-------|-------|------|-------|-------|------|
| Lane Configurations | ↰ | ↑↑↑ | ↱ | ↰ | ↑↑↑ | ↱ | ↰ | ↑↑↑ | ↱ | ↰ | ↑↑↑ | ↱ |
| Traffic Volume (veh/h) | 198 | 1610 | 237 | 129 | 972 | 371 | 133 | 287 | 73 | 584 | 1174 | 55 |
| Future Volume (veh/h) | 198 | 1610 | 237 | 129 | 972 | 371 | 133 | 287 | 73 | 584 | 1174 | 55 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 202 | 1643 | 0 | 132 | 992 | 379 | 136 | 293 | 0 | 596 | 1198 | 0 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 234 | 3564 | | 160 | 3424 | 843 | 164 | 665 | | 629 | 1349 | |
| Arrive On Green | 0.07 | 0.55 | 0.00 | 0.05 | 0.53 | 0.53 | 0.05 | 0.13 | 0.00 | 0.18 | 0.26 | 0.00 |
| Sat Flow, veh/h | 3456 | 6434 | 1585 | 3456 | 6434 | 1585 | 3456 | 5106 | 1585 | 3456 | 5106 | 1585 |
| Grp Volume(v), veh/h | 202 | 1643 | 0 | 132 | 992 | 379 | 136 | 293 | 0 | 596 | 1198 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1609 | 1585 | 1728 | 1609 | 1585 | 1728 | 1702 | 1585 | 1728 | 1702 | 1585 |
| Q Serve(g_s), s | 15.6 | 41.3 | 0.0 | 10.2 | 23.0 | 39.7 | 10.5 | 14.3 | 0.0 | 46.0 | 60.9 | 0.0 |
| Cycle Q Clear(g_c), s | 15.6 | 41.3 | 0.0 | 10.2 | 23.0 | 39.7 | 10.5 | 14.3 | 0.0 | 46.0 | 60.9 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 234 | 3564 | | 160 | 3424 | 843 | 164 | 665 | | 629 | 1349 | |
| V/C Ratio(X) | 0.86 | 0.46 | | 0.83 | 0.29 | 0.45 | 0.83 | 0.44 | | 0.95 | 0.89 | |
| Avail Cap(c_a), veh/h | 695 | 3564 | | 312 | 3424 | 843 | 298 | 1027 | | 685 | 1594 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.59 | 0.59 | 0.00 | 0.83 | 0.83 | 0.83 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 124.6 | 36.1 | 0.0 | 127.7 | 34.9 | 38.8 | 127.5 | 108.4 | 0.0 | 109.1 | 95.5 | 0.0 |
| Incr Delay (d2), s/veh | 5.6 | 0.3 | 0.0 | 8.6 | 0.2 | 1.4 | 10.2 | 0.5 | 0.0 | 21.4 | 5.8 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 10.7 | 21.7 | 0.0 | 8.1 | 13.8 | 22.2 | 8.7 | 10.6 | 0.0 | 30.6 | 36.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 130.2 | 36.3 | 0.0 | 136.3 | 35.1 | 40.3 | 137.7 | 108.8 | 0.0 | 130.5 | 101.3 | 0.0 |
| LnGrp LOS | F | D | | F | D | D | F | F | | F | F | |
| Approach Vol, veh/h | 1845 | | | 1503 | | | 429 | | | 1794 | | |
| Approach Delay, s/veh | 46.6 | | | 45.3 | | | 118.0 | | | 111.0 | | |
| Approach LOS | D | | | D | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 24.0 | 149.5 | 55.7 | 40.9 | 18.1 | 155.4 | 19.5 | 77.0 | | | | |
| Change Period (Y+Rc), s | 5.7 | 5.8 | 6.5 | 5.7 | 5.6 | 5.8 | 6.7 | 5.7 | | | | |
| Max Green Setting (Gmax), s | 54.3 | 84.2 | 53.5 | 54.3 | 24.4 | 114.2 | 23.3 | 84.3 | | | | |
| Max Q Clear Time (g_c+117.6), s | 117.6 | 41.7 | 48.0 | 16.3 | 12.2 | 43.3 | 12.5 | 62.9 | | | | |
| Green Ext Time (p_c), s | 0.7 | 9.8 | 1.2 | 2.0 | 0.3 | 18.1 | 0.3 | 8.4 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 72.5
HCM 7th LOS E













Notes

Unsignalized Delay for [NBR, EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
11: Trade Zone Blvd/McCandless Dr & Montague Expy

1000 Gibraltar Dr - LTA
Existing PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 99 | 1954 | 1094 | 215 | 912 | 43 | 563 | 54 | 195 | 46 | 128 | 142 |
| Future Volume (veh/h) | 99 | 1954 | 1094 | 215 | 912 | 43 | 563 | 54 | 195 | 46 | 128 | 142 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 101 | 1994 | 1116 | 219 | 931 | 0 | 497 | 163 | 0 | 47 | 131 | 0 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 125 | 2649 | 822 | 246 | 2985 | | 521 | 288 | | 209 | 163 | |
| Arrive On Green | 0.07 | 0.52 | 0.52 | 0.14 | 0.58 | 0.00 | 0.10 | 0.15 | 0.00 | 0.04 | 0.09 | 0.00 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 1781 | 5106 | 1585 | 3563 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 101 | 1994 | 1116 | 219 | 931 | 0 | 497 | 163 | 0 | 47 | 131 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1702 | 1585 | 1781 | 1702 | 1585 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 7.8 | 43.2 | 72.6 | 16.9 | 13.0 | 0.0 | 14.6 | 11.3 | 0.0 | 3.3 | 9.6 | 0.0 |
| Cycle Q Clear(g_c), s | 7.8 | 43.2 | 72.6 | 16.9 | 13.0 | 0.0 | 14.6 | 11.3 | 0.0 | 3.3 | 9.6 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 125 | 2649 | 822 | 246 | 2985 | | 521 | 288 | | 209 | 163 | |
| V/C Ratio(X) | 0.81 | 0.75 | 1.36 | 0.89 | 0.31 | | 0.95 | 0.57 | | 0.22 | 0.80 | |
| Avail Cap(c_a), veh/h | 383 | 2649 | 822 | 387 | 2985 | | 521 | 395 | | 328 | 397 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.36 | 0.36 | 0.36 | 0.95 | 0.95 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 64.1 | 26.6 | 33.7 | 59.3 | 14.8 | 0.0 | 53.8 | 54.9 | 0.0 | 55.0 | 62.7 | 0.0 |
| Incr Delay (d2), s/veh | 4.5 | 0.7 | 163.7 | 14.0 | 0.3 | 0.0 | 28.1 | 1.7 | 0.0 | 0.5 | 8.8 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 5.5 | 20.7 | 90.7 | 13.1 | 8.4 | 0.0 | 6.7 | 9.3 | 0.0 | 2.8 | 8.7 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 68.6 | 27.3 | 197.4 | 73.3 | 15.0 | 0.0 | 81.8 | 56.6 | 0.0 | 55.5 | 71.5 | 0.0 |
| LnGrp LOS | E | C | F | E | B | | F | E | | E | E | |
| Approach Vol, veh/h | 3211 | | | 1150 | | | 660 | | | 178 | | |
| Approach Delay, s/veh | 87.7 | | | 26.1 | | | 75.6 | | | 67.3 | | |
| Approach LOS | F | | | C | | | E | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 4.7 | 87.6 | 10.7 | 27.0 | 23.9 | 78.4 | 20.0 | 17.6 | | | | |
| Change Period (Y+Rc), s | 4.9 | 5.8 | 5.3 | 5.4 | 4.6 | 5.8 | 5.4 | * 5.4 | | | | |
| Max Green Setting (Gmax), s | 30.1 | 44.2 | 14.7 | 29.6 | 30.4 | 44.2 | 14.6 | * 30 | | | | |
| Max Q Clear Time (g_c+19.8) | 19.8 | 15.0 | 5.3 | 13.3 | 18.9 | 74.6 | 16.6 | 11.6 | | | | |
| Green Ext Time (p_c), s | 0.2 | 6.7 | 0.0 | 0.7 | 0.4 | 0.0 | 0.0 | 0.6 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 71.9
HCM 7th LOS E

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
12: Oakland Rd/S Main St & Montague Expy

1000 Gibraltar Dr - LTA
Existing PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|-------|-------|------|------|------|-------|------|-------|------|------|------|------|
| Lane Configurations | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑ | ↱ | ↰↱ | ↑↑ | ↱ |
| Traffic Volume (veh/h) | 219 | 2396 | 182 | 162 | 1273 | 137 | 290 | 256 | 326 | 245 | 342 | 200 |
| Future Volume (veh/h) | 219 | 2396 | 182 | 162 | 1273 | 137 | 290 | 256 | 326 | 245 | 342 | 200 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | | No | | | | No | | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 221 | 2420 | 0 | 164 | 1286 | 0 | 293 | 259 | 0 | 247 | 345 | 0 |
| Peak Hour Factor | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 265 | 2884 | | 205 | 2806 | | 335 | 592 | | 292 | 552 | |
| Arrive On Green | 0.08 | 0.56 | 0.00 | 0.06 | 0.55 | 0.00 | 0.10 | 0.17 | 0.00 | 0.08 | 0.16 | 0.00 |
| Sat Flow, veh/h | 3456 | 5106 | 1585 | 3456 | 5106 | 1585 | 3456 | 3554 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 221 | 2420 | 0 | 164 | 1286 | 0 | 293 | 259 | 0 | 247 | 345 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1702 | 1585 | 1728 | 1702 | 1585 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 12.0 | 74.5 | 0.0 | 8.9 | 28.8 | 0.0 | 15.9 | 12.4 | 0.0 | 13.4 | 17.3 | 0.0 |
| Cycle Q Clear(g_c), s | 12.0 | 74.5 | 0.0 | 8.9 | 28.8 | 0.0 | 15.9 | 12.4 | 0.0 | 13.4 | 17.3 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 265 | 2884 | | 205 | 2806 | | 335 | 592 | | 292 | 552 | |
| V/C Ratio(X) | 0.83 | 0.84 | | 0.80 | 0.46 | | 0.87 | 0.44 | | 0.85 | 0.63 | |
| Avail Cap(c_a), veh/h | 535 | 2884 | | 437 | 2806 | | 437 | 592 | | 524 | 552 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 0.89 | 0.89 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 86.5 | 34.2 | 0.0 | 88.2 | 25.8 | 0.0 | 84.7 | 71.2 | 0.0 | 85.8 | 75.1 | 0.0 |
| Incr Delay (d2), s/veh | 6.7 | 3.1 | 0.0 | 6.3 | 0.5 | 0.0 | 14.5 | 2.3 | 0.0 | 6.7 | 5.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.5 | 39.7 | 0.0 | 7.3 | 17.0 | 0.0 | 12.4 | 9.9 | 0.0 | 10.4 | 13.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 93.2 | 37.3 | 0.0 | 94.5 | 26.3 | 0.0 | 99.1 | 73.5 | 0.0 | 92.4 | 80.4 | 0.0 |
| LnGrp LOS | F | D | | F | C | | F | E | | F | F | |
| Approach Vol, veh/h | 2641 | | | | 1450 | | | | 552 | | 592 | |
| Approach Delay, s/veh | 42.0 | | | | 34.0 | | | | 87.1 | | 85.4 | |
| Approach LOS | D | | | | C | | | | F | | F | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 20.2 | 110.2 | 22.3 | 37.4 | 17.3 | 113.1 | 24.4 | 35.2 | | | | |
| Change Period (Y+Rc), s | 5.6 | 5.8 | 6.2 | 5.7 | 6.0 | 5.8 | 6.0 | * 5.7 | | | | |
| Max Green Setting (Gmax), s | 29.4 | 84.2 | 28.8 | 24.3 | 24.0 | 89.2 | 24.0 | * 30 | | | | |
| Max Q Clear Time (g_c+T1), s | 114.0 | 30.8 | 15.4 | 14.4 | 10.9 | 76.5 | 17.9 | 19.3 | | | | |
| Green Ext Time (p_c), s | 0.6 | 11.5 | 0.7 | 1.0 | 0.4 | 11.0 | 0.5 | 1.5 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 49.4
HCM 7th LOS D

Notes

























* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

D2 – No-Build Conditions 2026

HCM 7th Signalized Intersection Summary
1: S Abel S/N Abel St & W Calaveras Blvd

1000 Gibraltar Dr - LTA
2026 No Build AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 155 | 800 | 25 | 327 | 1614 | 108 | 29 | 277 | 313 | 131 | 365 | 459 |
| Future Volume (veh/h) | 155 | 800 | 25 | 327 | 1614 | 108 | 29 | 277 | 313 | 131 | 365 | 459 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 168 | 870 | 0 | 355 | 1754 | 0 | 32 | 301 | 340 | 142 | 397 | 499 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 200 | 1640 | | 379 | 2134 | | 49 | 779 | 347 | 168 | 1016 | 453 |
| Arrive On Green | 0.11 | 0.32 | 0.00 | 0.21 | 0.42 | 0.00 | 0.03 | 0.22 | 0.22 | 0.09 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 1781 | 5106 | 1585 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 168 | 870 | 0 | 355 | 1754 | 0 | 32 | 301 | 340 | 142 | 397 | 499 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1702 | 1585 | 1781 | 1702 | 1585 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 11.1 | 16.7 | 0.0 | 23.5 | 36.5 | 0.0 | 2.1 | 8.7 | 25.6 | 9.4 | 10.8 | 34.3 |
| Cycle Q Clear(g_c), s | 11.1 | 16.7 | 0.0 | 23.5 | 36.5 | 0.0 | 2.1 | 8.7 | 25.6 | 9.4 | 10.8 | 34.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 200 | 1640 | | 379 | 2134 | | 49 | 779 | 347 | 168 | 1016 | 453 |
| V/C Ratio(X) | 0.84 | 0.53 | | 0.94 | 0.82 | | 0.66 | 0.39 | 0.98 | 0.85 | 0.39 | 1.10 |
| Avail Cap(c_a), veh/h | 465 | 1640 | | 383 | 2134 | | 197 | 779 | 347 | 168 | 1016 | 453 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.2 | 33.3 | 0.0 | 46.4 | 31.0 | 0.0 | 57.8 | 40.0 | 46.6 | 53.5 | 34.4 | 42.8 |
| Incr Delay (d2), s/veh | 9.2 | 1.2 | 0.0 | 30.1 | 3.7 | 0.0 | 14.0 | 0.3 | 42.4 | 31.0 | 0.2 | 72.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.2 | 11.4 | 0.0 | 19.3 | 21.4 | 0.0 | 2.1 | 6.8 | 20.1 | 9.5 | 8.2 | 31.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 61.4 | 34.5 | 0.0 | 76.5 | 34.7 | 0.0 | 71.9 | 40.3 | 89.0 | 84.5 | 34.7 | 115.3 |
| LnGrp LOS | E | C | | E | C | | E | D | F | F | C | F |
| Approach Vol, veh/h | 1038 | | | 2109 | | | 673 | | | 1038 | | |
| Approach Delay, s/veh | 38.9 | | | 41.7 | | | 66.4 | | | 80.3 | | |
| Approach LOS | D | | | D | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 29.7 | 43.3 | 8.0 | 39.0 | 18.1 | 54.9 | 16.0 | 31.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.7 | 4.7 | 4.7 | 4.7 | * 4.7 | 4.7 | 4.7 | | | | |
| Max Green Setting (Gmax), s | 25.8 | 36.3 | 13.3 | 26.3 | 31.3 | * 30 | 11.3 | 26.3 | | | | |
| Max Q Clear Time (g_c+I1), s | 25.5 | 18.7 | 4.1 | 36.3 | 13.1 | 38.5 | 11.4 | 27.6 | | | | |
| Green Ext Time (p_c), s | 0.0 | 5.6 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 52.8
HCM 7th LOS D

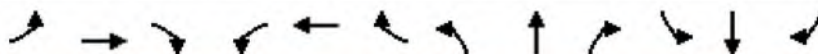
Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
2: S Milpitas Blvd/N Milpitas Blvd & E Calaveras Blvd

1000 Gibraltar Dr - LTA
2026 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↰↱ | ↑↑↑ | ↱ | ↰ | ↑↑↑ | ↱ | ↰↱ | ↑↑ | ↱ | ↰↱ | ↑↑ | ↱ |
| Traffic Volume (veh/h) | 183 | 626 | 352 | 80 | 1603 | 212 | 344 | 207 | 54 | 137 | 214 | 330 |
| Future Volume (veh/h) | 183 | 626 | 352 | 80 | 1603 | 212 | 344 | 207 | 54 | 137 | 214 | 330 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 195 | 666 | 0 | 85 | 1705 | 0 | 366 | 220 | 57 | 146 | 228 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 268 | 1959 | | 117 | 1897 | | 721 | 742 | 331 | 661 | 680 | |
| Arrive On Green | 0.08 | 0.38 | 0.00 | 0.07 | 0.37 | 0.00 | 0.21 | 0.21 | 0.21 | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3456 | 5106 | 1585 | 1781 | 5106 | 1585 | 3456 | 3554 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 195 | 666 | 0 | 85 | 1705 | 0 | 366 | 220 | 57 | 146 | 228 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1702 | 1585 | 1781 | 1702 | 1585 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 6.3 | 10.5 | 0.0 | 5.3 | 35.9 | 0.0 | 10.7 | 6.0 | 3.4 | 4.1 | 6.3 | 0.0 |
| Cycle Q Clear(g_c), s | 6.3 | 10.5 | 0.0 | 5.3 | 35.9 | 0.0 | 10.7 | 6.0 | 3.4 | 4.1 | 6.3 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 268 | 1959 | | 117 | 1897 | | 721 | 742 | 331 | 661 | 680 | |
| V/C Ratio(X) | 0.73 | 0.34 | | 0.73 | 0.90 | | 0.51 | 0.30 | 0.17 | 0.22 | 0.34 | |
| Avail Cap(c_a), veh/h | 782 | 1959 | | 325 | 1897 | | 721 | 742 | 331 | 661 | 680 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 51.4 | 24.9 | 0.0 | 52.3 | 33.8 | 0.0 | 39.9 | 38.0 | 37.0 | 38.9 | 39.8 | 0.0 |
| Incr Delay (d2), s/veh | 3.8 | 0.5 | 0.0 | 8.3 | 7.3 | 0.0 | 2.5 | 1.0 | 1.1 | 0.8 | 1.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 5.1 | 7.6 | 0.0 | 4.7 | 21.9 | 0.0 | 8.3 | 4.8 | 2.5 | 3.2 | 5.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 55.2 | 25.4 | 0.0 | 60.6 | 41.0 | 0.0 | 42.5 | 39.1 | 38.1 | 39.7 | 41.2 | 0.0 |
| LnGrp LOS | E | C | | E | D | | D | D | D | D | D | |
| Approach Vol, veh/h | 861 | | 1790 | | | 643 | | | 374 | | | |
| Approach Delay, s/veh | 32.1 | | 42.0 | | | 40.9 | | | 40.6 | | | |
| Approach LOS | C | | D | | | D | | | D | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 17.7 | 48.3 | 28.0 | 26.0 | 13.0 | 47.0 | 26.0 | 28.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | | | | |
| Max Green Setting (Gmax), s | 20.8 | 30.4 | 23.8 | 21.8 | 25.8 | 25.4 | 21.8 | 23.8 | | | | |
| Max Q Clear Time (g_c+I1), s | 17.3 | 12.5 | 12.7 | 8.3 | 8.3 | 37.9 | 6.1 | 8.0 | | | | |
| Green Ext Time (p_c), s | 0.1 | 4.0 | 1.0 | 1.0 | 0.5 | 0.0 | 0.4 | 1.2 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 39.3
HCM 7th LOS D

Notes

Unsignalized Delay for [EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 3: S Milpitas Blvd & Yosemite Dr

1000 Gibraltar Dr - LTA
2026 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 8 | 4 | 3 | 238 | 32 | 311 | 9 | 277 | 105 | 177 | 244 | 40 |
| Future Volume (veh/h) | 8 | 4 | 3 | 238 | 32 | 311 | 9 | 277 | 105 | 177 | 244 | 40 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 9 | 4 | 3 | 253 | 34 | 331 | 10 | 295 | 112 | 188 | 260 | 43 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 119 | 187 | 140 | 458 | 37 | 364 | 21 | 1083 | 402 | 222 | 1652 | 270 |
| Arrive On Green | 0.01 | 0.19 | 0.19 | 0.07 | 0.25 | 0.25 | 0.01 | 0.43 | 0.43 | 0.13 | 0.55 | 0.55 |
| Sat Flow, veh/h | 1753 | 977 | 732 | 1753 | 147 | 1435 | 1753 | 2495 | 927 | 1753 | 3010 | 491 |
| Grp Volume(v), veh/h | 9 | 0 | 7 | 253 | 0 | 365 | 10 | 205 | 202 | 188 | 150 | 153 |
| Grp Sat Flow(s),veh/h/ln | 1753 | 0 | 1709 | 1753 | 0 | 1582 | 1753 | 1749 | 1674 | 1753 | 1749 | 1752 |
| Q Serve(g_s), s | 0.4 | 0.0 | 0.3 | 7.5 | 0.0 | 23.1 | 0.6 | 7.7 | 8.0 | 10.8 | 4.3 | 4.5 |
| Cycle Q Clear(g_c), s | 0.4 | 0.0 | 0.3 | 7.5 | 0.0 | 23.1 | 0.6 | 7.7 | 8.0 | 10.8 | 4.3 | 4.5 |
| Prop In Lane | 1.00 | | 0.43 | 1.00 | | 0.91 | 1.00 | | 0.55 | 1.00 | | 0.28 |
| Lane Grp Cap(c), veh/h | 119 | 0 | 327 | 458 | 0 | 401 | 21 | 759 | 727 | 222 | 960 | 962 |
| V/C Ratio(X) | 0.08 | 0.00 | 0.02 | 0.55 | 0.00 | 0.91 | 0.47 | 0.27 | 0.28 | 0.85 | 0.16 | 0.16 |
| Avail Cap(c_a), veh/h | 227 | 0 | 506 | 458 | 0 | 469 | 272 | 759 | 727 | 374 | 960 | 962 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 34.3 | 0.0 | 33.8 | 31.9 | 0.0 | 37.3 | 50.6 | 18.7 | 18.8 | 44.0 | 11.5 | 11.5 |
| Incr Delay (d2), s/veh | 0.3 | 0.0 | 0.0 | 1.4 | 0.0 | 20.0 | 15.4 | 0.9 | 1.0 | 8.6 | 0.3 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.3 | 0.0 | 0.3 | 3.4 | 0.0 | 16.2 | 0.6 | 5.7 | 5.7 | 8.8 | 3.0 | 3.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 34.6 | 0.0 | 33.8 | 33.4 | 0.0 | 57.3 | 66.0 | 19.6 | 19.7 | 52.6 | 11.8 | 11.8 |
| LnGrp LOS | C | | C | C | | E | E | B | B | D | B | B |
| Approach Vol, veh/h | 16 | | | 618 | | | 417 | | | 491 | | |
| Approach Delay, s/veh | 34.2 | | | 47.5 | | | 20.7 | | | 27.4 | | |
| Approach LOS | C | | | D | | | C | | | C | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 49.7 | 12.0 | 24.2 | 5.2 | 61.5 | 5.6 | 30.6 | | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.5 | 4.5 | 4.0 | 5.0 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 22.0 | 25.0 | 7.5 | 30.5 | 16.0 | 31.0 | 7.5 | 30.5 | | | | |
| Max Q Clear Time (g_c+I), s | 10.0 | 10.0 | 9.5 | 2.3 | 2.6 | 6.5 | 2.4 | 25.1 | | | | |
| Green Ext Time (p_c), s | 0.3 | 1.9 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 1.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 33.7 | | | | | | | | | | | |
| HCM 7th LOS | C | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary 4: S Milpitas Blvd & D1/Ames Ave

1000 Gibraltar Dr - LTA
2026 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↗ | ↕ | | ↗ | ↕ | |
| Traffic Volume (veh/h) | 0 | 0 | 0 | 30 | 0 | 15 | 0 | 419 | 63 | 33 | 434 | 0 |
| Future Volume (veh/h) | 0 | 0 | 0 | 30 | 0 | 15 | 0 | 419 | 63 | 33 | 434 | 0 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 |
| Adj Flow Rate, veh/h | 0 | 0 | 0 | 32 | 0 | 16 | 0 | 446 | 67 | 35 | 462 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cap, veh/h | 0 | 73 | 0 | 105 | 0 | 19 | 2 | 2334 | 349 | 56 | 2940 | 0 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.04 | 0.00 | 0.78 | 0.78 | 0.03 | 0.85 | 0.00 |
| Sat Flow, veh/h | 0 | 1811 | 0 | 948 | 0 | 474 | 1725 | 3002 | 448 | 1725 | 3532 | 0 |
| Grp Volume(v), veh/h | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 254 | 259 | 35 | 462 | 0 |
| Grp Sat Flow(s),veh/h/ln | 0 | 1811 | 0 | 1423 | 0 | 0 | 1725 | 1721 | 1730 | 1725 | 1721 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.5 | 3.5 | 1.8 | 2.0 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.5 | 3.5 | 1.8 | 2.0 | 0.0 |
| Prop In Lane | 0.00 | | 0.00 | 0.67 | | 0.33 | 1.00 | | 0.26 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 0 | 73 | 0 | 124 | 0 | 0 | 2 | 1338 | 1345 | 56 | 2940 | 0 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.19 | 0.19 | 0.63 | 0.16 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 322 | 0 | 470 | 0 | 0 | 307 | 1338 | 1345 | 307 | 2940 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 0.0 | 42.9 | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 43.0 | 1.1 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 11.0 | 0.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.6 | 0.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 0.0 | 44.9 | 0.0 | 0.0 | 0.0 | 2.9 | 2.9 | 54.0 | 1.2 | 0.0 |
| LnGrp LOS | | | | D | | | | A | A | D | A | |
| Approach Vol, veh/h | 0 | | | 48 | | | 513 | | | 497 | | |
| Approach Delay, s/veh | 0.0 | | | 44.9 | | | 2.9 | | | 4.9 | | |
| Approach LOS | | | | D | | | A | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 6.9 | 75.0 | | 8.1 | 0.0 | 81.9 | | 8.1 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | | * 4.5 | 4.0 | 5.0 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.0 | 35.0 | | * 16 | 16.0 | 35.0 | | 25.5 | | | | |
| Max Q Clear Time (g_c+I), s | 13.8 | 5.5 | | 0.0 | 0.0 | 4.0 | | 5.0 | | | | |
| Green Ext Time (p_c), s | 0.0 | 3.0 | | 0.0 | 0.0 | 3.1 | | 0.2 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 5.8
HCM 7th LOS A

Notes

User approved pedestrian interval to be less than phase max green.





* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.




HCM 7th Signalized Intersection Summary
6: S Milpitas Blvd & Gibraltar Dr/ABC Dwy

1000 Gibraltar Dr - LTA
2026 No Build AM

























| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|-------|------|------|-------|-------|-------|------|------|------|-------|------|------|
| Lane Configurations | ↰ | | ↱ | | ↰ | ↱ | ↰ | ↱ | | ↰ | ↱ | ↱ |
| Traffic Volume (veh/h) | 5 | 0 | 15 | 8 | 0 | 2 | 156 | 484 | 12 | 4 | 462 | 4 |
| Future Volume (veh/h) | 5 | 0 | 15 | 8 | 0 | 2 | 156 | 484 | 12 | 4 | 462 | 4 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 0 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 |
| Adj Flow Rate, veh/h | 6 | 0 | 18 | 10 | 0 | 2 | 188 | 583 | 14 | 5 | 557 | 5 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Percent Heavy Veh, % | 6 | 0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cap, veh/h | 0 | 0 | 0 | 15 | 0 | 3 | 217 | 3027 | 73 | 9 | 1377 | 1167 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.13 | 0.88 | 0.88 | 0.01 | 0.76 | 0.76 |
| Sat Flow, veh/h | | 0 | | 1408 | 0 | 282 | 1725 | 3434 | 82 | 1725 | 1811 | 1535 |
| Grp Volume(v), veh/h | | 0.0 | | 12 | 0 | 0 | 188 | 292 | 305 | 5 | 557 | 5 |
| Grp Sat Flow(s), veh/h/ln | | | | 1690 | 0 | 0 | 1725 | 1721 | 1796 | 1725 | 1811 | 1535 |
| Q Serve(g_s), s | | | | 1.0 | 0.0 | 0.0 | 14.5 | 3.3 | 3.3 | 0.4 | 14.5 | 0.1 |
| Cycle Q Clear(g_c), s | | | | 1.0 | 0.0 | 0.0 | 14.5 | 3.3 | 3.3 | 0.4 | 14.5 | 0.1 |
| Prop In Lane | | | | 0.83 | | 0.17 | 1.00 | | 0.05 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | | | | 18 | 0 | 0 | 217 | 1516 | 1583 | 9 | 1377 | 1167 |
| V/C Ratio(X) | | | | 0.66 | 0.00 | 0.00 | 0.87 | 0.19 | 0.19 | 0.57 | 0.40 | 0.00 |
| Avail Cap(c_a), veh/h | | | | 342 | 0 | 0 | 349 | 1516 | 1583 | 349 | 1377 | 1167 |
| HCM Platoon Ratio | | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | | | | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | | | 67.0 | 0.0 | 0.0 | 58.3 | 1.2 | 1.2 | 67.5 | 5.6 | 3.9 |
| Incr Delay (d2), s/veh | | | | 46.1 | 0.0 | 0.0 | 15.5 | 0.3 | 0.3 | 63.8 | 0.9 | 0.0 |
| Initial Q Delay(d3), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | | | | 1.2 | 0.0 | 0.0 | 11.6 | 0.9 | 1.0 | 0.6 | 8.6 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | | | | 113.1 | 0.0 | 0.0 | 73.8 | 1.4 | 1.4 | 131.4 | 6.5 | 3.9 |
| LnGrp LOS | | | | F | | | E | A | A | F | A | A |
| Approach Vol, veh/h | | | | | 12 | | | 785 | | | 567 | |
| Approach Delay, s/veh | | | | | 113.1 | | | 18.8 | | | 7.6 | |
| Approach LOS | | | | | F | | | B | | | A | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | | | | | |
| Phs Duration (G+Y+Rc), s | 124.9 | | | 6.0 | 21.6 | 108.4 | | | | | | |
| Change Period (Y+Rc), s | 4.5 | 5.0 | | 4.5 | 4.5 | 5.0 | | | | | | |
| Max Green Setting (Gmax), s | 27.5 | 35.0 | | 27.5 | 27.5 | 35.0 | | | | | | |
| Max Q Clear Time (g_c+I), s | 12.4 | 5.3 | | 3.0 | 16.5 | 16.5 | | | | | | |
| Green Ext Time (p_c), s | 0.0 | 9.2 | | 0.0 | 0.6 | 7.4 | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 15.0 | | | | | | | | | |
| HCM 7th LOS | | | B | | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|---|------|--------|---|------|--------|---|-------|--------|---|-------|
| Int Delay, s/veh | 0.8 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  | | |  | | |  | | |  | |
| Traffic Vol, veh/h | 0 | 12 | 1 | 12 | 106 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 12 | 1 | 12 | 106 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, % | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mvmt Flow | 0 | 14 | 1 | 14 | 128 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 128 | 0 | 0 | 16 | 0 | 0 | 172 | 172 | 15 | 171 | 172 | 128 |
| Stage 1 | - | - | - | - | - | - | 15 | 15 | - | 157 | 157 | - |
| Stage 2 | - | - | - | - | - | - | 157 | 157 | - | 14 | 16 | - |
| Critical Hdwy | 4.17 | - | - | 4.17 | - | - | 7.17 | 6.57 | 6.27 | 7.17 | 6.57 | 6.27 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.17 | 5.57 | - | 6.17 | 5.57 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.17 | 5.57 | - | 6.17 | 5.57 | - |
| Follow-up Hdwy | 2.263 | - | - | 2.263 | - | - | 3.563 | 4.063 | 3.363 | 3.563 | 4.063 | 3.363 |
| Pot Cap-1 Maneuver | 1428 | - | - | 1570 | - | - | 780 | 712 | 1050 | 781 | 712 | 909 |
| Stage 1 | - | - | - | - | - | - | 992 | 873 | - | 834 | 759 | - |
| Stage 2 | - | - | - | - | - | - | 834 | 759 | - | 993 | 872 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1428 | - | - | 1570 | - | - | 773 | 705 | 1050 | 772 | 705 | 909 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 773 | 705 | - | 772 | 705 | - |
| Stage 1 | - | - | - | - | - | - | 992 | 873 | - | 826 | 751 | - |
| Stage 2 | - | - | - | - | - | - | 826 | 751 | - | 990 | 872 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Ctrl Dly, s/v | 0 | | | 0.74 | | | 8.44 | | | 0 | | |
| HCM LOS | | | | | | | A | | | A | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 1050 | 1428 | - | - | 1570 | - | - | - | | | | |
| HCM Lane V/C Ratio | 0.002 | - | - | - | 0.009 | - | - | - | | | | |
| HCM Ctrl Dly (s/v) | 8.4 | 0 | - | - | 7.3 | - | - | 0 | | | | |
| HCM Lane LOS | A | A | - | - | A | - | - | A | | | | |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | - | | | | |

| Intersection | | | | | | |
|--------------------------|---|----------|---|------|-------|---|
| Int Delay, s/veh | 0 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations |  | |  | | |  |
| Traffic Vol, veh/h | 0 | 0 | 74 | 0 | 0 | 34 |
| Future Vol, veh/h | 0 | 0 | 74 | 0 | 0 | 34 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, % | 6 | 6 | 6 | 6 | 6 | 6 |
| Mvmt Flow | 0 | 0 | 93 | 0 | 0 | 43 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 135 | 46 | 0 | 0 | 93 | 0 |
| Stage 1 | 93 | - | - | - | - | - |
| Stage 2 | 43 | - | - | - | - | - |
| Critical Hdwy | 6.69 | 6.99 | - | - | 4.19 | - |
| Critical Hdwy Stg 1 | 5.89 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.49 | - | - | - | - | - |
| Follow-up Hdwy | 3.557 | 3.357 | - | - | 2.257 | - |
| Pot Cap-1 Maneuver | 841 | 1002 | - | - | 1474 | - |
| Stage 1 | 910 | - | - | - | - | - |
| Stage 2 | 969 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 841 | 1002 | - | - | 1474 | - |
| Mov Cap-2 Maneuver | 841 | - | - | - | - | - |
| Stage 1 | 910 | - | - | - | - | - |
| Stage 2 | 969 | - | - | - | - | - |
| Approach | WB | NB | | SB | | |
| HCM Ctrl Dly, s/v | 0 | 0 | | 0 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | | |
| Capacity (veh/h) | - | - | - | 1474 | - | |
| HCM Lane V/C Ratio | - | - | - | - | - | |
| HCM Ctrl Dly (s/v) | - | - | 0 | 0 | - | |
| HCM Lane LOS | - | - | A | A | - | |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - | |

HCM 7th Signalized Intersection Summary
9: S Milpitas Dr & Montague Expy













1000 Gibraltar Dr - LTA
2026 No Build AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  |  |  |  | |  |  |  |
| Traffic Volume (veh/h) | 277 | 802 | 8 | 95 | 2610 | 313 | 11 | 71 | 137 | 119 | 59 | 435 |
| Future Volume (veh/h) | 277 | 802 | 8 | 95 | 2610 | 313 | 11 | 71 | 137 | 119 | 59 | 435 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1914 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 292 | 844 | 8 | 100 | 2747 | 329 | 12 | 75 | 144 | 125 | 62 | 458 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 329 | 3097 | 29 | 132 | 2635 | 675 | 432 | 490 | 437 | 358 | 903 | 403 |
| Arrive On Green | 0.10 | 0.48 | 0.48 | 0.04 | 0.42 | 0.42 | 0.13 | 0.28 | 0.28 | 0.11 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3401 | 6517 | 62 | 3401 | 6332 | 1622 | 3401 | 1749 | 1560 | 3401 | 3497 | 1560 |
| Grp Volume(v), veh/h | 292 | 615 | 237 | 100 | 2747 | 329 | 12 | 75 | 144 | 125 | 62 | 458 |
| Grp Sat Flow(s),veh/h/ln | 1700 | 1583 | 1830 | 1700 | 1583 | 1622 | 1700 | 1749 | 1560 | 1700 | 1749 | 1560 |
| Q Serve(g_s), s | 19.5 | 17.9 | 18.0 | 6.7 | 95.7 | 34.2 | 0.7 | 7.4 | 16.8 | 7.9 | 3.1 | 59.4 |
| Cycle Q Clear(g_c), s | 19.5 | 17.9 | 18.0 | 6.7 | 95.7 | 34.2 | 0.7 | 7.4 | 16.8 | 7.9 | 3.1 | 59.4 |
| Prop In Lane | 1.00 | | 0.03 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 329 | 2257 | 869 | 132 | 2635 | 675 | 432 | 490 | 437 | 358 | 903 | 403 |
| V/C Ratio(X) | 0.89 | 0.27 | 0.27 | 0.76 | 1.04 | 0.49 | 0.03 | 0.15 | 0.33 | 0.35 | 0.07 | 1.14 |
| Avail Cap(c_a), veh/h | 500 | 2257 | 869 | 355 | 2635 | 675 | 432 | 490 | 437 | 358 | 903 | 403 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.90 | 0.90 | 0.90 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 102.6 | 36.4 | 36.4 | 109.5 | 67.1 | 49.2 | 88.0 | 62.3 | 65.7 | 95.6 | 64.4 | 85.3 |
| Incr Delay (d2), s/veh | 11.0 | 0.3 | 0.7 | 8.6 | 29.8 | 2.5 | 0.1 | 0.7 | 2.0 | 2.7 | 0.1 | 87.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 13.9 | 11.3 | 12.8 | 5.6 | 56.1 | 20.7 | 0.6 | 6.2 | 11.4 | 6.5 | 2.5 | 46.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 113.6 | 36.7 | 37.1 | 118.1 | 96.9 | 51.7 | 88.1 | 63.0 | 67.7 | 98.3 | 64.6 | 173.0 |
| LnGrp LOS | F | D | D | F | F | D | F | E | E | F | E | F |
| Approach Vol, veh/h | 1144 | | | 3176 | | | 231 | | | 645 | | |
| Approach Delay, s/veh | 56.4 | | | 92.9 | | | 67.2 | | | 148.1 | | |
| Approach LOS | E | | | F | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 28.5 | 101.5 | 35.0 | 65.0 | 14.9 | 115.1 | 30.0 | 70.0 | | | | |
| Change Period (Y+Rc), s | 6.2 | 5.8 | 5.8 | 5.6 | 6.0 | 5.8 | 5.8 | 5.6 | | | | |
| Max Green Setting (Gmax), s | 33.8 | 84.2 | 29.2 | 54.4 | 24.0 | 94.2 | 24.2 | 64.4 | | | | |
| Max Q Clear Time (g_c+I1), s | 21.5 | 97.7 | 2.7 | 61.4 | 8.7 | 20.0 | 9.9 | 18.8 | | | | |
| Green Ext Time (p_c), s | 0.8 | 0.0 | 0.0 | 0.0 | 0.2 | 6.0 | 0.3 | 1.3 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 90.6 | | | | | | | | | | | |
| HCM 7th LOS | F | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary
10: E Capitol Ave/Great Mall Pkwy & Montague Expy

1000 Gibraltar Dr - LTA
2026 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|--|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 158 | 706 | 59 | 51 | 1863 | 1137 | 152 | 701 | 64 | 422 | 217 | 30 |
| Future Volume (veh/h) | 158 | 706 | 59 | 51 | 1863 | 1137 | 152 | 701 | 64 | 422 | 217 | 30 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 165 | 735 | 0 | 53 | 1941 | 1184 | 158 | 730 | 0 | 440 | 226 | 0 |
| Peak Hour Factor | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 195 | 3705 | | 78 | 3483 | 858 | 186 | 826 | | 477 | 1253 | |
| Arrive On Green | 0.06 | 0.59 | 0.00 | 0.02 | 0.55 | 0.55 | 0.05 | 0.16 | 0.00 | 0.14 | 0.25 | 0.00 |
| Sat Flow, veh/h | 3401 | 6332 | 1560 | 3401 | 6332 | 1560 | 3401 | 5025 | 1560 | 3401 | 5025 | 1560 |
| Grp Volume(v), veh/h | 165 | 735 | 0 | 53 | 1941 | 1184 | 158 | 730 | 0 | 440 | 226 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1700 | 1583 | 1560 | 1700 | 1583 | 1560 | 1700 | 1675 | 1560 | 1700 | 1675 | 1560 |
| Q Serve(g_s), s | 13.0 | 14.7 | 0.0 | 4.2 | 53.7 | 148.5 | 12.4 | 38.3 | 0.0 | 34.5 | 9.5 | 0.0 |
| Cycle Q Clear(g_c), s | 13.0 | 14.7 | 0.0 | 4.2 | 53.7 | 148.5 | 12.4 | 38.3 | 0.0 | 34.5 | 9.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 195 | 3705 | | 78 | 3483 | 858 | 186 | 826 | | 477 | 1253 | |
| V/C Ratio(X) | 0.84 | 0.20 | | 0.68 | 0.56 | 1.38 | 0.85 | 0.88 | | 0.92 | 0.18 | |
| Avail Cap(c_a), veh/h | 684 | 3705 | | 307 | 3483 | 858 | 293 | 1011 | | 674 | 1569 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.97 | 0.97 | 0.00 | 0.09 | 0.09 | 0.09 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 26.0 | 26.3 | 0.0 | 131.0 | 39.4 | 60.7 | 126.6 | 110.3 | 0.0 | 114.6 | 79.6 | 0.0 |
| Incr Delay (d2), s/veh | 9.2 | 0.1 | 0.0 | 1.0 | 0.1 | 171.6 | 12.9 | 8.1 | 0.0 | 14.3 | 0.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 10.1 | 9.6 | 0.0 | 2.6 | 23.4 | 133.0 | 9.9 | 24.4 | 0.0 | 23.0 | 7.5 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 135.3 | 26.4 | 0.0 | 131.9 | 39.5 | 232.4 | 139.5 | 118.4 | 0.0 | 128.9 | 79.7 | 0.0 |
| LnGrp LOS | F | C | | F | D | F | F | F | | F | E | |
| Approach Vol, veh/h | 900 | | 3178 | | | 888 | | | 666 | | | |
| Approach Delay, s/veh | 46.4 | | 112.9 | | | 122.2 | | | 112.2 | | | |
| Approach LOS | D | | F | | | F | | | F | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 21.2 | 154.3 | 44.4 | 50.1 | 11.8 | 163.8 | 21.4 | 73.0 | | | | |
| Change Period (Y+Rc), s | 5.7 | 5.8 | 6.5 | 5.7 | 5.6 | 5.8 | 6.7 | 5.7 | | | | |
| Max Green Setting (Gmax), s | 54.3 | 84.2 | 53.5 | 54.3 | 24.4 | 114.2 | 23.3 | 84.3 | | | | |
| Max Q Clear Time (g_c+1.0), s | 115.0 | 150.5 | 36.5 | 40.3 | 6.2 | 16.7 | 14.4 | 11.5 | | | | |
| Green Ext Time (p_c), s | 0.5 | 0.0 | 1.4 | 4.0 | 0.1 | 5.4 | 0.3 | 1.5 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 103.6
HCM 7th LOS F

Notes

Unsignalized Delay for [NBR, EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
11: Trade Zone Blvd/McCandless Dr & Montague Expy

1000 Gibraltar Dr - LTA
2026 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|-------|-------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 50 | 703 | 615 | 79 | 1779 | 112 | 888 | 68 | 109 | 49 | 71 | 297 |
| Future Volume (veh/h) | 50 | 703 | 615 | 79 | 1779 | 112 | 888 | 68 | 109 | 49 | 71 | 297 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 52 | 725 | 634 | 81 | 1834 | 0 | 965 | 0 | 0 | 51 | 73 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 67 | 3170 | 984 | 102 | 3259 | | 766 | 0 | | 201 | 101 | |
| Arrive On Green | 0.04 | 0.63 | 0.63 | 0.06 | 0.65 | 0.00 | 0.10 | 0.00 | 0.00 | 0.04 | 0.06 | 0.00 |
| Sat Flow, veh/h | 1753 | 5025 | 1560 | 1753 | 5025 | 1560 | 5259 | 0 | 1560 | 1753 | 1841 | 1560 |
| Grp Volume(v), veh/h | 52 | 725 | 634 | 81 | 1834 | 0 | 965 | 0 | 0 | 51 | 73 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1753 | 1675 | 1560 | 1753 | 1675 | 1560 | 1753 | 0 | 1560 | 1753 | 1841 | 1560 |
| Q Serve(g_s), s | 4.1 | 8.7 | 35.4 | 6.4 | 28.3 | 0.0 | 14.6 | 0.0 | 0.0 | 3.8 | 5.5 | 0.0 |
| Cycle Q Clear(g_c), s | 4.1 | 8.7 | 35.4 | 6.4 | 28.3 | 0.0 | 14.6 | 0.0 | 0.0 | 3.8 | 5.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 67 | 3170 | 984 | 102 | 3259 | | 766 | 0 | | 201 | 101 | |
| V/C Ratio(X) | 0.77 | 0.23 | 0.64 | 0.79 | 0.56 | | 1.26 | 0.00 | | 0.25 | 0.72 | |
| Avail Cap(c_a), veh/h | 377 | 3170 | 984 | 381 | 3259 | | 766 | 0 | | 312 | 390 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.89 | 0.89 | 0.89 | 0.77 | 0.77 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 66.7 | 11.2 | 16.1 | 65.1 | 13.6 | 0.0 | 57.7 | 0.0 | 0.0 | 58.8 | 65.1 | 0.0 |
| Incr Delay (d2), s/veh | 15.1 | 0.1 | 2.9 | 10.0 | 0.5 | 0.0 | 127.6 | 0.0 | 0.0 | 0.7 | 9.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 8.8 | 5.6 | 18.9 | 5.6 | 14.4 | 0.0 | 18.0 | 0.0 | 0.0 | 3.1 | 5.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 81.8 | 11.3 | 19.0 | 75.0 | 14.2 | 0.0 | 185.3 | 0.0 | 0.0 | 59.5 | 74.3 | 0.0 |
| LnGrp LOS | F | B | B | E | B | | F | | | E | E | |
| Approach Vol, veh/h | 1411 | | | 1915 | | | 965 | | | 124 | | |
| Approach Delay, s/veh | 17.3 | | | 16.7 | | | 185.3 | | | 68.2 | | |
| Approach LOS | B | | | B | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 30.3 | 96.6 | 11.1 | 22.0 | 12.8 | 94.1 | 20.0 | 13.1 | | | | |
| Change Period (Y+Rc), s | 4.9 | 5.8 | 5.3 | 5.4 | 4.6 | 5.8 | 5.4 | * 5.4 | | | | |
| Max Green Setting (Gmax), s | 30.3 | 44.2 | 14.7 | 29.6 | 30.4 | 44.2 | 14.6 | * 30 | | | | |
| Max Q Clear Time (g_c+I), s | 30.3 | 30.3 | 5.8 | 0.0 | 8.4 | 37.4 | 16.6 | 7.5 | | | | |
| Green Ext Time (p_c), s | 0.1 | 9.8 | 0.0 | 0.0 | 0.2 | 3.8 | 0.0 | 0.3 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 55.2
HCM 7th LOS E

Notes

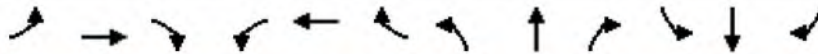
User approved volume balancing among the lanes for turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
12: Oakland Rd/S Main St & Montague Expy

1000 Gibraltar Dr - LTA
2026 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|------|-------|------|------|-------|-------|-------|-------|------|------|------|------|
| Lane Configurations | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑ | ↱ | ↰↱ | ↑↑ | ↱ |
| Traffic Volume (veh/h) | 159 | 1050 | 293 | 174 | 2643 | 100 | 515 | 177 | 177 | 152 | 206 | 469 |
| Future Volume (veh/h) | 159 | 1050 | 293 | 174 | 2643 | 100 | 515 | 177 | 177 | 152 | 206 | 469 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 169 | 1117 | 0 | 185 | 2812 | 0 | 548 | 188 | 0 | 162 | 219 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 211 | 2678 | | 226 | 2711 | | 433 | 779 | | 204 | 547 | |
| Arrive On Green | 0.06 | 0.53 | 0.00 | 0.07 | 0.54 | 0.00 | 0.13 | 0.22 | 0.00 | 0.06 | 0.16 | 0.00 |
| Sat Flow, veh/h | 3428 | 5066 | 1572 | 3428 | 5066 | 1572 | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 |
| Grp Volume(v), veh/h | 169 | 1117 | 0 | 185 | 2812 | 0 | 548 | 188 | 0 | 162 | 219 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1689 | 1572 | 1714 | 1689 | 1572 | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 |
| Q Serve(g_s), s | 9.2 | 25.3 | 0.0 | 10.1 | 101.7 | 0.0 | 24.0 | 8.3 | 0.0 | 8.9 | 10.6 | 0.0 |
| Cycle Q Clear(g_c), s | 9.2 | 25.3 | 0.0 | 10.1 | 101.7 | 0.0 | 24.0 | 8.3 | 0.0 | 8.9 | 10.6 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 211 | 2678 | | 226 | 2711 | | 433 | 779 | | 204 | 547 | |
| V/C Ratio(X) | 0.80 | 0.42 | | 0.82 | 1.04 | | 1.27 | 0.24 | | 0.79 | 0.40 | |
| Avail Cap(c_a), veh/h | 530 | 2678 | | 433 | 2711 | | 433 | 779 | | 520 | 547 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 0.63 | 0.63 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 88.0 | 27.1 | 0.0 | 87.6 | 44.2 | 0.0 | 83.0 | 60.9 | 0.0 | 88.2 | 72.3 | 0.0 |
| Incr Delay (d2), s/veh | 6.9 | 0.5 | 0.0 | 4.6 | 24.6 | 0.0 | 136.8 | 0.7 | 0.0 | 6.8 | 2.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 7.7 | 15.6 | 0.0 | 7.4 | 57.7 | 0.0 | 28.7 | 6.9 | 0.0 | 7.5 | 8.7 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 94.9 | 27.5 | 0.0 | 92.2 | 68.8 | 0.0 | 219.8 | 61.6 | 0.0 | 95.0 | 74.5 | 0.0 |
| LnGrp LOS | F | C | | F | F | | F | E | | F | E | |
| Approach Vol, veh/h | 1286 | | 2997 | | | | 736 | | | 381 | | |
| Approach Delay, s/veh | 36.4 | | 70.2 | | | | 179.4 | | | 83.2 | | |
| Approach LOS | D | | E | | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 7.3 | 107.5 | 17.5 | 47.7 | 18.5 | 106.3 | 30.0 | 35.2 | | | | |
| Change Period (Y+Rc), s | 5.6 | 5.8 | 6.2 | 5.7 | 6.0 | 5.8 | 6.0 | * 5.7 | | | | |
| Max Green Setting (Gmax), s | 29.4 | 84.2 | 28.8 | 24.3 | 24.0 | 89.2 | 24.0 | * 30 | | | | |
| Max Q Clear Time (g_c+ffl), s | 11.2 | 103.7 | 10.9 | 10.3 | 12.1 | 27.3 | 26.0 | 12.6 | | | | |
| Green Ext Time (p_c), s | 0.5 | 0.0 | 0.4 | 0.8 | 0.4 | 9.4 | 0.0 | 1.1 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 78.0
HCM 7th LOS E































Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
1: S Abel S/N Abel St & W Calaveras Blvd

1000 Gibraltar Dr - LTA
2026 No Build PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |    |  |  |    |  |  |   |  |  |   |  |
| Traffic Volume (veh/h) | 179 | 1607 | 23 | 253 | 933 | 140 | 49 | 366 | 706 | 186 | 255 | 217 |
| Future Volume (veh/h) | 179 | 1607 | 23 | 253 | 933 | 140 | 49 | 366 | 706 | 186 | 255 | 217 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 183 | 1640 | 0 | 258 | 952 | 0 | 50 | 373 | 720 | 190 | 260 | 221 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 215 | 1921 | | 289 | 2111 | | 65 | 785 | 350 | 169 | 993 | 443 |
| Arrive On Green | 0.12 | 0.37 | 0.00 | 0.16 | 0.41 | 0.00 | 0.04 | 0.22 | 0.22 | 0.09 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1795 | 5147 | 1598 | 1795 | 5147 | 1598 | 1795 | 3582 | 1598 | 1795 | 3582 | 1598 |
| Grp Volume(v), veh/h | 183 | 1640 | 0 | 258 | 952 | 0 | 50 | 373 | 720 | 190 | 260 | 221 |
| Grp Sat Flow(s),veh/h/ln | 1795 | 1716 | 1598 | 1795 | 1716 | 1598 | 1795 | 1791 | 1598 | 1795 | 1791 | 1598 |
| Q Serve(g_s), s | 12.0 | 35.2 | 0.0 | 16.9 | 16.1 | 0.0 | 3.3 | 10.9 | 26.3 | 11.3 | 6.8 | 13.9 |
| Cycle Q Clear(g_c), s | 12.0 | 35.2 | 0.0 | 16.9 | 16.1 | 0.0 | 3.3 | 10.9 | 26.3 | 11.3 | 6.8 | 13.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 215 | 1921 | | 289 | 2111 | | 65 | 785 | 350 | 169 | 993 | 443 |
| V/C Ratio(X) | 0.85 | 0.85 | | 0.89 | 0.45 | | 0.77 | 0.48 | 2.06 | 1.12 | 0.26 | 0.50 |
| Avail Cap(c_a), veh/h | 468 | 1921 | | 386 | 2111 | | 199 | 785 | 350 | 169 | 993 | 443 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 51.7 | 34.6 | 0.0 | 49.3 | 25.6 | 0.0 | 57.3 | 40.8 | 46.8 | 54.3 | 33.8 | 36.4 |
| Incr Delay (d2), s/veh | 9.0 | 5.1 | 0.0 | 18.2 | 0.7 | 0.0 | 17.1 | 0.4 | 485.1 | 106.3 | 0.1 | 0.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.9 | 21.6 | 0.0 | 13.8 | 10.7 | 0.0 | 3.2 | 8.4 | 90.6 | 15.9 | 5.3 | 9.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 60.8 | 39.7 | 0.0 | 67.5 | 26.3 | 0.0 | 74.5 | 41.3 | 532.0 | 160.7 | 33.9 | 37.3 |
| LnGrp LOS | E | D | | E | C | | E | D | F | F | C | D |
| Approach Vol, veh/h | 1823 | | | 1210 | | | 1143 | | | 671 | | |
| Approach Delay, s/veh | 41.8 | | | 35.1 | | | 351.8 | | | 70.9 | | |
| Approach LOS | D | | | D | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 23.5 | 49.5 | 9.0 | 38.0 | 19.1 | 53.9 | 16.0 | 31.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.7 | 4.7 | 4.7 | 4.7 | * 4.7 | 4.7 | 4.7 | | | | |
| Max Green Setting (Gmax), s | 25.8 | 36.3 | 13.3 | 26.3 | 31.3 | * 30 | 11.3 | 26.3 | | | | |
| Max Q Clear Time (g_c+I1), s | 18.9 | 37.2 | 5.3 | 15.9 | 14.0 | 18.1 | 13.3 | 28.3 | | | | |
| Green Ext Time (p_c), s | 0.4 | 0.0 | 0.0 | 1.7 | 0.4 | 4.9 | 0.0 | 0.0 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 117.3
HCM 7th LOS F













Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
2: S Milpitas Blvd/N Milpitas Blvd & E Calaveras Blvd

1000 Gibraltar Dr - LTA
2026 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|--|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 396 | 1431 | 644 | 124 | 951 | 196 | 317 | 266 | 113 | 202 | 319 | 250 |
| Future Volume (veh/h) | 396 | 1431 | 644 | 124 | 951 | 196 | 317 | 266 | 113 | 202 | 319 | 250 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 417 | 1506 | 0 | 131 | 1001 | 0 | 334 | 280 | 119 | 213 | 336 | 0 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 500 | 1843 | | 163 | 1572 | | 727 | 748 | 334 | 666 | 685 | |
| Arrive On Green | 0.14 | 0.36 | 0.00 | 0.09 | 0.31 | 0.00 | 0.21 | 0.21 | 0.21 | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3483 | 5147 | 1598 | 1795 | 5147 | 1598 | 3483 | 3582 | 1598 | 3483 | 3582 | 1598 |
| Grp Volume(v), veh/h | 417 | 1506 | 0 | 131 | 1001 | 0 | 334 | 280 | 119 | 213 | 336 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1716 | 1598 | 1795 | 1716 | 1598 | 1742 | 1791 | 1598 | 1742 | 1791 | 1598 |
| Q Serve(g_s), s | 13.3 | 30.3 | 0.0 | 8.2 | 19.1 | 0.0 | 9.6 | 7.6 | 7.3 | 6.0 | 9.5 | 0.0 |
| Cycle Q Clear(g_c), s | 13.3 | 30.3 | 0.0 | 8.2 | 19.1 | 0.0 | 9.6 | 7.6 | 7.3 | 6.0 | 9.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 500 | 1843 | | 163 | 1572 | | 727 | 748 | 334 | 666 | 685 | |
| V/C Ratio(X) | 0.83 | 0.82 | | 0.80 | 0.64 | | 0.46 | 0.37 | 0.36 | 0.32 | 0.49 | |
| Avail Cap(c_a), veh/h | 788 | 1843 | | 328 | 1572 | | 727 | 748 | 334 | 666 | 685 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 47.5 | 33.2 | 0.0 | 50.8 | 34.1 | 0.0 | 39.5 | 38.7 | 38.6 | 39.7 | 41.1 | 0.0 |
| Incr Delay (d2), s/veh | 4.4 | 4.2 | 0.0 | 8.8 | 2.0 | 0.0 | 2.1 | 1.4 | 3.0 | 1.3 | 2.5 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.9 | 18.6 | 0.0 | 7.2 | 12.7 | 0.0 | 7.6 | 6.2 | 5.5 | 4.8 | 7.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 51.9 | 37.3 | 0.0 | 59.6 | 36.1 | 0.0 | 41.6 | 40.1 | 41.5 | 41.0 | 43.6 | 0.0 |
| LnGrp LOS | D | D | | E | D | | D | D | D | D | D | |
| Approach Vol, veh/h | 1923 | | | 1132 | | | 733 | | | 549 | | |
| Approach Delay, s/veh | 40.5 | | | 38.8 | | | 41.0 | | | 42.6 | | |
| Approach LOS | D | | | D | | | D | | | D | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 44.6 | 45.4 | 28.0 | 26.0 | 20.6 | 39.4 | 26.0 | 28.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | | | | |
| Max Green Setting (Gmax), s | 20.8 | 30.4 | 23.8 | 21.8 | 25.8 | 25.4 | 21.8 | 23.8 | | | | |
| Max Q Clear Time (g_c+T1), s | 11.0 | 32.3 | 11.6 | 11.5 | 15.3 | 21.1 | 8.0 | 9.6 | | | | |
| Green Ext Time (p_c), s | 0.2 | 0.0 | 0.9 | 1.4 | 1.1 | 2.4 | 0.6 | 1.7 | | | | |

Intersection Summary

| | |
|------------------------------|------|
| HCM 7th Control Delay, s/veh | 40.4 |
| HCM 7th LOS | D |

Notes

Unsignalized Delay for [EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 3: S Milpitas Blvd & Yosemite Dr

1000 Gibraltar Dr - LTA
2026 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 42 | 29 | 8 | 193 | 7 | 155 | 0 | 289 | 140 | 367 | 647 | 5 |
| Future Volume (veh/h) | 42 | 29 | 8 | 193 | 7 | 155 | 0 | 289 | 140 | 367 | 647 | 5 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 43 | 30 | 8 | 197 | 7 | 158 | 0 | 295 | 143 | 374 | 660 | 5 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 164 | 127 | 34 | 295 | 9 | 195 | 2 | 1052 | 498 | 380 | 2537 | 19 |
| Arrive On Green | 0.03 | 0.09 | 0.09 | 0.07 | 0.13 | 0.13 | 0.00 | 0.45 | 0.45 | 0.21 | 0.70 | 0.70 |
| Sat Flow, veh/h | 1781 | 1423 | 379 | 1781 | 68 | 1528 | 1781 | 2341 | 1107 | 1781 | 3615 | 27 |
| Grp Volume(v), veh/h | 43 | 0 | 38 | 197 | 0 | 165 | 0 | 222 | 216 | 374 | 324 | 341 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1802 | 1781 | 0 | 1595 | 1781 | 1777 | 1671 | 1781 | 1777 | 1865 |
| Q Serve(g_s), s | 2.2 | 0.0 | 2.0 | 7.5 | 0.0 | 10.4 | 0.0 | 8.1 | 8.4 | 21.5 | 6.9 | 6.9 |
| Cycle Q Clear(g_c), s | 2.2 | 0.0 | 2.0 | 7.5 | 0.0 | 10.4 | 0.0 | 8.1 | 8.4 | 21.5 | 6.9 | 6.9 |
| Prop In Lane | 1.00 | | 0.21 | 1.00 | | 0.96 | 1.00 | | 0.66 | 1.00 | | 0.01 |
| Lane Grp Cap(c), veh/h | 164 | 0 | 161 | 295 | 0 | 204 | 2 | 799 | 751 | 380 | 1247 | 1309 |
| V/C Ratio(X) | 0.26 | 0.00 | 0.24 | 0.67 | 0.00 | 0.81 | 0.00 | 0.28 | 0.29 | 0.98 | 0.26 | 0.26 |
| Avail Cap(c_a), veh/h | 233 | 0 | 534 | 295 | 0 | 472 | 277 | 799 | 751 | 380 | 1247 | 1309 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 40.7 | 0.0 | 43.6 | 40.4 | 0.0 | 43.7 | 0.0 | 17.8 | 17.9 | 40.3 | 5.6 | 5.6 |
| Incr Delay (d2), s/veh | 0.8 | 0.0 | 0.7 | 5.7 | 0.0 | 7.5 | 0.0 | 0.9 | 1.0 | 41.5 | 0.5 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 1.8 | 0.0 | 1.6 | 2.7 | 0.0 | 7.8 | 0.0 | 6.0 | 5.9 | 19.5 | 4.0 | 4.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 41.6 | 0.0 | 44.4 | 46.1 | 0.0 | 51.2 | 0.0 | 18.7 | 18.9 | 81.8 | 6.1 | 6.1 |
| LnGrp LOS | D | | D | D | | D | | B | B | F | A | A |
| Approach Vol, veh/h | 81 | | 362 | | | | 438 | | | 1039 | | |
| Approach Delay, s/veh | 42.9 | | 48.4 | | | | 18.8 | | | 33.3 | | |
| Approach LOS | D | | D | | | | B | | | C | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 36.0 | 51.3 | 12.0 | 13.7 | 0.0 | 77.3 | 8.0 | 17.7 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.5 | 4.5 | 4.0 | 5.0 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 22.0 | 25.0 | 7.5 | 30.5 | 16.0 | 31.0 | 7.5 | 30.5 | | | | |
| Max Q Clear Time (g_c+2.0), s | 23.5 | 10.4 | 9.5 | 4.0 | 0.0 | 8.9 | 4.2 | 12.4 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.1 | 0.0 | 0.1 | 0.0 | 3.8 | 0.0 | 0.8 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 33.3 | | | | | | | | | | | |
| HCM 7th LOS | C | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary 4: S Milpitas Blvd & D1/Ames Ave

1000 Gibraltar Dr - LTA
2026 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Volume (veh/h) | 0 | 0 | 0 | 77 | 0 | 24 | 0 | 395 | 24 | 24 | 838 | 0 |
| Future Volume (veh/h) | 0 | 0 | 0 | 77 | 0 | 24 | 0 | 395 | 24 | 24 | 838 | 0 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 0 | 0 | 0 | 79 | 0 | 25 | 0 | 407 | 25 | 25 | 864 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 0 | 167 | 0 | 167 | 2 | 31 | 2 | 2500 | 153 | 46 | 2861 | 0 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.09 | 0.00 | 0.73 | 0.73 | 0.03 | 0.81 | 0.00 |
| Sat Flow, veh/h | 0 | 1870 | 0 | 1085 | 25 | 351 | 1781 | 3401 | 208 | 1781 | 3647 | 0 |
| Grp Volume(v), veh/h | 0 | 0 | 0 | 104 | 0 | 0 | 0 | 212 | 220 | 25 | 864 | 0 |
| Grp Sat Flow(s),veh/h/ln | 0 | 1870 | 0 | 1461 | 0 | 0 | 1781 | 1777 | 1833 | 1781 | 1777 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 6.1 | 0.0 | 0.0 | 0.0 | 3.2 | 3.3 | 1.2 | 5.6 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 | 0.0 | 3.2 | 3.3 | 1.2 | 5.6 | 0.0 |
| Prop In Lane | 0.00 | | 0.00 | 0.76 | | 0.24 | 1.00 | | 0.11 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 0 | 167 | 0 | 201 | 0 | 0 | 2 | 1306 | 1347 | 46 | 2861 | 0 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.00 | 0.52 | 0.00 | 0.00 | 0.00 | 0.16 | 0.16 | 0.54 | 0.30 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 333 | 0 | 483 | 0 | 0 | 317 | 1306 | 1347 | 317 | 2861 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 0.0 | 40.2 | 0.0 | 0.0 | 0.0 | 3.6 | 3.6 | 43.3 | 2.3 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 9.6 | 0.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.2 | 1.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 0.0 | 42.2 | 0.0 | 0.0 | 0.0 | 3.9 | 3.9 | 52.9 | 2.5 | 0.0 |
| LnGrp LOS | | | | D | | | | A | A | D | A | |
| Approach Vol, veh/h | 0 | | | 104 | | | 432 | | | 889 | | |
| Approach Delay, s/veh | 0.0 | | | 42.2 | | | 3.9 | | | 3.9 | | |
| Approach LOS | | | | D | | | A | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 6.3 | 71.1 | | 12.5 | 0.0 | 77.5 | | 12.5 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | | * 4.5 | 4.0 | 5.0 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.0 | 35.0 | | * 16 | 16.0 | 35.0 | | 25.5 | | | | |
| Max Q Clear Time (g_c+13.2), s | 13.2 | 5.3 | | 0.0 | 0.0 | 7.6 | | 8.3 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.4 | | 0.0 | 0.0 | 6.3 | | 0.4 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 6.7
HCM 7th LOS A

Notes

User approved pedestrian interval to be less than phase max green.





* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.




HCM 7th Signalized Intersection Summary
6: S Milpitas Blvd & Gibraltar Dr/ABC Dwy

1000 Gibraltar Dr - LTA
2026 No Build PM

























| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|-------|------|-------|-------|-------|-------|------|------|-------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 7 | 0 | 121 | 17 | 0 | 9 | 22 | 399 | 17 | 1 | 917 | 1 |
| Future Volume (veh/h) | 7 | 0 | 121 | 17 | 0 | 9 | 22 | 399 | 17 | 1 | 917 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 0 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 7 | 0 | 127 | 18 | 0 | 9 | 23 | 420 | 18 | 1 | 965 | 1 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 0 | 0 | 0 | 23 | 0 | 11 | 31 | 3066 | 131 | 2 | 1621 | 1374 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.02 | 0.02 | 0.88 | 0.88 | 0.00 | 0.86 | 0.86 |
| Sat Flow, veh/h | | 0 | | 1149 | 0 | 575 | 1795 | 3500 | 150 | 1795 | 1885 | 1598 |
| Grp Volume(v), veh/h | | 0.0 | | 27 | 0 | 0 | 23 | 214 | 224 | 1 | 965 | 1 |
| Grp Sat Flow(s), veh/h/ln | | | | 1724 | 0 | 0 | 1795 | 1791 | 1858 | 1795 | 1885 | 1598 |
| Q Serve(g_s), s | | | | 2.1 | 0.0 | 0.0 | 1.7 | 2.3 | 2.3 | 0.1 | 20.0 | 0.0 |
| Cycle Q Clear(g_c), s | | | | 2.1 | 0.0 | 0.0 | 1.7 | 2.3 | 2.3 | 0.1 | 20.0 | 0.0 |
| Prop In Lane | | | | 0.67 | | 0.33 | 1.00 | | 0.08 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | | | | 34 | 0 | 0 | 31 | 1569 | 1628 | 2 | 1621 | 1374 |
| V/C Ratio(X) | | | | 0.79 | 0.00 | 0.00 | 0.75 | 0.14 | 0.14 | 0.51 | 0.60 | 0.00 |
| Avail Cap(c_a), veh/h | | | | 349 | 0 | 0 | 363 | 1569 | 1628 | 363 | 1621 | 1374 |
| HCM Platoon Ratio | | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | | | | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | | | 66.4 | 0.0 | 0.0 | 66.6 | 1.2 | 1.2 | 67.9 | 2.7 | 1.3 |
| Incr Delay (d2), s/veh | | | | 41.7 | 0.0 | 0.0 | 40.0 | 0.2 | 0.2 | 167.8 | 1.6 | 0.0 |
| Initial Q Delay(d3), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | | | | 2.4 | 0.0 | 0.0 | 2.0 | 0.7 | 0.8 | 0.2 | 8.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | | | | 108.1 | 0.0 | 0.0 | 106.6 | 1.4 | 1.4 | 235.6 | 4.3 | 1.3 |
| LnGrp LOS | | | | F | | | F | A | A | F | A | A |
| Approach Vol, veh/h | | | | | 27 | | | 461 | | | 967 | |
| Approach Delay, s/veh | | | | | 108.1 | | | 6.6 | | | 4.6 | |
| Approach LOS | | | | | F | | | A | | | A | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | | | | | |
| Phs Duration (G+Y+Rc), s | 4.6 | 124.1 | | 7.2 | 6.8 | 122.0 | | | | | | |
| Change Period (Y+Rc), s | 4.5 | 5.0 | | 4.5 | 4.5 | 5.0 | | | | | | |
| Max Green Setting (Gmax), s | 27.5 | 35.0 | | 27.5 | 27.5 | 35.0 | | | | | | |
| Max Q Clear Time (g_c+I), s | 4.3 | | | 4.1 | 3.7 | 22.0 | | | | | | |
| Green Ext Time (p_c), s | 0.0 | 6.5 | | 0.1 | 0.0 | 10.0 | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 7.1 | | | | | | | | | |
| HCM 7th LOS | | | A | | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|---|------|--------|---|------|--------|---|-------|--------|---|-------|
| Int Delay, s/veh | 0.9 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  | | |  | | |  | | |  | |
| Traffic Vol, veh/h | 0 | 99 | 0 | 2 | 17 | 0 | 0 | 0 | 12 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 99 | 0 | 2 | 17 | 0 | 0 | 0 | 12 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 125 | 0 | 3 | 22 | 0 | 0 | 0 | 15 | 0 | 0 | 0 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 22 | 0 | 0 | 125 | 0 | 0 | 152 | 152 | 125 | 152 | 152 | 22 |
| Stage 1 | - | - | - | - | - | - | 125 | 125 | - | 27 | 27 | - |
| Stage 2 | - | - | - | - | - | - | 27 | 27 | - | 125 | 125 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1594 | - | - | 1461 | - | - | 815 | 740 | 925 | 815 | 740 | 1056 |
| Stage 1 | - | - | - | - | - | - | 879 | 792 | - | 991 | 873 | - |
| Stage 2 | - | - | - | - | - | - | 991 | 873 | - | 879 | 792 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1594 | - | - | 1461 | - | - | 814 | 738 | 925 | 801 | 738 | 1056 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 814 | 738 | - | 801 | 738 | - |
| Stage 1 | - | - | - | - | - | - | 879 | 792 | - | 989 | 871 | - |
| Stage 2 | - | - | - | - | - | - | 989 | 871 | - | 864 | 792 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Ctrl Dly, s/v | 0 | | | 0.79 | | | 8.96 | | | 0 | | |
| HCM LOS | | | | | | | A | | | A | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 925 | 1594 | - | - | 1461 | - | - | - | | | | |
| HCM Lane V/C Ratio | 0.016 | - | - | - | 0.002 | - | - | - | | | | |
| HCM Ctrl Dly (s/v) | 9 | 0 | - | - | 7.5 | - | - | 0 | | | | |
| HCM Lane LOS | A | A | - | - | A | - | - | A | | | | |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | - | - | | | | |

| Intersection | | | | | | |
|--------------------------|---|----------|---|------|-------|---|
| Int Delay, s/veh | 0 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations |  | |  | | |  |
| Traffic Vol, veh/h | 0 | 0 | 37 | 0 | 0 | 63 |
| Future Vol, veh/h | 0 | 0 | 37 | 0 | 0 | 63 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 60 | 60 | 60 | 60 | 60 | 60 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 62 | 0 | 0 | 105 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 167 | 31 | 0 | 0 | 62 | 0 |
| Stage 1 | 62 | - | - | - | - | - |
| Stage 2 | 105 | - | - | - | - | - |
| Critical Hdwy | 6.63 | 6.93 | - | - | 4.13 | - |
| Critical Hdwy Stg 1 | 5.83 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - |
| Follow-up Hdwy | 3.519 | 3.319 | - | - | 2.219 | - |
| Pot Cap-1 Maneuver | 816 | 1037 | - | - | 1540 | - |
| Stage 1 | 954 | - | - | - | - | - |
| Stage 2 | 919 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 816 | 1037 | - | - | 1540 | - |
| Mov Cap-2 Maneuver | 816 | - | - | - | - | - |
| Stage 1 | 954 | - | - | - | - | - |
| Stage 2 | 919 | - | - | - | - | - |
| Approach | WB | NB | | SB | | |
| HCM Ctrl Dly, s/v | 0 | 0 | | 0 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | | |
| Capacity (veh/h) | - | - | - | 1540 | - | |
| HCM Lane V/C Ratio | - | - | - | - | - | |
| HCM Ctrl Dly (s/v) | - | - | 0 | 0 | - | |
| HCM Lane LOS | - | - | A | A | - | |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - | |

HCM 7th Signalized Intersection Summary
9: S Milpitas Dr & Montague Expy













1000 Gibraltar Dr - LTA
2026 No Build PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  |  |  |  | |  |  |  |
| Traffic Volume (veh/h) | 393 | 1897 | 32 | 93 | 1133 | 131 | 19 | 82 | 143 | 360 | 172 | 522 |
| Future Volume (veh/h) | 393 | 1897 | 32 | 93 | 1133 | 131 | 19 | 82 | 143 | 360 | 172 | 522 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1945 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 401 | 1936 | 33 | 95 | 1156 | 134 | 19 | 84 | 146 | 367 | 176 | 533 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 437 | 3132 | 53 | 127 | 2488 | 637 | 439 | 498 | 444 | 364 | 918 | 409 |
| Arrive On Green | 0.13 | 0.48 | 0.48 | 0.04 | 0.39 | 0.39 | 0.13 | 0.28 | 0.28 | 0.11 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3456 | 6564 | 112 | 3456 | 6434 | 1648 | 3456 | 1777 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 401 | 1423 | 546 | 95 | 1156 | 134 | 19 | 84 | 146 | 367 | 176 | 533 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1609 | 1850 | 1728 | 1609 | 1648 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 26.4 | 50.3 | 50.3 | 6.3 | 30.9 | 12.5 | 1.1 | 8.2 | 16.8 | 24.2 | 8.9 | 59.4 |
| Cycle Q Clear(g_c), s | 26.4 | 50.3 | 50.3 | 6.3 | 30.9 | 12.5 | 1.1 | 8.2 | 16.8 | 24.2 | 8.9 | 59.4 |
| Prop In Lane | 1.00 | | 0.06 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 437 | 2302 | 883 | 127 | 2488 | 637 | 439 | 498 | 444 | 364 | 918 | 409 |
| V/C Ratio(X) | 0.92 | 0.62 | 0.62 | 0.75 | 0.46 | 0.21 | 0.04 | 0.17 | 0.33 | 1.01 | 0.19 | 1.30 |
| Avail Cap(c_a), veh/h | 508 | 2302 | 883 | 361 | 2488 | 637 | 439 | 498 | 444 | 364 | 918 | 409 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.74 | 0.74 | 0.74 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 99.3 | 44.6 | 44.6 | 109.7 | 52.7 | 47.1 | 88.1 | 62.6 | 65.7 | 102.9 | 66.6 | 85.3 |
| Incr Delay (d2), s/veh | 16.0 | 0.9 | 2.4 | 8.4 | 0.6 | 0.8 | 0.2 | 0.7 | 2.0 | 49.6 | 0.5 | 152.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 17.9 | 26.6 | 30.6 | 5.4 | 18.5 | 9.2 | 0.9 | 6.9 | 11.5 | 19.5 | 7.4 | 60.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 115.2 | 45.5 | 47.0 | 118.1 | 53.4 | 47.8 | 88.3 | 63.3 | 67.6 | 152.5 | 67.0 | 238.1 |
| LnGrp LOS | F | D | D | F | D | D | F | E | E | F | E | F |
| Approach Vol, veh/h | 2370 | | | 1385 | | | 249 | | | 1076 | | |
| Approach Delay, s/veh | 57.7 | | | 57.3 | | | 67.8 | | | 180.9 | | |
| Approach LOS | E | | | E | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 35.3 | 94.7 | 35.0 | 65.0 | 14.5 | 115.5 | 30.0 | 70.0 | | | | |
| Change Period (Y+Rc), s | 6.2 | 5.8 | 5.8 | 5.6 | 6.0 | 5.8 | 5.8 | 5.6 | | | | |
| Max Green Setting (Gmax), s | 33.8 | 84.2 | 29.2 | 54.4 | 24.0 | 94.2 | 24.2 | 64.4 | | | | |
| Max Q Clear Time (g_c+I1), s | 28.4 | 32.9 | 3.1 | 61.4 | 8.3 | 52.3 | 26.2 | 18.8 | | | | |
| Green Ext Time (p_c), s | 0.7 | 10.4 | 0.0 | 0.0 | 0.2 | 19.3 | 0.0 | 1.4 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 84.2 | | | | | | | | | | | |
| HCM 7th LOS | F | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary
10: E Capitol Ave/Great Mall Pkwy & Montague Expy

1000 Gibraltar Dr - LTA
2026 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 208 | 1692 | 249 | 135 | 1021 | 390 | 140 | 302 | 77 | 614 | 1233 | 58 |
| Future Volume (veh/h) | 208 | 1692 | 249 | 135 | 1021 | 390 | 140 | 302 | 77 | 614 | 1233 | 58 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 212 | 1727 | 0 | 138 | 1042 | 398 | 143 | 308 | 0 | 627 | 1258 | 0 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 244 | 3470 | | 166 | 3322 | 818 | 171 | 691 | | 656 | 1404 | |
| Arrive On Green | 0.07 | 0.54 | 0.00 | 0.05 | 0.52 | 0.52 | 0.05 | 0.14 | 0.00 | 0.19 | 0.27 | 0.00 |
| Sat Flow, veh/h | 3456 | 6434 | 1585 | 3456 | 6434 | 1585 | 3456 | 5106 | 1585 | 3456 | 5106 | 1585 |
| Grp Volume(v), veh/h | 212 | 1727 | 0 | 138 | 1042 | 398 | 143 | 308 | 0 | 627 | 1258 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1609 | 1585 | 1728 | 1609 | 1585 | 1728 | 1702 | 1585 | 1728 | 1702 | 1585 |
| Q Serve(g_s), s | 16.4 | 45.6 | 0.0 | 10.7 | 25.2 | 43.8 | 11.1 | 15.0 | 0.0 | 48.5 | 64.0 | 0.0 |
| Cycle Q Clear(g_c), s | 16.4 | 45.6 | 0.0 | 10.7 | 25.2 | 43.8 | 11.1 | 15.0 | 0.0 | 48.5 | 64.0 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 244 | 3470 | | 166 | 3322 | 818 | 171 | 691 | | 656 | 1404 | |
| V/C Ratio(X) | 0.87 | 0.50 | | 0.83 | 0.31 | 0.49 | 0.84 | 0.45 | | 0.96 | 0.90 | |
| Avail Cap(c_a), veh/h | 695 | 3470 | | 312 | 3322 | 818 | 298 | 1027 | | 685 | 1594 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.50 | 0.50 | 0.00 | 0.81 | 0.81 | 0.81 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 24.2 | 39.2 | 0.0 | 127.4 | 37.7 | 42.2 | 127.2 | 107.4 | 0.0 | 108.2 | 94.2 | 0.0 |
| Incr Delay (d2), s/veh | 4.8 | 0.3 | 0.0 | 8.4 | 0.2 | 1.7 | 10.2 | 0.5 | 0.0 | 23.5 | 6.5 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 10.8 | 23.3 | 0.0 | 8.4 | 14.9 | 24.1 | 9.1 | 11.0 | 0.0 | 32.2 | 38.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 129.0 | 39.4 | 0.0 | 135.8 | 37.9 | 43.9 | 137.5 | 107.9 | 0.0 | 131.8 | 100.7 | 0.0 |
| LnGrp LOS | F | D | | F | D | D | F | F | | F | F | |
| Approach Vol, veh/h | 1939 | | | 1578 | | | 451 | | | 1885 | | |
| Approach Delay, s/veh | 49.2 | | | 48.0 | | | 117.3 | | | 111.0 | | |
| Approach LOS | D | | | D | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 24.8 | 145.2 | 57.8 | 42.2 | 18.6 | 151.4 | 20.1 | 79.9 | | | | |
| Change Period (Y+Rc), s | 5.7 | 5.8 | 6.5 | 5.7 | 5.6 | 5.8 | 6.7 | 5.7 | | | | |
| Max Green Setting (Gmax), s | 54.3 | 84.2 | 53.5 | 54.3 | 24.4 | 114.2 | 23.3 | 84.3 | | | | |
| Max Q Clear Time (g_c+110.4), s | 110.4 | 45.8 | 50.5 | 17.0 | 12.7 | 47.6 | 13.1 | 66.0 | | | | |
| Green Ext Time (p_c), s | 0.7 | 10.3 | 0.8 | 2.1 | 0.3 | 19.7 | 0.3 | 8.2 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 74.0
HCM 7th LOS E

Notes

Unsignalized Delay for [NBR, EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
11: Trade Zone Blvd/McCandless Dr & Montague Expy

1000 Gibraltar Dr - LTA
2026 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|-------|------|-------|------|------|------|------|-------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 104 | 2053 | 1149 | 226 | 958 | 45 | 592 | 57 | 205 | 48 | 134 | 149 |
| Future Volume (veh/h) | 104 | 2053 | 1149 | 226 | 958 | 45 | 592 | 57 | 205 | 48 | 134 | 149 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 106 | 2095 | 1172 | 231 | 978 | 0 | 523 | 172 | 0 | 49 | 137 | 0 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 131 | 2598 | 806 | 258 | 2952 | | 521 | 293 | | 207 | 170 | |
| Arrive On Green | 0.07 | 0.51 | 0.51 | 0.14 | 0.58 | 0.00 | 0.10 | 0.16 | 0.00 | 0.04 | 0.09 | 0.00 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 1781 | 5106 | 1585 | 3563 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 106 | 2095 | 1172 | 231 | 978 | 0 | 523 | 172 | 0 | 49 | 137 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1702 | 1585 | 1781 | 1702 | 1585 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 8.2 | 47.9 | 71.2 | 17.8 | 14.0 | 0.0 | 14.6 | 12.0 | 0.0 | 3.4 | 10.1 | 0.0 |
| Cycle Q Clear(g_c), s | 8.2 | 47.9 | 71.2 | 17.8 | 14.0 | 0.0 | 14.6 | 12.0 | 0.0 | 3.4 | 10.1 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 131 | 2598 | 806 | 258 | 2952 | | 521 | 293 | | 207 | 170 | |
| V/C Ratio(X) | 0.81 | 0.81 | 1.45 | 0.90 | 0.33 | | 1.00 | 0.59 | | 0.24 | 0.81 | |
| Avail Cap(c_a), veh/h | 383 | 2598 | 806 | 387 | 2952 | | 521 | 395 | | 325 | 397 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.26 | 0.26 | 0.26 | 0.94 | 0.94 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 63.9 | 28.6 | 34.4 | 58.8 | 15.4 | 0.0 | 54.2 | 54.9 | 0.0 | 54.5 | 62.5 | 0.0 |
| Incr Delay (d2), s/veh | 3.2 | 0.7 | 205.9 | 15.5 | 0.3 | 0.0 | 40.1 | 1.9 | 0.0 | 0.6 | 8.8 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 5.4 | 22.2 | 103.8 | 13.8 | 8.9 | 0.0 | 8.7 | 9.7 | 0.0 | 2.9 | 9.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 67.1 | 29.4 | 240.3 | 74.3 | 15.7 | 0.0 | 94.3 | 56.7 | 0.0 | 55.1 | 71.2 | 0.0 |
| LnGrp LOS | E | C | F | E | B | | F | E | | E | E | |
| Approach Vol, veh/h | 3373 | | | 1209 | | | 695 | | | 186 | | |
| Approach Delay, s/veh | 103.9 | | | 26.9 | | | 85.0 | | | 67.0 | | |
| Approach LOS | F | | | C | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 5.2 | 86.7 | 10.8 | 27.3 | 24.9 | 77.0 | 20.0 | 18.1 | | | | |
| Change Period (Y+Rc), s | 4.9 | 5.8 | 5.3 | 5.4 | 4.6 | 5.8 | 5.4 | * 5.4 | | | | |
| Max Green Setting (Gmax), s | 30.1 | 44.2 | 14.7 | 29.6 | 30.4 | 44.2 | 14.6 | * 30 | | | | |
| Max Q Clear Time (g_c+10), s | 10.2 | 16.0 | 5.4 | 14.0 | 19.8 | 73.2 | 16.6 | 12.1 | | | | |
| Green Ext Time (p_c), s | 0.2 | 7.0 | 0.0 | 0.7 | 0.4 | 0.0 | 0.0 | 0.6 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 83.2
HCM 7th LOS F

Notes

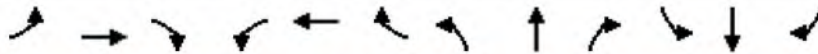
User approved volume balancing among the lanes for turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
12: Oakland Rd/S Main St & Montague Expy

1000 Gibraltar Dr - LTA
2026 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|------|-------|------|------|------|-------|-------|-------|------|------|------|------|
| Lane Configurations | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑ | ↱ | ↰↱ | ↑↑ | ↱ |
| Traffic Volume (veh/h) | 231 | 2517 | 191 | 170 | 1337 | 144 | 305 | 269 | 343 | 257 | 359 | 210 |
| Future Volume (veh/h) | 231 | 2517 | 191 | 170 | 1337 | 144 | 305 | 269 | 343 | 257 | 359 | 210 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 233 | 2542 | 0 | 172 | 1351 | 0 | 308 | 272 | 0 | 260 | 363 | 0 |
| Peak Hour Factor | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 278 | 2850 | | 213 | 2766 | | 349 | 593 | | 305 | 552 | |
| Arrive On Green | 0.08 | 0.56 | 0.00 | 0.06 | 0.54 | 0.00 | 0.10 | 0.17 | 0.00 | 0.09 | 0.16 | 0.00 |
| Sat Flow, veh/h | 3456 | 5106 | 1585 | 3456 | 5106 | 1585 | 3456 | 3554 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 233 | 2542 | 0 | 172 | 1351 | 0 | 308 | 272 | 0 | 260 | 363 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1702 | 1585 | 1728 | 1702 | 1585 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 12.6 | 83.2 | 0.0 | 9.3 | 31.3 | 0.0 | 16.7 | 13.1 | 0.0 | 14.1 | 18.3 | 0.0 |
| Cycle Q Clear(g_c), s | 12.6 | 83.2 | 0.0 | 9.3 | 31.3 | 0.0 | 16.7 | 13.1 | 0.0 | 14.1 | 18.3 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 278 | 2850 | | 213 | 2766 | | 349 | 593 | | 305 | 552 | |
| V/C Ratio(X) | 0.84 | 0.89 | | 0.81 | 0.49 | | 0.88 | 0.46 | | 0.85 | 0.66 | |
| Avail Cap(c_a), veh/h | 535 | 2850 | | 437 | 2766 | | 437 | 593 | | 524 | 552 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 0.88 | 0.88 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 86.2 | 36.9 | 0.0 | 88.0 | 27.1 | 0.0 | 84.3 | 71.4 | 0.0 | 85.4 | 75.5 | 0.0 |
| Incr Delay (d2), s/veh | 6.7 | 4.7 | 0.0 | 6.2 | 0.5 | 0.0 | 15.9 | 2.5 | 0.0 | 6.7 | 6.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.9 | 44.2 | 0.0 | 7.5 | 18.3 | 0.0 | 13.0 | 10.3 | 0.0 | 10.8 | 13.7 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 92.9 | 41.7 | 0.0 | 94.2 | 27.7 | 0.0 | 100.1 | 73.9 | 0.0 | 92.0 | 81.5 | 0.0 |
| LnGrp LOS | F | D | | F | C | | F | E | | F | F | |
| Approach Vol, veh/h | 2775 | | | 1523 | | | 580 | | | 623 | | |
| Approach Delay, s/veh | 46.0 | | | 35.2 | | | 87.8 | | | 85.9 | | |
| Approach LOS | D | | | D | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 30.9 | 108.7 | 23.0 | 37.4 | 17.7 | 111.9 | 25.2 | 35.2 | | | | |
| Change Period (Y+Rc), s | 5.6 | 5.8 | 6.2 | 5.7 | 6.0 | 5.8 | 6.0 | * 5.7 | | | | |
| Max Green Setting (Gmax), s | 29.4 | 84.2 | 28.8 | 24.3 | 24.0 | 89.2 | 24.0 | * 30 | | | | |
| Max Q Clear Time (g_c+14.0), s | 14.6 | 33.3 | 16.1 | 15.1 | 11.3 | 85.2 | 18.7 | 20.3 | | | | |
| Green Ext Time (p_c), s | 0.6 | 12.3 | 0.7 | 1.0 | 0.4 | 3.7 | 0.5 | 1.5 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 51.9
HCM 7th LOS D

Notes





























* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

D3 – Build Conditions 2026

HCM 7th Signalized Intersection Summary
1: S Abel S/N Abel St & W Calaveras Blvd

1000 Gibraltar Dr - LTA
2026 Build AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |    |  |  |    |  |  |   |  |  |  | |
| Traffic Volume (veh/h) | 155 | 832 | 25 | 327 | 1646 | 108 | 29 | 277 | 313 | 131 | 365 | 459 |
| Future Volume (veh/h) | 155 | 832 | 25 | 327 | 1646 | 108 | 29 | 277 | 313 | 131 | 365 | 459 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 168 | 904 | 0 | 355 | 1789 | 0 | 32 | 301 | 340 | 142 | 397 | 499 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 200 | 1640 | | 379 | 2134 | | 49 | 779 | 347 | 168 | 1016 | 453 |
| Arrive On Green | 0.11 | 0.32 | 0.00 | 0.21 | 0.42 | 0.00 | 0.03 | 0.22 | 0.22 | 0.09 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 1781 | 5106 | 1585 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 168 | 904 | 0 | 355 | 1789 | 0 | 32 | 301 | 340 | 142 | 397 | 499 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1702 | 1585 | 1781 | 1702 | 1585 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 11.1 | 17.5 | 0.0 | 23.5 | 37.7 | 0.0 | 2.1 | 8.7 | 25.6 | 9.4 | 10.8 | 34.3 |
| Cycle Q Clear(g_c), s | 11.1 | 17.5 | 0.0 | 23.5 | 37.7 | 0.0 | 2.1 | 8.7 | 25.6 | 9.4 | 10.8 | 34.3 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 200 | 1640 | | 379 | 2134 | | 49 | 779 | 347 | 168 | 1016 | 453 |
| V/C Ratio(X) | 0.84 | 0.55 | | 0.94 | 0.84 | | 0.66 | 0.39 | 0.98 | 0.85 | 0.39 | 1.10 |
| Avail Cap(c_a), veh/h | 465 | 1640 | | 383 | 2134 | | 197 | 779 | 347 | 168 | 1016 | 453 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 52.2 | 33.6 | 0.0 | 46.4 | 31.3 | 0.0 | 57.8 | 40.0 | 46.6 | 53.5 | 34.4 | 42.8 |
| Incr Delay (d2), s/veh | 9.2 | 1.3 | 0.0 | 30.1 | 4.1 | 0.0 | 14.0 | 0.3 | 42.4 | 31.0 | 0.2 | 72.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.2 | 11.8 | 0.0 | 19.3 | 22.0 | 0.0 | 2.1 | 6.8 | 20.1 | 9.5 | 8.2 | 31.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 61.4 | 34.9 | 0.0 | 76.5 | 35.4 | 0.0 | 71.9 | 40.3 | 89.0 | 84.5 | 34.7 | 115.3 |
| LnGrp LOS | E | C | | E | D | | E | D | F | F | C | F |
| Approach Vol, veh/h | 1072 | | | 2144 | | | 673 | | | 1038 | | |
| Approach Delay, s/veh | 39.1 | | | 42.2 | | | 66.4 | | | 80.3 | | |
| Approach LOS | D | | | D | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 29.7 | 43.3 | 8.0 | 39.0 | 18.1 | 54.9 | 16.0 | 31.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.7 | 4.7 | 4.7 | 4.7 | * 4.7 | 4.7 | 4.7 | | | | |
| Max Green Setting (Gmax), s | 25.8 | 36.3 | 13.3 | 26.3 | 31.3 | * 30 | 11.3 | 26.3 | | | | |
| Max Q Clear Time (g_c+I1), s | 25.5 | 19.5 | 4.1 | 36.3 | 13.1 | 39.7 | 11.4 | 27.6 | | | | |
| Green Ext Time (p_c), s | 0.0 | 5.7 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 52.9
HCM 7th LOS D

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
2: S Milpitas Blvd/N Milpitas Blvd & E Calaveras Blvd

1000 Gibraltar Dr - LTA
2026 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑ | ↱ | ↰↱ | ↑↑ | ↱ |
| Traffic Volume (veh/h) | 183 | 626 | 384 | 93 | 1603 | 212 | 376 | 207 | 67 | 137 | 214 | 330 |
| Future Volume (veh/h) | 183 | 626 | 384 | 93 | 1603 | 212 | 376 | 207 | 67 | 137 | 214 | 330 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 195 | 666 | 0 | 99 | 1705 | 0 | 400 | 220 | 71 | 146 | 228 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 268 | 1918 | | 131 | 1897 | | 721 | 742 | 331 | 661 | 680 | |
| Arrive On Green | 0.08 | 0.38 | 0.00 | 0.07 | 0.37 | 0.00 | 0.21 | 0.21 | 0.21 | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3456 | 5106 | 1585 | 1781 | 5106 | 1585 | 3456 | 3554 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 195 | 666 | 0 | 99 | 1705 | 0 | 400 | 220 | 71 | 146 | 228 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1702 | 1585 | 1781 | 1702 | 1585 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 6.3 | 10.7 | 0.0 | 6.2 | 35.9 | 0.0 | 11.8 | 6.0 | 4.2 | 4.1 | 6.3 | 0.0 |
| Cycle Q Clear(g_c), s | 6.3 | 10.7 | 0.0 | 6.2 | 35.9 | 0.0 | 11.8 | 6.0 | 4.2 | 4.1 | 6.3 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 268 | 1918 | | 131 | 1897 | | 721 | 742 | 331 | 661 | 680 | |
| V/C Ratio(X) | 0.73 | 0.35 | | 0.76 | 0.90 | | 0.55 | 0.30 | 0.21 | 0.22 | 0.34 | |
| Avail Cap(c_a), veh/h | 782 | 1918 | | 325 | 1897 | | 721 | 742 | 331 | 661 | 680 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 51.4 | 25.6 | 0.0 | 51.8 | 33.8 | 0.0 | 40.4 | 38.0 | 37.4 | 38.9 | 39.8 | 0.0 |
| Incr Delay (d2), s/veh | 3.8 | 0.5 | 0.0 | 8.6 | 7.3 | 0.0 | 3.1 | 1.0 | 1.5 | 0.8 | 1.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 5.1 | 7.7 | 0.0 | 5.5 | 21.9 | 0.0 | 9.0 | 4.8 | 3.1 | 3.2 | 5.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 55.2 | 26.1 | 0.0 | 60.4 | 41.0 | 0.0 | 43.4 | 39.1 | 38.8 | 39.7 | 41.2 | 0.0 |
| LnGrp LOS | E | C | | E | D | | D | D | D | D | D | |
| Approach Vol, veh/h | 861 | | 1804 | | | 691 | | | 374 | | | |
| Approach Delay, s/veh | 32.6 | | 42.1 | | | 41.6 | | | 40.6 | | | |
| Approach LOS | C | | D | | | D | | | D | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 2.6 | 47.4 | 28.0 | 26.0 | 13.0 | 47.0 | 26.0 | 28.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | | | | |
| Max Green Setting (Gmax), s | 20.8 | 30.4 | 23.8 | 21.8 | 25.8 | 25.4 | 21.8 | 23.8 | | | | |
| Max Q Clear Time (g_c+I), s | 10.2 | 12.7 | 13.8 | 8.3 | 8.3 | 37.9 | 6.1 | 8.0 | | | | |
| Green Ext Time (p_c), s | 0.2 | 4.0 | 1.0 | 1.0 | 0.5 | 0.0 | 0.4 | 1.3 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 39.7
HCM 7th LOS D









Notes

Unsignalized Delay for [EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 3: S Milpitas Blvd & Yosemite Dr

1000 Gibraltar Dr - LTA
2026 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|------|---|---|------|---|---|------|---|---|------|
| Lane Configurations |  |  | |  |  | |  |  | |  |  | |
| Traffic Volume (veh/h) | 40 | 4 | 3 | 238 | 32 | 311 | 9 | 290 | 105 | 177 | 258 | 72 |
| Future Volume (veh/h) | 40 | 4 | 3 | 238 | 32 | 311 | 9 | 290 | 105 | 177 | 258 | 72 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 43 | 4 | 3 | 253 | 34 | 331 | 10 | 309 | 112 | 188 | 274 | 77 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 160 | 210 | 157 | 491 | 37 | 364 | 21 | 1039 | 369 | 222 | 1423 | 392 |
| Arrive On Green | 0.03 | 0.21 | 0.21 | 0.07 | 0.25 | 0.25 | 0.01 | 0.41 | 0.41 | 0.13 | 0.53 | 0.53 |
| Sat Flow, veh/h | 1753 | 977 | 732 | 1753 | 147 | 1435 | 1753 | 2529 | 899 | 1753 | 2709 | 747 |
| Grp Volume(v), veh/h | 43 | 0 | 7 | 253 | 0 | 365 | 10 | 212 | 209 | 188 | 175 | 176 |
| Grp Sat Flow(s),veh/h/ln | 1753 | 0 | 1709 | 1753 | 0 | 1582 | 1753 | 1749 | 1679 | 1753 | 1749 | 1706 |
| Q Serve(g_s), s | 1.9 | 0.0 | 0.3 | 7.5 | 0.0 | 23.1 | 0.6 | 8.4 | 8.6 | 10.8 | 5.4 | 5.6 |
| Cycle Q Clear(g_c), s | 1.9 | 0.0 | 0.3 | 7.5 | 0.0 | 23.1 | 0.6 | 8.4 | 8.6 | 10.8 | 5.4 | 5.6 |
| Prop In Lane | 1.00 | | 0.43 | 1.00 | | 0.91 | 1.00 | | 0.54 | 1.00 | | 0.44 |
| Lane Grp Cap(c), veh/h | 160 | 0 | 367 | 491 | 0 | 401 | 21 | 718 | 690 | 222 | 919 | 897 |
| V/C Ratio(X) | 0.27 | 0.00 | 0.02 | 0.52 | 0.00 | 0.91 | 0.47 | 0.29 | 0.30 | 0.85 | 0.19 | 0.20 |
| Avail Cap(c_a), veh/h | 227 | 0 | 506 | 491 | 0 | 469 | 272 | 718 | 690 | 374 | 919 | 897 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 31.6 | 0.0 | 31.9 | 30.1 | 0.0 | 37.3 | 50.6 | 20.3 | 20.4 | 44.0 | 12.9 | 12.9 |
| Incr Delay (d2), s/veh | 0.9 | 0.0 | 0.0 | 0.9 | 0.0 | 20.0 | 15.4 | 1.0 | 1.1 | 8.6 | 0.5 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 1.5 | 0.0 | 0.2 | 9.0 | 0.0 | 16.2 | 0.6 | 6.2 | 6.2 | 8.8 | 3.8 | 3.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 32.5 | 0.0 | 31.9 | 31.1 | 0.0 | 57.3 | 66.0 | 21.4 | 21.6 | 52.6 | 13.3 | 13.4 |
| LnGrp LOS | C | | C | C | | E | E | C | C | D | B | B |
| Approach Vol, veh/h | 50 | | | 618 | | | 431 | | | 539 | | |
| Approach Delay, s/veh | 32.4 | | | 46.5 | | | 22.5 | | | 27.1 | | |
| Approach LOS | C | | | D | | | C | | | C | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 7.1 | 47.3 | 12.0 | 26.6 | 5.2 | 59.1 | 8.0 | 30.6 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.5 | 4.5 | 4.0 | 5.0 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 22.0 | 25.0 | 7.5 | 30.5 | 16.0 | 31.0 | 7.5 | 30.5 | | | | |
| Max Q Clear Time (g_c+Tb), s | 12.8 | 10.6 | 9.5 | 2.3 | 2.6 | 7.6 | 3.9 | 25.1 | | | | |
| Green Ext Time (p_c), s | 0.3 | 2.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 1.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 33.4 | | | | | | | | | | | |
| HCM 7th LOS | C | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary 4: S Milpitas Blvd & D1/Ames Ave

1000 Gibraltar Dr - LTA
2026 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|-------|------|------|-------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↗ | ↕ | | ↗ | ↕ | |
| Traffic Volume (veh/h) | 0 | 0 | 0 | 30 | 0 | 15 | 1 | 432 | 63 | 33 | 447 | 1 |
| Future Volume (veh/h) | 0 | 0 | 0 | 30 | 0 | 15 | 1 | 432 | 63 | 33 | 447 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 |
| Adj Flow Rate, veh/h | 0 | 0 | 0 | 32 | 0 | 16 | 1 | 460 | 67 | 35 | 476 | 1 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cap, veh/h | 0 | 73 | 0 | 105 | 0 | 19 | 2 | 2345 | 340 | 56 | 2848 | 6 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.04 | 0.00 | 0.78 | 0.78 | 0.03 | 0.81 | 0.81 |
| Sat Flow, veh/h | 0 | 1811 | 0 | 948 | 0 | 474 | 1725 | 3016 | 437 | 1725 | 3523 | 7 |
| Grp Volume(v), veh/h | 0 | 0 | 0 | 48 | 0 | 0 | 1 | 261 | 266 | 35 | 232 | 245 |
| Grp Sat Flow(s),veh/h/ln | 0 | 1811 | 0 | 1423 | 0 | 0 | 1725 | 1721 | 1732 | 1725 | 1721 | 1810 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.1 | 3.6 | 3.6 | 1.8 | 2.7 | 2.7 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.1 | 3.6 | 3.6 | 1.8 | 2.7 | 2.7 |
| Prop In Lane | 0.00 | | 0.00 | 0.67 | | 0.33 | 1.00 | | 0.25 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 0 | 73 | 0 | 124 | 0 | 0 | 2 | 1338 | 1347 | 56 | 1391 | 1463 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 | 0.42 | 0.20 | 0.20 | 0.63 | 0.17 | 0.17 |
| Avail Cap(c_a), veh/h | 0 | 322 | 0 | 470 | 0 | 0 | 307 | 1338 | 1347 | 307 | 1391 | 1463 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 0.0 | 42.9 | 0.0 | 0.0 | 44.9 | 2.6 | 2.6 | 43.0 | 1.9 | 1.9 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 89.5 | 0.3 | 0.3 | 11.0 | 0.3 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.1 | 1.5 | 1.5 | 1.6 | 0.9 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 0.0 | 44.9 | 0.0 | 0.0 | 134.4 | 3.0 | 3.0 | 54.0 | 2.2 | 2.2 |
| LnGrp LOS | | | | D | | | | F | A | A | D | A |
| Approach Vol, veh/h | 0 | | | 48 | | | 528 | | | 512 | | |
| Approach Delay, s/veh | 0.0 | | | 44.9 | | | 3.2 | | | 5.7 | | |
| Approach LOS | | | | D | | | A | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 6.9 | 75.0 | | 8.1 | 4.1 | 77.8 | | 8.1 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | | * 4.5 | 4.0 | 5.0 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.0 | 35.0 | | * 16 | 16.0 | 35.0 | | 25.5 | | | | |
| Max Q Clear Time (g_c+I), s | 13.8 | 5.6 | | 0.0 | 2.1 | 4.7 | | 5.0 | | | | |
| Green Ext Time (p_c), s | 0.0 | 3.1 | | 0.0 | 0.0 | 2.7 | | 0.2 | | | | |




Intersection Summary

HCM 7th Control Delay, s/veh 6.2
HCM 7th LOS A

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

| Intersection | | | | | | |
|--------------------------|---|------|------|---|---|------|
| Int Delay, s/veh | 1.2 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations |  | | |  |  | |
| Traffic Vol, veh/h | 13 | 45 | 46 | 484 | 468 | 13 |
| Future Vol, veh/h | 13 | 45 | 46 | 484 | 468 | 13 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 6 | 6 | 6 | 6 | 6 | 6 |
| Mvmt Flow | 14 | 47 | 48 | 509 | 493 | 14 |






















| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 851 | 253 | 506 |
| Stage 1 | 499 | - | - |
| Stage 2 | 352 | - | - |
| Critical Hdwy | 6.92 | 7.02 | 4.22 |
| Critical Hdwy Stg 1 | 5.92 | - | - |
| Critical Hdwy Stg 2 | 5.92 | - | - |
| Follow-up Hdwy | 3.56 | 3.36 | 2.26 |
| Pot Cap-1 Maneuver | 291 | 734 | 1027 |
| Stage 1 | 564 | - | - |
| Stage 2 | 672 | - | - |
| Platoon blocked, % | | | |
| Mov Cap-1 Maneuver | 275 | 734 | 1027 |
| Mov Cap-2 Maneuver | 394 | - | - |
| Stage 1 | 533 | - | - |
| Stage 2 | 672 | - | - |





| Approach | EB | NB | SB |
|-------------------|------|------|----|
| HCM Ctrl Dly, s/v | 11.5 | 1.12 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT EBLn1 | SBT | SBR |
|-----------------------|-------|-----------|-------|-----|
| Capacity (veh/h) | 312 | - | 615 | - |
| HCM Lane V/C Ratio | 0.047 | - | 0.099 | - |
| HCM Ctrl Dly (s/v) | 8.7 | 0.4 | 11.5 | - |
| HCM Lane LOS | A | A | B | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 0.3 | - |

HCM 7th Signalized Intersection Summary
6: S Milpitas Blvd & Gibraltar Dr/ABC Dwy




1000 Gibraltar Dr - LTA
2026 Build AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | |  | |  | |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 5 | 0 | 41 | 8 | 0 | 2 | 182 | 530 | 12 | 4 | 507 | 4 |
| Future Volume (veh/h) | 5 | 0 | 41 | 8 | 0 | 2 | 182 | 530 | 12 | 4 | 507 | 4 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 0 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 |
| Adj Flow Rate, veh/h | 6 | 0 | 49 | 10 | 0 | 2 | 219 | 639 | 14 | 5 | 611 | 5 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Percent Heavy Veh, % | 6 | 0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cap, veh/h | 0 | 0 | 0 | 15 | 0 | 3 | 249 | 3054 | 67 | 9 | 1355 | 1148 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.14 | 0.89 | 0.89 | 0.01 | 0.75 | 0.75 |
| Sat Flow, veh/h | | 0 | | 1408 | 0 | 282 | 1725 | 3443 | 75 | 1725 | 1811 | 1535 |
| Grp Volume(v), veh/h | | 0.0 | | 12 | 0 | 0 | 219 | 319 | 334 | 5 | 611 | 5 |
| Grp Sat Flow(s),veh/h/ln | | | | 1690 | 0 | 0 | 1725 | 1721 | 1798 | 1725 | 1811 | 1535 |
| Q Serve(g_s), s | | | | 1.0 | 0.0 | 0.0 | 17.9 | 3.7 | 3.7 | 0.4 | 18.5 | 0.1 |
| Cycle Q Clear(g_c), s | | | | 1.0 | 0.0 | 0.0 | 17.9 | 3.7 | 3.7 | 0.4 | 18.5 | 0.1 |
| Prop In Lane | | | | 0.83 | | 0.17 | 1.00 | | 0.04 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | | | | 18 | 0 | 0 | 249 | 1526 | 1595 | 9 | 1355 | 1148 |
| V/C Ratio(X) | | | | 0.67 | 0.00 | 0.00 | 0.88 | 0.21 | 0.21 | 0.58 | 0.45 | 0.00 |
| Avail Cap(c_a), veh/h | | | | 323 | 0 | 0 | 425 | 1526 | 1595 | 329 | 1355 | 1148 |
| HCM Platoon Ratio | | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | | | | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | | | 71.0 | 0.0 | 0.0 | 60.4 | 1.1 | 1.1 | 71.5 | 6.9 | 4.6 |
| Incr Delay (d2), s/veh | | | | 47.7 | 0.0 | 0.0 | 13.9 | 0.3 | 0.3 | 64.7 | 1.1 | 0.0 |
| Initial Q Delay(d3), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | | | | 1.2 | 0.0 | 0.0 | 13.6 | 1.1 | 1.1 | 0.6 | 10.8 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | | | | 118.7 | 0.0 | 0.0 | 74.3 | 1.4 | 1.4 | 136.2 | 8.0 | 4.6 |
| LnGrp LOS | | | | F | | | E | A | A | F | A | A |
| Approach Vol, veh/h | | | | 12 | | | 872 | | | 621 | | |
| Approach Delay, s/veh | | | | 118.7 | | | 19.7 | | | 9.0 | | |
| Approach LOS | | | | F | | | B | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | | | | | |
| Phs Duration (G+Y+Rc), s | 5.2 | 132.8 | | 6.0 | 25.3 | 112.7 | | | | | | |
| Change Period (Y+Rc), s | 4.5 | 5.0 | | 4.5 | 4.5 | 5.0 | | | | | | |
| Max Green Setting (Gmax), s | 27.5 | 35.0 | | 27.5 | 35.5 | 35.0 | | | | | | |
| Max Q Clear Time (g_c+I1), s | 2.4 | 5.7 | | 3.0 | 19.9 | 20.5 | | | | | | |
| Green Ext Time (p_c), s | 0.0 | 10.2 | | 0.0 | 0.8 | 7.0 | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 16.1 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|---|------|--------|---|------|--------|---|-------|--------|---|-------|
| Int Delay, s/veh | 1.6 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  | | |  | | |  | | |  | |
| Traffic Vol, veh/h | 0 | 18 | 1 | 12 | 112 | 19 | 0 | 0 | 2 | 19 | 0 | 0 |
| Future Vol, veh/h | 0 | 18 | 1 | 12 | 112 | 19 | 0 | 0 | 2 | 19 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, % | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mvmt Flow | 0 | 22 | 1 | 14 | 135 | 23 | 0 | 0 | 2 | 23 | 0 | 0 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 158 | 0 | 0 | 23 | 0 | 0 | 186 | 209 | 22 | 197 | 198 | 146 |
| Stage 1 | - | - | - | - | - | - | 22 | 22 | - | 175 | 175 | - |
| Stage 2 | - | - | - | - | - | - | 164 | 187 | - | 22 | 23 | - |
| Critical Hdwy | 4.17 | - | - | 4.17 | - | - | 7.17 | 6.57 | 6.27 | 7.17 | 6.57 | 6.27 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.17 | 5.57 | - | 6.17 | 5.57 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.17 | 5.57 | - | 6.17 | 5.57 | - |
| Follow-up Hdwy | 2.263 | - | - | 2.263 | - | - | 3.563 | 4.063 | 3.363 | 3.563 | 4.063 | 3.363 |
| Pot Cap-1 Maneuver | 1392 | - | - | 1560 | - | - | 764 | 679 | 1040 | 751 | 689 | 888 |
| Stage 1 | - | - | - | - | - | - | 983 | 867 | - | 815 | 745 | - |
| Stage 2 | - | - | - | - | - | - | 827 | 736 | - | 984 | 866 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1392 | - | - | 1560 | - | - | 756 | 672 | 1040 | 742 | 682 | 888 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 756 | 672 | - | 742 | 682 | - |
| Stage 1 | - | - | - | - | - | - | 983 | 867 | - | 807 | 737 | - |
| Stage 2 | - | - | - | - | - | - | 818 | 729 | - | 982 | 866 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Ctrl Dly, s/v | 0 | | | 0.61 | | | 8.47 | | | 10.01 | | |
| HCM LOS | | | | | | | A | | | B | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 1040 | 1392 | - | - | 1560 | - | - | 742 | | | | |
| HCM Lane V/C Ratio | 0.002 | - | - | - | 0.009 | - | - | 0.031 | | | | |
| HCM Ctrl Dly (s/v) | 8.5 | 0 | - | - | 7.3 | - | - | 10 | | | | |
| HCM Lane LOS | A | A | - | - | A | - | - | B | | | | |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0.1 | | | | |

Intersection

Int Delay, s/veh 3.2

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|---|------|---|------|------|---|
| Lane Configurations |  | |  | | |  |
| Traffic Vol, veh/h | 6 | 32 | 74 | 6 | 32 | 34 |
| Future Vol, veh/h | 6 | 32 | 74 | 6 | 32 | 34 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, % | 6 | 6 | 6 | 6 | 6 | 6 |
| Mvmt Flow | 8 | 40 | 93 | 8 | 40 | 43 |























| Major/Minor | Minor1 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 219 | 50 | 0 |
| Stage 1 | 96 | - | - |
| Stage 2 | 123 | - | - |
| Critical Hdwy | 6.69 | 6.99 | - |
| Critical Hdwy Stg 1 | 5.89 | - | - |
| Critical Hdwy Stg 2 | 5.49 | - | - |
| Follow-up Hdwy | 3.557 | 3.357 | - |
| Pot Cap-1 Maneuver | 749 | 996 | - |
| Stage 1 | 906 | - | - |
| Stage 2 | 891 | - | - |
| Platoon blocked, % | | - | - |
| Mov Cap-1 Maneuver | 729 | 996 | - |
| Mov Cap-2 Maneuver | 729 | - | - |
| Stage 1 | 906 | - | - |
| Stage 2 | 867 | - | - |

| Approach | WB | NB | SB |
|-------------------|------|----|------|
| HCM Ctrl Dly, s/v | 9.03 | 0 | 3.65 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|-----------------------|-----|----------|------|-------|
| Capacity (veh/h) | - | - | 941 | 873 |
| HCM Lane V/C Ratio | - | - | 0.05 | 0.027 |
| HCM Ctrl Dly (s/v) | - | - | 9 | 7.5 |
| HCM Lane LOS | - | - | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0.1 |

HCM 7th Signalized Intersection Summary
9: S Milpitas Dr & Montague Expy













1000 Gibraltar Dr - LTA
2026 Build AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  |  |  |  | |  |  |  |
| Traffic Volume (veh/h) | 309 | 802 | 8 | 95 | 2610 | 353 | 11 | 71 | 137 | 158 | 59 | 467 |
| Future Volume (veh/h) | 309 | 802 | 8 | 95 | 2610 | 353 | 11 | 71 | 137 | 158 | 59 | 467 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1914 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 325 | 844 | 8 | 100 | 2747 | 372 | 12 | 75 | 144 | 166 | 62 | 492 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 362 | 3097 | 29 | 132 | 2574 | 660 | 432 | 490 | 437 | 358 | 903 | 403 |
| Arrive On Green | 0.11 | 0.48 | 0.48 | 0.04 | 0.41 | 0.41 | 0.13 | 0.28 | 0.28 | 0.11 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3401 | 6517 | 62 | 3401 | 6332 | 1622 | 3401 | 1749 | 1560 | 3401 | 3497 | 1560 |
| Grp Volume(v), veh/h | 325 | 615 | 237 | 100 | 2747 | 372 | 12 | 75 | 144 | 166 | 62 | 492 |
| Grp Sat Flow(s),veh/h/ln | 1700 | 1583 | 1830 | 1700 | 1583 | 1622 | 1700 | 1749 | 1560 | 1700 | 1749 | 1560 |
| Q Serve(g_s), s | 21.7 | 17.9 | 18.0 | 6.7 | 93.5 | 40.6 | 0.7 | 7.4 | 16.8 | 10.6 | 3.1 | 59.4 |
| Cycle Q Clear(g_c), s | 21.7 | 17.9 | 18.0 | 6.7 | 93.5 | 40.6 | 0.7 | 7.4 | 16.8 | 10.6 | 3.1 | 59.4 |
| Prop In Lane | 1.00 | | 0.03 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 362 | 2257 | 869 | 132 | 2574 | 660 | 432 | 490 | 437 | 358 | 903 | 403 |
| V/C Ratio(X) | 0.90 | 0.27 | 0.27 | 0.76 | 1.07 | 0.56 | 0.03 | 0.15 | 0.33 | 0.46 | 0.07 | 1.22 |
| Avail Cap(c_a), veh/h | 500 | 2257 | 869 | 355 | 2574 | 660 | 432 | 490 | 437 | 358 | 903 | 403 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.90 | 0.90 | 0.90 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 101.5 | 36.4 | 36.4 | 109.5 | 68.3 | 52.6 | 88.0 | 62.3 | 65.7 | 96.8 | 64.4 | 85.3 |
| Incr Delay (d2), s/veh | 13.6 | 0.3 | 0.7 | 8.6 | 38.9 | 3.5 | 0.1 | 0.7 | 2.0 | 4.3 | 0.1 | 120.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 15.3 | 11.3 | 12.8 | 5.6 | 57.9 | 24.2 | 0.6 | 6.2 | 11.4 | 8.5 | 2.5 | 53.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 115.1 | 36.7 | 37.1 | 118.1 | 107.1 | 56.0 | 88.1 | 63.0 | 67.7 | 101.1 | 64.6 | 205.3 |
| LnGrp LOS | F | D | D | F | F | E | F | E | E | F | E | F |
| Approach Vol, veh/h | 1177 | | | 3219 | | | 231 | | | 720 | | |
| Approach Delay, s/veh | 58.4 | | | 101.6 | | | 67.2 | | | 169.2 | | |
| Approach LOS | E | | | F | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 30.7 | 99.3 | 35.0 | 65.0 | 14.9 | 115.1 | 30.0 | 70.0 | | | | |
| Change Period (Y+Rc), s | 6.2 | 5.8 | 5.8 | 5.6 | 6.0 | 5.8 | 5.8 | 5.6 | | | | |
| Max Green Setting (Gmax), s | 33.8 | 84.2 | 29.2 | 54.4 | 24.0 | 94.2 | 24.2 | 64.4 | | | | |
| Max Q Clear Time (g_c+I1), s | 23.7 | 95.5 | 2.7 | 61.4 | 8.7 | 20.0 | 12.6 | 18.8 | | | | |
| Green Ext Time (p_c), s | 0.8 | 0.0 | 0.0 | 0.0 | 0.2 | 6.0 | 0.4 | 1.3 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 99.7 | | | | | | | | | | | |
| HCM 7th LOS | F | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary
10: E Capitol Ave/Great Mall Pkwy & Montague Expy

1000 Gibraltar Dr - LTA
2026 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|---|---|---|---|---|---|---|---|---|--|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 158 | 725 | 59 | 64 | 1882 | 1137 | 152 | 701 | 77 | 422 | 217 | 30 |
| Future Volume (veh/h) | 158 | 725 | 59 | 64 | 1882 | 1137 | 152 | 701 | 77 | 422 | 217 | 30 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 165 | 755 | 0 | 67 | 1960 | 1184 | 158 | 730 | 0 | 440 | 226 | 0 |
| Peak Hour Factor | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 195 | 3677 | | 93 | 3483 | 858 | 186 | 826 | | 477 | 1253 | |
| Arrive On Green | 0.06 | 0.58 | 0.00 | 0.03 | 0.55 | 0.55 | 0.05 | 0.16 | 0.00 | 0.14 | 0.25 | 0.00 |
| Sat Flow, veh/h | 3401 | 6332 | 1560 | 3401 | 6332 | 1560 | 3401 | 5025 | 1560 | 3401 | 5025 | 1560 |
| Grp Volume(v), veh/h | 165 | 755 | 0 | 67 | 1960 | 1184 | 158 | 730 | 0 | 440 | 226 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1700 | 1583 | 1560 | 1700 | 1583 | 1560 | 1700 | 1675 | 1560 | 1700 | 1675 | 1560 |
| Q Serve(g_s), s | 13.0 | 15.3 | 0.0 | 5.3 | 54.5 | 148.5 | 12.4 | 38.3 | 0.0 | 34.5 | 9.5 | 0.0 |
| Cycle Q Clear(g_c), s | 13.0 | 15.3 | 0.0 | 5.3 | 54.5 | 148.5 | 12.4 | 38.3 | 0.0 | 34.5 | 9.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 195 | 3677 | | 93 | 3483 | 858 | 186 | 826 | | 477 | 1253 | |
| V/C Ratio(X) | 0.84 | 0.21 | | 0.72 | 0.56 | 1.38 | 0.85 | 0.88 | | 0.92 | 0.18 | |
| Avail Cap(c_a), veh/h | 684 | 3677 | | 307 | 3483 | 858 | 293 | 1011 | | 674 | 1569 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.97 | 0.97 | 0.00 | 0.09 | 0.09 | 0.09 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 126.0 | 27.0 | 0.0 | 130.3 | 39.6 | 60.7 | 126.6 | 110.3 | 0.0 | 114.6 | 79.6 | 0.0 |
| Incr Delay (d2), s/veh | 9.2 | 0.1 | 0.0 | 1.0 | 0.1 | 171.6 | 12.9 | 8.1 | 0.0 | 14.3 | 0.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 10.1 | 10.0 | 0.0 | 3.1 | 23.7 | 133.0 | 9.9 | 24.4 | 0.0 | 23.0 | 7.5 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 135.3 | 27.1 | 0.0 | 131.3 | 39.6 | 232.4 | 139.5 | 118.4 | 0.0 | 128.9 | 79.7 | 0.0 |
| LnGrp LOS | F | C | | F | D | F | F | F | | F | E | |
| Approach Vol, veh/h | 920 | | 3211 | | | | 888 | | | 666 | | |
| Approach Delay, s/veh | 46.5 | | 112.6 | | | | 122.2 | | | 112.2 | | |
| Approach LOS | D | | F | | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 21.2 | 154.3 | 44.4 | 50.1 | 13.0 | 162.6 | 21.4 | 73.0 | | | | |
| Change Period (Y+Rc), s | 5.7 | 5.8 | 6.5 | 5.7 | 5.6 | 5.8 | 6.7 | 5.7 | | | | |
| Max Green Setting (Gmax), s | 54.3 | 84.2 | 53.5 | 54.3 | 24.4 | 114.2 | 23.3 | 84.3 | | | | |
| Max Q Clear Time (g_c+1.0), s | 115.0 | 150.5 | 36.5 | 40.3 | 7.3 | 17.3 | 14.4 | 11.5 | | | | |
| Green Ext Time (p_c), s | 0.5 | 0.0 | 1.4 | 4.0 | 0.1 | 5.6 | 0.3 | 1.5 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 103.4
HCM 7th LOS F

Notes

Unsignalized Delay for [NBR, EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
11: Trade Zone Blvd/McCandless Dr & Montague Expy

1000 Gibraltar Dr - LTA
2026 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|-------|-------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 50 | 722 | 615 | 79 | 1798 | 112 | 888 | 68 | 109 | 49 | 71 | 297 |
| Future Volume (veh/h) | 50 | 722 | 615 | 79 | 1798 | 112 | 888 | 68 | 109 | 49 | 71 | 297 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 52 | 744 | 634 | 81 | 1854 | 0 | 965 | 0 | 0 | 51 | 73 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 67 | 3170 | 984 | 102 | 3259 | | 766 | 0 | | 201 | 101 | |
| Arrive On Green | 0.04 | 0.63 | 0.63 | 0.06 | 0.65 | 0.00 | 0.10 | 0.00 | 0.00 | 0.04 | 0.06 | 0.00 |
| Sat Flow, veh/h | 1753 | 5025 | 1560 | 1753 | 5025 | 1560 | 5259 | 0 | 1560 | 1753 | 1841 | 1560 |
| Grp Volume(v), veh/h | 52 | 744 | 634 | 81 | 1854 | 0 | 965 | 0 | 0 | 51 | 73 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1753 | 1675 | 1560 | 1753 | 1675 | 1560 | 1753 | 0 | 1560 | 1753 | 1841 | 1560 |
| Q Serve(g_s), s | 4.1 | 9.0 | 35.4 | 6.4 | 28.8 | 0.0 | 14.6 | 0.0 | 0.0 | 3.8 | 5.5 | 0.0 |
| Cycle Q Clear(g_c), s | 4.1 | 9.0 | 35.4 | 6.4 | 28.8 | 0.0 | 14.6 | 0.0 | 0.0 | 3.8 | 5.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 67 | 3170 | 984 | 102 | 3259 | | 766 | 0 | | 201 | 101 | |
| V/C Ratio(X) | 0.77 | 0.23 | 0.64 | 0.79 | 0.57 | | 1.26 | 0.00 | | 0.25 | 0.72 | |
| Avail Cap(c_a), veh/h | 377 | 3170 | 984 | 381 | 3259 | | 766 | 0 | | 312 | 390 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.89 | 0.89 | 0.89 | 0.77 | 0.77 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 66.7 | 11.2 | 16.1 | 65.1 | 13.7 | 0.0 | 57.7 | 0.0 | 0.0 | 58.8 | 65.1 | 0.0 |
| Incr Delay (d2), s/veh | 15.1 | 0.2 | 2.9 | 10.0 | 0.6 | 0.0 | 127.6 | 0.0 | 0.0 | 0.7 | 9.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 8.8 | 5.7 | 18.9 | 5.6 | 14.6 | 0.0 | 18.0 | 0.0 | 0.0 | 3.1 | 5.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 81.8 | 11.4 | 19.0 | 75.0 | 14.3 | 0.0 | 185.3 | 0.0 | 0.0 | 59.5 | 74.3 | 0.0 |
| LnGrp LOS | F | B | B | E | B | | F | | | E | E | |
| Approach Vol, veh/h | 1430 | | | 1935 | | | 965 | | | 124 | | |
| Approach Delay, s/veh | 17.3 | | | 16.8 | | | 185.3 | | | 68.2 | | |
| Approach LOS | B | | | B | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 30.3 | 96.6 | 11.1 | 22.0 | 12.8 | 94.1 | 20.0 | 13.1 | | | | |
| Change Period (Y+Rc), s | 4.9 | 5.8 | 5.3 | 5.4 | 4.6 | 5.8 | 5.4 | * 5.4 | | | | |
| Max Green Setting (Gmax), s | 30.3 | 44.2 | 14.7 | 29.6 | 30.4 | 44.2 | 14.6 | * 30 | | | | |
| Max Q Clear Time (g_c+I), s | 30.8 | 30.8 | 5.8 | 0.0 | 8.4 | 37.4 | 16.6 | 7.5 | | | | |
| Green Ext Time (p_c), s | 0.1 | 9.6 | 0.0 | 0.0 | 0.2 | 3.9 | 0.0 | 0.3 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 54.9
HCM 7th LOS D

Notes

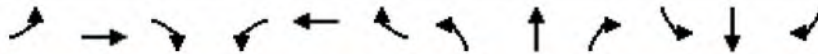
User approved volume balancing among the lanes for turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
12: Oakland Rd/S Main St & Montague Expy

1000 Gibraltar Dr - LTA
2026 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|------|-------|------|------|-------|-------|-------|-------|------|------|------|------|
| Lane Configurations | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑ | ↱ | ↰↱ | ↑↑ | ↱ |
| Traffic Volume (veh/h) | 159 | 1056 | 293 | 187 | 2649 | 100 | 515 | 177 | 190 | 152 | 206 | 469 |
| Future Volume (veh/h) | 159 | 1056 | 293 | 187 | 2649 | 100 | 515 | 177 | 190 | 152 | 206 | 469 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 169 | 1123 | 0 | 199 | 2818 | 0 | 548 | 188 | 0 | 162 | 219 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 211 | 2657 | | 241 | 2711 | | 433 | 779 | | 204 | 547 | |
| Arrive On Green | 0.06 | 0.52 | 0.00 | 0.07 | 0.54 | 0.00 | 0.13 | 0.22 | 0.00 | 0.06 | 0.16 | 0.00 |
| Sat Flow, veh/h | 3428 | 5066 | 1572 | 3428 | 5066 | 1572 | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 |
| Grp Volume(v), veh/h | 169 | 1123 | 0 | 199 | 2818 | 0 | 548 | 188 | 0 | 162 | 219 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1689 | 1572 | 1714 | 1689 | 1572 | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 |
| Q Serve(g_s), s | 9.2 | 25.7 | 0.0 | 10.9 | 101.7 | 0.0 | 24.0 | 8.3 | 0.0 | 8.9 | 10.6 | 0.0 |
| Cycle Q Clear(g_c), s | 9.2 | 25.7 | 0.0 | 10.9 | 101.7 | 0.0 | 24.0 | 8.3 | 0.0 | 8.9 | 10.6 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 211 | 2657 | | 241 | 2711 | | 433 | 779 | | 204 | 547 | |
| V/C Ratio(X) | 0.80 | 0.42 | | 0.83 | 1.04 | | 1.27 | 0.24 | | 0.79 | 0.40 | |
| Avail Cap(c_a), veh/h | 530 | 2657 | | 433 | 2711 | | 433 | 779 | | 520 | 547 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 0.62 | 0.62 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 88.0 | 27.6 | 0.0 | 87.2 | 44.2 | 0.0 | 83.0 | 60.9 | 0.0 | 88.2 | 72.3 | 0.0 |
| Incr Delay (d2), s/veh | 6.9 | 0.5 | 0.0 | 4.5 | 25.3 | 0.0 | 136.8 | 0.7 | 0.0 | 6.8 | 2.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 7.7 | 15.8 | 0.0 | 7.8 | 58.0 | 0.0 | 28.7 | 6.9 | 0.0 | 7.5 | 8.7 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 94.9 | 28.1 | 0.0 | 91.7 | 69.5 | 0.0 | 219.8 | 61.6 | 0.0 | 95.0 | 74.5 | 0.0 |
| LnGrp LOS | F | C | | F | F | | F | E | | F | E | |
| Approach Vol, veh/h | 1292 | | 3017 | | | | 736 | | | 381 | | |
| Approach Delay, s/veh | 36.8 | | 70.9 | | | | 179.4 | | | 83.2 | | |
| Approach LOS | D | | E | | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 7.3 | 107.5 | 17.5 | 47.7 | 19.3 | 105.5 | 30.0 | 35.2 | | | | |
| Change Period (Y+Rc), s | 5.6 | 5.8 | 6.2 | 5.7 | 6.0 | 5.8 | 6.0 | * 5.7 | | | | |
| Max Green Setting (Gmax), s | 29.4 | 84.2 | 28.8 | 24.3 | 24.0 | 89.2 | 24.0 | * 30 | | | | |
| Max Q Clear Time (g_c+ffl), s | 11.2 | 103.7 | 10.9 | 10.3 | 12.9 | 27.7 | 26.0 | 12.6 | | | | |
| Green Ext Time (p_c), s | 0.5 | 0.0 | 0.4 | 0.8 | 0.4 | 9.4 | 0.0 | 1.1 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 78.4
HCM 7th LOS E































Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
1: S Abel S/N Abel St & W Calaveras Blvd

1000 Gibraltar Dr - LTA
2026 Build PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |    |  |  |    |  |  |   |  |  |   |  |
| Traffic Volume (veh/h) | 179 | 1638 | 23 | 253 | 964 | 140 | 49 | 366 | 706 | 186 | 255 | 217 |
| Future Volume (veh/h) | 179 | 1638 | 23 | 253 | 964 | 140 | 49 | 366 | 706 | 186 | 255 | 217 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 183 | 1671 | 0 | 258 | 984 | 0 | 50 | 373 | 720 | 190 | 260 | 221 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 215 | 1921 | | 289 | 2111 | | 65 | 785 | 350 | 169 | 993 | 443 |
| Arrive On Green | 0.12 | 0.37 | 0.00 | 0.16 | 0.41 | 0.00 | 0.04 | 0.22 | 0.22 | 0.09 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1795 | 5147 | 1598 | 1795 | 5147 | 1598 | 1795 | 3582 | 1598 | 1795 | 3582 | 1598 |
| Grp Volume(v), veh/h | 183 | 1671 | 0 | 258 | 984 | 0 | 50 | 373 | 720 | 190 | 260 | 221 |
| Grp Sat Flow(s),veh/h/ln | 1795 | 1716 | 1598 | 1795 | 1716 | 1598 | 1795 | 1791 | 1598 | 1795 | 1791 | 1598 |
| Q Serve(g_s), s | 12.0 | 36.2 | 0.0 | 16.9 | 16.7 | 0.0 | 3.3 | 10.9 | 26.3 | 11.3 | 6.8 | 13.9 |
| Cycle Q Clear(g_c), s | 12.0 | 36.2 | 0.0 | 16.9 | 16.7 | 0.0 | 3.3 | 10.9 | 26.3 | 11.3 | 6.8 | 13.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 215 | 1921 | | 289 | 2111 | | 65 | 785 | 350 | 169 | 993 | 443 |
| V/C Ratio(X) | 0.85 | 0.87 | | 0.89 | 0.47 | | 0.77 | 0.48 | 2.06 | 1.12 | 0.26 | 0.50 |
| Avail Cap(c_a), veh/h | 468 | 1921 | | 386 | 2111 | | 199 | 785 | 350 | 169 | 993 | 443 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 51.7 | 34.9 | 0.0 | 49.3 | 25.8 | 0.0 | 57.3 | 40.8 | 46.8 | 54.3 | 33.8 | 36.4 |
| Incr Delay (d2), s/veh | 9.0 | 5.7 | 0.0 | 18.2 | 0.7 | 0.0 | 17.1 | 0.4 | 485.1 | 106.3 | 0.1 | 0.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.9 | 22.2 | 0.0 | 13.8 | 11.0 | 0.0 | 3.2 | 8.4 | 90.6 | 15.9 | 5.3 | 9.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 60.8 | 40.6 | 0.0 | 67.5 | 26.6 | 0.0 | 74.5 | 41.3 | 532.0 | 160.7 | 33.9 | 37.3 |
| LnGrp LOS | E | D | | E | C | | E | D | F | F | C | D |
| Approach Vol, veh/h | 1854 | | | 1242 | | | 1143 | | | 671 | | |
| Approach Delay, s/veh | 42.6 | | | 35.1 | | | 351.8 | | | 70.9 | | |
| Approach LOS | D | | | D | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 23.5 | 49.5 | 9.0 | 38.0 | 19.1 | 53.9 | 16.0 | 31.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.7 | 4.7 | 4.7 | 4.7 | * 4.7 | 4.7 | 4.7 | | | | |
| Max Green Setting (Gmax), s | 25.8 | 36.3 | 13.3 | 26.3 | 31.3 | * 30 | 11.3 | 26.3 | | | | |
| Max Q Clear Time (g_c+I1), s | 18.9 | 38.2 | 5.3 | 15.9 | 14.0 | 18.7 | 13.3 | 28.3 | | | | |
| Green Ext Time (p_c), s | 0.4 | 0.0 | 0.0 | 1.7 | 0.4 | 4.9 | 0.0 | 0.0 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 116.5
HCM 7th LOS F

Notes













* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
2: S Milpitas Blvd/N Milpitas Blvd & E Calaveras Blvd

1000 Gibraltar Dr - LTA
2026 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 396 | 1431 | 675 | 136 | 951 | 196 | 348 | 266 | 125 | 202 | 319 | 250 |
| Future Volume (veh/h) | 396 | 1431 | 675 | 136 | 951 | 196 | 348 | 266 | 125 | 202 | 319 | 250 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 417 | 1506 | 0 | 143 | 1001 | 0 | 366 | 280 | 132 | 213 | 336 | 0 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 500 | 1809 | | 175 | 1572 | | 727 | 748 | 334 | 666 | 685 | |
| Arrive On Green | 0.14 | 0.35 | 0.00 | 0.10 | 0.31 | 0.00 | 0.21 | 0.21 | 0.21 | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3483 | 5147 | 1598 | 1795 | 5147 | 1598 | 3483 | 3582 | 1598 | 3483 | 3582 | 1598 |
| Grp Volume(v), veh/h | 417 | 1506 | 0 | 143 | 1001 | 0 | 366 | 280 | 132 | 213 | 336 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1716 | 1598 | 1795 | 1716 | 1598 | 1742 | 1791 | 1598 | 1742 | 1791 | 1598 |
| Q Serve(g_s), s | 13.3 | 30.6 | 0.0 | 8.9 | 19.1 | 0.0 | 10.6 | 7.6 | 8.1 | 6.0 | 9.5 | 0.0 |
| Cycle Q Clear(g_c), s | 13.3 | 30.6 | 0.0 | 8.9 | 19.1 | 0.0 | 10.6 | 7.6 | 8.1 | 6.0 | 9.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 500 | 1809 | | 175 | 1572 | | 727 | 748 | 334 | 666 | 685 | |
| V/C Ratio(X) | 0.83 | 0.83 | | 0.82 | 0.64 | | 0.50 | 0.37 | 0.40 | 0.32 | 0.49 | |
| Avail Cap(c_a), veh/h | 788 | 1809 | | 328 | 1572 | | 727 | 748 | 334 | 666 | 685 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 47.5 | 33.9 | 0.0 | 50.4 | 34.1 | 0.0 | 39.9 | 38.7 | 38.9 | 39.7 | 41.1 | 0.0 |
| Incr Delay (d2), s/veh | 4.4 | 4.7 | 0.0 | 8.9 | 2.0 | 0.0 | 2.5 | 1.4 | 3.5 | 1.3 | 2.5 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.9 | 18.9 | 0.0 | 7.8 | 12.7 | 0.0 | 8.2 | 6.2 | 6.2 | 4.8 | 7.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 51.9 | 38.5 | 0.0 | 59.3 | 36.1 | 0.0 | 42.4 | 40.1 | 42.4 | 41.0 | 43.6 | 0.0 |
| LnGrp LOS | D | D | | E | D | | D | D | D | D | D | |
| Approach Vol, veh/h | 1923 | | | 1144 | | | 778 | | | 549 | | |
| Approach Delay, s/veh | 41.4 | | | 39.0 | | | 41.6 | | | 42.6 | | |
| Approach LOS | D | | | D | | | D | | | D | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 5.3 | 44.7 | 28.0 | 26.0 | 20.6 | 39.4 | 26.0 | 28.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | | | | |
| Max Green Setting (Gmax), s | 20.8 | 30.4 | 23.8 | 21.8 | 25.8 | 25.4 | 21.8 | 23.8 | | | | |
| Max Q Clear Time (g_c+M0), s | 10.9 | 32.6 | 12.6 | 11.5 | 15.3 | 21.1 | 8.0 | 10.1 | | | | |
| Green Ext Time (p_c), s | 0.2 | 0.0 | 1.0 | 1.4 | 1.1 | 2.4 | 0.6 | 1.7 | | | | |

Intersection Summary

| | |
|------------------------------|------|
| HCM 7th Control Delay, s/veh | 41.0 |
| HCM 7th LOS | D |

Notes

Unsignalized Delay for [EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 3: S Milpitas Blvd & Yosemite Dr

1000 Gibraltar Dr - LTA
2026 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 73 | 29 | 8 | 193 | 7 | 155 | 0 | 301 | 140 | 367 | 659 | 36 |
| Future Volume (veh/h) | 73 | 29 | 8 | 193 | 7 | 155 | 0 | 301 | 140 | 367 | 659 | 36 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 74 | 30 | 8 | 197 | 7 | 158 | 0 | 307 | 143 | 374 | 672 | 37 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 191 | 149 | 40 | 316 | 9 | 195 | 2 | 1031 | 469 | 380 | 2352 | 129 |
| Arrive On Green | 0.05 | 0.10 | 0.10 | 0.07 | 0.13 | 0.13 | 0.00 | 0.43 | 0.43 | 0.21 | 0.69 | 0.69 |
| Sat Flow, veh/h | 1781 | 1423 | 379 | 1781 | 68 | 1528 | 1781 | 2373 | 1080 | 1781 | 3425 | 188 |
| Grp Volume(v), veh/h | 74 | 0 | 38 | 197 | 0 | 165 | 0 | 228 | 222 | 374 | 348 | 361 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1802 | 1781 | 0 | 1595 | 1781 | 1777 | 1676 | 1781 | 1777 | 1836 |
| Q Serve(g_s), s | 3.8 | 0.0 | 2.0 | 7.5 | 0.0 | 10.4 | 0.0 | 8.6 | 8.9 | 21.5 | 7.9 | 7.9 |
| Cycle Q Clear(g_c), s | 3.8 | 0.0 | 2.0 | 7.5 | 0.0 | 10.4 | 0.0 | 8.6 | 8.9 | 21.5 | 7.9 | 7.9 |
| Prop In Lane | 1.00 | | 0.21 | 1.00 | | 0.96 | 1.00 | | 0.64 | 1.00 | | 0.10 |
| Lane Grp Cap(c), veh/h | 191 | 0 | 188 | 316 | 0 | 204 | 2 | 772 | 728 | 380 | 1220 | 1261 |
| V/C Ratio(X) | 0.39 | 0.00 | 0.20 | 0.62 | 0.00 | 0.81 | 0.00 | 0.30 | 0.30 | 0.98 | 0.29 | 0.29 |
| Avail Cap(c_a), veh/h | 233 | 0 | 534 | 316 | 0 | 472 | 277 | 772 | 728 | 380 | 1220 | 1261 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 38.8 | 0.0 | 42.2 | 39.9 | 0.0 | 43.7 | 0.0 | 18.9 | 19.0 | 40.3 | 6.3 | 6.3 |
| Incr Delay (d2), s/veh | 1.3 | 0.0 | 0.5 | 3.8 | 0.0 | 7.5 | 0.0 | 1.0 | 1.1 | 41.5 | 0.6 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 8.0 | 0.0 | 1.6 | 8.6 | 0.0 | 7.8 | 0.0 | 6.4 | 6.3 | 19.5 | 4.7 | 4.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 40.1 | 0.0 | 42.7 | 43.7 | 0.0 | 51.2 | 0.0 | 19.9 | 20.1 | 81.8 | 6.9 | 6.9 |
| LnGrp LOS | D | | D | D | | D | | B | C | F | A | A |
| Approach Vol, veh/h | 112 | | | 362 | | | 450 | | | 1083 | | |
| Approach Delay, s/veh | 41.0 | | | 47.1 | | | 20.0 | | | 32.7 | | |
| Approach LOS | D | | | D | | | B | | | C | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 36.0 | 49.7 | 12.0 | 15.3 | 0.0 | 75.7 | 9.6 | 17.7 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.5 | 4.5 | 4.0 | 5.0 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 22.0 | 25.0 | 7.5 | 30.5 | 16.0 | 31.0 | 7.5 | 30.5 | | | | |
| Max Q Clear Time (g_c+2.0), s | 23.5 | 10.9 | 9.5 | 4.0 | 0.0 | 9.9 | 5.8 | 12.4 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.1 | 0.0 | 0.1 | 0.0 | 4.1 | 0.0 | 0.8 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 32.9 | | | | | | | | | | | |
| HCM 7th LOS | C | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary 4: S Milpitas Blvd & D1/Ames Ave

1000 Gibraltar Dr - LTA
2026 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Volume (veh/h) | 0 | 0 | 0 | 77 | 0 | 24 | 0 | 407 | 24 | 24 | 850 | 0 |
| Future Volume (veh/h) | 0 | 0 | 0 | 77 | 0 | 24 | 0 | 407 | 24 | 24 | 850 | 0 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 0 | 0 | 0 | 79 | 0 | 25 | 0 | 420 | 25 | 25 | 876 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 0 | 167 | 0 | 167 | 2 | 31 | 2 | 2505 | 149 | 46 | 2861 | 0 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.09 | 0.00 | 0.73 | 0.73 | 0.03 | 0.81 | 0.00 |
| Sat Flow, veh/h | 0 | 1870 | 0 | 1085 | 25 | 351 | 1781 | 3409 | 202 | 1781 | 3647 | 0 |
| Grp Volume(v), veh/h | 0 | 0 | 0 | 104 | 0 | 0 | 0 | 218 | 227 | 25 | 876 | 0 |
| Grp Sat Flow(s), veh/h/ln | 0 | 1870 | 0 | 1461 | 0 | 0 | 1781 | 1777 | 1834 | 1781 | 1777 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 6.1 | 0.0 | 0.0 | 0.0 | 3.3 | 3.4 | 1.2 | 5.7 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 | 0.0 | 3.3 | 3.4 | 1.2 | 5.7 | 0.0 |
| Prop In Lane | 0.00 | | 0.00 | 0.76 | | 0.24 | 1.00 | | 0.11 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 0 | 167 | 0 | 201 | 0 | 0 | 2 | 1306 | 1348 | 46 | 2861 | 0 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.00 | 0.52 | 0.00 | 0.00 | 0.00 | 0.17 | 0.17 | 0.54 | 0.31 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 333 | 0 | 483 | 0 | 0 | 317 | 1306 | 1348 | 317 | 2861 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 0.0 | 40.2 | 0.0 | 0.0 | 0.0 | 3.6 | 3.6 | 43.3 | 2.3 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 9.6 | 0.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.0 | 1.6 | 1.7 | 1.2 | 1.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 0.0 | 42.2 | 0.0 | 0.0 | 0.0 | 3.9 | 3.9 | 52.9 | 2.5 | 0.0 |
| LnGrp LOS | | | | D | | | | A | A | D | A | |
| Approach Vol, veh/h | 0 | | | 104 | | | 445 | | | 901 | | |
| Approach Delay, s/veh | 0.0 | | | 42.2 | | | 3.9 | | | 3.9 | | |
| Approach LOS | | | | D | | | A | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 6.3 | 71.1 | | 12.5 | 0.0 | 77.5 | | 12.5 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | | * 4.5 | 4.0 | 5.0 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.0 | 35.0 | | * 16 | 16.0 | 35.0 | | 25.5 | | | | |
| Max Q Clear Time (g_c+I), s | 13.3 | 5.4 | | 0.0 | 0.0 | 7.7 | | 8.3 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.5 | | 0.0 | 0.0 | 6.4 | | 0.4 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 6.7
HCM 7th LOS A




Notes

User approved pedestrian interval to be less than phase max green.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection

Int Delay, s/veh 1.1

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------|---|------|------|---|---|------|
| Lane Configurations |  | | |  |  | |
| Traffic Vol, veh/h | 12 | 43 | 43 | 417 | 920 | 12 |
| Future Vol, veh/h | 12 | 43 | 43 | 417 | 920 | 12 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 96 | 96 | 96 | 96 | 96 | 96 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 13 | 45 | 45 | 434 | 958 | 13 |






















| Major/Minor | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1271 | 485 | 971 |
| Stage 1 | 965 | - | - |
| Stage 2 | 307 | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 |
| Pot Cap-1 Maneuver | 160 | 528 | 706 |
| Stage 1 | 330 | - | - |
| Stage 2 | 720 | - | - |
| Platoon blocked, % | | | |
| Mov Cap-1 Maneuver | 148 | 528 | 706 |
| Mov Cap-2 Maneuver | 248 | - | - |
| Stage 1 | 307 | - | - |
| Stage 2 | 720 | - | - |





| Approach | EB | NB | SB |
|-------------------|-------|------|----|
| HCM Ctrl Dly, s/v | 14.82 | 1.54 | 0 |
| HCM LOS | B | | |




| Minor Lane/Major Mvmt | NBL | NBT EBLn1 | SBT | SBR |
|-----------------------|-------|-----------|-------|-----|
| Capacity (veh/h) | 337 | - | 424 | - |
| HCM Lane V/C Ratio | 0.063 | - | 0.135 | - |
| HCM Ctrl Dly (s/v) | 10.4 | 0.6 | 14.8 | - |
| HCM Lane LOS | B | A | B | - |
| HCM 95th %tile Q(veh) | 0.2 | - | 0.5 | - |

HCM 7th Signalized Intersection Summary
6: S Milpitas Blvd & Gibraltar Dr/ABC Dwy

1000 Gibraltar Dr - LTA
2026 Build PM























| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | |  | |  | |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 7 | 0 | 146 | 17 | 0 | 9 | 46 | 442 | 17 | 1 | 960 | 1 |
| Future Volume (veh/h) | 7 | 0 | 146 | 17 | 0 | 9 | 46 | 442 | 17 | 1 | 960 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 0 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 7 | 0 | 154 | 18 | 0 | 9 | 48 | 465 | 18 | 1 | 1011 | 1 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 0 | 0 | 0 | 23 | 0 | 11 | 63 | 3080 | 119 | 2 | 1587 | 1345 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.02 | 0.04 | 0.88 | 0.88 | 0.00 | 0.84 | 0.84 |
| Sat Flow, veh/h | | 0 | | 1149 | 0 | 575 | 1795 | 3516 | 136 | 1795 | 1885 | 1598 |
| Grp Volume(v), veh/h | | 0.0 | | 27 | 0 | 0 | 48 | 236 | 247 | 1 | 1011 | 1 |
| Grp Sat Flow(s),veh/h/ln | | | | 1724 | 0 | 0 | 1795 | 1791 | 1861 | 1795 | 1885 | 1598 |
| Q Serve(g_s), s | | | | 2.1 | 0.0 | 0.0 | 3.6 | 2.6 | 2.6 | 0.1 | 24.9 | 0.0 |
| Cycle Q Clear(g_c), s | | | | 2.1 | 0.0 | 0.0 | 3.6 | 2.6 | 2.6 | 0.1 | 24.9 | 0.0 |
| Prop In Lane | | | | 0.67 | | 0.33 | 1.00 | | 0.07 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | | | | 34 | 0 | 0 | 63 | 1569 | 1630 | 2 | 1587 | 1345 |
| V/C Ratio(X) | | | | 0.79 | 0.00 | 0.00 | 0.76 | 0.15 | 0.15 | 0.51 | 0.64 | 0.00 |
| Avail Cap(c_a), veh/h | | | | 349 | 0 | 0 | 363 | 1569 | 1630 | 363 | 1587 | 1345 |
| HCM Platoon Ratio | | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | | | | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | | | 66.4 | 0.0 | 0.0 | 65.0 | 1.2 | 1.2 | 67.9 | 3.7 | 1.7 |
| Incr Delay (d2), s/veh | | | | 41.7 | 0.0 | 0.0 | 22.6 | 0.2 | 0.2 | 167.8 | 2.0 | 0.0 |
| Initial Q Delay(d3), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | | | | 2.4 | 0.0 | 0.0 | 3.7 | 0.8 | 0.8 | 0.2 | 10.9 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | | | | 108.1 | 0.0 | 0.0 | 87.6 | 1.4 | 1.4 | 235.6 | 5.6 | 1.7 |
| LnGrp LOS | | | | F | | | F | A | A | F | A | A |
| Approach Vol, veh/h | | | | | 27 | | | | | | 1013 | |
| Approach Delay, s/veh | | | | | 108.1 | | | | | | 5.9 | |
| Approach LOS | | | | | F | | | | | | A | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | | | | | |
| Phs Duration (G+Y+Rc), s | 4.6 | 124.1 | | 7.2 | 9.3 | 119.5 | | | | | | |
| Change Period (Y+Rc), s | 4.5 | 5.0 | | 4.5 | 4.5 | 5.0 | | | | | | |
| Max Green Setting (Gmax), s | 27.5 | 35.0 | | 27.5 | 27.5 | 35.0 | | | | | | |
| Max Q Clear Time (g_c+I1), s | 2.1 | 4.6 | | 4.1 | 5.6 | 26.9 | | | | | | |
| Green Ext Time (p_c), s | 0.0 | 7.3 | | 0.1 | 0.1 | 6.8 | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 8.7 | | | | | | | | | | | |
| HCM 7th LOS | A | | | | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|---|------|--------|---|------|--------|---|-------|--------|---|-------|
| Int Delay, s/veh | 1.7 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  | | |  | | |  | | |  | |
| Traffic Vol, veh/h | 0 | 106 | 0 | 2 | 23 | 18 | 0 | 0 | 12 | 18 | 0 | 0 |
| Future Vol, veh/h | 0 | 106 | 0 | 2 | 23 | 18 | 0 | 0 | 12 | 18 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 134 | 0 | 3 | 29 | 23 | 0 | 0 | 15 | 23 | 0 | 0 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 52 | 0 | 0 | 134 | 0 | 0 | 168 | 191 | 134 | 180 | 180 | 41 |
| Stage 1 | - | - | - | - | - | - | 134 | 134 | - | 46 | 46 | - |
| Stage 2 | - | - | - | - | - | - | 34 | 57 | - | 134 | 134 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1554 | - | - | 1450 | - | - | 795 | 704 | 915 | 782 | 714 | 1031 |
| Stage 1 | - | - | - | - | - | - | 869 | 785 | - | 968 | 857 | - |
| Stage 2 | - | - | - | - | - | - | 982 | 847 | - | 869 | 785 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1554 | - | - | 1450 | - | - | 794 | 703 | 915 | 768 | 713 | 1031 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 794 | 703 | - | 768 | 713 | - |
| Stage 1 | - | - | - | - | - | - | 869 | 785 | - | 967 | 855 | - |
| Stage 2 | - | - | - | - | - | - | 980 | 846 | - | 855 | 785 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Ctrl Dly, s/v | 0 | | | 0.35 | | | 9 | | | 9.83 | | |
| HCM LOS | | | | | | | A | | | A | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 915 | 1554 | - | - | 1450 | - | - | 768 | | | | |
| HCM Lane V/C Ratio | 0.017 | - | - | - | 0.002 | - | - | 0.03 | | | | |
| HCM Ctrl Dly (s/v) | 9 | 0 | - | - | 7.5 | - | - | 9.8 | | | | |
| HCM Lane LOS | A | A | - | - | A | - | - | A | | | | |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | - | 0.1 | | | | |

| Intersection | | | | | | |
|--------------------------|---|----------|---|-------|-------|---|
| Int Delay, s/veh | 3.3 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations |  | |  | | |  |
| Traffic Vol, veh/h | 7 | 31 | 37 | 6 | 31 | 63 |
| Future Vol, veh/h | 7 | 31 | 37 | 6 | 31 | 63 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 60 | 60 | 60 | 60 | 60 | 60 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 12 | 52 | 62 | 10 | 52 | 105 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 275 | 36 | 0 | 0 | 72 | 0 |
| Stage 1 | 67 | - | - | - | - | - |
| Stage 2 | 208 | - | - | - | - | - |
| Critical Hdwy | 6.63 | 6.93 | - | - | 4.13 | - |
| Critical Hdwy Stg 1 | 5.83 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - |
| Follow-up Hdwy | 3.519 | 3.319 | - | - | 2.219 | - |
| Pot Cap-1 Maneuver | 703 | 1029 | - | - | 1528 | - |
| Stage 1 | 949 | - | - | - | - | - |
| Stage 2 | 826 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 678 | 1029 | - | - | 1528 | - |
| Mov Cap-2 Maneuver | 678 | - | - | - | - | - |
| Stage 1 | 949 | - | - | - | - | - |
| Stage 2 | 796 | - | - | - | - | - |
| Approach | WB | NB | | SB | | |
| HCM Ctrl Dly, s/v | 9.11 | 0 | | 2.45 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | | |
| Capacity (veh/h) | - | - | 939 | 594 | - | |
| HCM Lane V/C Ratio | - | - | 0.067 | 0.034 | - | |
| HCM Ctrl Dly (s/v) | - | - | 9.1 | 7.4 | 0 | |
| HCM Lane LOS | - | - | A | A | A | |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0.1 | - | |

HCM 7th Signalized Intersection Summary
9: S Milpitas Dr & Montague Expy













1000 Gibraltar Dr - LTA
2026 Build PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  |  |  |  | |  |  |  |
| Traffic Volume (veh/h) | 424 | 1897 | 32 | 93 | 1133 | 168 | 19 | 82 | 143 | 398 | 172 | 553 |
| Future Volume (veh/h) | 424 | 1897 | 32 | 93 | 1133 | 168 | 19 | 82 | 143 | 398 | 172 | 553 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1945 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 433 | 1936 | 33 | 95 | 1156 | 171 | 19 | 84 | 146 | 406 | 176 | 564 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 466 | 3132 | 53 | 127 | 2433 | 623 | 439 | 498 | 444 | 364 | 918 | 409 |
| Arrive On Green | 0.13 | 0.48 | 0.48 | 0.04 | 0.38 | 0.38 | 0.13 | 0.28 | 0.28 | 0.11 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3456 | 6564 | 112 | 3456 | 6434 | 1648 | 3456 | 1777 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 433 | 1423 | 546 | 95 | 1156 | 171 | 19 | 84 | 146 | 406 | 176 | 564 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1609 | 1850 | 1728 | 1609 | 1648 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 28.5 | 50.3 | 50.3 | 6.3 | 31.3 | 16.6 | 1.1 | 8.2 | 16.8 | 24.2 | 8.9 | 59.4 |
| Cycle Q Clear(g_c), s | 28.5 | 50.3 | 50.3 | 6.3 | 31.3 | 16.6 | 1.1 | 8.2 | 16.8 | 24.2 | 8.9 | 59.4 |
| Prop In Lane | 1.00 | | 0.06 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 466 | 2302 | 883 | 127 | 2433 | 623 | 439 | 498 | 444 | 364 | 918 | 409 |
| V/C Ratio(X) | 0.93 | 0.62 | 0.62 | 0.75 | 0.48 | 0.27 | 0.04 | 0.17 | 0.33 | 1.12 | 0.19 | 1.38 |
| Avail Cap(c_a), veh/h | 508 | 2302 | 883 | 361 | 2433 | 623 | 439 | 498 | 444 | 364 | 918 | 409 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.73 | 0.73 | 0.73 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 98.4 | 44.6 | 44.6 | 109.7 | 54.2 | 49.6 | 88.1 | 62.6 | 65.7 | 102.9 | 66.6 | 85.3 |
| Incr Delay (d2), s/veh | 18.1 | 0.9 | 2.4 | 8.4 | 0.7 | 1.1 | 0.2 | 0.7 | 2.0 | 82.6 | 0.5 | 184.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 19.2 | 26.6 | 30.5 | 5.4 | 18.7 | 11.5 | 0.9 | 6.9 | 11.5 | 22.5 | 7.4 | 66.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 116.5 | 45.5 | 47.0 | 118.1 | 54.9 | 50.7 | 88.3 | 63.3 | 67.6 | 185.5 | 67.0 | 270.1 |
| LnGrp LOS | F | D | D | F | D | D | F | E | E | F | E | F |
| Approach Vol, veh/h | 2402 | | | 1422 | | | 249 | | | 1146 | | |
| Approach Delay, s/veh | 58.6 | | | 58.6 | | | 67.8 | | | 208.9 | | |
| Approach LOS | E | | | E | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 37.2 | 92.8 | 35.0 | 65.0 | 14.5 | 115.5 | 30.0 | 70.0 | | | | |
| Change Period (Y+Rc), s | 6.2 | 5.8 | 5.8 | 5.6 | 6.0 | 5.8 | 5.8 | 5.6 | | | | |
| Max Green Setting (Gmax), s | 33.8 | 84.2 | 29.2 | 54.4 | 24.0 | 94.2 | 24.2 | 64.4 | | | | |
| Max Q Clear Time (g_c+I1), s | 30.5 | 33.3 | 3.1 | 61.4 | 8.3 | 52.3 | 26.2 | 18.8 | | | | |
| Green Ext Time (p_c), s | 0.5 | 10.7 | 0.0 | 0.0 | 0.2 | 19.3 | 0.0 | 1.4 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 92.1 | | | | | | | | | | | |
| HCM 7th LOS | F | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary
10: E Capitol Ave/Great Mall Pkwy & Montague Expy

1000 Gibraltar Dr - LTA
2026 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 208 | 1710 | 249 | 147 | 1039 | 390 | 140 | 302 | 89 | 614 | 1233 | 58 |
| Future Volume (veh/h) | 208 | 1710 | 249 | 147 | 1039 | 390 | 140 | 302 | 89 | 614 | 1233 | 58 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 212 | 1745 | 0 | 150 | 1060 | 398 | 143 | 308 | 0 | 627 | 1258 | 0 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 244 | 3448 | | 178 | 3322 | 818 | 171 | 691 | | 656 | 1404 | |
| Arrive On Green | 0.07 | 0.54 | 0.00 | 0.05 | 0.52 | 0.52 | 0.05 | 0.14 | 0.00 | 0.19 | 0.27 | 0.00 |
| Sat Flow, veh/h | 3456 | 6434 | 1585 | 3456 | 6434 | 1585 | 3456 | 5106 | 1585 | 3456 | 5106 | 1585 |
| Grp Volume(v), veh/h | 212 | 1745 | 0 | 150 | 1060 | 398 | 143 | 308 | 0 | 627 | 1258 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1609 | 1585 | 1728 | 1609 | 1585 | 1728 | 1702 | 1585 | 1728 | 1702 | 1585 |
| Q Serve(g_s), s | 16.4 | 46.6 | 0.0 | 11.6 | 25.8 | 43.8 | 11.1 | 15.0 | 0.0 | 48.5 | 64.0 | 0.0 |
| Cycle Q Clear(g_c), s | 16.4 | 46.6 | 0.0 | 11.6 | 25.8 | 43.8 | 11.1 | 15.0 | 0.0 | 48.5 | 64.0 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 244 | 3448 | | 178 | 3322 | 818 | 171 | 691 | | 656 | 1404 | |
| V/C Ratio(X) | 0.87 | 0.51 | | 0.84 | 0.32 | 0.49 | 0.84 | 0.45 | | 0.96 | 0.90 | |
| Avail Cap(c_a), veh/h | 695 | 3448 | | 312 | 3322 | 818 | 298 | 1027 | | 685 | 1594 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.49 | 0.49 | 0.00 | 0.79 | 0.79 | 0.79 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 124.2 | 39.9 | 0.0 | 126.9 | 37.8 | 42.2 | 127.2 | 107.4 | 0.0 | 108.2 | 94.2 | 0.0 |
| Incr Delay (d2), s/veh | 4.7 | 0.3 | 0.0 | 8.2 | 0.2 | 1.6 | 10.2 | 0.5 | 0.0 | 23.5 | 6.5 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 10.8 | 23.7 | 0.0 | 8.9 | 15.1 | 24.0 | 9.1 | 11.0 | 0.0 | 32.2 | 38.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 128.9 | 40.2 | 0.0 | 135.2 | 38.0 | 43.8 | 137.5 | 107.9 | 0.0 | 131.8 | 100.7 | 0.0 |
| LnGrp LOS | F | D | | F | D | D | F | F | | F | F | |
| Approach Vol, veh/h | 1957 | | | 1608 | | | 451 | | | 1885 | | |
| Approach Delay, s/veh | 49.8 | | | 48.5 | | | 117.3 | | | 111.0 | | |
| Approach LOS | D | | | D | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 24.8 | 145.2 | 57.8 | 42.2 | 19.5 | 150.5 | 20.1 | 79.9 | | | | |
| Change Period (Y+Rc), s | 5.7 | 5.8 | 6.5 | 5.7 | 5.6 | 5.8 | 6.7 | 5.7 | | | | |
| Max Green Setting (Gmax), s | 54.3 | 84.2 | 53.5 | 54.3 | 24.4 | 114.2 | 23.3 | 84.3 | | | | |
| Max Q Clear Time (g_c+10.4), s | 110.4 | 45.8 | 50.5 | 17.0 | 13.6 | 48.6 | 13.1 | 66.0 | | | | |
| Green Ext Time (p_c), s | 0.7 | 10.5 | 0.8 | 2.1 | 0.3 | 20.1 | 0.3 | 8.2 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 74.1
HCM 7th LOS E

Notes

Unsignalized Delay for [NBR, EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
11: Trade Zone Blvd/McCandless Dr & Montague Expy

1000 Gibraltar Dr - LTA
2026 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|-------|------|-------|------|------|------|------|-------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 104 | 2071 | 1149 | 226 | 976 | 45 | 592 | 57 | 205 | 48 | 134 | 149 |
| Future Volume (veh/h) | 104 | 2071 | 1149 | 226 | 976 | 45 | 592 | 57 | 205 | 48 | 134 | 149 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 106 | 2113 | 1172 | 231 | 996 | 0 | 523 | 172 | 0 | 49 | 137 | 0 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 131 | 2598 | 806 | 258 | 2952 | | 521 | 293 | | 207 | 170 | |
| Arrive On Green | 0.07 | 0.51 | 0.51 | 0.14 | 0.58 | 0.00 | 0.10 | 0.16 | 0.00 | 0.04 | 0.09 | 0.00 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 1781 | 5106 | 1585 | 3563 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 106 | 2113 | 1172 | 231 | 996 | 0 | 523 | 172 | 0 | 49 | 137 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1702 | 1585 | 1781 | 1702 | 1585 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 8.2 | 48.6 | 71.2 | 17.8 | 14.3 | 0.0 | 14.6 | 12.0 | 0.0 | 3.4 | 10.1 | 0.0 |
| Cycle Q Clear(g_c), s | 8.2 | 48.6 | 71.2 | 17.8 | 14.3 | 0.0 | 14.6 | 12.0 | 0.0 | 3.4 | 10.1 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 131 | 2598 | 806 | 258 | 2952 | | 521 | 293 | | 207 | 170 | |
| V/C Ratio(X) | 0.81 | 0.81 | 1.45 | 0.90 | 0.34 | | 1.00 | 0.59 | | 0.24 | 0.81 | |
| Avail Cap(c_a), veh/h | 383 | 2598 | 806 | 387 | 2952 | | 521 | 395 | | 325 | 397 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.24 | 0.24 | 0.24 | 0.94 | 0.94 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 63.9 | 28.8 | 34.4 | 58.8 | 15.5 | 0.0 | 54.2 | 54.9 | 0.0 | 54.5 | 62.5 | 0.0 |
| Incr Delay (d2), s/veh | 3.0 | 0.7 | 205.8 | 15.5 | 0.3 | 0.0 | 40.1 | 1.9 | 0.0 | 0.6 | 8.8 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 5.3 | 22.3 | 103.5 | 13.8 | 9.1 | 0.0 | 8.7 | 9.7 | 0.0 | 2.9 | 9.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 66.9 | 29.5 | 240.1 | 74.3 | 15.8 | 0.0 | 94.3 | 56.7 | 0.0 | 55.1 | 71.2 | 0.0 |
| LnGrp LOS | E | C | F | E | B | | F | E | | E | E | |
| Approach Vol, veh/h | 3391 | | | 1227 | | | 695 | | | 186 | | |
| Approach Delay, s/veh | 103.5 | | | 26.8 | | | 85.0 | | | 67.0 | | |
| Approach LOS | F | | | C | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 5.2 | 86.7 | 10.8 | 27.3 | 24.9 | 77.0 | 20.0 | 18.1 | | | | |
| Change Period (Y+Rc), s | 4.9 | 5.8 | 5.3 | 5.4 | 4.6 | 5.8 | 5.4 | * 5.4 | | | | |
| Max Green Setting (Gmax), s | 30.1 | 44.2 | 14.7 | 29.6 | 30.4 | 44.2 | 14.6 | * 30 | | | | |
| Max Q Clear Time (g_c+10), s | 10.2 | 16.3 | 5.4 | 14.0 | 19.8 | 73.2 | 16.6 | 12.1 | | | | |
| Green Ext Time (p_c), s | 0.2 | 7.1 | 0.0 | 0.7 | 0.4 | 0.0 | 0.0 | 0.6 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 82.8
HCM 7th LOS F

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
12: Oakland Rd/S Main St & Montague Expy

1000 Gibraltar Dr - LTA
2026 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|------|-------|------|------|------|-------|-------|-------|------|------|------|------|
| Lane Configurations | ↔↔ | ↑↑↑↑ | ↗ | ↔↔ | ↑↑↑↑ | ↗ | ↔↔ | ↑↑ | ↗ | ↔↔ | ↑↑ | ↗ |
| Traffic Volume (veh/h) | 231 | 2523 | 191 | 182 | 1343 | 144 | 305 | 269 | 355 | 257 | 359 | 210 |
| Future Volume (veh/h) | 231 | 2523 | 191 | 182 | 1343 | 144 | 305 | 269 | 355 | 257 | 359 | 210 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 233 | 2548 | 0 | 184 | 1357 | 0 | 308 | 272 | 0 | 260 | 363 | 0 |
| Peak Hour Factor | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 278 | 2832 | | 226 | 2766 | | 349 | 593 | | 305 | 552 | |
| Arrive On Green | 0.08 | 0.55 | 0.00 | 0.07 | 0.54 | 0.00 | 0.10 | 0.17 | 0.00 | 0.09 | 0.16 | 0.00 |
| Sat Flow, veh/h | 3456 | 5106 | 1585 | 3456 | 5106 | 1585 | 3456 | 3554 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 233 | 2548 | 0 | 184 | 1357 | 0 | 308 | 272 | 0 | 260 | 363 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1702 | 1585 | 1728 | 1702 | 1585 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 12.6 | 84.3 | 0.0 | 10.0 | 31.5 | 0.0 | 16.7 | 13.1 | 0.0 | 14.1 | 18.3 | 0.0 |
| Cycle Q Clear(g_c), s | 12.6 | 84.3 | 0.0 | 10.0 | 31.5 | 0.0 | 16.7 | 13.1 | 0.0 | 14.1 | 18.3 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 278 | 2832 | | 226 | 2766 | | 349 | 593 | | 305 | 552 | |
| V/C Ratio(X) | 0.84 | 0.90 | | 0.82 | 0.49 | | 0.88 | 0.46 | | 0.85 | 0.66 | |
| Avail Cap(c_a), veh/h | 535 | 2832 | | 437 | 2766 | | 437 | 593 | | 524 | 552 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 0.88 | 0.88 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 86.2 | 37.6 | 0.0 | 87.7 | 27.2 | 0.0 | 84.3 | 71.4 | 0.0 | 85.4 | 75.5 | 0.0 |
| Incr Delay (d2), s/veh | 6.7 | 5.1 | 0.0 | 6.2 | 0.6 | 0.0 | 15.9 | 2.5 | 0.0 | 6.7 | 6.0 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 9.9 | 44.9 | 0.0 | 8.0 | 18.4 | 0.0 | 13.0 | 10.3 | 0.0 | 10.8 | 13.7 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 92.9 | 42.7 | 0.0 | 93.9 | 27.7 | 0.0 | 100.1 | 73.9 | 0.0 | 92.0 | 81.5 | 0.0 |
| LnGrp LOS | F | D | | F | C | | F | E | | F | F | |
| Approach Vol, veh/h | 2781 | | 1541 | | | | 580 | | | | 623 | |
| Approach Delay, s/veh | 46.9 | | 35.6 | | | | 87.8 | | | | 85.9 | |
| Approach LOS | D | | D | | | | F | | | | F | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 30.9 | 108.7 | 23.0 | 37.4 | 18.4 | 111.2 | 25.2 | 35.2 | | | | |
| Change Period (Y+Rc), s | 5.6 | 5.8 | 6.2 | 5.7 | 6.0 | 5.8 | 6.0 | * 5.7 | | | | |
| Max Green Setting (Gmax), s | 29.4 | 84.2 | 28.8 | 24.3 | 24.0 | 89.2 | 24.0 | * 30 | | | | |
| Max Q Clear Time (g_c+14.0), s | 14.6 | 33.5 | 16.1 | 15.1 | 12.0 | 86.3 | 18.7 | 20.3 | | | | |
| Green Ext Time (p_c), s | 0.6 | 12.4 | 0.7 | 1.0 | 0.4 | 2.8 | 0.5 | 1.5 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 52.5
HCM 7th LOS D

Notes































* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

D4 – Horizon No-Build Conditions 2040

HCM 7th Signalized Intersection Summary
1: S Abel S/N Abel St & W Calaveras Blvd

1000 Gibraltar Dr - LTA
2040 No Build AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |    |  |  |    |  |  |   |  |  |   |  |
| Traffic Volume (veh/h) | 219 | 1130 | 35 | 462 | 2281 | 153 | 41 | 391 | 442 | 185 | 516 | 649 |
| Future Volume (veh/h) | 219 | 1130 | 35 | 462 | 2281 | 153 | 41 | 391 | 442 | 185 | 516 | 649 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 238 | 1228 | 0 | 502 | 2479 | 0 | 45 | 425 | 480 | 201 | 561 | 705 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 271 | 1630 | | 383 | 1930 | | 58 | 779 | 347 | 168 | 997 | 445 |
| Arrive On Green | 0.15 | 0.32 | 0.00 | 0.21 | 0.38 | 0.00 | 0.03 | 0.22 | 0.22 | 0.09 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 1781 | 5106 | 1585 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 238 | 1228 | 0 | 502 | 2479 | 0 | 45 | 425 | 480 | 201 | 561 | 705 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1702 | 1585 | 1781 | 1702 | 1585 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 15.7 | 25.9 | 0.0 | 25.8 | 45.4 | 0.0 | 3.0 | 12.7 | 26.3 | 11.3 | 16.2 | 33.7 |
| Cycle Q Clear(g_c), s | 15.7 | 25.9 | 0.0 | 25.8 | 45.4 | 0.0 | 3.0 | 12.7 | 26.3 | 11.3 | 16.2 | 33.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 271 | 1630 | | 383 | 1930 | | 58 | 779 | 347 | 168 | 997 | 445 |
| V/C Ratio(X) | 0.88 | 0.75 | | 1.31 | 1.28 | | 0.77 | 0.55 | 1.38 | 1.20 | 0.56 | 1.58 |
| Avail Cap(c_a), veh/h | 465 | 1630 | | 383 | 1930 | | 197 | 779 | 347 | 168 | 997 | 445 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 49.8 | 36.6 | 0.0 | 47.1 | 37.3 | 0.0 | 57.6 | 41.6 | 46.8 | 54.4 | 36.9 | 43.2 |
| Incr Delay (d2), s/veh | 9.7 | 3.3 | 0.0 | 157.5 | 132.0 | 0.0 | 19.2 | 0.8 | 188.8 | 132.8 | 0.7 | 273.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 12.2 | 16.5 | 0.0 | 41.8 | 61.0 | 0.0 | 3.0 | 9.5 | 43.4 | 17.8 | 11.4 | 72.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 59.5 | 39.9 | 0.0 | 204.6 | 169.3 | 0.0 | 76.8 | 42.3 | 235.7 | 187.2 | 37.6 | 316.8 |
| LnGrp LOS | E | D | | F | F | | E | D | F | F | D | F |
| Approach Vol, veh/h | 1466 | | | 2981 | | | 950 | | | 1467 | | |
| Approach Delay, s/veh | 43.1 | | | 175.2 | | | 141.7 | | | 192.3 | | |
| Approach LOS | D | | | F | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 30.0 | 43.0 | 8.6 | 38.4 | 22.9 | 50.1 | 16.0 | 31.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.7 | 4.7 | 4.7 | 4.7 | * 4.7 | 4.7 | 4.7 | | | | |
| Max Green Setting (Gmax), s | 25.8 | 36.3 | 13.3 | 26.3 | 31.3 | * 30 | 11.3 | 26.3 | | | | |
| Max Q Clear Time (g_c+I1), s | 27.8 | 27.9 | 5.0 | 35.7 | 17.7 | 47.4 | 13.3 | 28.3 | | | | |
| Green Ext Time (p_c), s | 0.0 | 5.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 146.0
HCM 7th LOS F













Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
2: S Milpitas Blvd/N Milpitas Blvd & E Calaveras Blvd

1000 Gibraltar Dr - LTA
2040 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 258 | 885 | 497 | 113 | 2265 | 300 | 486 | 292 | 76 | 193 | 302 | 466 |
| Future Volume (veh/h) | 258 | 885 | 497 | 113 | 2265 | 300 | 486 | 292 | 76 | 193 | 302 | 466 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 274 | 941 | 0 | 120 | 2410 | 0 | 517 | 311 | 81 | 205 | 321 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 352 | 1858 | | 152 | 1774 | | 721 | 742 | 331 | 661 | 680 | |
| Arrive On Green | 0.10 | 0.36 | 0.00 | 0.09 | 0.35 | 0.00 | 0.21 | 0.21 | 0.21 | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3456 | 5106 | 1585 | 1781 | 5106 | 1585 | 3456 | 3554 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 274 | 941 | 0 | 120 | 2410 | 0 | 517 | 311 | 81 | 205 | 321 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1702 | 1585 | 1781 | 1702 | 1585 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 8.8 | 16.4 | 0.0 | 7.5 | 39.6 | 0.0 | 15.9 | 8.7 | 4.9 | 5.8 | 9.2 | 0.0 |
| Cycle Q Clear(g_c), s | 8.8 | 16.4 | 0.0 | 7.5 | 39.6 | 0.0 | 15.9 | 8.7 | 4.9 | 5.8 | 9.2 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 352 | 1858 | | 152 | 1774 | | 721 | 742 | 331 | 661 | 680 | |
| V/C Ratio(X) | 0.78 | 0.51 | | 0.79 | 1.36 | | 0.72 | 0.42 | 0.24 | 0.31 | 0.47 | |
| Avail Cap(c_a), veh/h | 782 | 1858 | | 325 | 1774 | | 721 | 742 | 331 | 661 | 680 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 50.0 | 28.3 | 0.0 | 51.1 | 37.2 | 0.0 | 42.0 | 39.1 | 37.6 | 39.6 | 41.0 | 0.0 |
| Incr Delay (d2), s/veh | 3.8 | 1.0 | 0.0 | 8.8 | 165.1 | 0.0 | 6.0 | 1.7 | 1.8 | 1.2 | 2.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 7.1 | 10.8 | 0.0 | 6.6 | 64.0 | 0.0 | 11.6 | 7.0 | 3.6 | 4.6 | 7.5 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 53.7 | 29.3 | 0.0 | 59.9 | 202.3 | 0.0 | 48.0 | 40.8 | 39.4 | 40.9 | 43.3 | 0.0 |
| LnGrp LOS | D | C | | E | F | | D | D | D | D | D | |
| Approach Vol, veh/h | 1215 | | | 2530 | | | 909 | | | 526 | | |
| Approach Delay, s/veh | 34.8 | | | 195.6 | | | 44.8 | | | 42.4 | | |
| Approach LOS | C | | | F | | | D | | | D | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 3.9 | 46.1 | 28.0 | 26.0 | 15.8 | 44.2 | 26.0 | 28.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | | | | |
| Max Green Setting (Gmax), s | 20.8 | 30.4 | 23.8 | 21.8 | 25.8 | 25.4 | 21.8 | 23.8 | | | | |
| Max Q Clear Time (g_c+19.5), s | 19.5 | 18.4 | 17.9 | 11.2 | 10.8 | 41.6 | 7.8 | 10.7 | | | | |
| Green Ext Time (p_c), s | 0.2 | 4.8 | 1.0 | 1.3 | 0.8 | 0.0 | 0.5 | 1.7 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 115.8
HCM 7th LOS F









Notes

Unsignalized Delay for [EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 3: S Milpitas Blvd & Yosemite Dr

1000 Gibraltar Dr - LTA
2040 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|---|---|------|---|---|-------|---|---|------|---|---|------|
| Lane Configurations |  |  | |  |  | |  |  | |  |  | |
| Traffic Volume (veh/h) | 11 | 6 | 4 | 336 | 45 | 439 | 13 | 391 | 148 | 250 | 345 | 57 |
| Future Volume (veh/h) | 11 | 6 | 4 | 336 | 45 | 439 | 13 | 391 | 148 | 250 | 345 | 57 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 12 | 6 | 4 | 357 | 48 | 467 | 14 | 416 | 157 | 266 | 367 | 61 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 95 | 245 | 163 | 520 | 44 | 425 | 28 | 858 | 320 | 299 | 1500 | 247 |
| Arrive On Green | 0.01 | 0.24 | 0.24 | 0.07 | 0.30 | 0.30 | 0.02 | 0.34 | 0.34 | 0.17 | 0.50 | 0.50 |
| Sat Flow, veh/h | 1753 | 1030 | 687 | 1753 | 147 | 1435 | 1753 | 2492 | 930 | 1753 | 3005 | 495 |
| Grp Volume(v), veh/h | 12 | 0 | 10 | 357 | 0 | 515 | 14 | 291 | 282 | 266 | 212 | 216 |
| Grp Sat Flow(s),veh/h/ln | 1753 | 0 | 1717 | 1753 | 0 | 1582 | 1753 | 1749 | 1673 | 1753 | 1749 | 1752 |
| Q Serve(g_s), s | 0.5 | 0.0 | 0.5 | 7.5 | 0.0 | 30.5 | 0.8 | 13.5 | 13.7 | 15.3 | 7.1 | 7.3 |
| Cycle Q Clear(g_c), s | 0.5 | 0.0 | 0.5 | 7.5 | 0.0 | 30.5 | 0.8 | 13.5 | 13.7 | 15.3 | 7.1 | 7.3 |
| Prop In Lane | 1.00 | | 0.40 | 1.00 | | 0.91 | 1.00 | | 0.56 | 1.00 | | 0.28 |
| Lane Grp Cap(c), veh/h | 95 | 0 | 408 | 520 | 0 | 469 | 28 | 602 | 576 | 299 | 873 | 874 |
| V/C Ratio(X) | 0.13 | 0.00 | 0.02 | 0.69 | 0.00 | 1.10 | 0.50 | 0.48 | 0.49 | 0.89 | 0.24 | 0.25 |
| Avail Cap(c_a), veh/h | 198 | 0 | 508 | 520 | 0 | 469 | 272 | 602 | 576 | 374 | 873 | 874 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.0 | 0.0 | 30.1 | 31.1 | 0.0 | 36.3 | 50.3 | 26.6 | 26.6 | 41.7 | 14.7 | 14.7 |
| Incr Delay (d2), s/veh | 0.6 | 0.0 | 0.0 | 3.8 | 0.0 | 71.2 | 13.0 | 2.8 | 3.0 | 18.9 | 0.7 | 0.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.4 | 0.0 | 0.3 | 8.1 | 0.0 | 29.5 | 0.8 | 9.8 | 9.6 | 12.6 | 5.1 | 5.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 32.5 | 0.0 | 30.2 | 34.9 | 0.0 | 107.5 | 63.3 | 29.3 | 29.6 | 60.7 | 15.4 | 15.4 |
| LnGrp LOS | C | | C | C | | F | E | C | C | E | B | B |
| Approach Vol, veh/h | 22 | | 872 | | | | 587 | | | 694 | | |
| Approach Delay, s/veh | 31.5 | | 77.8 | | | | 30.3 | | | 32.8 | | |
| Approach LOS | C | | E | | | | C | | | C | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 31.6 | 40.5 | 12.0 | 29.0 | 5.7 | 56.4 | 6.0 | 35.0 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.5 | 4.5 | 4.0 | 5.0 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 22.0 | 25.0 | 7.5 | 30.5 | 16.0 | 31.0 | 7.5 | 30.5 | | | | |
| Max Q Clear Time (g_c+117, s) | 15.7 | 15.7 | 9.5 | 2.5 | 2.8 | 9.3 | 2.5 | 32.5 | | | | |
| Green Ext Time (p_c), s | 0.3 | 2.3 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 50.1 | | | | | | | | | |
| HCM 7th LOS | | | D | | | | | | | | | |

HCM 7th Signalized Intersection Summary 4: S Milpitas Blvd & D1/Ames Ave

1000 Gibraltar Dr - LTA
2040 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Volume (veh/h) | 0 | 0 | 0 | 42 | 0 | 21 | 0 | 592 | 89 | 47 | 613 | 0 |
| Future Volume (veh/h) | 0 | 0 | 0 | 42 | 0 | 21 | 0 | 592 | 89 | 47 | 613 | 0 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 |
| Adj Flow Rate, veh/h | 0 | 0 | 0 | 45 | 0 | 22 | 0 | 630 | 95 | 50 | 652 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cap, veh/h | 0 | 105 | 0 | 122 | 1 | 27 | 2 | 2256 | 340 | 68 | 2878 | 0 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.06 | 0.00 | 0.75 | 0.75 | 0.04 | 0.84 | 0.00 |
| Sat Flow, veh/h | 0 | 1811 | 0 | 943 | 15 | 468 | 1725 | 2999 | 451 | 1725 | 3532 | 0 |
| Grp Volume(v), veh/h | 0 | 0 | 0 | 67 | 0 | 0 | 0 | 361 | 364 | 50 | 652 | 0 |
| Grp Sat Flow(s), veh/h/ln | 0 | 1811 | 0 | 1426 | 0 | 0 | 1725 | 1721 | 1730 | 1725 | 1721 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | 5.9 | 5.9 | 2.6 | 3.4 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.0 | 5.9 | 5.9 | 2.6 | 3.4 | 0.0 |
| Prop In Lane | 0.00 | | 0.00 | 0.67 | | 0.33 | 1.00 | | 0.26 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 0 | 105 | 0 | 150 | 0 | 0 | 2 | 1295 | 1302 | 68 | 2878 | 0 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.73 | 0.23 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 322 | 0 | 470 | 0 | 0 | 307 | 1295 | 1302 | 307 | 2878 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 0.0 | 41.9 | 0.0 | 0.0 | 0.0 | 3.5 | 3.5 | 42.7 | 1.5 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 13.9 | 0.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 2.7 | 2.7 | 2.4 | 0.7 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 0.0 | 44.0 | 0.0 | 0.0 | 0.0 | 4.0 | 4.0 | 56.6 | 1.7 | 0.0 |
| LnGrp LOS | | | | D | | | A | | | E | | |
| Approach Vol, veh/h | 0 | | | 67 | | | 725 | | | 702 | | |
| Approach Delay, s/veh | 0.0 | | | 44.0 | | | 4.0 | | | 5.6 | | |
| Approach LOS | | | | D | | | A | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 7.6 | 72.7 | | 9.7 | 0.0 | 80.3 | | 9.7 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | | * 4.5 | 4.0 | 5.0 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.0 | 35.0 | | * 16 | 16.0 | 35.0 | | 25.5 | | | | |
| Max Q Clear Time (g_c+I), s | 14.6 | 7.9 | | 0.0 | 0.0 | 5.4 | | 6.2 | | | | |
| Green Ext Time (p_c), s | 0.1 | 4.5 | | 0.0 | 0.0 | 4.5 | | 0.2 | | | | |

Intersection Summary

| | |
|------------------------------|-----|
| HCM 7th Control Delay, s/veh | 6.6 |
| HCM 7th LOS | A |

Notes

User approved pedestrian interval to be less than phase max green.





* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.




HCM 7th Signalized Intersection Summary
6: S Milpitas Blvd & Gibraltar Dr/ABC Dwy

1000 Gibraltar Dr - LTA
2040 No Build AM

























| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|-------|------|------|-------|-------|-------|------|------|------|-------|------|------|
| Lane Configurations | ↰ | | ↱ | | ↰ | ↱ | ↰ | ↱ | | ↰ | ↱ | ↱ |
| Traffic Volume (veh/h) | 7 | 0 | 21 | 11 | 0 | 3 | 220 | 684 | 17 | 6 | 653 | 6 |
| Future Volume (veh/h) | 7 | 0 | 21 | 11 | 0 | 3 | 220 | 684 | 17 | 6 | 653 | 6 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 0 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 |
| Adj Flow Rate, veh/h | 8 | 0 | 25 | 13 | 0 | 4 | 265 | 824 | 20 | 7 | 787 | 7 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Percent Heavy Veh, % | 6 | 0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cap, veh/h | 0 | 0 | 0 | 18 | 0 | 5 | 292 | 3009 | 73 | 12 | 1293 | 1096 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.17 | 0.88 | 0.88 | 0.01 | 0.71 | 0.71 |
| Sat Flow, veh/h | | 0 | | 1282 | 0 | 394 | 1725 | 3433 | 83 | 1725 | 1811 | 1535 |
| Grp Volume(v), veh/h | | 0.0 | | 17 | 0 | 0 | 265 | 413 | 431 | 7 | 787 | 7 |
| Grp Sat Flow(s), veh/h/ln | | | | 1676 | 0 | 0 | 1725 | 1721 | 1796 | 1725 | 1811 | 1535 |
| Q Serve(g_s), s | | | | 1.4 | 0.0 | 0.0 | 20.5 | 5.3 | 5.3 | 0.6 | 29.9 | 0.2 |
| Cycle Q Clear(g_c), s | | | | 1.4 | 0.0 | 0.0 | 20.5 | 5.3 | 5.3 | 0.6 | 29.9 | 0.2 |
| Prop In Lane | | | | 0.76 | | 0.24 | 1.00 | | 0.05 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | | | | 23 | 0 | 0 | 292 | 1508 | 1574 | 12 | 1293 | 1096 |
| V/C Ratio(X) | | | | 0.73 | 0.00 | 0.00 | 0.91 | 0.27 | 0.27 | 0.59 | 0.61 | 0.01 |
| Avail Cap(c_a), veh/h | | | | 339 | 0 | 0 | 349 | 1508 | 1574 | 349 | 1293 | 1096 |
| HCM Platoon Ratio | | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | | | | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | | | 66.8 | 0.0 | 0.0 | 55.4 | 1.4 | 1.4 | 67.3 | 9.9 | 5.6 |
| Incr Delay (d2), s/veh | | | | 46.1 | 0.0 | 0.0 | 25.1 | 0.4 | 0.4 | 53.2 | 2.1 | 0.0 |
| Initial Q Delay(d3), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | | | | 1.6 | 0.0 | 0.0 | 16.2 | 1.7 | 1.7 | 0.7 | 16.7 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | | | | 112.9 | 0.0 | 0.0 | 80.6 | 1.8 | 1.8 | 120.6 | 12.0 | 5.6 |
| LnGrp LOS | | | | F | | | F | A | A | F | B | A |
| Approach Vol, veh/h | | | | | 17 | | | 1109 | | | 801 | |
| Approach Delay, s/veh | | | | | 112.9 | | | 20.6 | | | 12.9 | |
| Approach LOS | | | | | F | | | C | | | B | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | | | | | |
| Phs Duration (G+Y+Rc), s | 124.2 | | | 6.4 | 27.5 | 102.1 | | | | | | |
| Change Period (Y+Rc), s | 4.5 | 5.0 | | 4.5 | 4.5 | 5.0 | | | | | | |
| Max Green Setting (Gmax), s | 27.5 | 35.0 | | 27.5 | 27.5 | 35.0 | | | | | | |
| Max Q Clear Time (g_c+I), s | 12.6 | 7.3 | | 3.4 | 22.5 | 31.9 | | | | | | |
| Green Ext Time (p_c), s | 0.0 | 13.2 | | 0.1 | 0.5 | 2.3 | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 18.2 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|---|------|--------|---|------|--------|---|-------|--------|---|-------|
| Int Delay, s/veh | 0.8 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  | | |  | | |  | | |  | |
| Traffic Vol, veh/h | 0 | 17 | 1 | 17 | 150 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 17 | 1 | 17 | 150 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, % | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mvmt Flow | 0 | 20 | 1 | 20 | 181 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 181 | 0 | 0 | 22 | 0 | 0 | 243 | 243 | 21 | 242 | 243 | 181 |
| Stage 1 | - | - | - | - | - | - | 21 | 21 | - | 222 | 222 | - |
| Stage 2 | - | - | - | - | - | - | 222 | 222 | - | 20 | 22 | - |
| Critical Hdwy | 4.17 | - | - | 4.17 | - | - | 7.17 | 6.57 | 6.27 | 7.17 | 6.57 | 6.27 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.17 | 5.57 | - | 6.17 | 5.57 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.17 | 5.57 | - | 6.17 | 5.57 | - |
| Follow-up Hdwy | 2.263 | - | - | 2.263 | - | - | 3.563 | 4.063 | 3.363 | 3.563 | 4.063 | 3.363 |
| Pot Cap-1 Maneuver | 1365 | - | - | 1562 | - | - | 701 | 650 | 1042 | 701 | 650 | 849 |
| Stage 1 | - | - | - | - | - | - | 985 | 868 | - | 770 | 711 | - |
| Stage 2 | - | - | - | - | - | - | 770 | 711 | - | 985 | 867 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1365 | - | - | 1562 | - | - | 691 | 641 | 1042 | 689 | 640 | 849 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 691 | 641 | - | 689 | 640 | - |
| Stage 1 | - | - | - | - | - | - | 985 | 868 | - | 758 | 700 | - |
| Stage 2 | - | - | - | - | - | - | 758 | 700 | - | 982 | 867 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Ctrl Dly, s/v | 0 | | | 0.75 | | | 8.47 | | | 0 | | |
| HCM LOS | | | | | | | A | | | A | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 1042 | 1365 | - | - | 1562 | - | - | - | | | | |
| HCM Lane V/C Ratio | 0.003 | - | - | - | 0.013 | - | - | - | | | | |
| HCM Ctrl Dly (s/v) | 8.5 | 0 | - | - | 7.3 | - | - | 0 | | | | |
| HCM Lane LOS | A | A | - | - | A | - | - | A | | | | |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | - | | | | |

| Intersection | | | | | | |
|--------------------------|---|----------|---|------|-------|---|
| Int Delay, s/veh | 0 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations |  | |  | | |  |
| Traffic Vol, veh/h | 0 | 0 | 105 | 0 | 0 | 48 |
| Future Vol, veh/h | 0 | 0 | 105 | 0 | 0 | 48 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, % | 6 | 6 | 6 | 6 | 6 | 6 |
| Mvmt Flow | 0 | 0 | 131 | 0 | 0 | 60 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 191 | 66 | 0 | 0 | 131 | 0 |
| Stage 1 | 131 | - | - | - | - | - |
| Stage 2 | 60 | - | - | - | - | - |
| Critical Hdwy | 6.69 | 6.99 | - | - | 4.19 | - |
| Critical Hdwy Stg 1 | 5.89 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.49 | - | - | - | - | - |
| Follow-up Hdwy | 3.557 | 3.357 | - | - | 2.257 | - |
| Pot Cap-1 Maneuver | 778 | 973 | - | - | 1426 | - |
| Stage 1 | 871 | - | - | - | - | - |
| Stage 2 | 951 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | - | - |
| Mov Cap-1 Maneuver | 778 | 973 | - | - | 1426 | - |
| Mov Cap-2 Maneuver | 778 | - | - | - | - | - |
| Stage 1 | 871 | - | - | - | - | - |
| Stage 2 | 951 | - | - | - | - | - |
| Approach | WB | NB | | SB | | |
| HCM Ctrl Dly, s/v | 0 | 0 | | 0 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | | |
| Capacity (veh/h) | - | - | - | 1426 | - | |
| HCM Lane V/C Ratio | - | - | - | - | - | |
| HCM Ctrl Dly (s/v) | - | - | 0 | 0 | - | |
| HCM Lane LOS | - | - | A | A | - | |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - | |

HCM 7th Signalized Intersection Summary
9: S Milpitas Dr & Montague Expy













1000 Gibraltar Dr - LTA
2040 No Build AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  |  |  |  | |  |  |  |
| Traffic Volume (veh/h) | 391 | 1133 | 11 | 134 | 3688 | 442 | 16 | 100 | 194 | 168 | 83 | 615 |
| Future Volume (veh/h) | 391 | 1133 | 11 | 134 | 3688 | 442 | 16 | 100 | 194 | 168 | 83 | 615 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1914 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 412 | 1193 | 12 | 141 | 3882 | 465 | 17 | 105 | 204 | 177 | 87 | 647 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 446 | 3014 | 30 | 174 | 2418 | 620 | 432 | 490 | 437 | 358 | 903 | 403 |
| Arrive On Green | 0.13 | 0.46 | 0.46 | 0.05 | 0.38 | 0.38 | 0.13 | 0.28 | 0.28 | 0.11 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3401 | 6513 | 65 | 3401 | 6332 | 1622 | 3401 | 1749 | 1560 | 3401 | 3497 | 1560 |
| Grp Volume(v), veh/h | 412 | 870 | 335 | 141 | 3882 | 465 | 17 | 105 | 204 | 177 | 87 | 647 |
| Grp Sat Flow(s),veh/h/ln | 1700 | 1583 | 1829 | 1700 | 1583 | 1622 | 1700 | 1749 | 1560 | 1700 | 1749 | 1560 |
| Q Serve(g_s), s | 27.5 | 27.7 | 27.7 | 9.4 | 87.8 | 57.1 | 1.0 | 10.6 | 24.9 | 11.3 | 4.4 | 59.4 |
| Cycle Q Clear(g_c), s | 27.5 | 27.7 | 27.7 | 9.4 | 87.8 | 57.1 | 1.0 | 10.6 | 24.9 | 11.3 | 4.4 | 59.4 |
| Prop In Lane | 1.00 | | 0.04 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 446 | 2198 | 847 | 174 | 2418 | 620 | 432 | 490 | 437 | 358 | 903 | 403 |
| V/C Ratio(X) | 0.92 | 0.40 | 0.40 | 0.81 | 1.61 | 0.75 | 0.04 | 0.21 | 0.47 | 0.49 | 0.10 | 1.61 |
| Avail Cap(c_a), veh/h | 500 | 2198 | 847 | 355 | 2418 | 620 | 432 | 490 | 437 | 358 | 903 | 403 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.81 | 0.81 | 0.81 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 98.8 | 40.6 | 40.6 | 108.0 | 71.1 | 61.6 | 88.1 | 63.4 | 68.6 | 97.1 | 64.9 | 85.3 |
| Incr Delay (d2), s/veh | 18.6 | 0.4 | 1.1 | 8.8 | 274.3 | 8.1 | 0.2 | 1.0 | 3.6 | 4.8 | 0.2 | 284.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 18.7 | 15.9 | 18.2 | 7.9 | 124.0 | 33.1 | 0.8 | 8.5 | 15.7 | 9.0 | 3.6 | 84.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 117.4 | 41.1 | 41.8 | 116.8 | 345.3 | 69.7 | 88.3 | 64.4 | 72.1 | 101.9 | 65.1 | 369.4 |
| LnGrp LOS | F | D | D | F | F | E | F | E | E | F | E | F |
| Approach Vol, veh/h | 1617 | | | 4488 | | | 326 | | | 911 | | |
| Approach Delay, s/veh | 60.7 | | | 309.6 | | | 70.5 | | | 288.3 | | |
| Approach LOS | E | | | F | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 36.4 | 93.6 | 35.0 | 65.0 | 17.7 | 112.3 | 30.0 | 70.0 | | | | |
| Change Period (Y+Rc), s | 6.2 | 5.8 | 5.8 | 5.6 | 6.0 | 5.8 | 5.8 | 5.6 | | | | |
| Max Green Setting (Gmax), s | 33.8 | 84.2 | 29.2 | 54.4 | 24.0 | 94.2 | 24.2 | 64.4 | | | | |
| Max Q Clear Time (g_c+I1), s | 29.5 | 89.8 | 3.0 | 61.4 | 11.4 | 29.7 | 13.3 | 26.9 | | | | |
| Green Ext Time (p_c), s | 0.6 | 0.0 | 0.0 | 0.0 | 0.3 | 9.6 | 0.4 | 1.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 241.5 | | | | | | | | | | | |
| HCM 7th LOS | F | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary
10: E Capitol Ave/Great Mall Pkwy & Montague Expy

1000 Gibraltar Dr - LTA
2040 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 224 | 998 | 83 | 72 | 2632 | 1607 | 215 | 990 | 90 | 596 | 307 | 42 |
| Future Volume (veh/h) | 224 | 998 | 83 | 72 | 2632 | 1607 | 215 | 990 | 90 | 596 | 307 | 42 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 233 | 1040 | 0 | 75 | 2742 | 1674 | 224 | 1031 | 0 | 621 | 320 | 0 |
| Peak Hour Factor | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 266 | 3109 | | 101 | 2800 | 690 | 250 | 1011 | | 649 | 1596 | |
| Arrive On Green | 0.08 | 0.49 | 0.00 | 0.03 | 0.44 | 0.44 | 0.07 | 0.20 | 0.00 | 0.19 | 0.32 | 0.00 |
| Sat Flow, veh/h | 3401 | 6332 | 1560 | 3401 | 6332 | 1560 | 3401 | 5025 | 1560 | 3401 | 5025 | 1560 |
| Grp Volume(v), veh/h | 233 | 1040 | 0 | 75 | 2742 | 1674 | 224 | 1031 | 0 | 621 | 320 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1700 | 1583 | 1560 | 1700 | 1583 | 1560 | 1700 | 1675 | 1560 | 1700 | 1675 | 1560 |
| Q Serve(g_s), s | 18.3 | 27.0 | 0.0 | 5.9 | 115.0 | 119.4 | 17.6 | 54.3 | 0.0 | 48.8 | 12.5 | 0.0 |
| Cycle Q Clear(g_c), s | 18.3 | 27.0 | 0.0 | 5.9 | 115.0 | 119.4 | 17.6 | 54.3 | 0.0 | 48.8 | 12.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 266 | 3109 | | 101 | 2800 | 690 | 250 | 1011 | | 649 | 1596 | |
| V/C Ratio(X) | 0.88 | 0.33 | | 0.74 | 0.98 | 2.43 | 0.89 | 1.02 | | 0.96 | 0.20 | |
| Avail Cap(c_a), veh/h | 684 | 3109 | | 307 | 2800 | 690 | 293 | 1011 | | 674 | 1596 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.89 | 0.89 | 0.00 | 0.09 | 0.09 | 0.09 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 123.2 | 41.9 | 0.0 | 130.0 | 74.1 | 75.3 | 124.0 | 107.8 | 0.0 | 108.1 | 67.2 | 0.0 |
| Incr Delay (d2), s/veh | 8.1 | 0.3 | 0.0 | 1.0 | 2.2 | 642.4 | 25.1 | 33.5 | 0.0 | 24.1 | 0.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 18.0 | 15.9 | 0.0 | 3.5 | 50.1 | 260.1 | 13.7 | 35.9 | 0.0 | 32.0 | 9.3 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 131.3 | 42.1 | 0.0 | 130.9 | 76.3 | 717.7 | 149.1 | 141.3 | 0.0 | 132.3 | 67.2 | 0.0 |
| LnGrp LOS | F | D | | F | E | F | F | F | | F | E | |
| Approach Vol, veh/h | 1273 | | 4491 | | | | 1255 | | | 941 | | |
| Approach Delay, s/veh | 58.4 | | 316.3 | | | | 142.7 | | | 110.1 | | |
| Approach LOS | E | | F | | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 26.8 | 125.2 | 58.0 | 60.0 | 13.6 | 138.4 | 26.6 | 91.4 | | | | |
| Change Period (Y+Rc), s | 5.7 | 5.8 | 6.5 | 5.7 | 5.6 | 5.8 | 6.7 | 5.7 | | | | |
| Max Green Setting (Gmax), s | 54.3 | 84.2 | 53.5 | 54.3 | 24.4 | 114.2 | 23.3 | 84.3 | | | | |
| Max Q Clear Time (g_c+20), s | 20.3 | 121.4 | 50.8 | 56.3 | 7.9 | 29.0 | 19.6 | 14.5 | | | | |
| Green Ext Time (p_c), s | 0.8 | 0.0 | 0.7 | 0.0 | 0.2 | 8.5 | 0.2 | 2.2 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 223.3
HCM 7th LOS F













Notes

Unsignalized Delay for [NBR, EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
11: Trade Zone Blvd/McCandless Dr & Montague Expy

1000 Gibraltar Dr - LTA
2040 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 70 | 993 | 869 | 112 | 2514 | 158 | 1255 | 96 | 154 | 69 | 100 | 420 |
| Future Volume (veh/h) | 70 | 993 | 869 | 112 | 2514 | 158 | 1255 | 96 | 154 | 69 | 100 | 420 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 72 | 1024 | 896 | 115 | 2592 | 0 | 1365 | 0 | 0 | 71 | 103 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 92 | 2975 | 924 | 140 | 3101 | | 770 | 0 | | 243 | 133 | |
| Arrive On Green | 0.05 | 0.59 | 0.59 | 0.08 | 0.62 | 0.00 | 0.10 | 0.00 | 0.00 | 0.05 | 0.07 | 0.00 |
| Sat Flow, veh/h | 1753 | 5025 | 1560 | 1753 | 5025 | 1560 | 5259 | 0 | 1560 | 1753 | 1841 | 1560 |
| Grp Volume(v), veh/h | 72 | 1024 | 896 | 115 | 2592 | 0 | 1365 | 0 | 0 | 71 | 103 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1753 | 1675 | 1560 | 1753 | 1675 | 1560 | 1753 | 0 | 1560 | 1753 | 1841 | 1560 |
| Q Serve(g_s), s | 5.7 | 14.6 | 77.1 | 9.0 | 57.1 | 0.0 | 14.6 | 0.0 | 0.0 | 5.2 | 7.7 | 0.0 |
| Cycle Q Clear(g_c), s | 5.7 | 14.6 | 77.1 | 9.0 | 57.1 | 0.0 | 14.6 | 0.0 | 0.0 | 5.2 | 7.7 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 92 | 2975 | 924 | 140 | 3101 | | 770 | 0 | | 243 | 133 | |
| V/C Ratio(X) | 0.78 | 0.34 | 0.97 | 0.82 | 0.84 | | 1.77 | 0.00 | | 0.29 | 0.77 | |
| Avail Cap(c_a), veh/h | 377 | 2975 | 924 | 381 | 3101 | | 770 | 0 | | 337 | 390 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.73 | 0.73 | 0.73 | 0.09 | 0.09 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 65.5 | 14.6 | 27.4 | 63.4 | 21.2 | 0.0 | 56.0 | 0.0 | 0.0 | 55.9 | 63.8 | 0.0 |
| Incr Delay (d2), s/veh | 10.1 | 0.2 | 19.1 | 1.1 | 0.3 | 0.0 | 353.4 | 0.0 | 0.0 | 0.7 | 9.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 5.0 | 8.6 | 40.7 | 5.0 | 22.5 | 0.0 | 42.7 | 0.0 | 0.0 | 4.3 | 7.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 75.6 | 14.9 | 46.5 | 64.6 | 21.5 | 0.0 | 409.5 | 0.0 | 0.0 | 56.6 | 72.8 | 0.0 |
| LnGrp LOS | E | B | D | E | C | | F | | | E | E | |
| Approach Vol, veh/h | 1992 | | | 2707 | | | 1365 | | | 174 | | |
| Approach Delay, s/veh | 31.3 | | | 23.3 | | | 409.5 | | | 66.2 | | |
| Approach LOS | C | | | C | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 12.2 | 92.2 | 12.5 | 23.0 | 15.8 | 88.7 | 20.0 | 15.6 | | | | |
| Change Period (Y+Rc), s | 4.9 | 5.8 | 5.3 | 5.4 | 4.6 | 5.8 | 5.4 | * 5.4 | | | | |
| Max Green Setting (Gmax), s | 30.0 | 44.2 | 14.7 | 29.6 | 30.4 | 44.2 | 14.6 | * 30 | | | | |
| Max Q Clear Time (g_c+I1), s | 59.1 | 59.1 | 7.2 | 0.0 | 11.0 | 79.1 | 16.6 | 9.7 | | | | |
| Green Ext Time (p_c), s | 0.1 | 0.0 | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.5 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 111.5
HCM 7th LOS F

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
12: Oakland Rd/S Main St & Montague Expy

1000 Gibraltar Dr - LTA
2040 No Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|------|-------|-------|------|-------|-------|-------|-------|------|------|------|------|
| Lane Configurations | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑ | ↱ | ↰↱ | ↑↑ | ↱ |
| Traffic Volume (veh/h) | 225 | 1484 | 414 | 246 | 3734 | 141 | 728 | 250 | 250 | 214 | 291 | 663 |
| Future Volume (veh/h) | 225 | 1484 | 414 | 246 | 3734 | 141 | 728 | 250 | 250 | 214 | 291 | 663 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 239 | 1579 | 0 | 262 | 3972 | 0 | 774 | 266 | 0 | 228 | 310 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 283 | 2564 | | 304 | 2605 | | 433 | 709 | | 272 | 547 | |
| Arrive On Green | 0.08 | 0.51 | 0.00 | 0.09 | 0.51 | 0.00 | 0.13 | 0.20 | 0.00 | 0.08 | 0.16 | 0.00 |
| Sat Flow, veh/h | 3428 | 5066 | 1572 | 3428 | 5066 | 1572 | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 |
| Grp Volume(v), veh/h | 239 | 1579 | 0 | 262 | 3972 | 0 | 774 | 266 | 0 | 228 | 310 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1689 | 1572 | 1714 | 1689 | 1572 | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 |
| Q Serve(g_s), s | 13.1 | 42.5 | 0.0 | 14.3 | 97.7 | 0.0 | 24.0 | 12.4 | 0.0 | 12.5 | 15.5 | 0.0 |
| Cycle Q Clear(g_c), s | 13.1 | 42.5 | 0.0 | 14.3 | 97.7 | 0.0 | 24.0 | 12.4 | 0.0 | 12.5 | 15.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 283 | 2564 | | 304 | 2605 | | 433 | 709 | | 272 | 547 | |
| V/C Ratio(X) | 0.84 | 0.62 | | 0.86 | 1.52 | | 1.79 | 0.38 | | 0.84 | 0.57 | |
| Avail Cap(c_a), veh/h | 530 | 2564 | | 433 | 2605 | | 433 | 709 | | 520 | 547 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 0.09 | 0.09 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 85.9 | 33.7 | 0.0 | 85.4 | 46.1 | 0.0 | 83.0 | 65.6 | 0.0 | 86.3 | 74.3 | 0.0 |
| Incr Delay (d2), s/veh | 6.8 | 1.1 | 0.0 | 1.2 | 236.4 | 0.0 | 363.5 | 1.5 | 0.0 | 6.8 | 4.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 10.1 | 24.3 | 0.0 | 7.6 | 135.3 | 0.0 | 50.7 | 9.7 | 0.0 | 9.8 | 11.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 92.7 | 34.8 | 0.0 | 86.7 | 282.5 | 0.0 | 446.5 | 67.1 | 0.0 | 93.0 | 78.5 | 0.0 |
| LnGrp LOS | F | C | | F | F | | F | E | | F | E | |
| Approach Vol, veh/h | 1818 | | 4234 | | | | 1040 | | 538 | | | |
| Approach Delay, s/veh | 42.4 | | 270.4 | | | | 349.4 | | 84.7 | | | |
| Approach LOS | D | | F | | | | F | | F | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 31.3 | 103.5 | 21.3 | 43.9 | 22.8 | 102.0 | 30.0 | 35.2 | | | | |
| Change Period (Y+Rc), s | 5.6 | 5.8 | 6.2 | 5.7 | 6.0 | 5.8 | 6.0 | * 5.7 | | | | |
| Max Green Setting (Gmax), s | 29.4 | 84.2 | 28.8 | 24.3 | 24.0 | 89.2 | 24.0 | * 30 | | | | |
| Max Q Clear Time (g_c+11.5), s | 99.7 | 14.5 | 14.4 | 16.3 | 44.5 | 26.0 | 17.5 | | | | | |
| Green Ext Time (p_c), s | 0.6 | 0.0 | 0.6 | 1.1 | 0.5 | 15.4 | 0.0 | 1.4 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 213.8
HCM 7th LOS F































Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
1: S Abel S/N Abel St & W Calaveras Blvd

1000 Gibraltar Dr - LTA
2040 No Build PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |    |  |  |    |  |  |   |  |  |   |  |
| Traffic Volume (veh/h) | 253 | 2271 | 32 | 357 | 1318 | 198 | 69 | 517 | 998 | 263 | 360 | 307 |
| Future Volume (veh/h) | 253 | 2271 | 32 | 357 | 1318 | 198 | 69 | 517 | 998 | 263 | 360 | 307 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 258 | 2317 | 0 | 364 | 1345 | 0 | 70 | 528 | 1018 | 268 | 367 | 313 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 291 | 1643 | | 386 | 1893 | | 90 | 785 | 350 | 169 | 942 | 420 |
| Arrive On Green | 0.16 | 0.32 | 0.00 | 0.21 | 0.37 | 0.00 | 0.05 | 0.22 | 0.22 | 0.09 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1795 | 5147 | 1598 | 1795 | 5147 | 1598 | 1795 | 3582 | 1598 | 1795 | 3582 | 1598 |
| Grp Volume(v), veh/h | 258 | 2317 | 0 | 364 | 1345 | 0 | 70 | 528 | 1018 | 268 | 367 | 313 |
| Grp Sat Flow(s),veh/h/ln | 1795 | 1716 | 1598 | 1795 | 1716 | 1598 | 1795 | 1791 | 1598 | 1795 | 1791 | 1598 |
| Q Serve(g_s), s | 16.9 | 38.3 | 0.0 | 24.0 | 26.8 | 0.0 | 4.6 | 16.2 | 26.3 | 11.3 | 10.1 | 21.5 |
| Cycle Q Clear(g_c), s | 16.9 | 38.3 | 0.0 | 24.0 | 26.8 | 0.0 | 4.6 | 16.2 | 26.3 | 11.3 | 10.1 | 21.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 291 | 1643 | | 386 | 1893 | | 90 | 785 | 350 | 169 | 942 | 420 |
| V/C Ratio(X) | 0.89 | 1.41 | | 0.94 | 0.71 | | 0.78 | 0.67 | 2.91 | 1.59 | 0.39 | 0.74 |
| Avail Cap(c_a), veh/h | 468 | 1643 | | 386 | 1893 | | 199 | 785 | 350 | 169 | 942 | 420 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 49.2 | 40.8 | 0.0 | 46.4 | 32.5 | 0.0 | 56.3 | 42.9 | 46.8 | 54.3 | 36.3 | 40.5 |
| Incr Delay (d2), s/veh | 11.6 | 188.4 | 0.0 | 31.5 | 2.3 | 0.0 | 13.1 | 2.3 | 866.1 | 289.6 | 0.3 | 7.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 13.2 | 66.9 | 0.0 | 19.9 | 16.7 | 0.0 | 4.3 | 11.8 | 148.3 | 29.7 | 7.9 | 14.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 60.8 | 229.3 | 0.0 | 77.9 | 34.7 | 0.0 | 69.4 | 45.2 | 912.9 | 343.9 | 36.6 | 47.6 |
| LnGrp LOS | E | F | | E | C | | E | D | F | F | D | D |
| Approach Vol, veh/h | 2575 | | | 1709 | | | 1616 | | | 948 | | |
| Approach Delay, s/veh | 212.4 | | | 43.9 | | | 592.9 | | | 127.1 | | |
| Approach LOS | F | | | D | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 30.0 | 43.0 | 10.7 | 36.3 | 24.2 | 48.8 | 16.0 | 31.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.7 | 4.7 | 4.7 | 4.7 | * 4.7 | 4.7 | 4.7 | | | | |
| Max Green Setting (Gmax), s | 25.8 | 36.3 | 13.3 | 26.3 | 31.3 | * 30 | 11.3 | 26.3 | | | | |
| Max Q Clear Time (g_c+I1), s | 26.0 | 40.3 | 6.6 | 23.5 | 18.9 | 28.8 | 13.3 | 28.3 | | | | |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.1 | 1.0 | 0.6 | 1.2 | 0.0 | 0.0 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 248.3
HCM 7th LOS F

Notes













* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 2: S Milpitas Blvd/N Milpitas Blvd & E Calaveras Blvd

1000 Gibraltar Dr - LTA
2040 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 560 | 2022 | 910 | 175 | 1344 | 277 | 447 | 376 | 160 | 286 | 451 | 353 |
| Future Volume (veh/h) | 560 | 2022 | 910 | 175 | 1344 | 277 | 447 | 376 | 160 | 286 | 451 | 353 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 589 | 2128 | 0 | 184 | 1415 | 0 | 471 | 396 | 168 | 301 | 475 | 0 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 667 | 1692 | | 216 | 1326 | | 727 | 748 | 334 | 666 | 685 | |
| Arrive On Green | 0.19 | 0.33 | 0.00 | 0.12 | 0.26 | 0.00 | 0.21 | 0.21 | 0.21 | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3483 | 5147 | 1598 | 1795 | 5147 | 1598 | 3483 | 3582 | 1598 | 3483 | 3582 | 1598 |
| Grp Volume(v), veh/h | 589 | 2128 | 0 | 184 | 1415 | 0 | 471 | 396 | 168 | 301 | 475 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1716 | 1598 | 1795 | 1716 | 1598 | 1742 | 1791 | 1598 | 1742 | 1791 | 1598 |
| Q Serve(g_s), s | 18.8 | 37.5 | 0.0 | 11.5 | 29.4 | 0.0 | 14.1 | 11.2 | 10.6 | 8.7 | 14.1 | 0.0 |
| Cycle Q Clear(g_c), s | 18.8 | 37.5 | 0.0 | 11.5 | 29.4 | 0.0 | 14.1 | 11.2 | 10.6 | 8.7 | 14.1 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 667 | 1692 | | 216 | 1326 | | 727 | 748 | 334 | 666 | 685 | |
| V/C Ratio(X) | 0.88 | 1.26 | | 0.85 | 1.07 | | 0.65 | 0.53 | 0.50 | 0.45 | 0.69 | |
| Avail Cap(c_a), veh/h | 788 | 1692 | | 328 | 1326 | | 727 | 748 | 334 | 666 | 685 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 44.8 | 38.3 | 0.0 | 49.1 | 42.3 | 0.0 | 41.3 | 40.1 | 39.9 | 40.8 | 43.0 | 0.0 |
| Incr Delay (d2), s/veh | 10.3 | 120.9 | 0.0 | 12.6 | 44.8 | 0.0 | 4.4 | 2.7 | 5.3 | 2.2 | 5.7 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 18.7 | 50.0 | 0.0 | 9.7 | 25.3 | 0.0 | 10.5 | 8.8 | 8.1 | 7.0 | 10.9 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 55.1 | 159.2 | 0.0 | 61.7 | 87.1 | 0.0 | 45.7 | 42.8 | 45.2 | 43.0 | 48.7 | 0.0 |
| LnGrp LOS | E | F | | E | F | | D | D | D | D | D | |
| Approach Vol, veh/h | 2717 | | | 1599 | | | 1035 | | | 776 | | |
| Approach Delay, s/veh | 136.6 | | | 84.2 | | | 44.5 | | | 46.5 | | |
| Approach LOS | F | | | F | | | D | | | D | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 7.9 | 42.1 | 28.0 | 26.0 | 26.0 | 34.0 | 26.0 | 28.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | | | | |
| Max Green Setting (Gmax), s | 20.8 | 30.4 | 23.8 | 21.8 | 25.8 | 25.4 | 21.8 | 23.8 | | | | |
| Max Q Clear Time (g_c+T3), s | 13.5 | 39.5 | 16.1 | 16.1 | 20.8 | 31.4 | 10.7 | 13.2 | | | | |
| Green Ext Time (p_c), s | 0.3 | 0.0 | 1.1 | 1.4 | 1.1 | 0.0 | 0.8 | 2.2 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 96.0
HCM 7th LOS F

Notes

Unsignalized Delay for [EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 3: S Milpitas Blvd & Yosemite Dr

1000 Gibraltar Dr - LTA
2040 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|-------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 59 | 41 | 11 | 272 | 10 | 219 | 0 | 408 | 198 | 519 | 914 | 7 |
| Future Volume (veh/h) | 59 | 41 | 11 | 272 | 10 | 219 | 0 | 408 | 198 | 519 | 914 | 7 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 60 | 42 | 11 | 278 | 10 | 223 | 0 | 416 | 202 | 530 | 933 | 7 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 175 | 198 | 52 | 352 | 12 | 262 | 2 | 932 | 447 | 380 | 2360 | 18 |
| Arrive On Green | 0.04 | 0.14 | 0.14 | 0.07 | 0.17 | 0.17 | 0.00 | 0.40 | 0.40 | 0.21 | 0.65 | 0.65 |
| Sat Flow, veh/h | 1781 | 1429 | 374 | 1781 | 68 | 1527 | 1781 | 2328 | 1118 | 1781 | 3615 | 27 |
| Grp Volume(v), veh/h | 60 | 0 | 53 | 278 | 0 | 233 | 0 | 316 | 302 | 530 | 459 | 481 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1803 | 1781 | 0 | 1595 | 1781 | 1777 | 1669 | 1781 | 1777 | 1865 |
| Q Serve(g_s), s | 2.9 | 0.0 | 2.7 | 7.5 | 0.0 | 14.6 | 0.0 | 13.4 | 13.6 | 22.0 | 12.4 | 12.4 |
| Cycle Q Clear(g_c), s | 2.9 | 0.0 | 2.7 | 7.5 | 0.0 | 14.6 | 0.0 | 13.4 | 13.6 | 22.0 | 12.4 | 12.4 |
| Prop In Lane | 1.00 | | 0.21 | 1.00 | | 0.96 | 1.00 | | 0.67 | 1.00 | | 0.01 |
| Lane Grp Cap(c), veh/h | 175 | 0 | 250 | 352 | 0 | 274 | 2 | 711 | 668 | 380 | 1160 | 1218 |
| V/C Ratio(X) | 0.34 | 0.00 | 0.21 | 0.79 | 0.00 | 0.85 | 0.00 | 0.44 | 0.45 | 1.39 | 0.40 | 0.40 |
| Avail Cap(c_a), veh/h | 234 | 0 | 534 | 352 | 0 | 472 | 277 | 711 | 668 | 380 | 1160 | 1218 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 36.6 | 0.0 | 39.4 | 39.5 | 0.0 | 41.4 | 0.0 | 22.5 | 22.6 | 40.5 | 8.4 | 8.4 |
| Incr Delay (d2), s/veh | 1.2 | 0.0 | 0.4 | 11.6 | 0.0 | 7.3 | 0.0 | 2.0 | 2.2 | 192.3 | 1.0 | 1.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 2.4 | 0.0 | 2.1 | 7.5 | 0.0 | 10.2 | 0.0 | 9.6 | 9.3 | 45.0 | 7.8 | 8.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 37.8 | 0.0 | 39.8 | 51.1 | 0.0 | 48.7 | 0.0 | 24.6 | 24.8 | 232.8 | 9.4 | 9.3 |
| LnGrp LOS | D | | D | D | | D | | C | C | F | A | A |
| Approach Vol, veh/h | 113 | | 511 | | | 618 | | | 1470 | | | |
| Approach Delay, s/veh | 38.7 | | 50.0 | | | 24.7 | | | 89.9 | | | |
| Approach LOS | D | | D | | | C | | | F | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 36.0 | 46.2 | 12.0 | 18.8 | 0.0 | 72.2 | 8.6 | 22.2 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.5 | 4.5 | 4.0 | 5.0 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 22.0 | 25.0 | 7.5 | 30.5 | 16.0 | 31.0 | 7.5 | 30.5 | | | | |
| Max Q Clear Time (g_c+Tb), s | 24.0 | 15.6 | 9.5 | 4.7 | 0.0 | 14.4 | 4.9 | 16.6 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.5 | 0.0 | 0.2 | 0.0 | 5.2 | 0.0 | 1.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 65.4 | | | | | | | | | | | |
| HCM 7th LOS | E | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary 4: S Milpitas Blvd & D1/Ames Ave

1000 Gibraltar Dr - LTA
2040 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Volume (veh/h) | 0 | 0 | 0 | 109 | 0 | 34 | 0 | 558 | 34 | 34 | 1184 | 0 |
| Future Volume (veh/h) | 0 | 0 | 0 | 109 | 0 | 34 | 0 | 558 | 34 | 34 | 1184 | 0 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 0 | 0 | 0 | 112 | 0 | 35 | 0 | 575 | 35 | 35 | 1221 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 0 | 231 | 0 | 206 | 2 | 43 | 2 | 2362 | 144 | 58 | 2739 | 0 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.12 | 0.00 | 0.69 | 0.69 | 0.03 | 0.77 | 0.00 |
| Sat Flow, veh/h | 0 | 1870 | 0 | 1093 | 19 | 347 | 1781 | 3403 | 207 | 1781 | 3647 | 0 |
| Grp Volume(v), veh/h | 0 | 0 | 0 | 147 | 0 | 0 | 0 | 300 | 310 | 35 | 1221 | 0 |
| Grp Sat Flow(s), veh/h/ln | 0 | 1870 | 0 | 1459 | 0 | 0 | 1781 | 1777 | 1833 | 1781 | 1777 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 8.7 | 0.0 | 0.0 | 0.0 | 5.6 | 5.6 | 1.7 | 10.8 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 0.0 | 8.8 | 0.0 | 0.0 | 0.0 | 5.6 | 5.6 | 1.7 | 10.8 | 0.0 |
| Prop In Lane | 0.00 | | 0.00 | 0.76 | | 0.24 | 1.00 | | 0.11 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 0 | 231 | 0 | 251 | 0 | 0 | 2 | 1233 | 1272 | 58 | 2739 | 0 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.00 | 0.59 | 0.00 | 0.00 | 0.00 | 0.24 | 0.24 | 0.61 | 0.45 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 333 | 0 | 483 | 0 | 0 | 317 | 1233 | 1272 | 317 | 2739 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 0.0 | 38.4 | 0.0 | 0.0 | 0.0 | 5.1 | 5.1 | 43.0 | 3.6 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 9.8 | 0.5 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.0 | 0.0 | 0.0 | 5.8 | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 1.6 | 4.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 0.0 | 40.6 | 0.0 | 0.0 | 0.0 | 5.5 | 5.5 | 52.8 | 4.1 | 0.0 |
| LnGrp LOS | | | | D | | | | A | A | D | A | |
| Approach Vol, veh/h | 0 | | | 147 | | | 610 | | | 1256 | | |
| Approach Delay, s/veh | 0.0 | | | 40.6 | | | 5.5 | | | 5.5 | | |
| Approach LOS | | | | D | | | A | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 67.5 | | | 15.6 | 0.0 | 74.4 | | 15.6 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | | * 4.5 | 4.0 | 5.0 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.0 | 35.0 | | * 16 | 16.0 | 35.0 | | 25.5 | | | | |
| Max Q Clear Time (g_c+13), s | 13.8 | 7.6 | | 0.0 | 0.0 | 12.8 | | 10.8 | | | | |
| Green Ext Time (p_c), s | 0.0 | 3.6 | | 0.0 | 0.0 | 9.0 | | 0.6 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 8.1
HCM 7th LOS A

Notes

User approved pedestrian interval to be less than phase max green.





* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.




HCM 7th Signalized Intersection Summary
6: S Milpitas Blvd & Gibraltar Dr/ABC Dwy

1000 Gibraltar Dr - LTA
2040 No Build PM

























| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|-------|------|------|------|-------|------|------|------|-------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 10 | 0 | 171 | 24 | 0 | 13 | 31 | 564 | 24 | 1 | 1296 | 1 |
| Future Volume (veh/h) | 10 | 0 | 171 | 24 | 0 | 13 | 31 | 564 | 24 | 1 | 1296 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 0 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 11 | 0 | 180 | 25 | 0 | 14 | 33 | 594 | 25 | 1 | 1364 | 1 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 0 | 0 | 0 | 33 | 0 | 18 | 43 | 3034 | 128 | 2 | 1590 | 1347 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.03 | 0.02 | 0.87 | 0.87 | 0.00 | 0.84 | 0.84 |
| Sat Flow, veh/h | | 0 | | 1102 | 0 | 617 | 1795 | 3502 | 147 | 1795 | 1885 | 1598 |
| Grp Volume(v), veh/h | | 0.0 | | 39 | 0 | 0 | 33 | 303 | 316 | 1 | 1364 | 1 |
| Grp Sat Flow(s), veh/h/ln | | | | 1719 | 0 | 0 | 1795 | 1791 | 1859 | 1795 | 1885 | 1598 |
| Q Serve(g_s), s | | | | 3.1 | 0.0 | 0.0 | 2.5 | 3.7 | 3.7 | 0.1 | 55.7 | 0.0 |
| Cycle Q Clear(g_c), s | | | | 3.1 | 0.0 | 0.0 | 2.5 | 3.7 | 3.7 | 0.1 | 55.7 | 0.0 |
| Prop In Lane | | | | 0.64 | | 0.36 | 1.00 | | 0.08 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | | | | 51 | 0 | 0 | 43 | 1551 | 1610 | 2 | 1590 | 1347 |
| V/C Ratio(X) | | | | 0.76 | 0.00 | 0.00 | 0.77 | 0.20 | 0.20 | 0.51 | 0.86 | 0.00 |
| Avail Cap(c_a), veh/h | | | | 348 | 0 | 0 | 363 | 1551 | 1610 | 363 | 1590 | 1347 |
| HCM Platoon Ratio | | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | | | | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | | | 65.5 | 0.0 | 0.0 | 66.0 | 1.5 | 1.5 | 67.9 | 6.0 | 1.7 |
| Incr Delay (d2), s/veh | | | | 27.7 | 0.0 | 0.0 | 32.6 | 0.3 | 0.3 | 167.8 | 6.2 | 0.0 |
| Initial Q Delay(d3), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | | | | 3.1 | 0.0 | 0.0 | 2.7 | 1.3 | 1.4 | 0.2 | 21.9 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | | | | 93.2 | 0.0 | 0.0 | 98.6 | 1.7 | 1.7 | 235.6 | 12.3 | 1.7 |
| LnGrp LOS | | | | F | | | F | A | A | F | B | A |
| Approach Vol, veh/h | | | | | 39 | | | 652 | | | 1366 | |
| Approach Delay, s/veh | | | | | 93.2 | | | 6.6 | | | 12.4 | |
| Approach LOS | | | | | F | | | A | | | B | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | | | | | |
| Phs Duration (G+Y+Rc), s | 4.6 | 122.8 | | 8.5 | 7.8 | 119.7 | | | | | | |
| Change Period (Y+Rc), s | 4.5 | 5.0 | | 4.5 | 4.5 | 5.0 | | | | | | |
| Max Green Setting (Gmax), s | 27.5 | 35.0 | | 27.5 | 27.5 | 35.0 | | | | | | |
| Max Q Clear Time (g_c+I), s | 12.5 | 5.7 | | 5.1 | 4.5 | 57.7 | | | | | | |
| Green Ext Time (p_c), s | 0.0 | 9.5 | | 0.2 | 0.1 | 0.0 | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 12.1 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|---|------|--------|---|------|--------|---|-------|--------|---|-------|
| Int Delay, s/veh | 1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  | | |  | | |  | | |  | |
| Traffic Vol, veh/h | 0 | 140 | 0 | 3 | 24 | 0 | 0 | 0 | 17 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 140 | 0 | 3 | 24 | 0 | 0 | 0 | 17 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 177 | 0 | 4 | 30 | 0 | 0 | 0 | 22 | 0 | 0 | 0 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 30 | 0 | 0 | 177 | 0 | 0 | 215 | 215 | 177 | 215 | 215 | 30 |
| Stage 1 | - | - | - | - | - | - | 177 | 177 | - | 38 | 38 | - |
| Stage 2 | - | - | - | - | - | - | 38 | 38 | - | 177 | 177 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1582 | - | - | 1399 | - | - | 741 | 683 | 866 | 741 | 683 | 1044 |
| Stage 1 | - | - | - | - | - | - | 825 | 753 | - | 977 | 863 | - |
| Stage 2 | - | - | - | - | - | - | 977 | 863 | - | 825 | 753 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1582 | - | - | 1399 | - | - | 739 | 681 | 866 | 721 | 681 | 1044 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 739 | 681 | - | 721 | 681 | - |
| Stage 1 | - | - | - | - | - | - | 825 | 753 | - | 975 | 861 | - |
| Stage 2 | - | - | - | - | - | - | 975 | 861 | - | 804 | 753 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Ctrl Dly, s/v | 0 | | | 0.84 | | | 9.26 | | | 0 | | |
| HCM LOS | | | | | | | A | | | A | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 866 | 1582 | - | - | 1399 | - | - | - | | | | |
| HCM Lane V/C Ratio | 0.025 | - | - | - | 0.003 | - | - | - | | | | |
| HCM Ctrl Dly (s/v) | 9.3 | 0 | - | - | 7.6 | - | - | 0 | | | | |
| HCM Lane LOS | A | A | - | - | A | - | - | A | | | | |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | - | - | | | | |

| Intersection | | | | | | |
|--------------------------|---|----------|---|------|-------|---|
| Int Delay, s/veh | 0 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations |  | |  | | |  |
| Traffic Vol, veh/h | 0 | 0 | 52 | 0 | 0 | 89 |
| Future Vol, veh/h | 0 | 0 | 52 | 0 | 0 | 89 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 60 | 60 | 60 | 60 | 60 | 60 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 87 | 0 | 0 | 148 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 235 | 43 | 0 | 0 | 87 | 0 |
| Stage 1 | 87 | - | - | - | - | - |
| Stage 2 | 148 | - | - | - | - | - |
| Critical Hdwy | 6.63 | 6.93 | - | - | 4.13 | - |
| Critical Hdwy Stg 1 | 5.83 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - |
| Follow-up Hdwy | 3.519 | 3.319 | - | - | 2.219 | - |
| Pot Cap-1 Maneuver | 743 | 1018 | - | - | 1508 | - |
| Stage 1 | 927 | - | - | - | - | - |
| Stage 2 | 879 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 743 | 1018 | - | - | 1508 | - |
| Mov Cap-2 Maneuver | 743 | - | - | - | - | - |
| Stage 1 | 927 | - | - | - | - | - |
| Stage 2 | 879 | - | - | - | - | - |
| Approach | WB | NB | | SB | | |
| HCM Ctrl Dly, s/v | 0 | 0 | | 0 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | | |
| Capacity (veh/h) | - | - | - | 1508 | - | |
| HCM Lane V/C Ratio | - | - | - | - | - | |
| HCM Ctrl Dly (s/v) | - | - | 0 | 0 | - | |
| HCM Lane LOS | - | - | A | A | - | |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - | |

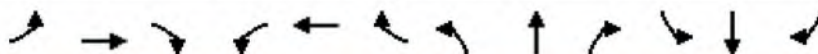
HCM 7th Signalized Intersection Summary
9: S Milpitas Dr & Montague Expy













1000 Gibraltar Dr - LTA
2040 No Build PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  |  |  |  | |  |  |  |
| Traffic Volume (veh/h) | 556 | 2680 | 45 | 132 | 1601 | 185 | 27 | 116 | 202 | 509 | 243 | 738 |
| Future Volume (veh/h) | 556 | 2680 | 45 | 132 | 1601 | 185 | 27 | 116 | 202 | 509 | 243 | 738 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1945 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 567 | 2735 | 46 | 135 | 1634 | 189 | 28 | 118 | 206 | 519 | 248 | 753 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 508 | 3055 | 51 | 168 | 2355 | 603 | 439 | 498 | 444 | 364 | 918 | 409 |
| Arrive On Green | 0.15 | 0.47 | 0.47 | 0.05 | 0.37 | 0.37 | 0.13 | 0.28 | 0.28 | 0.11 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3456 | 6566 | 110 | 3456 | 6434 | 1648 | 3456 | 1777 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 567 | 2009 | 772 | 135 | 1634 | 189 | 28 | 118 | 206 | 519 | 248 | 753 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1609 | 1851 | 1728 | 1609 | 1648 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 33.8 | 87.7 | 88.0 | 8.9 | 49.6 | 18.9 | 1.6 | 11.8 | 24.7 | 24.2 | 12.8 | 59.4 |
| Cycle Q Clear(g_c), s | 33.8 | 87.7 | 88.0 | 8.9 | 49.6 | 18.9 | 1.6 | 11.8 | 24.7 | 24.2 | 12.8 | 59.4 |
| Prop In Lane | 1.00 | | 0.06 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 508 | 2245 | 861 | 168 | 2355 | 603 | 439 | 498 | 444 | 364 | 918 | 409 |
| V/C Ratio(X) | 1.12 | 0.89 | 0.90 | 0.80 | 0.69 | 0.31 | 0.06 | 0.24 | 0.46 | 1.43 | 0.27 | 1.84 |
| Avail Cap(c_a), veh/h | 508 | 2245 | 861 | 361 | 2355 | 603 | 439 | 498 | 444 | 364 | 918 | 409 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.43 | 0.43 | 0.43 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 98.1 | 56.3 | 56.4 | 108.3 | 61.9 | 52.2 | 88.4 | 63.9 | 68.5 | 102.9 | 68.0 | 85.3 |
| Incr Delay (d2), s/veh | 64.3 | 2.8 | 6.8 | 8.6 | 1.7 | 1.4 | 0.3 | 1.1 | 3.5 | 207.6 | 0.7 | 387.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 25.9 | 42.1 | 49.1 | 7.6 | 27.9 | 12.8 | 1.4 | 9.4 | 15.8 | 33.0 | 10.0 | 105.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 162.4 | 59.1 | 63.2 | 116.9 | 63.7 | 53.6 | 88.6 | 65.0 | 72.0 | 310.5 | 68.7 | 472.5 |
| LnGrp LOS | F | E | E | F | E | D | F | E | E | F | E | F |
| Approach Vol, veh/h | 3348 | | | 1958 | | | 352 | | | 1520 | | |
| Approach Delay, s/veh | 77.6 | | | 66.4 | | | 71.0 | | | 351.3 | | |
| Approach LOS | E | | | E | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 40.0 | 90.0 | 35.0 | 65.0 | 17.2 | 112.8 | 30.0 | 70.0 | | | | |
| Change Period (Y+Rc), s | 6.2 | 5.8 | 5.8 | 5.6 | 6.0 | 5.8 | 5.8 | 5.6 | | | | |
| Max Green Setting (Gmax), s | 33.8 | 84.2 | 29.2 | 54.4 | 24.0 | 94.2 | 24.2 | 64.4 | | | | |
| Max Q Clear Time (g_c+I1), s | 35.8 | 51.6 | 3.6 | 61.4 | 10.9 | 90.0 | 26.2 | 26.7 | | | | |
| Green Ext Time (p_c), s | 0.0 | 15.5 | 0.0 | 0.0 | 0.3 | 3.9 | 0.0 | 2.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 132.1 | | | | | | | | | | | |
| HCM 7th LOS | F | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary
10: E Capitol Ave/Great Mall Pkwy & Montague Expy

1000 Gibraltar Dr - LTA
2040 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|--|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 294 | 2391 | 352 | 191 | 1443 | 551 | 198 | 427 | 109 | 367 | 1742 | 82 |
| Future Volume (veh/h) | 294 | 2391 | 352 | 191 | 1443 | 551 | 198 | 427 | 109 | 367 | 1742 | 82 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 300 | 2440 | 0 | 195 | 1472 | 562 | 202 | 436 | 0 | 374 | 1778 | 0 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 335 | 3015 | | 223 | 2804 | 691 | 230 | 1330 | | 411 | 1594 | |
| Arrive On Green | 0.10 | 0.47 | 0.00 | 0.06 | 0.44 | 0.44 | 0.07 | 0.26 | 0.00 | 0.12 | 0.31 | 0.00 |
| Sat Flow, veh/h | 3456 | 6434 | 1585 | 3456 | 6434 | 1585 | 3456 | 5106 | 1585 | 3456 | 5106 | 1585 |
| Grp Volume(v), veh/h | 300 | 2440 | 0 | 195 | 1472 | 562 | 202 | 436 | 0 | 374 | 1778 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1609 | 1585 | 1728 | 1609 | 1585 | 1728 | 1702 | 1585 | 1728 | 1702 | 1585 |
| Q Serve(g_s), s | 23.2 | 87.7 | 0.0 | 15.1 | 45.2 | 83.7 | 15.6 | 18.6 | 0.0 | 28.9 | 84.3 | 0.0 |
| Cycle Q Clear(g_c), s | 23.2 | 87.7 | 0.0 | 15.1 | 45.2 | 83.7 | 15.6 | 18.6 | 0.0 | 28.9 | 84.3 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 335 | 3015 | | 223 | 2804 | 691 | 230 | 1330 | | 411 | 1594 | |
| V/C Ratio(X) | 0.90 | 0.81 | | 0.87 | 0.52 | 0.81 | 0.88 | 0.33 | | 0.91 | 1.12 | |
| Avail Cap(c_a), veh/h | 695 | 3015 | | 312 | 2804 | 691 | 298 | 1330 | | 685 | 1594 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.09 | 0.09 | 0.00 | 0.47 | 0.47 | 0.47 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 120.6 | 61.4 | 0.0 | 125.2 | 55.7 | 66.6 | 125.0 | 80.7 | 0.0 | 117.5 | 92.8 | 0.0 |
| Incr Delay (d2), s/veh | 0.9 | 0.2 | 0.0 | 9.3 | 0.3 | 5.0 | 20.5 | 0.1 | 0.0 | 10.2 | 61.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 12.2 | 38.7 | 0.0 | 10.2 | 23.4 | 41.5 | 12.4 | 13.0 | 0.0 | 19.8 | 61.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 121.4 | 61.6 | 0.0 | 134.5 | 56.0 | 71.6 | 145.5 | 80.9 | 0.0 | 127.7 | 154.0 | 0.0 |
| LnGrp LOS | F | E | | F | E | E | F | F | | F | F | |
| Approach Vol, veh/h | 2740 | | | 2229 | | | 638 | | | 2152 | | |
| Approach Delay, s/veh | 68.2 | | | 66.8 | | | 101.3 | | | 149.4 | | |
| Approach LOS | E | | | E | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 31.9 | 123.5 | 38.6 | 76.0 | 23.0 | 132.3 | 24.6 | 90.0 | | | | |
| Change Period (Y+Rc), s | 5.7 | 5.8 | 6.5 | 5.7 | 5.6 | 5.8 | 6.7 | 5.7 | | | | |
| Max Green Setting (Gmax), s | 54.3 | 84.2 | 53.5 | 54.3 | 24.4 | 114.2 | 23.3 | 84.3 | | | | |
| Max Q Clear Time (g_c+25.2), s | 25.2 | 85.7 | 30.9 | 20.6 | 17.1 | 89.7 | 17.6 | 86.3 | | | | |
| Green Ext Time (p_c), s | 1.0 | 0.0 | 1.3 | 3.0 | 0.3 | 19.4 | 0.3 | 0.0 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 93.1
HCM 7th LOS F

Notes

Unsignalized Delay for [NBR, EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
11: Trade Zone Blvd/McCandless Dr & Montague Expy

1000 Gibraltar Dr - LTA
2040 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|-------|-------|-------|------|------|------|-------|-------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 147 | 2901 | 1624 | 319 | 1354 | 64 | 836 | 81 | 290 | 68 | 189 | 211 |
| Future Volume (veh/h) | 147 | 2901 | 1624 | 319 | 1354 | 64 | 836 | 81 | 290 | 68 | 189 | 211 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 150 | 2960 | 1657 | 326 | 1382 | 0 | 739 | 243 | 0 | 69 | 193 | 0 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 177 | 2177 | 676 | 350 | 2663 | | 523 | 333 | | 200 | 227 | |
| Arrive On Green | 0.10 | 0.43 | 0.43 | 0.20 | 0.52 | 0.00 | 0.10 | 0.18 | 0.00 | 0.05 | 0.12 | 0.00 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 1781 | 5106 | 1585 | 3563 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 150 | 2960 | 1657 | 326 | 1382 | 0 | 739 | 243 | 0 | 69 | 193 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1702 | 1585 | 1781 | 1702 | 1585 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 11.6 | 59.7 | 59.7 | 25.2 | 24.9 | 0.0 | 14.6 | 17.2 | 0.0 | 4.7 | 14.2 | 0.0 |
| Cycle Q Clear(g_c), s | 11.6 | 59.7 | 59.7 | 25.2 | 24.9 | 0.0 | 14.6 | 17.2 | 0.0 | 4.7 | 14.2 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 177 | 2177 | 676 | 350 | 2663 | | 523 | 333 | | 200 | 227 | |
| V/C Ratio(X) | 0.85 | 1.36 | 2.45 | 0.93 | 0.52 | | 1.41 | 0.73 | | 0.34 | 0.85 | |
| Avail Cap(c_a), veh/h | 383 | 2177 | 676 | 387 | 2663 | | 523 | 395 | | 302 | 397 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.09 | 0.09 | 0.09 | 0.80 | 0.80 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 62.0 | 40.2 | 40.2 | 55.3 | 22.0 | 0.0 | 51.2 | 54.3 | 0.0 | 50.5 | 60.2 | 0.0 |
| Incr Delay (d2), s/veh | 1.1 | 162.2 | 653.9 | 23.8 | 0.6 | 0.0 | 197.1 | 5.5 | 0.0 | 1.0 | 8.6 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 6.3 | 74.9 | 222.1 | 18.7 | 14.2 | 0.0 | 26.1 | 13.4 | 0.0 | 3.9 | 11.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 63.1 | 202.4 | 694.1 | 79.1 | 22.6 | 0.0 | 248.2 | 59.8 | 0.0 | 51.5 | 68.8 | 0.0 |
| LnGrp LOS | E | F | F | E | C | | F | E | | D | E | |
| Approach Vol, veh/h | 4767 | | | 1708 | | | 982 | | | 262 | | |
| Approach Delay, s/veh | 368.9 | | | 33.3 | | | 201.6 | | | 64.3 | | |
| Approach LOS | F | | | C | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 78.8 | 78.8 | 12.1 | 30.4 | 32.1 | 65.5 | 20.0 | 22.4 | | | | |
| Change Period (Y+Rc), s | 4.9 | 5.8 | 5.3 | 5.4 | 4.6 | 5.8 | 5.4 | * 5.4 | | | | |
| Max Green Setting (Gmax), s | 44.2 | 44.2 | 14.7 | 29.6 | 30.4 | 44.2 | 14.6 | * 30 | | | | |
| Max Q Clear Time (g_c+1/3), s | 26.9 | 26.9 | 6.7 | 19.2 | 27.2 | 61.7 | 16.6 | 16.2 | | | | |
| Green Ext Time (p_c), s | 0.3 | 8.6 | 0.1 | 0.9 | 0.3 | 0.0 | 0.0 | 0.9 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 263.0
HCM 7th LOS F

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
12: Oakland Rd/S Main St & Montague Expy

1000 Gibraltar Dr - LTA
2040 No Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|-------|-------|------|------|------|-------|-------|-------|------|-------|-------|------|
| Lane Configurations | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑↑ | ↱ | ↰↱ | ↑↑ | ↱ | ↰↱ | ↑↑ | ↱ |
| Traffic Volume (veh/h) | 326 | 3556 | 270 | 240 | 1889 | 203 | 431 | 380 | 485 | 363 | 507 | 297 |
| Future Volume (veh/h) | 326 | 3556 | 270 | 240 | 1889 | 203 | 431 | 380 | 485 | 363 | 507 | 297 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 329 | 3592 | 0 | 242 | 1908 | 0 | 435 | 384 | 0 | 367 | 512 | 0 |
| Peak Hour Factor | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 375 | 2617 | | 284 | 2494 | | 437 | 573 | | 412 | 552 | |
| Arrive On Green | 0.11 | 0.51 | 0.00 | 0.08 | 0.49 | 0.00 | 0.13 | 0.16 | 0.00 | 0.12 | 0.16 | 0.00 |
| Sat Flow, veh/h | 3456 | 5106 | 1585 | 3456 | 5106 | 1585 | 3456 | 3554 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 329 | 3592 | 0 | 242 | 1908 | 0 | 435 | 384 | 0 | 367 | 512 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1702 | 1585 | 1728 | 1702 | 1585 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 17.8 | 97.4 | 0.0 | 13.1 | 58.0 | 0.0 | 23.9 | 19.3 | 0.0 | 19.9 | 27.0 | 0.0 |
| Cycle Q Clear(g_c), s | 17.8 | 97.4 | 0.0 | 13.1 | 58.0 | 0.0 | 23.9 | 19.3 | 0.0 | 19.9 | 27.0 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 375 | 2617 | | 284 | 2494 | | 437 | 573 | | 412 | 552 | |
| V/C Ratio(X) | 0.88 | 1.37 | | 0.85 | 0.77 | | 1.00 | 0.67 | | 0.89 | 0.93 | |
| Avail Cap(c_a), veh/h | 535 | 2617 | | 437 | 2494 | | 437 | 573 | | 524 | 552 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 0.72 | 0.72 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 83.5 | 46.3 | 0.0 | 86.0 | 39.7 | 0.0 | 83.0 | 74.9 | 0.0 | 82.5 | 79.2 | 0.0 |
| Incr Delay (d2), s/veh | 11.4 | 170.2 | 0.0 | 7.1 | 1.7 | 0.0 | 42.1 | 6.1 | 0.0 | 14.6 | 24.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 118.3 | 118.7 | 0.0 | 9.6 | 31.0 | 0.0 | 19.2 | 14.4 | 0.0 | 14.9 | 20.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 94.8 | 216.5 | 0.0 | 93.1 | 41.4 | 0.0 | 125.1 | 81.0 | 0.0 | 97.1 | 103.3 | 0.0 |
| LnGrp LOS | F | F | | F | D | | F | F | | F | F | |
| Approach Vol, veh/h | 3921 | | | 2150 | | | 819 | | | 879 | | |
| Approach Delay, s/veh | 206.3 | | | 47.2 | | | 104.4 | | | 100.7 | | |
| Approach LOS | F | | | D | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 36.2 | 98.6 | 28.8 | 36.4 | 21.6 | 103.2 | 30.0 | 35.2 | | | | |
| Change Period (Y+Rc), s | 5.6 | 5.8 | 6.2 | 5.7 | 6.0 | 5.8 | 6.0 | * 5.7 | | | | |
| Max Green Setting (Gmax), s | 29.4 | 84.2 | 28.8 | 24.3 | 24.0 | 89.2 | 24.0 | * 30 | | | | |
| Max Q Clear Time (g_c+119, s) | 119.8 | 60.0 | 21.9 | 21.3 | 15.1 | 99.4 | 25.9 | 29.0 | | | | |
| Green Ext Time (p_c), s | 0.8 | 15.0 | 0.8 | 0.7 | 0.5 | 0.0 | 0.0 | 0.2 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 139.6
HCM 7th LOS F

Notes
































* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

D5 – Horizon Build Conditions 2040

HCM 7th Signalized Intersection Summary
1: S Abel S/N Abel St & W Calaveras Blvd

1000 Gibraltar Dr - LTA
2040 Build AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |    |  |  |    |  |  |   |  |  |    |  |
| Traffic Volume (veh/h) | 219 | 1162 | 35 | 462 | 2313 | 153 | 41 | 391 | 442 | 185 | 516 | 649 |
| Future Volume (veh/h) | 219 | 1162 | 35 | 462 | 2313 | 153 | 41 | 391 | 442 | 185 | 516 | 649 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 238 | 1263 | 0 | 502 | 2514 | 0 | 45 | 425 | 480 | 201 | 561 | 705 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 271 | 1630 | | 383 | 1930 | | 58 | 779 | 347 | 168 | 997 | 445 |
| Arrive On Green | 0.15 | 0.32 | 0.00 | 0.21 | 0.38 | 0.00 | 0.03 | 0.22 | 0.22 | 0.09 | 0.28 | 0.28 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 1781 | 5106 | 1585 | 1781 | 3554 | 1585 | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h | 238 | 1263 | 0 | 502 | 2514 | 0 | 45 | 425 | 480 | 201 | 561 | 705 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1702 | 1585 | 1781 | 1702 | 1585 | 1781 | 1777 | 1585 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s | 15.7 | 26.9 | 0.0 | 25.8 | 45.4 | 0.0 | 3.0 | 12.7 | 26.3 | 11.3 | 16.2 | 33.7 |
| Cycle Q Clear(g_c), s | 15.7 | 26.9 | 0.0 | 25.8 | 45.4 | 0.0 | 3.0 | 12.7 | 26.3 | 11.3 | 16.2 | 33.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 271 | 1630 | | 383 | 1930 | | 58 | 779 | 347 | 168 | 997 | 445 |
| V/C Ratio(X) | 0.88 | 0.77 | | 1.31 | 1.30 | | 0.77 | 0.55 | 1.38 | 1.20 | 0.56 | 1.58 |
| Avail Cap(c_a), veh/h | 465 | 1630 | | 383 | 1930 | | 197 | 779 | 347 | 168 | 997 | 445 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 49.8 | 37.0 | 0.0 | 47.1 | 37.3 | 0.0 | 57.6 | 41.6 | 46.8 | 54.4 | 36.9 | 43.2 |
| Incr Delay (d2), s/veh | 9.7 | 3.7 | 0.0 | 157.5 | 140.0 | 0.0 | 19.2 | 0.8 | 188.8 | 132.8 | 0.7 | 273.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 12.2 | 17.1 | 0.0 | 41.8 | 63.3 | 0.0 | 3.0 | 9.5 | 43.4 | 17.8 | 11.4 | 72.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 59.5 | 40.6 | 0.0 | 204.6 | 177.3 | 0.0 | 76.8 | 42.3 | 235.7 | 187.2 | 37.6 | 316.8 |
| LnGrp LOS | E | D | | F | F | | E | D | F | F | D | F |
| Approach Vol, veh/h | 1501 | | 3016 | | | | 950 | | 1467 | | | |
| Approach Delay, s/veh | 43.6 | | 181.8 | | | | 141.7 | | 192.3 | | | |
| Approach LOS | D | | F | | | | F | | F | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 30.0 | 43.0 | 8.6 | 38.4 | 22.9 | 50.1 | 16.0 | 31.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.7 | 4.7 | 4.7 | 4.7 | * 4.7 | 4.7 | 4.7 | | | | |
| Max Green Setting (Gmax), s | 25.8 | 36.3 | 13.3 | 26.3 | 31.3 | * 30 | 11.3 | 26.3 | | | | |
| Max Q Clear Time (g_c+I1), s | 27.8 | 28.9 | 5.0 | 35.7 | 17.7 | 47.4 | 13.3 | 28.3 | | | | |
| Green Ext Time (p_c), s | 0.0 | 4.6 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | | | | |

Intersection Summary

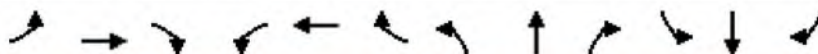
HCM 7th Control Delay, s/veh 148.6
HCM 7th LOS F













Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 2: S Milpitas Blvd/N Milpitas Blvd & E Calaveras Blvd

1000 Gibraltar Dr - LTA
2040 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 258 | 885 | 529 | 126 | 2265 | 300 | 518 | 292 | 89 | 193 | 302 | 466 |
| Future Volume (veh/h) | 258 | 885 | 529 | 126 | 2265 | 300 | 518 | 292 | 89 | 193 | 302 | 466 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 274 | 941 | 0 | 134 | 2410 | 0 | 551 | 311 | 95 | 205 | 321 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 352 | 1817 | | 166 | 1774 | | 721 | 742 | 331 | 661 | 680 | |
| Arrive On Green | 0.10 | 0.36 | 0.00 | 0.09 | 0.35 | 0.00 | 0.21 | 0.21 | 0.21 | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3456 | 5106 | 1585 | 1781 | 5106 | 1585 | 3456 | 3554 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 274 | 941 | 0 | 134 | 2410 | 0 | 551 | 311 | 95 | 205 | 321 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1702 | 1585 | 1781 | 1702 | 1585 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 8.8 | 16.6 | 0.0 | 8.4 | 39.6 | 0.0 | 17.1 | 8.7 | 5.8 | 5.8 | 9.2 | 0.0 |
| Cycle Q Clear(g_c), s | 8.8 | 16.6 | 0.0 | 8.4 | 39.6 | 0.0 | 17.1 | 8.7 | 5.8 | 5.8 | 9.2 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 352 | 1817 | | 166 | 1774 | | 721 | 742 | 331 | 661 | 680 | |
| V/C Ratio(X) | 0.78 | 0.52 | | 0.81 | 1.36 | | 0.76 | 0.42 | 0.29 | 0.31 | 0.47 | |
| Avail Cap(c_a), veh/h | 782 | 1817 | | 325 | 1774 | | 721 | 742 | 331 | 661 | 680 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 50.0 | 29.0 | 0.0 | 50.7 | 37.2 | 0.0 | 42.5 | 39.1 | 38.0 | 39.6 | 41.0 | 0.0 |
| Incr Delay (d2), s/veh | 3.8 | 1.1 | 0.0 | 8.9 | 165.1 | 0.0 | 7.5 | 1.7 | 2.2 | 1.2 | 2.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 7.1 | 11.0 | 0.0 | 7.4 | 64.0 | 0.0 | 12.5 | 7.0 | 4.3 | 4.6 | 7.5 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 53.7 | 30.0 | 0.0 | 59.6 | 202.3 | 0.0 | 50.0 | 40.8 | 40.1 | 40.9 | 43.3 | 0.0 |
| LnGrp LOS | D | C | | E | F | | D | D | D | D | D | |
| Approach Vol, veh/h | 1215 | | | 2544 | | | 957 | | | 526 | | |
| Approach Delay, s/veh | 35.4 | | | 194.8 | | | 46.0 | | | 42.4 | | |
| Approach LOS | D | | | F | | | D | | | D | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 44.8 | 45.2 | 28.0 | 26.0 | 15.8 | 44.2 | 26.0 | 28.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | | | | |
| Max Green Setting (Gmax), s | 20.8 | 30.4 | 23.8 | 21.8 | 25.8 | 25.4 | 21.8 | 23.8 | | | | |
| Max Q Clear Time (g_c+tr), s | 10.4 | 18.6 | 19.1 | 11.2 | 10.8 | 41.6 | 7.8 | 10.7 | | | | |
| Green Ext Time (p_c), s | 0.2 | 4.8 | 0.9 | 1.3 | 0.8 | 0.0 | 0.5 | 1.8 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 115.4
HCM 7th LOS F









Notes

Unsignalized Delay for [EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 3: S Milpitas Blvd & Yosemite Dr

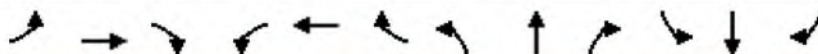
1000 Gibraltar Dr - LTA
2040 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|------|---|---|-------|---|---|------|---|---|------|
| Lane Configurations |  |  | |  |  | |  |  | |  |  | |
| Traffic Volume (veh/h) | 43 | 6 | 4 | 336 | 45 | 439 | 13 | 404 | 148 | 250 | 359 | 89 |
| Future Volume (veh/h) | 43 | 6 | 4 | 336 | 45 | 439 | 13 | 404 | 148 | 250 | 359 | 89 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 46 | 6 | 4 | 357 | 48 | 467 | 14 | 430 | 157 | 266 | 382 | 95 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 132 | 267 | 178 | 549 | 44 | 425 | 28 | 812 | 294 | 299 | 1329 | 327 |
| Arrive On Green | 0.04 | 0.26 | 0.26 | 0.07 | 0.30 | 0.30 | 0.02 | 0.32 | 0.32 | 0.17 | 0.48 | 0.48 |
| Sat Flow, veh/h | 1753 | 1030 | 687 | 1753 | 147 | 1435 | 1753 | 2516 | 910 | 1753 | 2782 | 684 |
| Grp Volume(v), veh/h | 46 | 0 | 10 | 357 | 0 | 515 | 14 | 298 | 289 | 266 | 239 | 238 |
| Grp Sat Flow(s),veh/h/ln | 1753 | 0 | 1717 | 1753 | 0 | 1582 | 1753 | 1749 | 1677 | 1753 | 1749 | 1718 |
| Q Serve(g_s), s | 2.0 | 0.0 | 0.4 | 7.5 | 0.0 | 30.5 | 0.8 | 14.3 | 14.5 | 15.3 | 8.5 | 8.7 |
| Cycle Q Clear(g_c), s | 2.0 | 0.0 | 0.4 | 7.5 | 0.0 | 30.5 | 0.8 | 14.3 | 14.5 | 15.3 | 8.5 | 8.7 |
| Prop In Lane | 1.00 | | 0.40 | 1.00 | | 0.91 | 1.00 | | 0.54 | 1.00 | | 0.40 |
| Lane Grp Cap(c), veh/h | 132 | 0 | 444 | 549 | 0 | 469 | 28 | 564 | 541 | 299 | 835 | 820 |
| V/C Ratio(X) | 0.35 | 0.00 | 0.02 | 0.65 | 0.00 | 1.10 | 0.50 | 0.53 | 0.53 | 0.89 | 0.29 | 0.29 |
| Avail Cap(c_a), veh/h | 198 | 0 | 508 | 549 | 0 | 469 | 272 | 564 | 541 | 374 | 835 | 820 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 29.8 | 0.0 | 28.5 | 29.3 | 0.0 | 36.3 | 50.3 | 28.5 | 28.5 | 41.7 | 16.3 | 16.3 |
| Incr Delay (d2), s/veh | 1.6 | 0.0 | 0.0 | 2.7 | 0.0 | 71.2 | 13.0 | 3.5 | 3.8 | 18.9 | 0.9 | 0.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 1.5 | 0.0 | 0.3 | 7.5 | 0.0 | 29.5 | 0.8 | 10.4 | 10.2 | 12.6 | 6.1 | 6.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 31.3 | 0.0 | 28.5 | 32.0 | 0.0 | 107.5 | 63.3 | 32.0 | 32.3 | 60.7 | 17.1 | 17.2 |
| LnGrp LOS | C | | C | C | | F | E | C | C | E | B | B |
| Approach Vol, veh/h | 56 | | | 872 | | | 601 | | | 743 | | |
| Approach Delay, s/veh | 30.8 | | | 76.6 | | | 32.9 | | | 32.8 | | |
| Approach LOS | C | | | E | | | C | | | C | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 31.6 | 38.2 | 12.0 | 31.2 | 5.7 | 54.2 | 8.2 | 35.0 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.5 | 4.5 | 4.0 | 5.0 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 22.0 | 25.0 | 7.5 | 30.5 | 16.0 | 31.0 | 7.5 | 30.5 | | | | |
| Max Q Clear Time (g_c+H), s | 17.3 | 16.5 | 9.5 | 2.4 | 2.8 | 10.7 | 4.0 | 32.5 | | | | |
| Green Ext Time (p_c), s | 0.3 | 2.2 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 49.6 | | | | | | | | | | | |
| HCM 7th LOS | D | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary 4: S Milpitas Blvd & D1/Ames Ave

1000 Gibraltar Dr - LTA
2040 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|------|------|------|-------|------|------|-------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↗ | ↕ | | ↗ | ↕ | |
| Traffic Volume (veh/h) | 0 | 0 | 0 | 42 | 0 | 21 | 1 | 605 | 89 | 47 | 626 | 1 |
| Future Volume (veh/h) | 0 | 0 | 0 | 42 | 0 | 21 | 1 | 605 | 89 | 47 | 626 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 |
| Adj Flow Rate, veh/h | 0 | 0 | 0 | 45 | 0 | 22 | 1 | 644 | 95 | 50 | 666 | 1 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cap, veh/h | 0 | 105 | 0 | 122 | 1 | 27 | 2 | 2264 | 333 | 68 | 2787 | 4 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.06 | 0.00 | 0.75 | 0.75 | 0.04 | 0.79 | 0.79 |
| Sat Flow, veh/h | 0 | 1811 | 0 | 943 | 15 | 468 | 1725 | 3009 | 443 | 1725 | 3525 | 5 |
| Grp Volume(v), veh/h | 0 | 0 | 0 | 67 | 0 | 0 | 1 | 368 | 371 | 50 | 325 | 342 |
| Grp Sat Flow(s), veh/h/ln | 0 | 1811 | 0 | 1426 | 0 | 0 | 1725 | 1721 | 1731 | 1725 | 1721 | 1810 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.1 | 6.1 | 6.1 | 2.6 | 4.4 | 4.4 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.1 | 6.1 | 6.1 | 2.6 | 4.4 | 4.4 |
| Prop In Lane | 0.00 | | 0.00 | 0.67 | | 0.33 | 1.00 | | 0.26 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 0 | 105 | 0 | 150 | 0 | 0 | 2 | 1295 | 1303 | 68 | 1360 | 1431 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.42 | 0.28 | 0.28 | 0.73 | 0.24 | 0.24 |
| Avail Cap(c_a), veh/h | 0 | 322 | 0 | 470 | 0 | 0 | 307 | 1295 | 1303 | 307 | 1360 | 1431 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 0.0 | 41.9 | 0.0 | 0.0 | 44.9 | 3.5 | 3.5 | 42.7 | 2.4 | 2.4 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 89.5 | 0.6 | 0.5 | 13.9 | 0.4 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.1 | 2.7 | 2.8 | 2.4 | 1.6 | 1.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 0.0 | 44.0 | 0.0 | 0.0 | 134.4 | 4.1 | 4.1 | 56.6 | 2.8 | 2.8 |
| LnGrp LOS | | | | D | | | | F | A | A | E | A |
| Approach Vol, veh/h | 0 | | | 67 | | | 740 | | | 717 | | |
| Approach Delay, s/veh | 0.0 | | | 44.0 | | | 4.2 | | | 6.6 | | |
| Approach LOS | | | | D | | | A | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 7.6 | 72.7 | | 9.7 | 4.1 | 76.2 | | 9.7 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | | * 4.5 | 4.0 | 5.0 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.0 | 35.0 | | * 16 | 16.0 | 35.0 | | 25.5 | | | | |
| Max Q Clear Time (g_c+14.0), s | 14.0 | 8.1 | | 0.0 | 2.1 | 6.4 | | 6.2 | | | | |
| Green Ext Time (p_c), s | 0.1 | 4.6 | | 0.0 | 0.0 | 4.0 | | 0.2 | | | | |




Intersection Summary

HCM 7th Control Delay, s/veh 7.1
HCM 7th LOS A

Notes






















User approved pedestrian interval to be less than phase max green.





* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.




| Intersection | | | | | | |
|--------------------------|---|--------|-------|---|---|------|
| Int Delay, s/veh | 1.1 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations |  | | |  |  | |
| Traffic Vol, veh/h | 13 | 45 | 46 | 683 | 661 | 13 |
| Future Vol, veh/h | 13 | 45 | 46 | 683 | 661 | 13 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 6 | 6 | 6 | 6 | 6 | 6 |
| Mvmt Flow | 14 | 47 | 48 | 719 | 696 | 14 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 1159 | 355 | 709 | 0 | - | 0 |
| Stage 1 | 703 | - | - | - | - | - |
| Stage 2 | 456 | - | - | - | - | - |
| Critical Hdwy | 6.92 | 7.02 | 4.22 | - | - | - |
| Critical Hdwy Stg 1 | 5.92 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.92 | - | - | - | - | - |
| Follow-up Hdwy | 3.56 | 3.36 | 2.26 | - | - | - |
| Pot Cap-1 Maneuver | 183 | 630 | 859 | - | - | - |
| Stage 1 | 442 | - | - | - | - | - |
| Stage 2 | 593 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 170 | 630 | 859 | - | - | - |
| Mov Cap-2 Maneuver | 295 | - | - | - | - | - |
| Stage 1 | 411 | - | - | - | - | - |
| Stage 2 | 593 | - | - | - | - | - |
| Approach | EB | NB | | SB | | |
| HCM Ctrl Dly, s/v | 13.15 | 1.14 | | 0 | | |
| HCM LOS | B | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
| Capacity (veh/h) | 227 | - | 502 | - | - | |
| HCM Lane V/C Ratio | 0.056 | - | 0.122 | - | - | |
| HCM Ctrl Dly (s/v) | 9.4 | 0.6 | 13.2 | - | - | |
| HCM Lane LOS | A | A | B | - | - | |
| HCM 95th %tile Q(veh) | 0.2 | - | 0.4 | - | - | |

HCM 7th Signalized Intersection Summary
6: S Milpitas Blvd & Gibraltar Dr/ABC Dwy

1000 Gibraltar Dr - LTA
2040 Build AM























| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | |  | |  | |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 7 | 0 | 47 | 11 | 0 | 3 | 246 | 730 | 17 | 6 | 698 | 6 |
| Future Volume (veh/h) | 7 | 0 | 47 | 11 | 0 | 3 | 246 | 730 | 17 | 6 | 698 | 6 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 0 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 | 1811 |
| Adj Flow Rate, veh/h | 8 | 0 | 57 | 13 | 0 | 4 | 296 | 880 | 20 | 7 | 841 | 7 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Percent Heavy Veh, % | 6 | 0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cap, veh/h | 13 | 0 | 0 | 47 | 0 | 0 | 321 | 2874 | 65 | 12 | 1189 | 1008 |
| Arrive On Green | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.19 | 0.84 | 0.84 | 0.01 | 0.66 | 0.66 |
| Sat Flow, veh/h | 1725 | 8 | | 0 | 0 | 0 | 1725 | 3439 | 78 | 1725 | 1811 | 1535 |
| Grp Volume(v), veh/h | 8 | 117.3 | | 17 | 0 | 0 | 296 | 440 | 460 | 7 | 841 | 7 |
| Grp Sat Flow(s),veh/h/ln | 1725 | F | | 0 | 0 | 0 | 1725 | 1721 | 1797 | 1725 | 1811 | 1535 |
| Q Serve(g_s), s | 0.6 | | | 0.0 | 0.0 | 0.0 | 22.9 | 7.7 | 7.7 | 0.6 | 40.5 | 0.2 |
| Cycle Q Clear(g_c), s | 0.6 | | | 0.1 | 0.0 | 0.0 | 22.9 | 7.7 | 7.7 | 0.6 | 40.5 | 0.2 |
| Prop In Lane | 1.00 | | | 0.76 | | 0.24 | 1.00 | | 0.04 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 13 | | | 47 | 0 | 0 | 321 | 1438 | 1501 | 12 | 1189 | 1008 |
| V/C Ratio(X) | 0.60 | | | 0.36 | 0.00 | 0.00 | 0.92 | 0.31 | 0.31 | 0.59 | 0.71 | 0.01 |
| Avail Cap(c_a), veh/h | 349 | | | 301 | 0 | 0 | 349 | 1438 | 1501 | 349 | 1189 | 1008 |
| HCM Platoon Ratio | 1.00 | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | | | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 67.3 | | | 66.2 | 0.0 | 0.0 | 54.4 | 2.5 | 2.5 | 67.3 | 15.0 | 8.1 |
| Incr Delay (d2), s/veh | 50.0 | | | 6.6 | 0.0 | 0.0 | 29.0 | 0.6 | 0.5 | 53.2 | 3.6 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.8 | | | 1.2 | 0.0 | 0.0 | 18.2 | 3.5 | 3.6 | 0.7 | 23.0 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 117.3 | | | 72.9 | 0.0 | 0.0 | 83.4 | 3.0 | 3.0 | 120.6 | 18.5 | 8.1 |
| LnGrp LOS | F | | | E | | | F | A | A | F | B | A |
| Approach Vol, veh/h | | | | | 17 | | 1196 | | | | 855 | |
| Approach Delay, s/veh | | | | | 72.9 | | 22.9 | | | | 19.3 | |
| Approach LOS | | | | | E | | C | | | | B | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | |
| Phs Duration (G+Y+Rc), s | 5.4 | 118.6 | 5.5 | 6.4 | 29.8 | 94.3 | | | | | | |
| Change Period (Y+Rc), s | 4.5 | 5.0 | 4.5 | 4.5 | 4.5 | 5.0 | | | | | | |
| Max Green Setting (Gmax), s | 27.5 | 35.0 | 27.5 | 27.5 | 27.5 | 35.0 | | | | | | |
| Max Q Clear Time (g_c+I1), s | 2.6 | 9.7 | 2.6 | 2.1 | 24.9 | 42.5 | | | | | | |
| Green Ext Time (p_c), s | 0.0 | 13.5 | 0.0 | 0.1 | 0.4 | 0.0 | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 22.2 | | | | | | | | |
| HCM 7th LOS | | | | C | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|---|------|--------|---|------|--------|---|-------|--------|---|-------|
| Int Delay, s/veh | 1.5 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | |  | | |  | | |  | | |  | |
| Traffic Vol, veh/h | 0 | 23 | 1 | 17 | 156 | 19 | 0 | 0 | 3 | 19 | 0 | 0 |
| Future Vol, veh/h | 0 | 23 | 1 | 17 | 156 | 19 | 0 | 0 | 3 | 19 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| Heavy Vehicles, % | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Mvmt Flow | 0 | 28 | 1 | 20 | 188 | 23 | 0 | 0 | 4 | 23 | 0 | 0 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 211 | 0 | 0 | 29 | 0 | 0 | 257 | 280 | 28 | 268 | 269 | 199 |
| Stage 1 | - | - | - | - | - | - | 28 | 28 | - | 240 | 240 | - |
| Stage 2 | - | - | - | - | - | - | 229 | 252 | - | 28 | 29 | - |
| Critical Hdwy | 4.17 | - | - | 4.17 | - | - | 7.17 | 6.57 | 6.27 | 7.17 | 6.57 | 6.27 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.17 | 5.57 | - | 6.17 | 5.57 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.17 | 5.57 | - | 6.17 | 5.57 | - |
| Follow-up Hdwy | 2.263 | - | - | 2.263 | - | - | 3.563 | 4.063 | 3.363 | 3.563 | 4.063 | 3.363 |
| Pot Cap-1 Maneuver | 1330 | - | - | 1552 | - | - | 686 | 620 | 1033 | 674 | 629 | 829 |
| Stage 1 | - | - | - | - | - | - | 976 | 862 | - | 752 | 697 | - |
| Stage 2 | - | - | - | - | - | - | 763 | 689 | - | 977 | 861 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1330 | - | - | 1552 | - | - | 675 | 611 | 1033 | 662 | 619 | 829 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 675 | 611 | - | 662 | 619 | - |
| Stage 1 | - | - | - | - | - | - | 976 | 862 | - | 741 | 687 | - |
| Stage 2 | - | - | - | - | - | - | 751 | 679 | - | 973 | 861 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Ctrl Dly, s/v | 0 | | | 0.65 | | | 8.5 | | | 10.63 | | |
| HCM LOS | | | | | | | A | | | B | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 1033 | 1330 | - | - | 1552 | - | - | 662 | | | | |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.013 | - | - | 0.035 | | | | |
| HCM Ctrl Dly (s/v) | 8.5 | 0 | - | - | 7.3 | - | - | 10.6 | | | | |
| HCM Lane LOS | A | A | - | - | A | - | - | B | | | | |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0.1 | | | | |

| Intersection | | | | | | |
|--------------------------|---|----------|---|-------|-------|---|
| Int Delay, s/veh | 2.6 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations |  | |  | | |  |
| Traffic Vol, veh/h | 6 | 32 | 105 | 6 | 32 | 48 |
| Future Vol, veh/h | 6 | 32 | 105 | 6 | 32 | 48 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, % | 6 | 6 | 6 | 6 | 6 | 6 |
| Mvmt Flow | 8 | 40 | 131 | 8 | 40 | 60 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 275 | 69 | 0 | 0 | 139 | 0 |
| Stage 1 | 135 | - | - | - | - | - |
| Stage 2 | 140 | - | - | - | - | - |
| Critical Hdwy | 6.69 | 6.99 | - | - | 4.19 | - |
| Critical Hdwy Stg 1 | 5.89 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.49 | - | - | - | - | - |
| Follow-up Hdwy | 3.557 | 3.357 | - | - | 2.257 | - |
| Pot Cap-1 Maneuver | 693 | 968 | - | - | 1417 | - |
| Stage 1 | 867 | - | - | - | - | - |
| Stage 2 | 875 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 673 | 968 | - | - | 1417 | - |
| Mov Cap-2 Maneuver | 673 | - | - | - | - | - |
| Stage 1 | 867 | - | - | - | - | - |
| Stage 2 | 850 | - | - | - | - | - |
| Approach | WB | NB | | SB | | |
| HCM Ctrl Dly, s/v | 9.2 | 0 | | 3.05 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | | |
| Capacity (veh/h) | - | - | 905 | 720 | - | |
| HCM Lane V/C Ratio | - | - | 0.052 | 0.028 | - | |
| HCM Ctrl Dly (s/v) | - | - | 9.2 | 7.6 | 0 | |
| HCM Lane LOS | - | - | A | A | A | |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0.1 | - | |

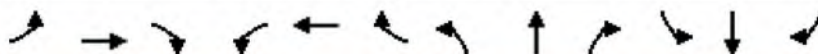
HCM 7th Signalized Intersection Summary
9: S Milpitas Dr & Montague Expy













1000 Gibraltar Dr - LTA
2040 Build AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  |  |  |  | |  |  |  |
| Traffic Volume (veh/h) | 423 | 1133 | 11 | 134 | 3688 | 482 | 16 | 100 | 194 | 207 | 83 | 647 |
| Future Volume (veh/h) | 423 | 1133 | 11 | 134 | 3688 | 482 | 16 | 100 | 194 | 207 | 83 | 647 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1914 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 445 | 1193 | 12 | 141 | 3882 | 507 | 17 | 105 | 204 | 218 | 87 | 681 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 475 | 3014 | 30 | 174 | 2364 | 606 | 432 | 490 | 437 | 358 | 903 | 403 |
| Arrive On Green | 0.14 | 0.46 | 0.46 | 0.05 | 0.37 | 0.37 | 0.13 | 0.28 | 0.28 | 0.11 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3401 | 6513 | 65 | 3401 | 6332 | 1622 | 3401 | 1749 | 1560 | 3401 | 3497 | 1560 |
| Grp Volume(v), veh/h | 445 | 870 | 335 | 141 | 3882 | 507 | 17 | 105 | 204 | 218 | 87 | 681 |
| Grp Sat Flow(s),veh/h/ln | 1700 | 1583 | 1829 | 1700 | 1583 | 1622 | 1700 | 1749 | 1560 | 1700 | 1749 | 1560 |
| Q Serve(g_s), s | 29.8 | 27.7 | 27.7 | 9.4 | 85.9 | 65.5 | 1.0 | 10.6 | 24.9 | 14.1 | 4.4 | 59.4 |
| Cycle Q Clear(g_c), s | 29.8 | 27.7 | 27.7 | 9.4 | 85.9 | 65.5 | 1.0 | 10.6 | 24.9 | 14.1 | 4.4 | 59.4 |
| Prop In Lane | 1.00 | | 0.04 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 475 | 2198 | 847 | 174 | 2364 | 606 | 432 | 490 | 437 | 358 | 903 | 403 |
| V/C Ratio(X) | 0.94 | 0.40 | 0.40 | 0.81 | 1.64 | 0.84 | 0.04 | 0.21 | 0.47 | 0.61 | 0.10 | 1.69 |
| Avail Cap(c_a), veh/h | 500 | 2198 | 847 | 355 | 2364 | 606 | 432 | 490 | 437 | 358 | 903 | 403 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.81 | 0.81 | 0.81 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 97.9 | 40.6 | 40.6 | 108.0 | 72.1 | 65.7 | 88.1 | 63.4 | 68.6 | 98.4 | 64.9 | 85.3 |
| Incr Delay (d2), s/veh | 21.4 | 0.4 | 1.1 | 8.8 | 291.0 | 13.0 | 0.2 | 1.0 | 3.6 | 7.5 | 0.2 | 321.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 20.2 | 15.9 | 18.2 | 7.9 | 126.0 | 38.1 | 0.8 | 8.5 | 15.7 | 10.9 | 3.6 | 91.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 119.3 | 41.1 | 41.8 | 116.8 | 363.1 | 78.7 | 88.3 | 64.4 | 72.1 | 105.9 | 65.1 | 406.5 |
| LnGrp LOS | F | D | D | F | F | E | F | E | E | F | E | F |
| Approach Vol, veh/h | 1650 | | | 4530 | | | 326 | | | 986 | | |
| Approach Delay, s/veh | 62.3 | | | 323.6 | | | 70.5 | | | 309.9 | | |
| Approach LOS | E | | | F | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 38.3 | 91.7 | 35.0 | 65.0 | 17.7 | 112.3 | 30.0 | 70.0 | | | | |
| Change Period (Y+Rc), s | 6.2 | 5.8 | 5.8 | 5.6 | 6.0 | 5.8 | 5.8 | 5.6 | | | | |
| Max Green Setting (Gmax), s | 33.8 | 84.2 | 29.2 | 54.4 | 24.0 | 94.2 | 24.2 | 64.4 | | | | |
| Max Q Clear Time (g_c+I1), s | 31.8 | 87.9 | 3.0 | 61.4 | 11.4 | 29.7 | 16.1 | 26.9 | | | | |
| Green Ext Time (p_c), s | 0.4 | 0.0 | 0.0 | 0.0 | 0.3 | 9.6 | 0.4 | 1.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 253.2 | | | | | | | | | | | |
| HCM 7th LOS | F | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary
10: E Capitol Ave/Great Mall Pkwy & Montague Expy

1000 Gibraltar Dr - LTA
2040 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 224 | 1017 | 83 | 85 | 2651 | 1607 | 215 | 990 | 103 | 596 | 307 | 42 |
| Future Volume (veh/h) | 224 | 1017 | 83 | 85 | 2651 | 1607 | 215 | 990 | 103 | 596 | 307 | 42 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 233 | 1059 | 0 | 89 | 2761 | 1674 | 224 | 1031 | 0 | 621 | 320 | 0 |
| Peak Hour Factor | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 266 | 3082 | | 116 | 2800 | 690 | 250 | 1011 | | 649 | 1596 | |
| Arrive On Green | 0.08 | 0.49 | 0.00 | 0.03 | 0.44 | 0.44 | 0.07 | 0.20 | 0.00 | 0.19 | 0.32 | 0.00 |
| Sat Flow, veh/h | 3401 | 6332 | 1560 | 3401 | 6332 | 1560 | 3401 | 5025 | 1560 | 3401 | 5025 | 1560 |
| Grp Volume(v), veh/h | 233 | 1059 | 0 | 89 | 2761 | 1674 | 224 | 1031 | 0 | 621 | 320 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1700 | 1583 | 1560 | 1700 | 1583 | 1560 | 1700 | 1675 | 1560 | 1700 | 1675 | 1560 |
| Q Serve(g_s), s | 18.3 | 27.8 | 0.0 | 7.0 | 116.4 | 119.4 | 17.6 | 54.3 | 0.0 | 48.8 | 12.5 | 0.0 |
| Cycle Q Clear(g_c), s | 18.3 | 27.8 | 0.0 | 7.0 | 116.4 | 119.4 | 17.6 | 54.3 | 0.0 | 48.8 | 12.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 266 | 3082 | | 116 | 2800 | 690 | 250 | 1011 | | 649 | 1596 | |
| V/C Ratio(X) | 0.88 | 0.34 | | 0.77 | 0.99 | 2.43 | 0.89 | 1.02 | | 0.96 | 0.20 | |
| Avail Cap(c_a), veh/h | 684 | 3082 | | 307 | 2800 | 690 | 293 | 1011 | | 674 | 1596 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.89 | 0.89 | 0.00 | 0.09 | 0.09 | 0.09 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 123.2 | 42.7 | 0.0 | 129.4 | 74.5 | 75.3 | 124.0 | 107.8 | 0.0 | 108.1 | 67.2 | 0.0 |
| Incr Delay (d2), s/veh | 8.1 | 0.3 | 0.0 | 1.0 | 2.8 | 642.4 | 25.1 | 33.5 | 0.0 | 24.1 | 0.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 18.0 | 16.3 | 0.0 | 4.0 | 50.8 | 260.1 | 13.7 | 35.9 | 0.0 | 32.0 | 9.3 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 131.3 | 43.0 | 0.0 | 130.4 | 77.3 | 717.7 | 149.1 | 141.3 | 0.0 | 132.3 | 67.2 | 0.0 |
| LnGrp LOS | F | D | | F | E | F | F | F | | F | E | |
| Approach Vol, veh/h | 1292 | | 4524 | | | | 1255 | | | 941 | | |
| Approach Delay, s/veh | 58.9 | | 315.3 | | | | 142.7 | | | 110.1 | | |
| Approach LOS | E | | F | | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 26.8 | 125.2 | 58.0 | 60.0 | 14.8 | 137.2 | 26.6 | 91.4 | | | | |
| Change Period (Y+Rc), s | 5.7 | 5.8 | 6.5 | 5.7 | 5.6 | 5.8 | 6.7 | 5.7 | | | | |
| Max Green Setting (Gmax), s | 54.3 | 84.2 | 53.5 | 54.3 | 24.4 | 114.2 | 23.3 | 84.3 | | | | |
| Max Q Clear Time (g_c+20), s | 20.3 | 121.4 | 50.8 | 56.3 | 9.0 | 29.8 | 19.6 | 14.5 | | | | |
| Green Ext Time (p_c), s | 0.8 | 0.0 | 0.7 | 0.0 | 0.2 | 8.7 | 0.2 | 2.2 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 222.8

HCM 7th LOS F

Notes

Unsignalized Delay for [NBR, EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
11: Trade Zone Blvd/McCandless Dr & Montague Expy

1000 Gibraltar Dr - LTA
2040 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|-------|-------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 70 | 1012 | 869 | 112 | 2533 | 158 | 1255 | 96 | 154 | 69 | 100 | 420 |
| Future Volume (veh/h) | 70 | 1012 | 869 | 112 | 2533 | 158 | 1255 | 96 | 154 | 69 | 100 | 420 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 | 1841 |
| Adj Flow Rate, veh/h | 72 | 1043 | 896 | 115 | 2611 | 0 | 1365 | 0 | 0 | 71 | 103 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cap, veh/h | 92 | 2975 | 924 | 140 | 3101 | | 770 | 0 | | 243 | 133 | |
| Arrive On Green | 0.05 | 0.59 | 0.59 | 0.08 | 0.62 | 0.00 | 0.10 | 0.00 | 0.00 | 0.05 | 0.07 | 0.00 |
| Sat Flow, veh/h | 1753 | 5025 | 1560 | 1753 | 5025 | 1560 | 5259 | 0 | 1560 | 1753 | 1841 | 1560 |
| Grp Volume(v), veh/h | 72 | 1043 | 896 | 115 | 2611 | 0 | 1365 | 0 | 0 | 71 | 103 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1753 | 1675 | 1560 | 1753 | 1675 | 1560 | 1753 | 0 | 1560 | 1753 | 1841 | 1560 |
| Q Serve(g_s), s | 5.7 | 15.0 | 77.1 | 9.0 | 58.0 | 0.0 | 14.6 | 0.0 | 0.0 | 5.2 | 7.7 | 0.0 |
| Cycle Q Clear(g_c), s | 5.7 | 15.0 | 77.1 | 9.0 | 58.0 | 0.0 | 14.6 | 0.0 | 0.0 | 5.2 | 7.7 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 92 | 2975 | 924 | 140 | 3101 | | 770 | 0 | | 243 | 133 | |
| V/C Ratio(X) | 0.78 | 0.35 | 0.97 | 0.82 | 0.84 | | 1.77 | 0.00 | | 0.29 | 0.77 | |
| Avail Cap(c_a), veh/h | 377 | 2975 | 924 | 381 | 3101 | | 770 | 0 | | 337 | 390 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.72 | 0.72 | 0.72 | 0.09 | 0.09 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 65.5 | 14.7 | 27.4 | 63.4 | 21.4 | 0.0 | 56.0 | 0.0 | 0.0 | 55.9 | 63.8 | 0.0 |
| Incr Delay (d2), s/veh | 9.9 | 0.2 | 18.9 | 1.1 | 0.3 | 0.0 | 353.4 | 0.0 | 0.0 | 0.7 | 9.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 5.0 | 8.7 | 40.6 | 5.0 | 22.8 | 0.0 | 42.7 | 0.0 | 0.0 | 4.3 | 7.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 75.5 | 14.9 | 46.3 | 64.6 | 21.6 | 0.0 | 409.5 | 0.0 | 0.0 | 56.6 | 72.8 | 0.0 |
| LnGrp LOS | E | B | D | E | C | | F | | | E | E | |
| Approach Vol, veh/h | 2011 | | | 2726 | | | 1365 | | | 174 | | |
| Approach Delay, s/veh | 31.1 | | | 23.4 | | | 409.5 | | | 66.2 | | |
| Approach LOS | C | | | C | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 22.2 | 92.2 | 12.5 | 23.0 | 15.8 | 88.7 | 20.0 | 15.6 | | | | |
| Change Period (Y+Rc), s | 4.9 | 5.8 | 5.3 | 5.4 | 4.6 | 5.8 | 5.4 | * 5.4 | | | | |
| Max Green Setting (Gmax), s | 30.0 | 44.2 | 14.7 | 29.6 | 30.4 | 44.2 | 14.6 | * 30 | | | | |
| Max Q Clear Time (g_c+I1), s | 60.0 | 60.0 | 7.2 | 0.0 | 11.0 | 79.1 | 16.6 | 9.7 | | | | |
| Green Ext Time (p_c), s | 0.1 | 0.0 | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.5 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 111.0
HCM 7th LOS F

Notes

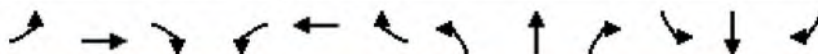
User approved volume balancing among the lanes for turning movement.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 12: Oakland Rd/S Main St & Montague Expy

1000 Gibraltar Dr - LTA
2040 Build AM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|------|-------|-------|------|-------|-------|-------|-------|------|------|------|------|
| Lane Configurations | ↔↔ | ↑↑↑ | ↗ | ↔↔ | ↑↑↑ | ↗ | ↔↔ | ↑↑ | ↗ | ↔↔ | ↑↑ | ↗ |
| Traffic Volume (veh/h) | 225 | 1490 | 414 | 259 | 3740 | 141 | 728 | 250 | 263 | 214 | 291 | 663 |
| Future Volume (veh/h) | 225 | 1490 | 414 | 259 | 3740 | 141 | 728 | 250 | 263 | 214 | 291 | 663 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 239 | 1585 | 0 | 276 | 3979 | 0 | 774 | 266 | 0 | 228 | 310 | 0 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 283 | 2543 | | 318 | 2605 | | 433 | 709 | | 272 | 547 | |
| Arrive On Green | 0.08 | 0.50 | 0.00 | 0.09 | 0.51 | 0.00 | 0.13 | 0.20 | 0.00 | 0.08 | 0.16 | 0.00 |
| Sat Flow, veh/h | 3428 | 5066 | 1572 | 3428 | 5066 | 1572 | 3428 | 3526 | 1572 | 3428 | 3526 | 1572 |
| Grp Volume(v), veh/h | 239 | 1585 | 0 | 276 | 3979 | 0 | 774 | 266 | 0 | 228 | 310 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1714 | 1689 | 1572 | 1714 | 1689 | 1572 | 1714 | 1763 | 1572 | 1714 | 1763 | 1572 |
| Q Serve(g_s), s | 13.1 | 43.1 | 0.0 | 15.1 | 97.7 | 0.0 | 24.0 | 12.4 | 0.0 | 12.5 | 15.5 | 0.0 |
| Cycle Q Clear(g_c), s | 13.1 | 43.1 | 0.0 | 15.1 | 97.7 | 0.0 | 24.0 | 12.4 | 0.0 | 12.5 | 15.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 283 | 2543 | | 318 | 2605 | | 433 | 709 | | 272 | 547 | |
| V/C Ratio(X) | 0.84 | 0.62 | | 0.87 | 1.53 | | 1.79 | 0.38 | | 0.84 | 0.57 | |
| Avail Cap(c_a), veh/h | 530 | 2543 | | 433 | 2605 | | 433 | 709 | | 520 | 547 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 0.09 | 0.09 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 85.9 | 34.3 | 0.0 | 85.1 | 46.1 | 0.0 | 83.0 | 65.6 | 0.0 | 86.3 | 74.3 | 0.0 |
| Incr Delay (d2), s/veh | 6.8 | 1.2 | 0.0 | 1.4 | 237.6 | 0.0 | 363.5 | 1.5 | 0.0 | 6.8 | 4.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 10.1 | 24.6 | 0.0 | 8.0 | 135.8 | 0.0 | 50.7 | 9.7 | 0.0 | 9.8 | 11.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 92.7 | 35.4 | 0.0 | 86.5 | 283.7 | 0.0 | 446.5 | 67.1 | 0.0 | 93.0 | 78.5 | 0.0 |
| LnGrp LOS | F | D | | F | F | | F | E | | F | E | |
| Approach Vol, veh/h | 1824 | | 4255 | | | 1040 | | | 538 | | | |
| Approach Delay, s/veh | 42.9 | | 270.9 | | | 349.4 | | | 84.7 | | | |
| Approach LOS | D | | F | | | F | | | F | | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 21.3 | 103.5 | 21.3 | 43.9 | 23.6 | 101.2 | 30.0 | 35.2 | | | | |
| Change Period (Y+Rc), s | 5.6 | 5.8 | 6.2 | 5.7 | 6.0 | 5.8 | 6.0 | * 5.7 | | | | |
| Max Green Setting (Gmax), s | 29.4 | 84.2 | 28.8 | 24.3 | 24.0 | 89.2 | 24.0 | * 30 | | | | |
| Max Q Clear Time (g_c+11.5), s | 99.7 | 14.5 | 14.4 | 17.1 | 45.1 | 26.0 | 17.5 | | | | | |
| Green Ext Time (p_c), s | 0.6 | 0.0 | 0.6 | 1.1 | 0.5 | 15.4 | 0.0 | 1.4 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 214.2
HCM 7th LOS F































Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
1: S Abel S/N Abel St & W Calaveras Blvd

1000 Gibraltar Dr - LTA
2040 Build PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |    |  |  |    |  |  |   |  |  |   |  |
| Traffic Volume (veh/h) | 253 | 2302 | 32 | 357 | 1349 | 198 | 69 | 517 | 998 | 263 | 360 | 307 |
| Future Volume (veh/h) | 253 | 2302 | 32 | 357 | 1349 | 198 | 69 | 517 | 998 | 263 | 360 | 307 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 258 | 2349 | 0 | 364 | 1377 | 0 | 70 | 528 | 1018 | 268 | 367 | 313 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 291 | 1643 | | 386 | 1893 | | 90 | 785 | 350 | 169 | 942 | 420 |
| Arrive On Green | 0.16 | 0.32 | 0.00 | 0.21 | 0.37 | 0.00 | 0.05 | 0.22 | 0.22 | 0.09 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1795 | 5147 | 1598 | 1795 | 5147 | 1598 | 1795 | 3582 | 1598 | 1795 | 3582 | 1598 |
| Grp Volume(v), veh/h | 258 | 2349 | 0 | 364 | 1377 | 0 | 70 | 528 | 1018 | 268 | 367 | 313 |
| Grp Sat Flow(s),veh/h/ln | 1795 | 1716 | 1598 | 1795 | 1716 | 1598 | 1795 | 1791 | 1598 | 1795 | 1791 | 1598 |
| Q Serve(g_s), s | 16.9 | 38.3 | 0.0 | 24.0 | 27.7 | 0.0 | 4.6 | 16.2 | 26.3 | 11.3 | 10.1 | 21.5 |
| Cycle Q Clear(g_c), s | 16.9 | 38.3 | 0.0 | 24.0 | 27.7 | 0.0 | 4.6 | 16.2 | 26.3 | 11.3 | 10.1 | 21.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 291 | 1643 | | 386 | 1893 | | 90 | 785 | 350 | 169 | 942 | 420 |
| V/C Ratio(X) | 0.89 | 1.43 | | 0.94 | 0.73 | | 0.78 | 0.67 | 2.91 | 1.59 | 0.39 | 0.74 |
| Avail Cap(c_a), veh/h | 468 | 1643 | | 386 | 1893 | | 199 | 785 | 350 | 169 | 942 | 420 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 49.2 | 40.8 | 0.0 | 46.4 | 32.7 | 0.0 | 56.3 | 42.9 | 46.8 | 54.3 | 36.3 | 40.5 |
| Incr Delay (d2), s/veh | 11.6 | 197.1 | 0.0 | 31.5 | 2.5 | 0.0 | 13.1 | 2.3 | 866.1 | 289.6 | 0.3 | 7.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 13.2 | 69.0 | 0.0 | 19.9 | 17.1 | 0.0 | 4.3 | 11.8 | 148.3 | 29.7 | 7.9 | 14.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 60.8 | 237.9 | 0.0 | 77.9 | 35.2 | 0.0 | 69.4 | 45.2 | 912.9 | 343.9 | 36.6 | 47.6 |
| LnGrp LOS | E | F | | E | D | | E | D | F | F | D | D |
| Approach Vol, veh/h | 2607 | | | 1741 | | | 1616 | | | 948 | | |
| Approach Delay, s/veh | 220.4 | | | 44.1 | | | 592.9 | | | 127.1 | | |
| Approach LOS | F | | | D | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 30.0 | 43.0 | 10.7 | 36.3 | 24.2 | 48.8 | 16.0 | 31.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.7 | 4.7 | 4.7 | 4.7 | * 4.7 | 4.7 | 4.7 | | | | |
| Max Green Setting (Gmax), s | 25.8 | 36.3 | 13.3 | 26.3 | 31.3 | * 30 | 11.3 | 26.3 | | | | |
| Max Q Clear Time (g_c+I1), s | 26.0 | 40.3 | 6.6 | 23.5 | 18.9 | 29.7 | 13.3 | 28.3 | | | | |
| Green Ext Time (p_c), s | 0.0 | 0.0 | 0.1 | 1.0 | 0.6 | 0.5 | 0.0 | 0.0 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 250.3
HCM 7th LOS F













Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.
Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
2: S Milpitas Blvd/N Milpitas Blvd & E Calaveras Blvd

1000 Gibraltar Dr - LTA
2040 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 560 | 2022 | 941 | 187 | 1344 | 277 | 478 | 376 | 172 | 286 | 451 | 353 |
| Future Volume (veh/h) | 560 | 2022 | 941 | 187 | 1344 | 277 | 478 | 376 | 172 | 286 | 451 | 353 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 589 | 2128 | 0 | 197 | 1415 | 0 | 503 | 396 | 181 | 301 | 475 | 0 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 667 | 1655 | | 229 | 1326 | | 727 | 748 | 334 | 666 | 685 | |
| Arrive On Green | 0.19 | 0.32 | 0.00 | 0.13 | 0.26 | 0.00 | 0.21 | 0.21 | 0.21 | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h | 3483 | 5147 | 1598 | 1795 | 5147 | 1598 | 3483 | 3582 | 1598 | 3483 | 3582 | 1598 |
| Grp Volume(v), veh/h | 589 | 2128 | 0 | 197 | 1415 | 0 | 503 | 396 | 181 | 301 | 475 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1742 | 1716 | 1598 | 1795 | 1716 | 1598 | 1742 | 1791 | 1598 | 1742 | 1791 | 1598 |
| Q Serve(g_s), s | 18.8 | 36.7 | 0.0 | 12.3 | 29.4 | 0.0 | 15.2 | 11.2 | 11.5 | 8.7 | 14.1 | 0.0 |
| Cycle Q Clear(g_c), s | 18.8 | 36.7 | 0.0 | 12.3 | 29.4 | 0.0 | 15.2 | 11.2 | 11.5 | 8.7 | 14.1 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 667 | 1655 | | 229 | 1326 | | 727 | 748 | 334 | 666 | 685 | |
| V/C Ratio(X) | 0.88 | 1.29 | | 0.86 | 1.07 | | 0.69 | 0.53 | 0.54 | 0.45 | 0.69 | |
| Avail Cap(c_a), veh/h | 788 | 1655 | | 328 | 1326 | | 727 | 748 | 334 | 666 | 685 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 44.8 | 38.7 | 0.0 | 48.7 | 42.3 | 0.0 | 41.7 | 40.1 | 40.2 | 40.8 | 43.0 | 0.0 |
| Incr Delay (d2), s/veh | 10.3 | 133.2 | 0.0 | 14.8 | 44.8 | 0.0 | 5.3 | 2.7 | 6.2 | 2.2 | 5.7 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 18.7 | 52.0 | 0.0 | 10.4 | 25.3 | 0.0 | 11.2 | 8.8 | 8.7 | 7.0 | 10.9 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 55.1 | 171.8 | 0.0 | 63.5 | 87.1 | 0.0 | 47.1 | 42.8 | 46.5 | 43.0 | 48.7 | 0.0 |
| LnGrp LOS | E | F | | E | F | | D | D | D | D | D | |
| Approach Vol, veh/h | 2717 | | | 1612 | | | 1080 | | | 776 | | |
| Approach Delay, s/veh | 146.5 | | | 84.2 | | | 45.4 | | | 46.5 | | |
| Approach LOS | F | | | F | | | D | | | D | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 48.7 | 41.3 | 28.0 | 26.0 | 26.0 | 34.0 | 26.0 | 28.0 | | | | |
| Change Period (Y+Rc), s | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.6 | 4.2 | 4.2 | | | | |
| Max Green Setting (Gmax), s | 20.8 | 30.4 | 23.8 | 21.8 | 25.8 | 25.4 | 21.8 | 23.8 | | | | |
| Max Q Clear Time (g_c+T4), s | 14.3 | 38.7 | 17.2 | 16.1 | 20.8 | 31.4 | 10.7 | 13.5 | | | | |
| Green Ext Time (p_c), s | 0.3 | 0.0 | 1.1 | 1.4 | 1.1 | 0.0 | 0.8 | 2.2 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 100.1
HCM 7th LOS F

Notes

Unsignalized Delay for [EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary 3: S Milpitas Blvd & Yosemite Dr

1000 Gibraltar Dr - LTA
2040 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|-------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 90 | 41 | 11 | 272 | 10 | 219 | 0 | 420 | 198 | 519 | 926 | 38 |
| Future Volume (veh/h) | 90 | 41 | 11 | 272 | 10 | 219 | 0 | 420 | 198 | 519 | 926 | 38 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 92 | 42 | 11 | 278 | 10 | 223 | 0 | 429 | 202 | 530 | 945 | 39 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 207 | 224 | 59 | 377 | 12 | 262 | 2 | 899 | 419 | 380 | 2207 | 91 |
| Arrive On Green | 0.06 | 0.16 | 0.16 | 0.07 | 0.17 | 0.17 | 0.00 | 0.38 | 0.38 | 0.21 | 0.63 | 0.63 |
| Sat Flow, veh/h | 1781 | 1429 | 374 | 1781 | 68 | 1527 | 1781 | 2353 | 1097 | 1781 | 3478 | 144 |
| Grp Volume(v), veh/h | 92 | 0 | 53 | 278 | 0 | 233 | 0 | 323 | 308 | 530 | 483 | 501 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 0 | 1803 | 1781 | 0 | 1595 | 1781 | 1777 | 1673 | 1781 | 1777 | 1845 |
| Q Serve(g_s), s | 4.4 | 0.0 | 2.6 | 7.5 | 0.0 | 14.6 | 0.0 | 14.1 | 14.4 | 22.0 | 14.0 | 14.0 |
| Cycle Q Clear(g_c), s | 4.4 | 0.0 | 2.6 | 7.5 | 0.0 | 14.6 | 0.0 | 14.1 | 14.4 | 22.0 | 14.0 | 14.0 |
| Prop In Lane | 1.00 | | 0.21 | 1.00 | | 0.96 | 1.00 | | 0.66 | 1.00 | | 0.08 |
| Lane Grp Cap(c), veh/h | 207 | 0 | 282 | 377 | 0 | 274 | 2 | 679 | 639 | 380 | 1128 | 1171 |
| V/C Ratio(X) | 0.44 | 0.00 | 0.19 | 0.74 | 0.00 | 0.85 | 0.00 | 0.48 | 0.48 | 1.39 | 0.43 | 0.43 |
| Avail Cap(c_a), veh/h | 234 | 0 | 534 | 377 | 0 | 472 | 277 | 679 | 639 | 380 | 1128 | 1171 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 34.4 | 0.0 | 37.7 | 38.1 | 0.0 | 41.4 | 0.0 | 24.0 | 24.1 | 40.5 | 9.4 | 9.4 |
| Incr Delay (d2), s/veh | 1.5 | 0.0 | 0.3 | 7.4 | 0.0 | 7.3 | 0.0 | 2.4 | 2.6 | 192.3 | 1.2 | 1.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 8.5 | 0.0 | 2.1 | 6.6 | 0.0 | 10.2 | 0.0 | 10.2 | 9.9 | 45.0 | 8.8 | 9.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 35.9 | 0.0 | 38.1 | 45.5 | 0.0 | 48.7 | 0.0 | 26.4 | 26.7 | 232.8 | 10.6 | 10.6 |
| LnGrp LOS | D | | D | D | | D | | C | C | F | B | B |
| Approach Vol, veh/h | 145 | | | 511 | | | 631 | | | 1514 | | |
| Approach Delay, s/veh | 36.7 | | | 47.0 | | | 26.5 | | | 88.4 | | |
| Approach LOS | D | | | D | | | C | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 36.0 | 44.4 | 12.0 | 20.6 | 0.0 | 70.4 | 10.5 | 22.2 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | 4.5 | 4.5 | 4.0 | 5.0 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 22.0 | 25.0 | 7.5 | 30.5 | 16.0 | 31.0 | 7.5 | 30.5 | | | | |
| Max Q Clear Time (g_c+Tb), s | 24.0 | 16.4 | 9.5 | 4.6 | 0.0 | 16.0 | 6.4 | 16.6 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.4 | 0.0 | 0.2 | 0.0 | 5.3 | 0.0 | 1.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 64.2 | | | | | | | | | | | |
| HCM 7th LOS | E | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary 4: S Milpitas Blvd & D1/Ames Ave

1000 Gibraltar Dr - LTA
2040 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↗ | ↕ | | ↗ | ↕ | |
| Traffic Volume (veh/h) | 0 | 0 | 0 | 109 | 0 | 34 | 0 | 570 | 34 | 34 | 1196 | 0 |
| Future Volume (veh/h) | 0 | 0 | 0 | 109 | 0 | 34 | 0 | 570 | 34 | 34 | 1196 | 0 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 0 | 0 | 0 | 112 | 0 | 35 | 0 | 588 | 35 | 35 | 1233 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 0 | 231 | 0 | 206 | 2 | 43 | 2 | 2365 | 141 | 58 | 2739 | 0 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.12 | 0.00 | 0.69 | 0.69 | 0.03 | 0.77 | 0.00 |
| Sat Flow, veh/h | 0 | 1870 | 0 | 1093 | 19 | 347 | 1781 | 3408 | 203 | 1781 | 3647 | 0 |
| Grp Volume(v), veh/h | 0 | 0 | 0 | 147 | 0 | 0 | 0 | 306 | 317 | 35 | 1233 | 0 |
| Grp Sat Flow(s), veh/h/ln | 0 | 1870 | 0 | 1459 | 0 | 0 | 1781 | 1777 | 1834 | 1781 | 1777 | 0 |
| Q Serve(g_s), s | 0.0 | 0.0 | 0.0 | 8.7 | 0.0 | 0.0 | 0.0 | 5.7 | 5.8 | 1.7 | 11.0 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 0.0 | 0.0 | 8.8 | 0.0 | 0.0 | 0.0 | 5.7 | 5.8 | 1.7 | 11.0 | 0.0 |
| Prop In Lane | 0.00 | | 0.00 | 0.76 | | 0.24 | 1.00 | | 0.11 | 1.00 | | 0.00 |
| Lane Grp Cap(c), veh/h | 0 | 231 | 0 | 251 | 0 | 0 | 2 | 1233 | 1273 | 58 | 2739 | 0 |
| V/C Ratio(X) | 0.00 | 0.00 | 0.00 | 0.59 | 0.00 | 0.00 | 0.00 | 0.25 | 0.25 | 0.61 | 0.45 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 333 | 0 | 483 | 0 | 0 | 317 | 1233 | 1273 | 317 | 2739 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 0.0 | 0.0 | 38.4 | 0.0 | 0.0 | 0.0 | 5.1 | 5.1 | 43.0 | 3.6 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 9.8 | 0.5 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 0.0 | 0.0 | 0.0 | 5.8 | 0.0 | 0.0 | 0.0 | 3.2 | 3.3 | 1.6 | 4.5 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 0.0 | 0.0 | 40.6 | 0.0 | 0.0 | 0.0 | 5.6 | 5.6 | 52.8 | 4.2 | 0.0 |
| LnGrp LOS | | | | D | | | | A | A | D | A | |
| Approach Vol, veh/h | 0 | | | 147 | | | 623 | | | 1268 | | |
| Approach Delay, s/veh | 0.0 | | | 40.6 | | | 5.6 | | | 5.5 | | |
| Approach LOS | | | | D | | | A | | | A | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 6.9 | 67.5 | | 15.6 | 0.0 | 74.4 | | 15.6 | | | | |
| Change Period (Y+Rc), s | 4.0 | 5.0 | | * 4.5 | 4.0 | 5.0 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 10.0 | 35.0 | | * 16 | 16.0 | 35.0 | | 25.5 | | | | |
| Max Q Clear Time (g_c+13), s | 13.8 | 7.8 | | 0.0 | 0.0 | 13.0 | | 10.8 | | | | |
| Green Ext Time (p_c), s | 0.0 | 3.7 | | 0.0 | 0.0 | 9.1 | | 0.6 | | | | |




Intersection Summary

HCM 7th Control Delay, s/veh 8.1
HCM 7th LOS A

Notes






















User approved pedestrian interval to be less than phase max green.

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

| Intersection | | | | | | |
|--------------------------|---|--------|-------|---|---|------|
| Int Delay, s/veh | 1.2 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations |  | | |  |  | |
| Traffic Vol, veh/h | 12 | 43 | 43 | 589 | 1300 | 12 |
| Future Vol, veh/h | 12 | 43 | 43 | 589 | 1300 | 12 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 96 | 96 | 96 | 96 | 96 | 96 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 13 | 45 | 45 | 614 | 1354 | 13 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 1757 | 683 | 1367 | 0 | - | 0 |
| Stage 1 | 1360 | - | - | - | - | - |
| Stage 2 | 396 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 76 | 392 | 498 | - | - | - |
| Stage 1 | 204 | - | - | - | - | - |
| Stage 2 | 649 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 68 | 392 | 498 | - | - | - |
| Mov Cap-2 Maneuver | 149 | - | - | - | - | - |
| Stage 1 | 181 | - | - | - | - | - |
| Stage 2 | 649 | - | - | - | - | - |
| Approach | EB | NB | | SB | | |
| HCM Ctrl Dly, s/v | 20.54 | 2.02 | | 0 | | |
| HCM LOS | C | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
| Capacity (veh/h) | 245 | - | 289 | - | - | |
| HCM Lane V/C Ratio | 0.09 | - | 0.198 | - | - | |
| HCM Ctrl Dly (s/v) | 12.9 | 1.2 | 20.5 | - | - | |
| HCM Lane LOS | B | A | C | - | - | |
| HCM 95th %tile Q(veh) | 0.3 | - | 0.7 | - | - | |

HCM 7th Signalized Intersection Summary
6: S Milpitas Blvd & Gibraltar Dr/ABC Dwy

1000 Gibraltar Dr - LTA
2040 Build PM




| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | |  | |  | |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 10 | 0 | 196 | 24 | 0 | 13 | 55 | 607 | 24 | 1 | 1339 | 1 |
| Future Volume (veh/h) | 10 | 0 | 196 | 24 | 0 | 13 | 55 | 607 | 24 | 1 | 1339 | 1 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1885 | 0 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 11 | 0 | 206 | 25 | 0 | 14 | 58 | 639 | 25 | 1 | 1409 | 1 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 0 | 0 | 0 | 33 | 0 | 18 | 76 | 3044 | 119 | 2 | 1555 | 1318 |
| Arrive On Green | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.03 | 0.04 | 0.87 | 0.87 | 0.00 | 0.82 | 0.82 |
| Sat Flow, veh/h | | 0 | | 1102 | 0 | 617 | 1795 | 3514 | 137 | 1795 | 1885 | 1598 |
| Grp Volume(v), veh/h | | 0.0 | | 39 | 0 | 0 | 58 | 325 | 339 | 1 | 1409 | 1 |
| Grp Sat Flow(s),veh/h/ln | | | | 1719 | 0 | 0 | 1795 | 1791 | 1860 | 1795 | 1885 | 1598 |
| Q Serve(g_s), s | | | | 3.1 | 0.0 | 0.0 | 4.3 | 4.0 | 4.0 | 0.1 | 70.5 | 0.0 |
| Cycle Q Clear(g_c), s | | | | 3.1 | 0.0 | 0.0 | 4.3 | 4.0 | 4.0 | 0.1 | 70.5 | 0.0 |
| Prop In Lane | | | | 0.64 | | 0.36 | 1.00 | | 0.07 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | | | | 51 | 0 | 0 | 76 | 1551 | 1612 | 2 | 1555 | 1318 |
| V/C Ratio(X) | | | | 0.76 | 0.00 | 0.00 | 0.76 | 0.21 | 0.21 | 0.51 | 0.91 | 0.00 |
| Avail Cap(c_a), veh/h | | | | 348 | 0 | 0 | 363 | 1551 | 1612 | 363 | 1555 | 1318 |
| HCM Platoon Ratio | | | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | | | | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | | | | 65.5 | 0.0 | 0.0 | 64.4 | 1.5 | 1.5 | 67.9 | 8.3 | 2.1 |
| Incr Delay (d2), s/veh | | | | 27.7 | 0.0 | 0.0 | 19.4 | 0.3 | 0.3 | 167.8 | 9.2 | 0.0 |
| Initial Q Delay(d3), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | | | | 3.1 | 0.0 | 0.0 | 4.3 | 1.5 | 1.5 | 0.2 | 30.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | | | | 93.2 | 0.0 | 0.0 | 83.8 | 1.8 | 1.8 | 235.6 | 17.5 | 2.1 |
| LnGrp LOS | | | | F | | | F | A | A | F | B | A |
| Approach Vol, veh/h | | | | | 39 | | | | 722 | | | |
| Approach Delay, s/veh | | | | | 93.2 | | | | 8.4 | | | |
| Approach LOS | | | | | F | | | | A | | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | | | | | |
| Phs Duration (G+Y+Rc), s | 4.6 | 122.8 | | 8.5 | 10.3 | 117.2 | | | | | | |
| Change Period (Y+Rc), s | 4.5 | 5.0 | | 4.5 | 4.5 | 5.0 | | | | | | |
| Max Green Setting (Gmax), s | 27.5 | 35.0 | | 27.5 | 27.5 | 35.0 | | | | | | |
| Max Q Clear Time (g_c+I1), s | 2.1 | 6.0 | | 5.1 | 6.3 | 72.5 | | | | | | |
| Green Ext Time (p_c), s | 0.0 | 10.3 | | 0.2 | 0.2 | 0.0 | | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 15.9 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.6 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 0 | 147 | 0 | 3 | 30 | 18 | 0 | 0 | 17 | 18 | 0 | 0 |
| Future Vol, veh/h | 0 | 147 | 0 | 3 | 30 | 18 | 0 | 0 | 17 | 18 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 186 | 0 | 4 | 38 | 23 | 0 | 0 | 22 | 23 | 0 | 0 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 61 | 0 | 0 | 186 | 0 | 0 | 232 | 254 | 186 | 243 | 243 | 49 |
| Stage 1 | - | - | - | - | - | - | 186 | 186 | - | 57 | 57 | - |
| Stage 2 | - | - | - | - | - | - | 46 | 68 | - | 186 | 186 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1543 | - | - | 1388 | - | - | 723 | 649 | 856 | 711 | 659 | 1019 |
| Stage 1 | - | - | - | - | - | - | 816 | 746 | - | 955 | 847 | - |
| Stage 2 | - | - | - | - | - | - | 968 | 838 | - | 816 | 746 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1543 | - | - | 1388 | - | - | 721 | 647 | 856 | 691 | 657 | 1019 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 721 | 647 | - | 691 | 657 | - |
| Stage 1 | - | - | - | - | - | - | 816 | 746 | - | 952 | 845 | - |
| Stage 2 | - | - | - | - | - | - | 966 | 836 | - | 795 | 746 | - |























| Approach | EB | WB | NB | SB |
|-------------------|----|------|------|-------|
| HCM Ctrl Dly, s/v | 0 | 0.45 | 9.31 | 10.39 |
| HCM LOS | | | A | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 856 | 1543 | - | - | 1388 | - | - | 691 |
| HCM Lane V/C Ratio | 0.025 | - | - | - | 0.003 | - | - | 0.033 |
| HCM Ctrl Dly (s/v) | 9.3 | 0 | - | - | 7.6 | - | - | 10.4 |
| HCM Lane LOS | A | A | - | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | - | 0.1 |

| Intersection | | | | | | |
|--------------------------|---|----------|---|-------|-------|---|
| Int Delay, s/veh | 2.7 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations |  | |  | | |  |
| Traffic Vol, veh/h | 7 | 31 | 52 | 6 | 31 | 89 |
| Future Vol, veh/h | 7 | 31 | 52 | 6 | 31 | 89 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 60 | 60 | 60 | 60 | 60 | 60 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 12 | 52 | 87 | 10 | 52 | 148 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 343 | 48 | 0 | 0 | 97 | 0 |
| Stage 1 | 92 | - | - | - | - | - |
| Stage 2 | 252 | - | - | - | - | - |
| Critical Hdwy | 6.63 | 6.93 | - | - | 4.13 | - |
| Critical Hdwy Stg 1 | 5.83 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.43 | - | - | - | - | - |
| Follow-up Hdwy | 3.519 | 3.319 | - | - | 2.219 | - |
| Pot Cap-1 Maneuver | 640 | 1010 | - | - | 1496 | - |
| Stage 1 | 922 | - | - | - | - | - |
| Stage 2 | 789 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 616 | 1010 | - | - | 1496 | - |
| Mov Cap-2 Maneuver | 616 | - | - | - | - | - |
| Stage 1 | 922 | - | - | - | - | - |
| Stage 2 | 760 | - | - | - | - | - |
| Approach | WB | NB | | SB | | |
| HCM Ctrl Dly, s/v | 9.28 | 0 | | 1.94 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | | |
| Capacity (veh/h) | - | - | 904 | 465 | - | |
| HCM Lane V/C Ratio | - | - | 0.07 | 0.035 | - | |
| HCM Ctrl Dly (s/v) | - | - | 9.3 | 7.5 | 0 | |
| HCM Lane LOS | - | - | A | A | A | |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0.1 | - | |

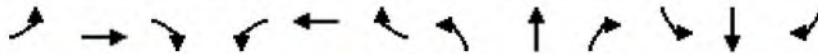
HCM 7th Signalized Intersection Summary
9: S Milpitas Dr & Montague Expy













1000 Gibraltar Dr - LTA
2040 Build PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  |  |  |  | |  |  |  |
| Traffic Volume (veh/h) | 587 | 2680 | 45 | 132 | 1601 | 222 | 27 | 116 | 202 | 547 | 243 | 769 |
| Future Volume (veh/h) | 587 | 2680 | 45 | 132 | 1601 | 222 | 27 | 116 | 202 | 547 | 243 | 769 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1945 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 599 | 2735 | 46 | 135 | 1634 | 227 | 28 | 118 | 206 | 558 | 248 | 785 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 508 | 3055 | 51 | 168 | 2355 | 603 | 439 | 498 | 444 | 364 | 918 | 409 |
| Arrive On Green | 0.15 | 0.47 | 0.47 | 0.05 | 0.37 | 0.37 | 0.13 | 0.28 | 0.28 | 0.11 | 0.26 | 0.26 |
| Sat Flow, veh/h | 3456 | 6566 | 110 | 3456 | 6434 | 1648 | 3456 | 1777 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 599 | 2009 | 772 | 135 | 1634 | 227 | 28 | 118 | 206 | 558 | 248 | 785 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1609 | 1851 | 1728 | 1609 | 1648 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 33.8 | 87.7 | 88.0 | 8.9 | 49.6 | 23.3 | 1.6 | 11.8 | 24.7 | 24.2 | 12.8 | 59.4 |
| Cycle Q Clear(g_c), s | 33.8 | 87.7 | 88.0 | 8.9 | 49.6 | 23.3 | 1.6 | 11.8 | 24.7 | 24.2 | 12.8 | 59.4 |
| Prop In Lane | 1.00 | | 0.06 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 508 | 2245 | 861 | 168 | 2355 | 603 | 439 | 498 | 444 | 364 | 918 | 409 |
| V/C Ratio(X) | 1.18 | 0.89 | 0.90 | 0.80 | 0.69 | 0.38 | 0.06 | 0.24 | 0.46 | 1.53 | 0.27 | 1.92 |
| Avail Cap(c_a), veh/h | 508 | 2245 | 861 | 361 | 2355 | 603 | 439 | 498 | 444 | 364 | 918 | 409 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.17 | 0.17 | 0.17 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 98.1 | 56.3 | 56.4 | 108.3 | 61.9 | 53.6 | 88.4 | 63.9 | 68.5 | 102.9 | 68.0 | 85.3 |
| Incr Delay (d2), s/veh | 84.6 | 1.1 | 2.9 | 8.6 | 1.7 | 1.8 | 0.3 | 1.1 | 3.5 | 254.0 | 0.7 | 421.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 26.5 | 39.4 | 45.5 | 7.6 | 27.9 | 15.3 | 1.4 | 9.4 | 15.8 | 36.8 | 10.0 | 112.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 182.7 | 57.5 | 59.3 | 116.9 | 63.7 | 55.4 | 88.6 | 65.0 | 72.0 | 356.9 | 68.7 | 507.2 |
| LnGrp LOS | F | E | E | F | E | E | F | E | E | F | E | F |
| Approach Vol, veh/h | 3380 | | | 1996 | | | 352 | | | 1591 | | |
| Approach Delay, s/veh | 80.1 | | | 66.3 | | | 71.0 | | | 386.2 | | |
| Approach LOS | F | | | E | | | E | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 40.0 | 90.0 | 35.0 | 65.0 | 17.2 | 112.8 | 30.0 | 70.0 | | | | |
| Change Period (Y+Rc), s | 6.2 | 5.8 | 5.8 | 5.6 | 6.0 | 5.8 | 5.8 | 5.6 | | | | |
| Max Green Setting (Gmax), s | 33.8 | 84.2 | 29.2 | 54.4 | 24.0 | 94.2 | 24.2 | 64.4 | | | | |
| Max Q Clear Time (g_c+I1), s | 35.8 | 51.6 | 3.6 | 61.4 | 10.9 | 90.0 | 26.2 | 26.7 | | | | |
| Green Ext Time (p_c), s | 0.0 | 15.8 | 0.0 | 0.0 | 0.3 | 3.9 | 0.0 | 2.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | 142.4 | | | | | | | | | | | |
| HCM 7th LOS | F | | | | | | | | | | | |

HCM 7th Signalized Intersection Summary
10: E Capitol Ave/Great Mall Pkwy & Montague Expy

1000 Gibraltar Dr - LTA
2040 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|--|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 294 | 2409 | 352 | 203 | 1461 | 551 | 198 | 427 | 121 | 867 | 1742 | 82 |
| Future Volume (veh/h) | 294 | 2409 | 352 | 203 | 1461 | 551 | 198 | 427 | 121 | 867 | 1742 | 82 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 300 | 2458 | 0 | 207 | 1491 | 562 | 202 | 436 | 0 | 885 | 1778 | 0 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 335 | 2993 | | 235 | 2804 | 691 | 230 | 926 | | 685 | 1594 | |
| Arrive On Green | 0.10 | 0.47 | 0.00 | 0.07 | 0.44 | 0.44 | 0.07 | 0.18 | 0.00 | 0.20 | 0.31 | 0.00 |
| Sat Flow, veh/h | 3456 | 6434 | 1585 | 3456 | 6434 | 1585 | 3456 | 5106 | 1585 | 3456 | 5106 | 1585 |
| Grp Volume(v), veh/h | 300 | 2458 | 0 | 207 | 1491 | 562 | 202 | 436 | 0 | 885 | 1778 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1609 | 1585 | 1728 | 1609 | 1585 | 1728 | 1702 | 1585 | 1728 | 1702 | 1585 |
| Q Serve(g_s), s | 23.2 | 89.3 | 0.0 | 16.0 | 45.9 | 83.7 | 15.6 | 20.6 | 0.0 | 53.5 | 84.3 | 0.0 |
| Cycle Q Clear(g_c), s | 23.2 | 89.3 | 0.0 | 16.0 | 45.9 | 83.7 | 15.6 | 20.6 | 0.0 | 53.5 | 84.3 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 335 | 2993 | | 235 | 2804 | 691 | 230 | 926 | | 685 | 1594 | |
| V/C Ratio(X) | 0.90 | 0.82 | | 0.88 | 0.53 | 0.81 | 0.88 | 0.47 | | 1.29 | 1.12 | |
| Avail Cap(c_a), veh/h | 695 | 2993 | | 312 | 2804 | 691 | 298 | 1027 | | 685 | 1594 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.09 | 0.09 | 0.00 | 0.44 | 0.44 | 0.44 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 120.6 | 62.5 | 0.0 | 124.7 | 55.9 | 66.6 | 125.0 | 98.9 | 0.0 | 108.2 | 92.8 | 0.0 |
| Incr Delay (d2), s/veh | 0.9 | 0.2 | 0.0 | 9.9 | 0.3 | 4.7 | 20.5 | 0.4 | 0.0 | 142.3 | 61.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 112.2 | 39.4 | 0.0 | 10.6 | 23.6 | 41.3 | 12.4 | 14.2 | 0.0 | 54.5 | 61.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 121.4 | 62.7 | 0.0 | 134.6 | 56.2 | 71.3 | 145.5 | 99.3 | 0.0 | 250.6 | 154.0 | 0.0 |
| LnGrp LOS | F | E | | F | E | E | F | F | | F | F | |
| Approach Vol, veh/h | 2758 | | | 2260 | | | 638 | | | 2663 | | |
| Approach Delay, s/veh | 69.1 | | | 67.2 | | | 113.9 | | | 186.1 | | |
| Approach LOS | E | | | E | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 31.9 | 123.5 | 60.0 | 54.6 | 24.0 | 131.4 | 24.6 | 90.0 | | | | |
| Change Period (Y+Rc), s | 5.7 | 5.8 | 6.5 | 5.7 | 5.6 | 5.8 | 6.7 | 5.7 | | | | |
| Max Green Setting (Gmax), s | 54.3 | 84.2 | 53.5 | 54.3 | 24.4 | 114.2 | 23.3 | 84.3 | | | | |
| Max Q Clear Time (g_c+25.2), s | 25.2 | 85.7 | 55.5 | 22.6 | 18.0 | 91.3 | 17.6 | 86.3 | | | | |
| Green Ext Time (p_c), s | 1.0 | 0.0 | 0.0 | 2.9 | 0.3 | 18.5 | 0.3 | 0.0 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 109.5
HCM 7th LOS F

Notes

Unsignalized Delay for [NBR, EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
11: Trade Zone Blvd/McCandless Dr & Montague Expy

1000 Gibraltar Dr - LTA
2040 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------------|-------|-------|-------|------|------|------|-------|-------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 147 | 2919 | 1624 | 319 | 1372 | 64 | 836 | 81 | 290 | 68 | 189 | 211 |
| Future Volume (veh/h) | 147 | 2919 | 1624 | 319 | 1372 | 64 | 836 | 81 | 290 | 68 | 189 | 211 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 150 | 2979 | 1657 | 326 | 1400 | 0 | 739 | 243 | 0 | 69 | 193 | 0 |
| Peak Hour Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 177 | 2177 | 676 | 350 | 2663 | | 523 | 333 | | 200 | 227 | |
| Arrive On Green | 0.10 | 0.43 | 0.43 | 0.20 | 0.52 | 0.00 | 0.10 | 0.18 | 0.00 | 0.05 | 0.12 | 0.00 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 1781 | 5106 | 1585 | 3563 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Grp Volume(v), veh/h | 150 | 2979 | 1657 | 326 | 1400 | 0 | 739 | 243 | 0 | 69 | 193 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1702 | 1585 | 1781 | 1702 | 1585 | 1781 | 1870 | 1585 | 1781 | 1870 | 1585 |
| Q Serve(g_s), s | 11.6 | 59.7 | 59.7 | 25.2 | 25.3 | 0.0 | 14.6 | 17.2 | 0.0 | 4.7 | 14.2 | 0.0 |
| Cycle Q Clear(g_c), s | 11.6 | 59.7 | 59.7 | 25.2 | 25.3 | 0.0 | 14.6 | 17.2 | 0.0 | 4.7 | 14.2 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 177 | 2177 | 676 | 350 | 2663 | | 523 | 333 | | 200 | 227 | |
| V/C Ratio(X) | 0.85 | 1.37 | 2.45 | 0.93 | 0.53 | | 1.41 | 0.73 | | 0.34 | 0.85 | |
| Avail Cap(c_a), veh/h | 383 | 2177 | 676 | 387 | 2663 | | 523 | 395 | | 302 | 397 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.09 | 0.09 | 0.09 | 0.79 | 0.79 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 62.0 | 40.2 | 40.2 | 55.3 | 22.1 | 0.0 | 51.2 | 54.3 | 0.0 | 50.5 | 60.2 | 0.0 |
| Incr Delay (d2), s/veh | 1.1 | 166.1 | 653.9 | 23.5 | 0.6 | 0.0 | 197.1 | 5.5 | 0.0 | 1.0 | 8.6 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 6.3 | 76.2 | 222.1 | 18.6 | 14.4 | 0.0 | 26.1 | 13.4 | 0.0 | 3.9 | 11.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 63.1 | 206.3 | 694.1 | 78.9 | 22.7 | 0.0 | 248.2 | 59.8 | 0.0 | 51.5 | 68.8 | 0.0 |
| LnGrp LOS | E | F | F | E | C | | F | E | | D | E | |
| Approach Vol, veh/h | 4786 | | | 1726 | | | 982 | | | 262 | | |
| Approach Delay, s/veh | 370.7 | | | 33.3 | | | 201.6 | | | 64.3 | | |
| Approach LOS | F | | | C | | | F | | | E | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 78.8 | 78.8 | 12.1 | 30.4 | 32.1 | 65.5 | 20.0 | 22.4 | | | | |
| Change Period (Y+Rc), s | 4.9 | 5.8 | 5.3 | 5.4 | 4.6 | 5.8 | 5.4 | * 5.4 | | | | |
| Max Green Setting (Gmax), s | 30.0 | 44.2 | 14.7 | 29.6 | 30.4 | 44.2 | 14.6 | * 30 | | | | |
| Max Q Clear Time (g_c+1/3), s | 11.3 | 27.3 | 6.7 | 19.2 | 27.2 | 61.7 | 16.6 | 16.2 | | | | |
| Green Ext Time (p_c), s | 0.3 | 8.6 | 0.1 | 0.9 | 0.3 | 0.0 | 0.0 | 0.9 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 263.9
HCM 7th LOS F

Notes

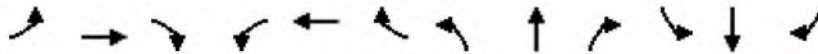
User approved volume balancing among the lanes for turning movement.













* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

HCM 7th Signalized Intersection Summary
12: Oakland Rd/S Main St & Montague Expy

1000 Gibraltar Dr - LTA
2040 Build PM



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 326 | 3562 | 270 | 252 | 1895 | 203 | 431 | 380 | 497 | 363 | 507 | 297 |
| Future Volume (veh/h) | 326 | 3562 | 270 | 252 | 1895 | 203 | 431 | 380 | 497 | 363 | 507 | 297 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 329 | 3598 | 0 | 255 | 1914 | 0 | 435 | 384 | 0 | 367 | 512 | 0 |
| Peak Hour Factor | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 375 | 2597 | | 297 | 2494 | | 437 | 573 | | 412 | 552 | |
| Arrive On Green | 0.11 | 0.51 | 0.00 | 0.09 | 0.49 | 0.00 | 0.13 | 0.16 | 0.00 | 0.12 | 0.16 | 0.00 |
| Sat Flow, veh/h | 3456 | 5106 | 1585 | 3456 | 5106 | 1585 | 3456 | 3554 | 1585 | 3456 | 3554 | 1585 |
| Grp Volume(v), veh/h | 329 | 3598 | 0 | 255 | 1914 | 0 | 435 | 384 | 0 | 367 | 512 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1702 | 1585 | 1728 | 1702 | 1585 | 1728 | 1777 | 1585 | 1728 | 1777 | 1585 |
| Q Serve(g_s), s | 17.8 | 96.7 | 0.0 | 13.8 | 58.3 | 0.0 | 23.9 | 19.3 | 0.0 | 19.9 | 27.0 | 0.0 |
| Cycle Q Clear(g_c), s | 17.8 | 96.7 | 0.0 | 13.8 | 58.3 | 0.0 | 23.9 | 19.3 | 0.0 | 19.9 | 27.0 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 375 | 2597 | | 297 | 2494 | | 437 | 573 | | 412 | 552 | |
| V/C Ratio(X) | 0.88 | 1.39 | | 0.86 | 0.77 | | 1.00 | 0.67 | | 0.89 | 0.93 | |
| Avail Cap(c_a), veh/h | 535 | 2597 | | 437 | 2494 | | 437 | 573 | | 524 | 552 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 0.00 | 0.71 | 0.71 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 83.5 | 46.7 | 0.0 | 85.7 | 39.8 | 0.0 | 83.0 | 74.9 | 0.0 | 82.5 | 79.2 | 0.0 |
| Incr Delay (d2), s/veh | 11.4 | 175.8 | 0.0 | 8.0 | 1.7 | 0.0 | 42.1 | 6.1 | 0.0 | 14.6 | 24.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(95%),veh/ln | 118.3 | 120.2 | 0.0 | 10.0 | 31.1 | 0.0 | 19.2 | 14.4 | 0.0 | 14.9 | 20.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 94.8 | 222.5 | 0.0 | 93.7 | 41.4 | 0.0 | 125.1 | 81.0 | 0.0 | 97.1 | 103.3 | 0.0 |
| LnGrp LOS | F | F | | F | D | | F | F | | F | F | |
| Approach Vol, veh/h | 3927 | | | 2169 | | | 819 | | | 879 | | |
| Approach Delay, s/veh | 211.8 | | | 47.6 | | | 104.4 | | | 100.7 | | |
| Approach LOS | F | | | D | | | F | | | F | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 36.2 | 98.6 | 28.8 | 36.4 | 22.3 | 102.5 | 30.0 | 35.2 | | | | |
| Change Period (Y+Rc), s | 5.6 | 5.8 | 6.2 | 5.7 | 6.0 | 5.8 | 6.0 | * 5.7 | | | | |
| Max Green Setting (Gmax), s | 29.4 | 84.2 | 28.8 | 24.3 | 24.0 | 89.2 | 24.0 | * 30 | | | | |
| Max Q Clear Time (g_c+119.8) | 119.8 | 60.3 | 21.9 | 21.3 | 15.8 | 98.7 | 25.9 | 29.0 | | | | |
| Green Ext Time (p_c), s | 0.8 | 14.9 | 0.8 | 0.7 | 0.5 | 0.0 | 0.0 | 0.2 | | | | |

Intersection Summary

HCM 7th Control Delay, s/veh 142.3
HCM 7th LOS F

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Appendix E Scoping Memo

TRAFFIC SCOPING DOCUMENT

To: Jessica Dai, P.E. (jdai@milpitas.gov)
Michael Fossati, AICP (mfossati@milpitas.gov)

From: Israa Khan, EIT (Israa.Khan@NV5.com)
Amanda Herrera, P.E. (Amanda.Herrera@NV5.com)
Bethany Judd, P. Eng (Bethany.Judd@NV5.com)

Date: May 23, 2025

Re: Memorandum of Traffic Scoping – 1000 Gibraltar Drive, City of Milpitas

This memorandum conveys current information related to the Traffic Scoping (TS) for a proposed delivery facility development in Milpitas, CA. It outlines the study area, study intersections, the trip generation, background growth, and trip distribution for the proposed development.

Site Description

The Local Transportation Analysis (LTA) will comply with all the requirements of the City of Milpitas and Santa Clara Valley Transportation Authority, considering the proposed development's proximity to the roadway network. The proposed development is located along Gibraltar Drive, adjacent to the intersection of S Milpitas Boulevard and Gibraltar Drive. The project will include 487,564 SF of warehousing facility. The project is expected to be completed by 2026 with a Horizon Year of 2040.

Site Trip Generation

The proposed site is anticipated to generate 3,812 daily, 260 AM and 245 PM Peak Hour trips during the typical commuter peak hours (7:00 – 9:00 a.m. and 4:00 – 6:00 p.m.) as shown in the table below. We recommend assessing the transportation network, capacity, and access driveways using the user data to best serve the community and potential user. A detailed trip schedule can be found in Appendix A.

| Land Use | Source | Intensity | Daily | AM Peak Hour | | | PM Peak Hour | | |
|-------------------|------------------------|------------|-------|--------------|-----|-------|--------------|-----|-------|
| | | | | IN | OUT | TOTAL | IN | OUT | TOTAL |
| Delivery Facility | User Data ¹ | 487,564 SF | 3,812 | 131 | 129 | 260 | 122 | 123 | 245 |

¹Delivery Facility - Proposed Traffic Schedule

Figure 1. Site Plan



Study Intersections

The following intersections are proposed for analysis and existing data collection. An intersection map can be found below in Figure 2. Please note that Congestion Management Program (CMP) intersections are only included in the study area to replicate realistic traffic flow patterns to the development area. No mitigations, if any, will be applied to these intersections.

1. Abel St & E Calaveras Blvd (CMP Intersection)
2. Milpitas Blvd & E Calaveras Blvd (CMP Intersection)
3. S Milpitas Blvd & Yosemite Dr
4. S Milpitas Blvd & Ames Ave/Project Dwy 1
5. S Milpitas Blvd & Project Dwy 2
6. S Milpitas Blvd & Gibraltar Dr
7. Gibraltar Dr & Project Dwy 3
8. Gibraltar Dr & Project Dwy 4
9. S Milpitas Dr & Montague Expy (CMP Intersection)
10. Great Mall Pkwy/E Capitol Ave & Montague Expy (CMP Intersection)
11. McCandless Dr/Trade Zone Blvd & Montague Expy (CMP Intersection)
12. S Main St/Oakland Rd & Montague Expy (CMP Intersection)

Data Collection

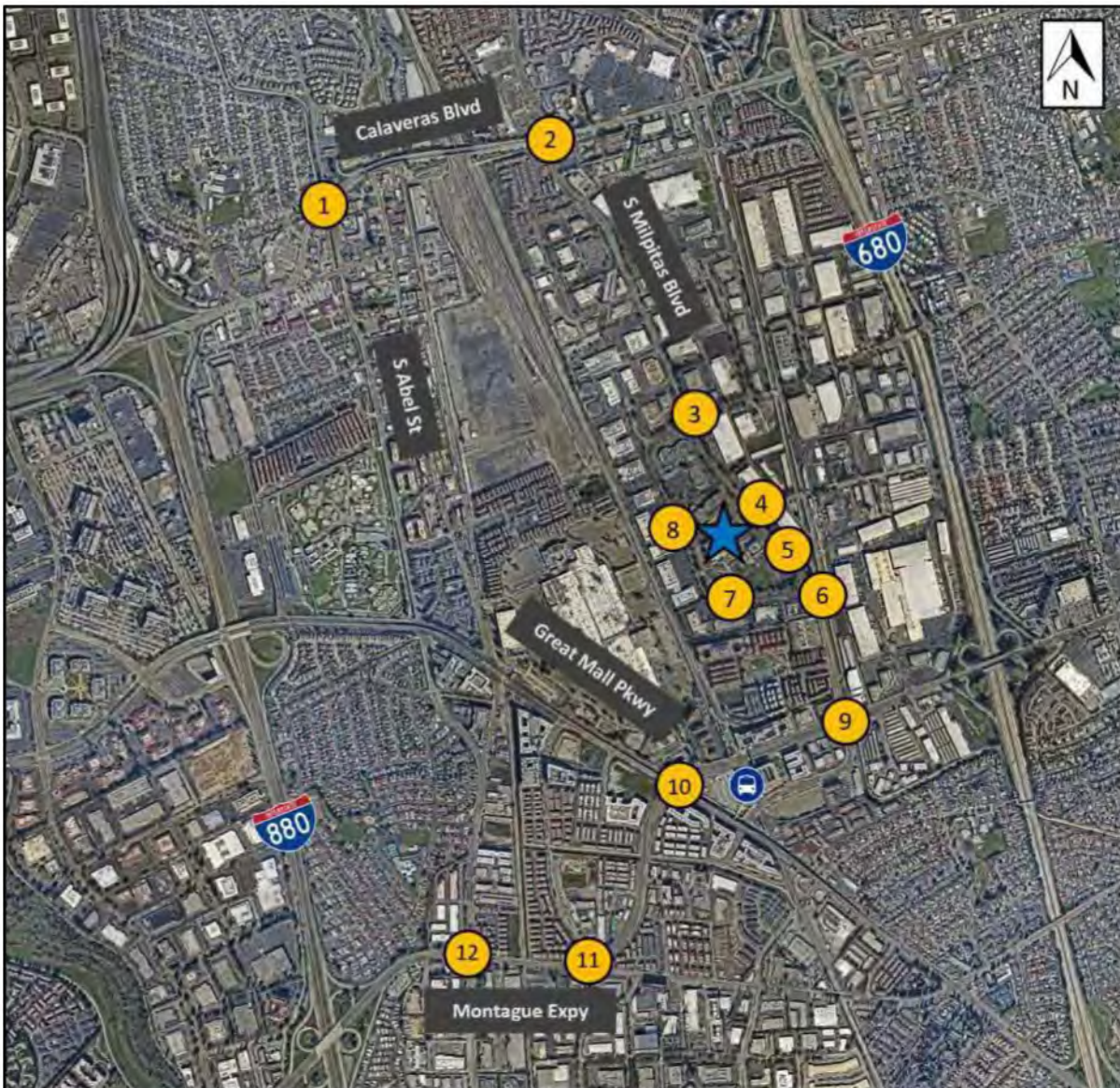
Existing data collection is proposed for the following:

New AM (7-9am) and PM (4-6pm) turning movement counts (TMCs) shall be conducted on Tuesday, Wednesday, or Thursday while schools are in session at the following locations:

1. Abel St & E Calaveras Blvd (CMP Intersection)
2. Milpitas Blvd & E Calaveras Blvd (CMP Intersection)
3. S Milpitas Blvd & Yosemite Dr
4. S Milpitas Blvd & Ames Ave/Project Dwy 1
5. S Milpitas Blvd & Project Dwy 2
6. S Milpitas Blvd & Gibraltar Dr
7. Gibraltar Dr & Project Dwy 3
8. Gibraltar Dr & Project Dwy 4
9. S Milpitas Dr & Montague Expy (CMP Intersection)
10. Great Mall Pkwy/E Capitol Ave & Montague Expy (CMP Intersection)
11. McCandless Dr/Trade Zone Blvd & Montague Expy (CMP Intersection)
12. S Main St/Oakland Rd & Montague Expy (CMP Intersection)

The TMC's shall include classification of vehicles as well as pedestrian/bicycle volumes.

Figure 2. Study Intersections Map



Trip Distribution

The new distribution center will receive merchandise from the regional fulfillment and sort centers located in Oakland and Tracy and deliver it to local customers of the Milpitas metropolitan area. NV5 developed a directional distribution plan to allocate site traffic to the local roadway network. Trip distribution for the 1000 Gibraltar Drive site varies by vehicle type, with cars and trucks following distinct patterns based on the proposed trip schedule and routes designated specific to this location. Figure 3a and 3b illustrate the general distribution patterns for both modes of travel.

The general distribution percentages were developed using the previously approved 1000 Gibraltar Industrial Project Draft LTA (2020) distribution and revised to include the possible delivery locations and specific use of each site driveway. Per Figure 1, delivery trucks are only able to enter the site through Intersection 4 (Project Dwy 1) and exit from Intersection 8 (Project Dwy 4). Based on the driveway configuration, 100% of truck traffic is expected to use S Milpitas Blvd for site entry and exit. Overall, 50% of truck traffic is anticipated to travel to and from the site from the south via I-680, 20% to the north via S Milpitas Blvd and Calaveras Blvd, and 30% to the west via Montague Expy towards I-880. A detailed trip distribution map and expected peak hour truck volumes can be found in Appendix B.

Cars are expected to enter and exit the facility via Intersection 5 (Project Dwy 2), Intersection 7 (Project Dwy 3), and Intersection 8 (Project Dwy 4). Overall, 30% of cars are anticipated to travel to and from the site from the south along S Milpitas Blvd towards I-680, 30% to the north via S Milpitas Blvd and Calaveras Blvd, and 40% to the west via Montague Expy towards I-880. A detailed trip distribution map and expected peak hour truck volumes can be found in Appendix C.

Figure 3a. Trip Distribution Map – Cars

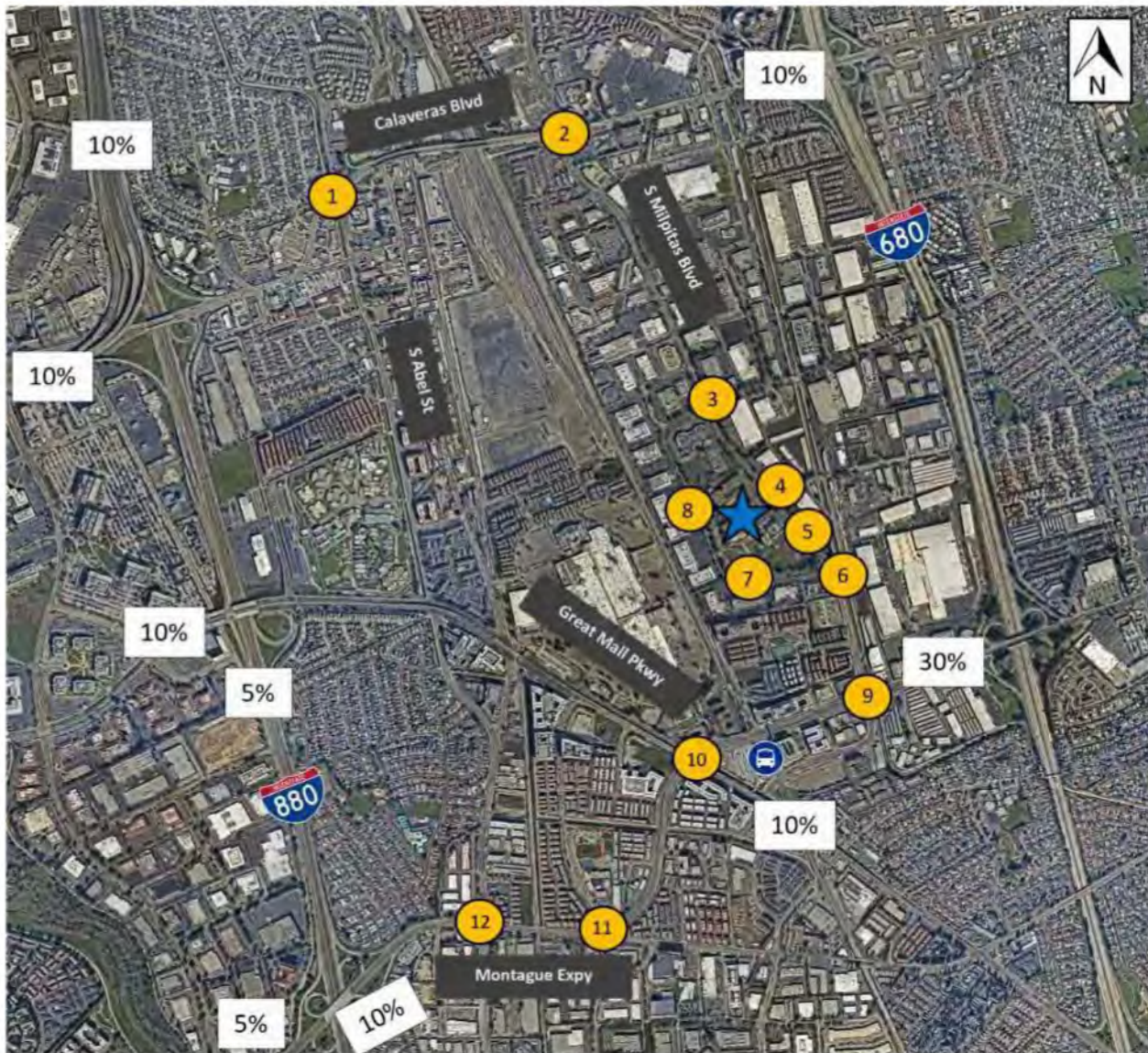
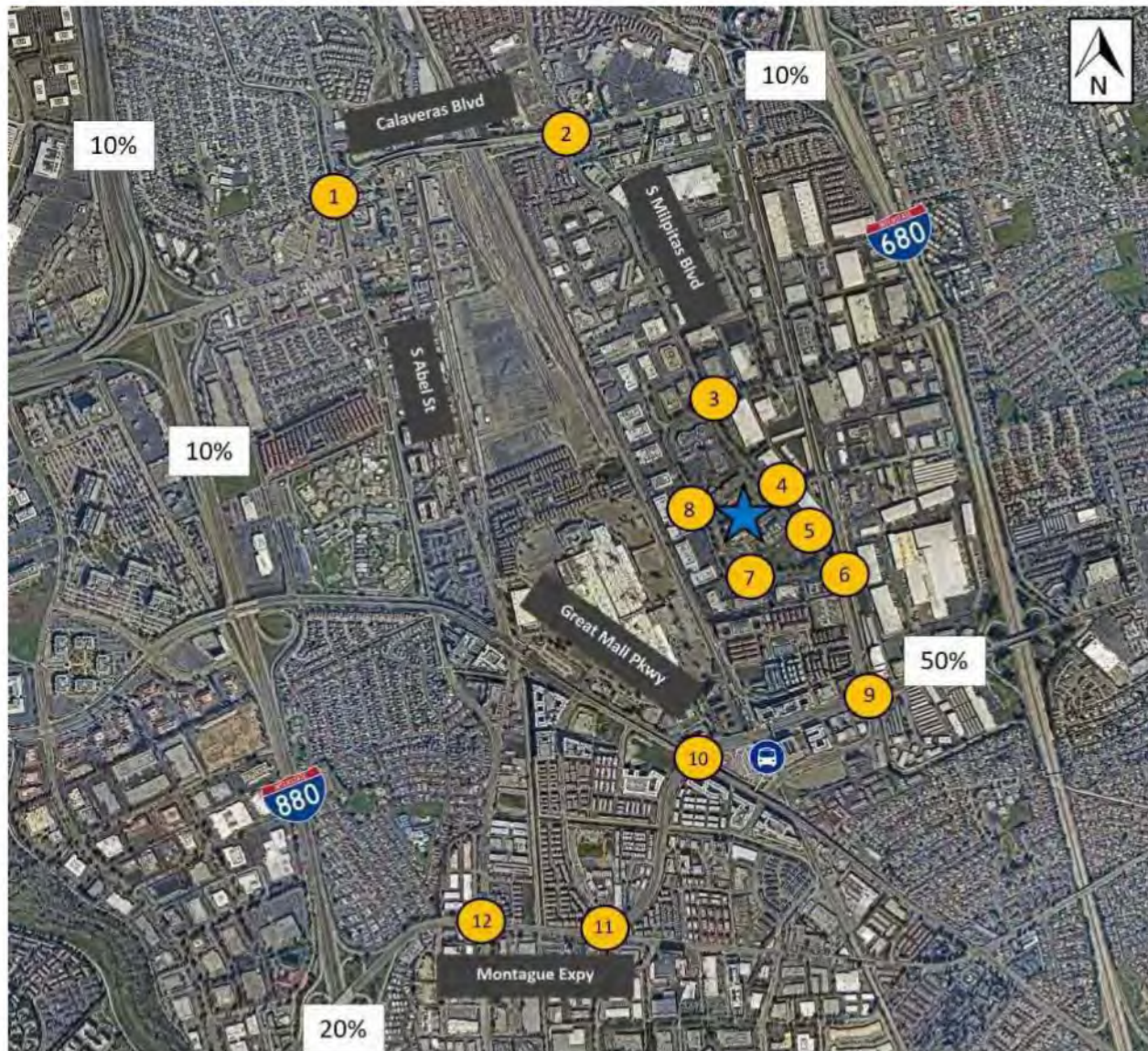


Figure 4b. Trip Distribution Map – Trucks



Intersection Capacity Analysis

The analysis will be conducted using Synchro® 12 and time of day signal plans provided by the City on March 14, 2025. Per the City's direction, the 2040 future volumes will be utilized from the previously completed LTA (2020) for this site. This scope assumes that the LTA will not require the use of the VTA Travel Demand Model.

The following scenarios will be studied:

1. 2025 Existing Conditions
2. 2026 No-Build Conditions
3. 2026 Build Conditions
4. 2040 Future No-Build Conditions
5. 2040 Future Build Conditions
6. 2040 Future Build Conditions with Mitigations

Previous Developments in the Project Vicinity

1. Piper Drive Apartments
2. Centre Point Residential Apartments

Local Transportation Analysis

NV5 will conduct a Local Transportation Analysis (LTA) in accordance with the City's requirements. This LTA is intended to replace the previously approved *Appendix G Traffic Data: Local Transportation Analysis Report (2020)*. The LTA will assess the potential impacts of the proposed project on the key intersections in the project vicinity during the typical weekday AM (7-9 AM) and PM (4-6 PM) commute periods. This study will include performance measures such as intersection delay, Level of Service (LOS) and queuing, and provide a high-level evaluation of impacts to transit, bike, and pedestrian circulations.

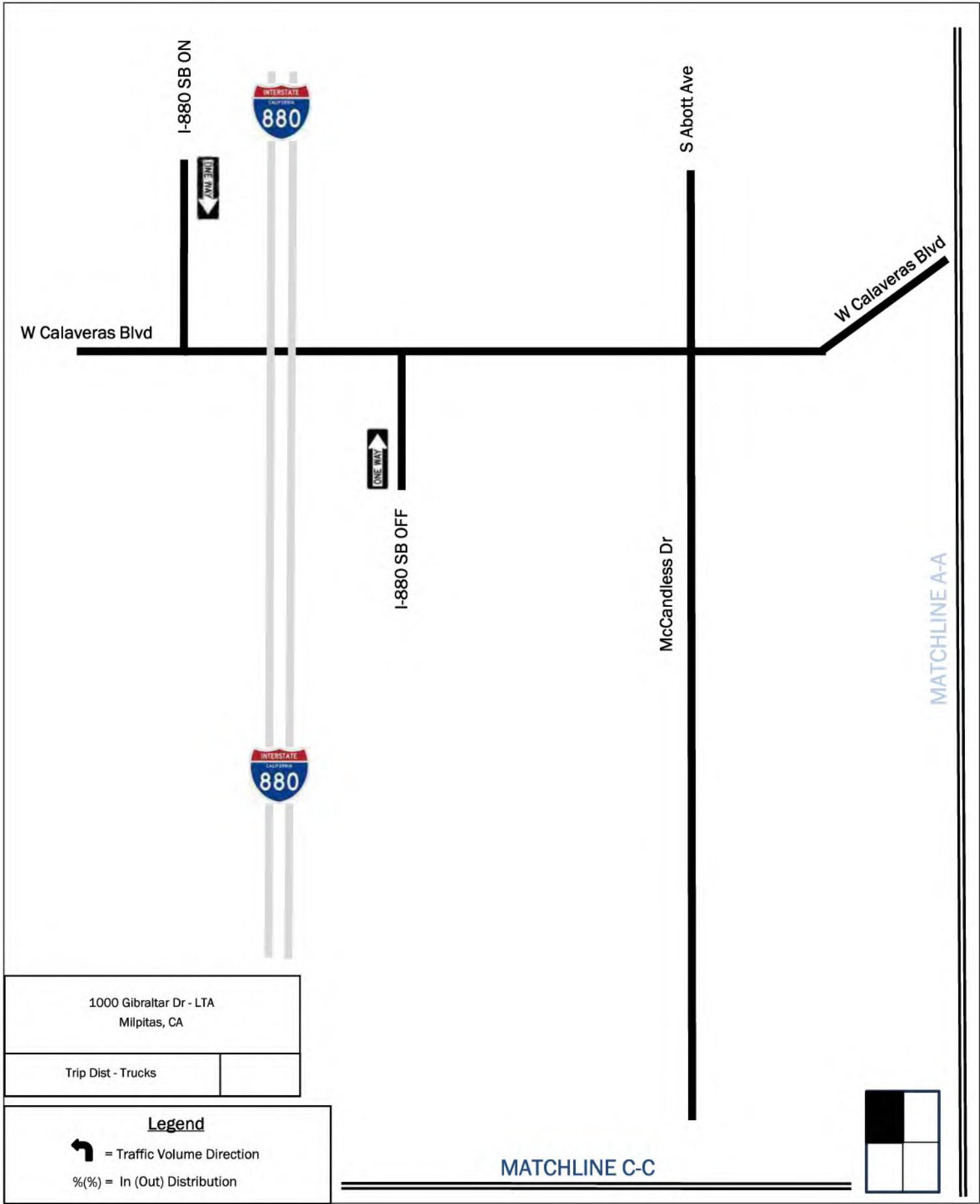
VMT Study

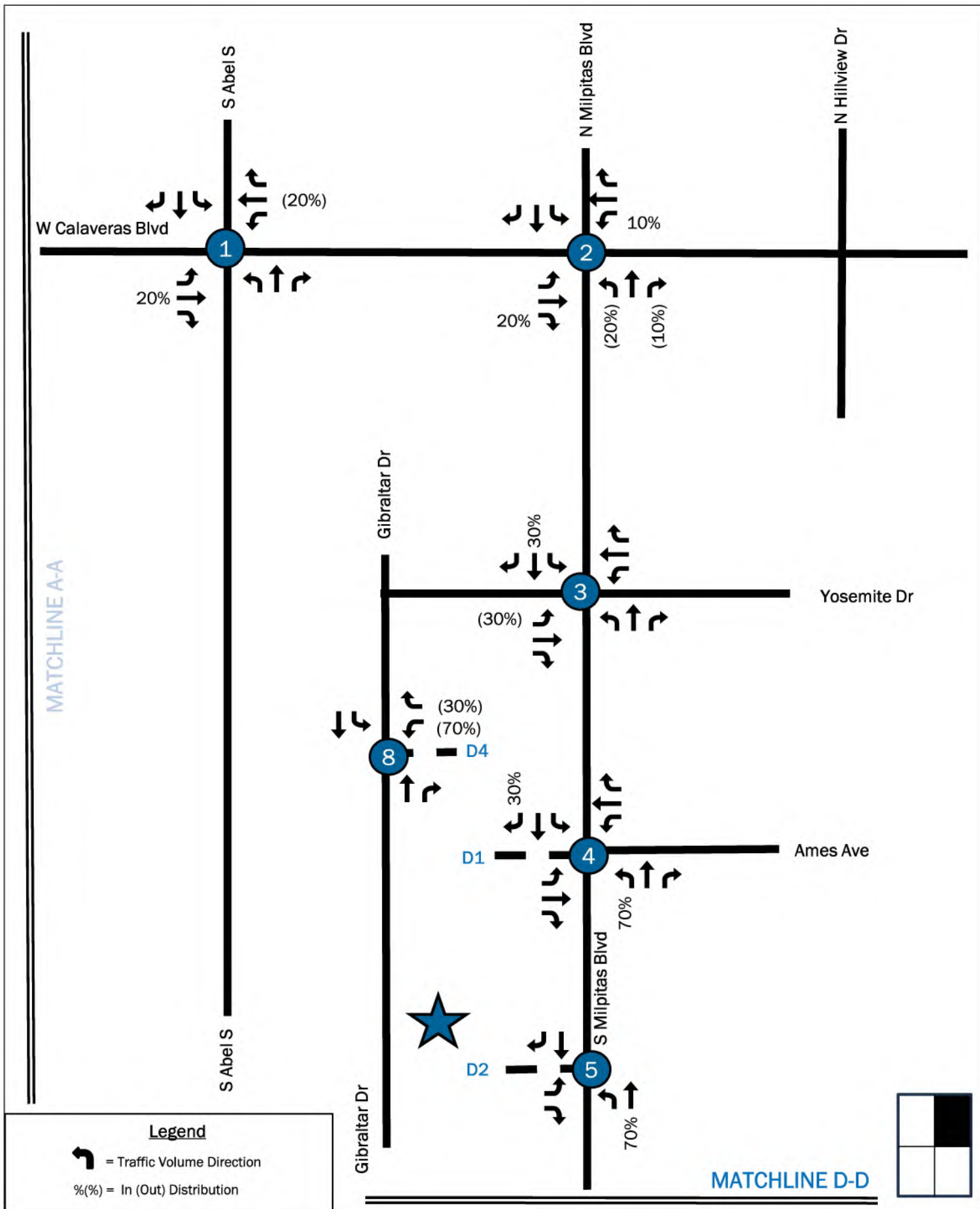
An Environmental Impact Report (EIR) was previously certified for the project site in March 2021 for a similar use—warehouse distribution. Although the proposed project is comparable in size and use, it differs slightly in operational characteristics. As such, the new VMT study is intended to replace the previous *IV Environmental Impact Analysis – E. Transportation* section. A detailed assessment of the project's Vehicle Miles Traveled (VMT) will be conducted using the Santa Clara County (SCC) VMT Evaluation Tool. The updated analysis will not require the use of VTA demand modeling. The VMT report will address the California Environmental Quality Act (CEQA) Guidelines, Appendix G, Section XVII – Transportation, items (a), (b), (c), and (d).

Appendix A – Trip Schedule

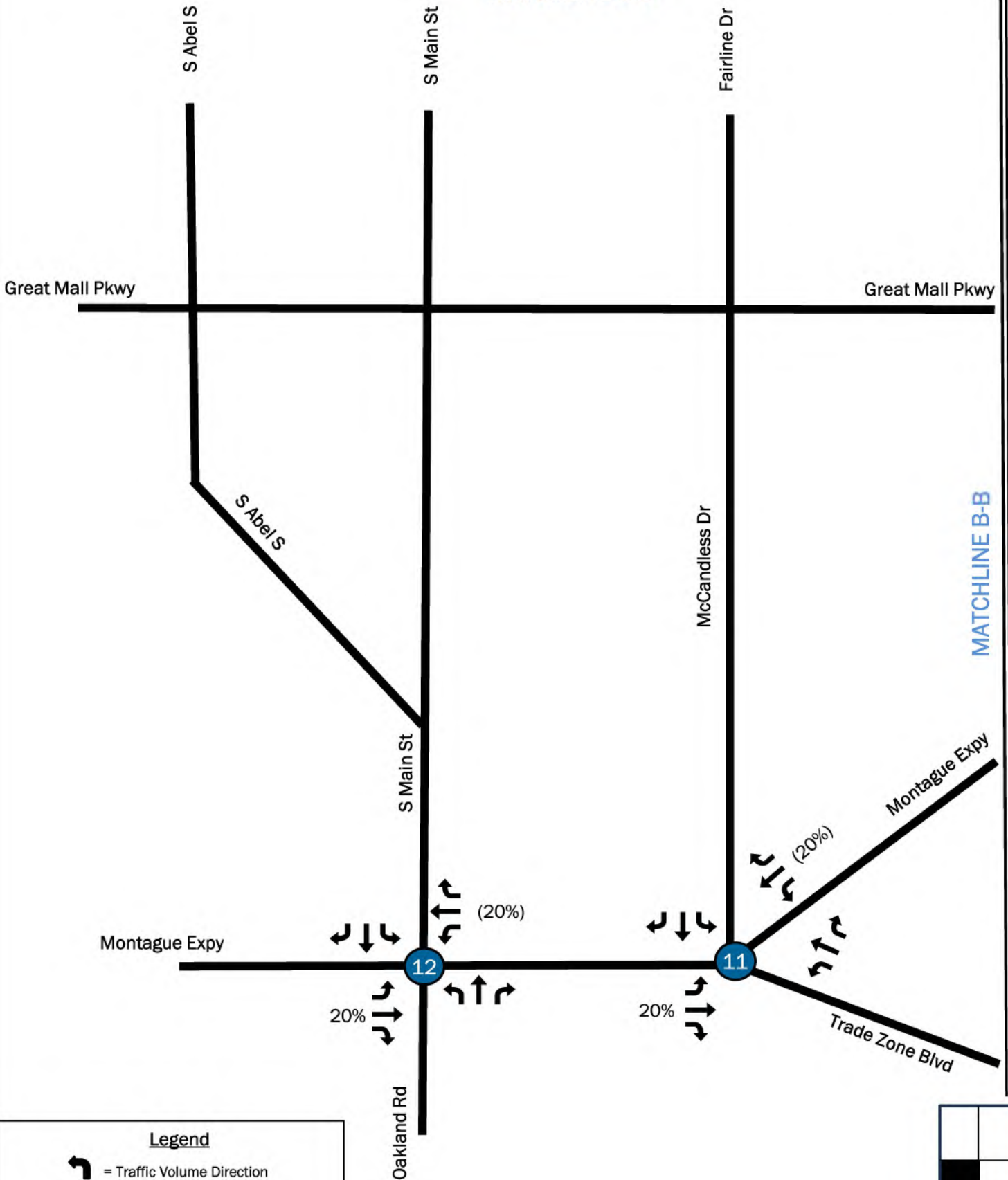
| Total (Adj) | | | |
|----------------------|-------|-------|-------|
| Adjusted Avg Weekday | | | |
| | In | Out | Total |
| 00:00 | 1 | 2 | 3 |
| 01:00 | 64 | 96 | 160 |
| 02:00 | 0 | 0 | 0 |
| 03:00 | 168 | 166 | 335 |
| 04:00 | 166 | 168 | 335 |
| 05:00 | 130 | 130 | 260 |
| 06:00 | 150 | 148 | 297 |
| 07:00 | 131 | 129 | 259 |
| 08:00 | 24 | 26 | 50 |
| 09:00 | 31 | 31 | 62 |
| 10:00 | 58 | 58 | 115 |
| 11:00 | 147 | 168 | 316 |
| 12:00 | 45 | 47 | 92 |
| 13:00 | 77 | 77 | 155 |
| 14:00 | 148 | 148 | 296 |
| 15:00 | 132 | 78 | 210 |
| 16:00 | 56 | 58 | 114 |
| 17:00 | 103 | 102 | 205 |
| 18:00 | 122 | 123 | 244 |
| 19:00 | 55 | 53 | 108 |
| 20:00 | 0 | 97 | 97 |
| 21:00 | 96 | 0 | 96 |
| 22:00 | 0 | 1 | 1 |
| 23:00 | 2 | 0 | 2 |
| | 1,906 | 1,906 | 3,812 |
| Peak Hours | | | |

Appendix B – Truck Trip Distribution and Peak Hour Volumes





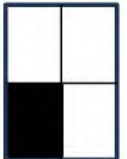
MATCHLINE C-C

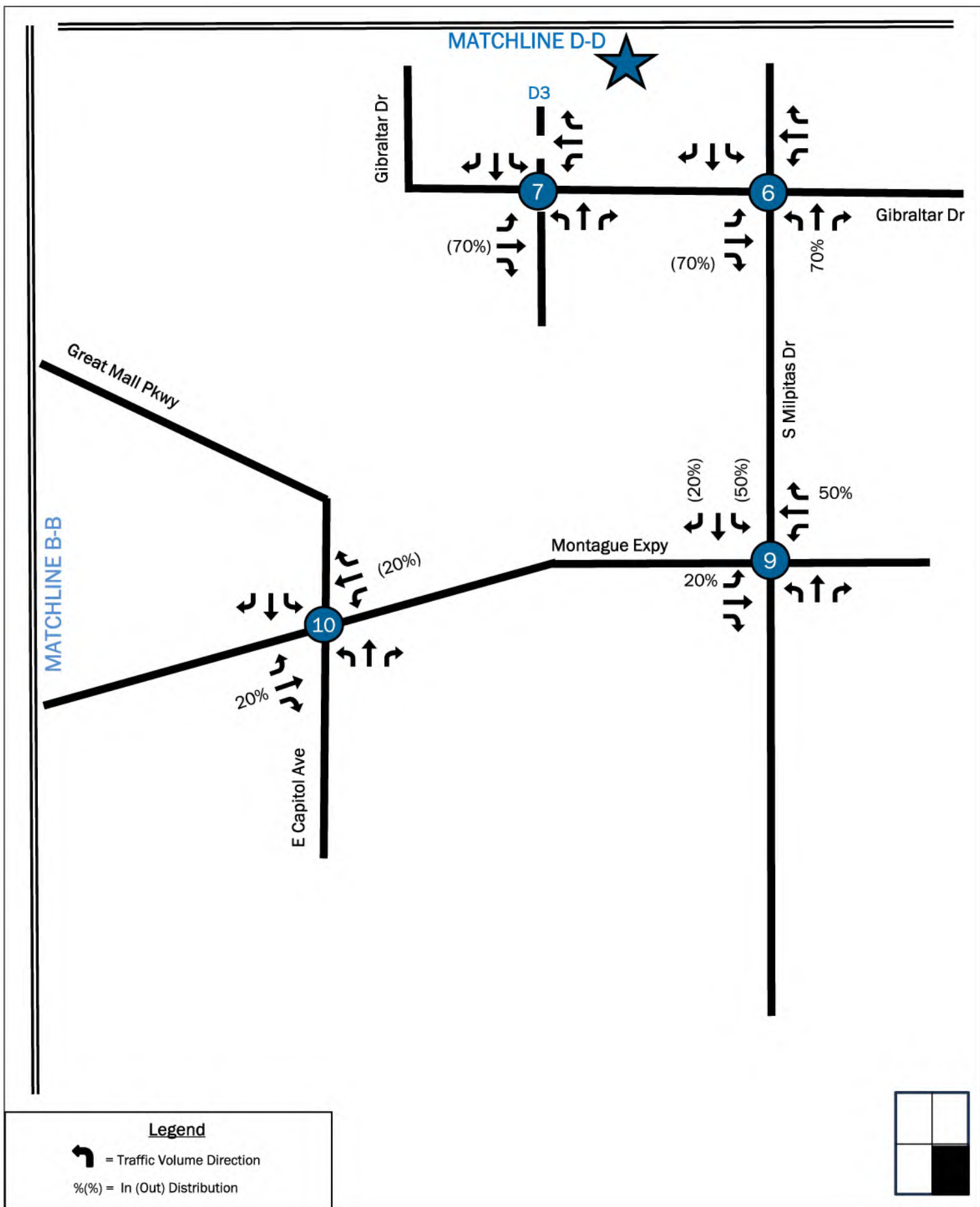


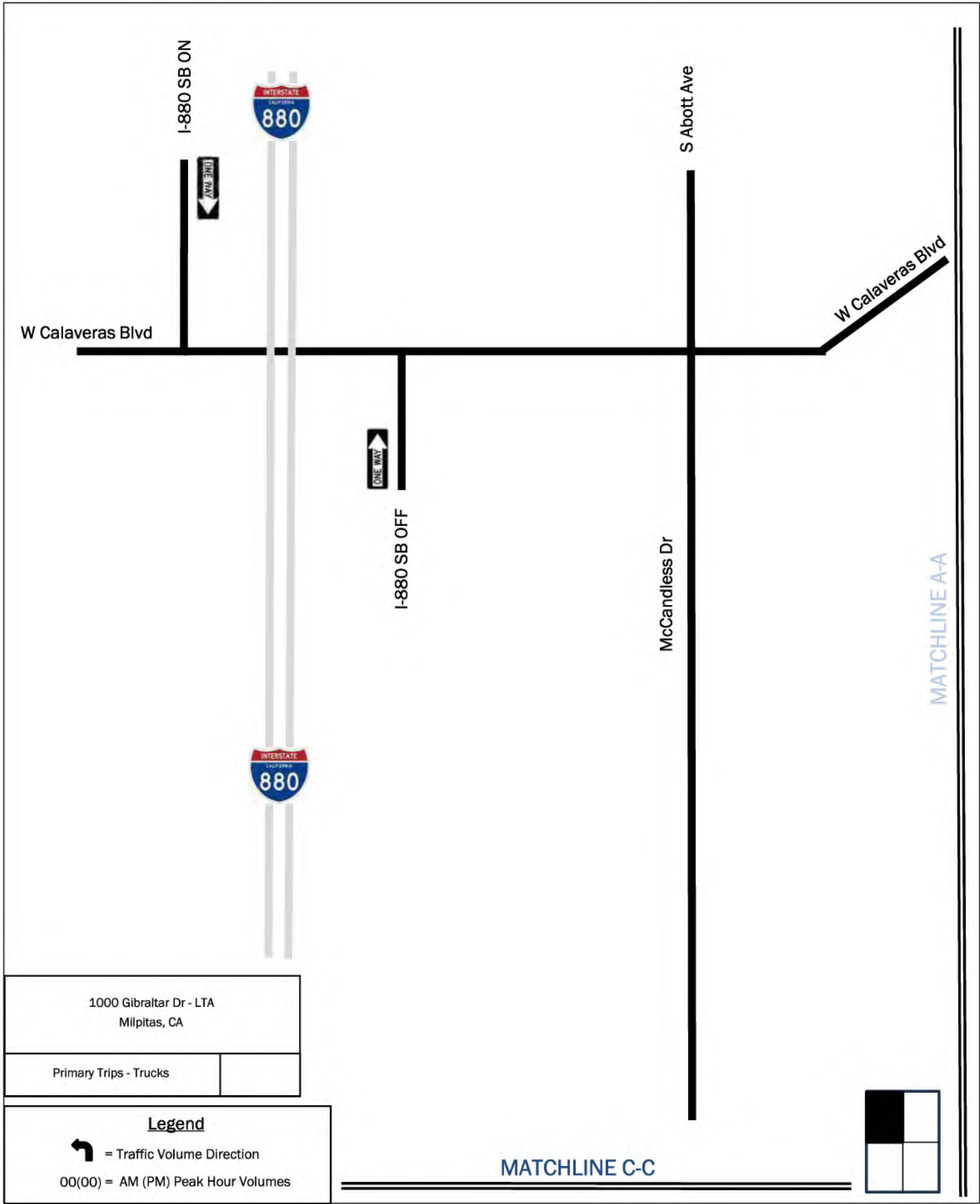
Legend

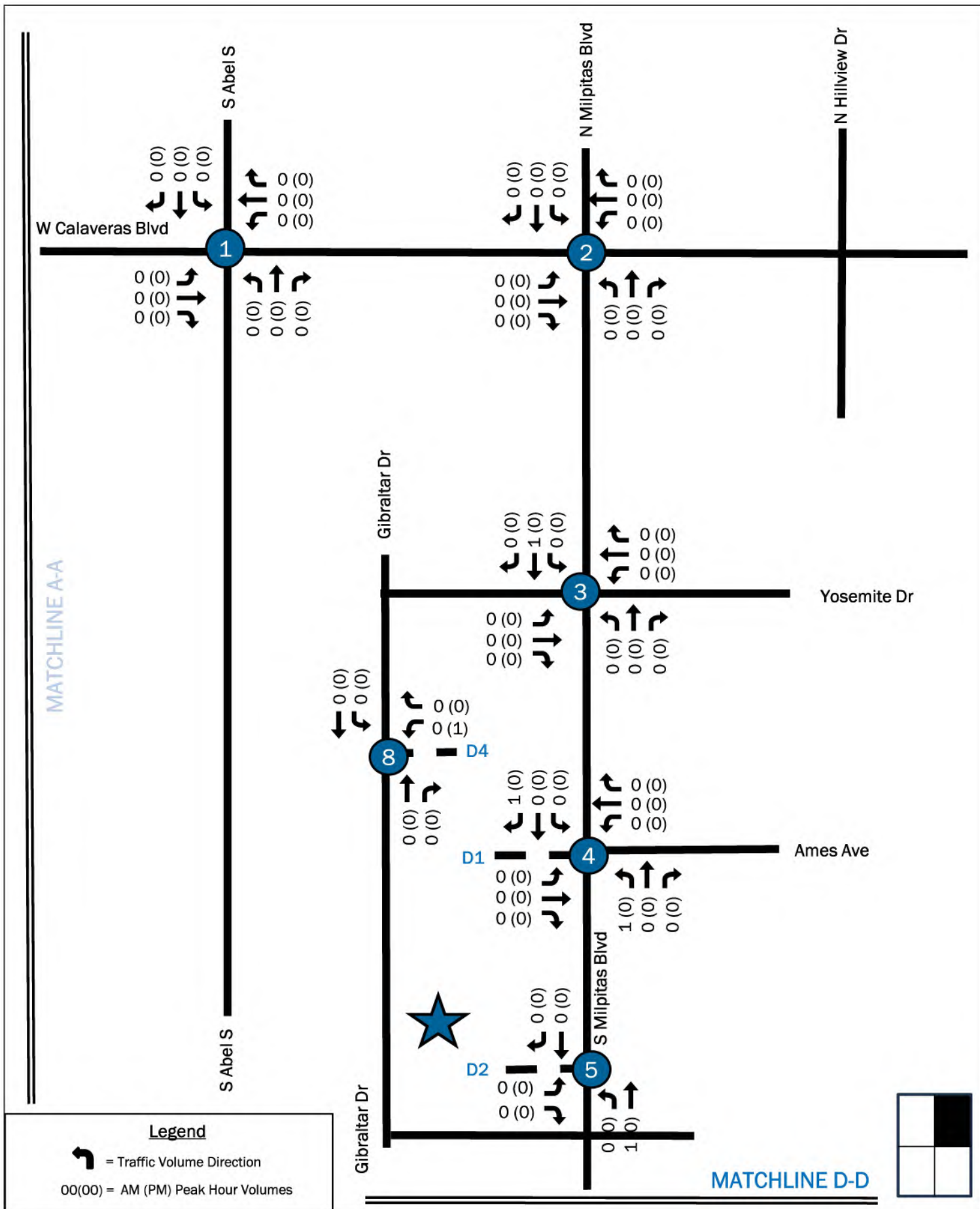
↶ = Traffic Volume Direction

%(%) = In (Out) Distribution

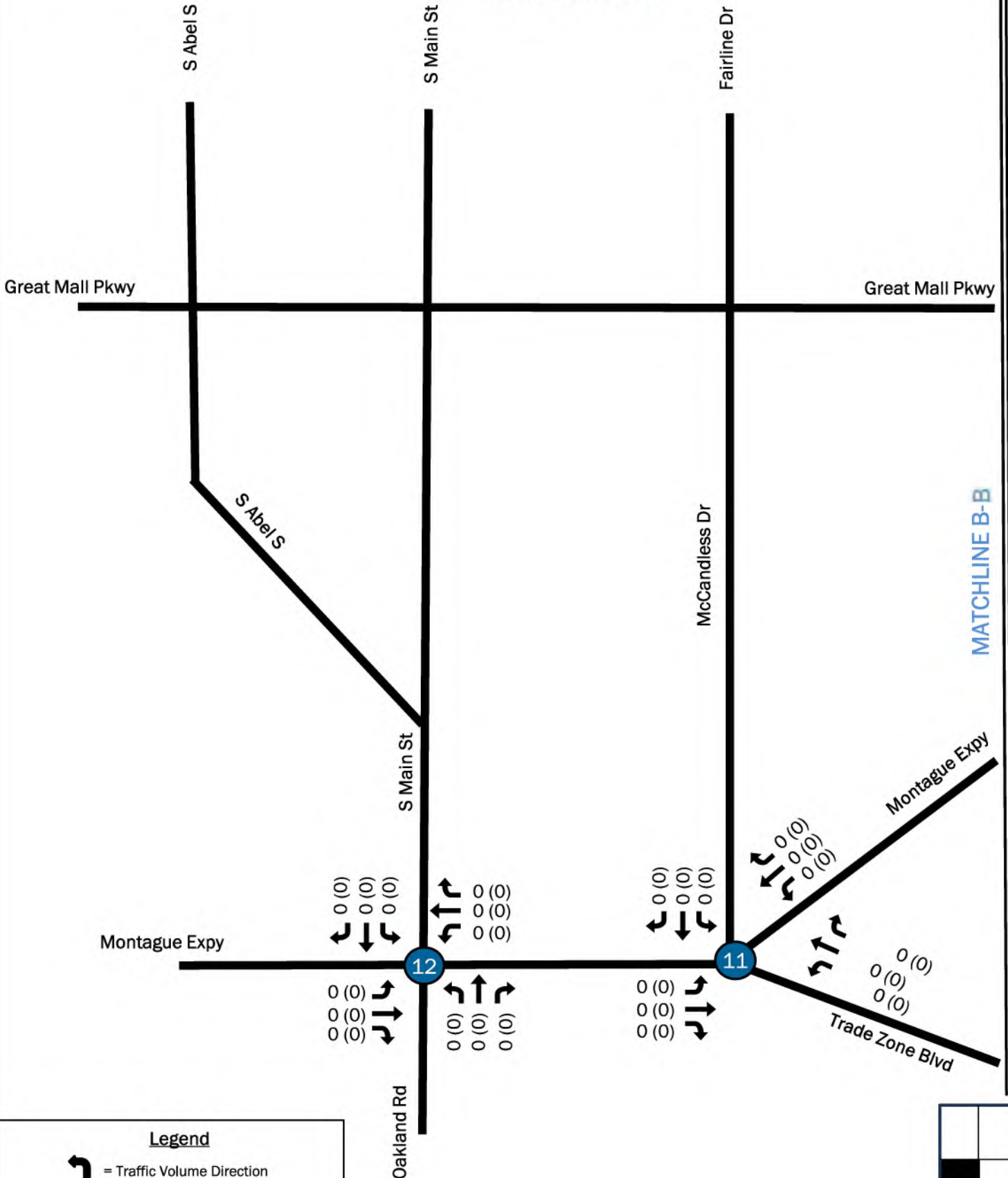








MATCHLINE C-C

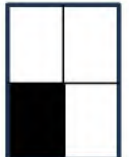


Legend



= Traffic Volume Direction

00(00) = AM (PM) Peak Hour Volumes



MATCHLINE D-D



D3

Gibraltar Dr

0 (0)
0 (0)
0 (0)

7

0 (0)
0 (1)
0 (0)

0 (0)
0 (0)
0 (0)

6

0 (0)
0 (0)
0 (1)

0 (0)
0 (0)
0 (0)

Gibraltar Dr

0 (0)
1 (0)
0 (0)

S Milpitas Dr

0 (0)
0 (0)
0 (1)

9

0 (0)
0 (0)
0 (0)

1 (0)
0 (0)
0 (0)

Montague Expy

0 (0)
0 (0)
0 (0)

E Capitol Ave

0 (0)
0 (0)
0 (0)

10

0 (0)
0 (0)
0 (0)

Great Mall Pkwy

MATCHLINE B-B

Legend



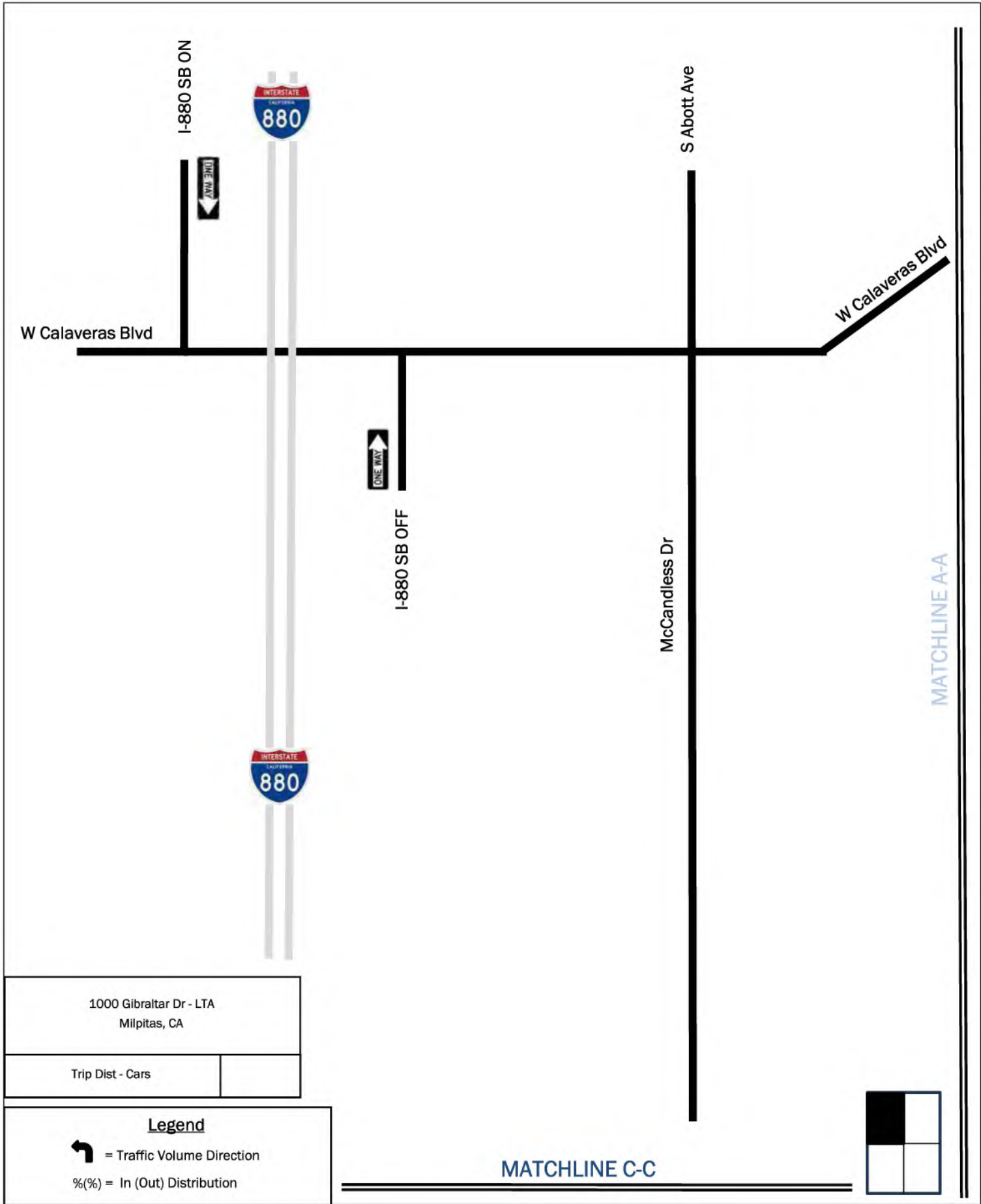
= Traffic Volume Direction

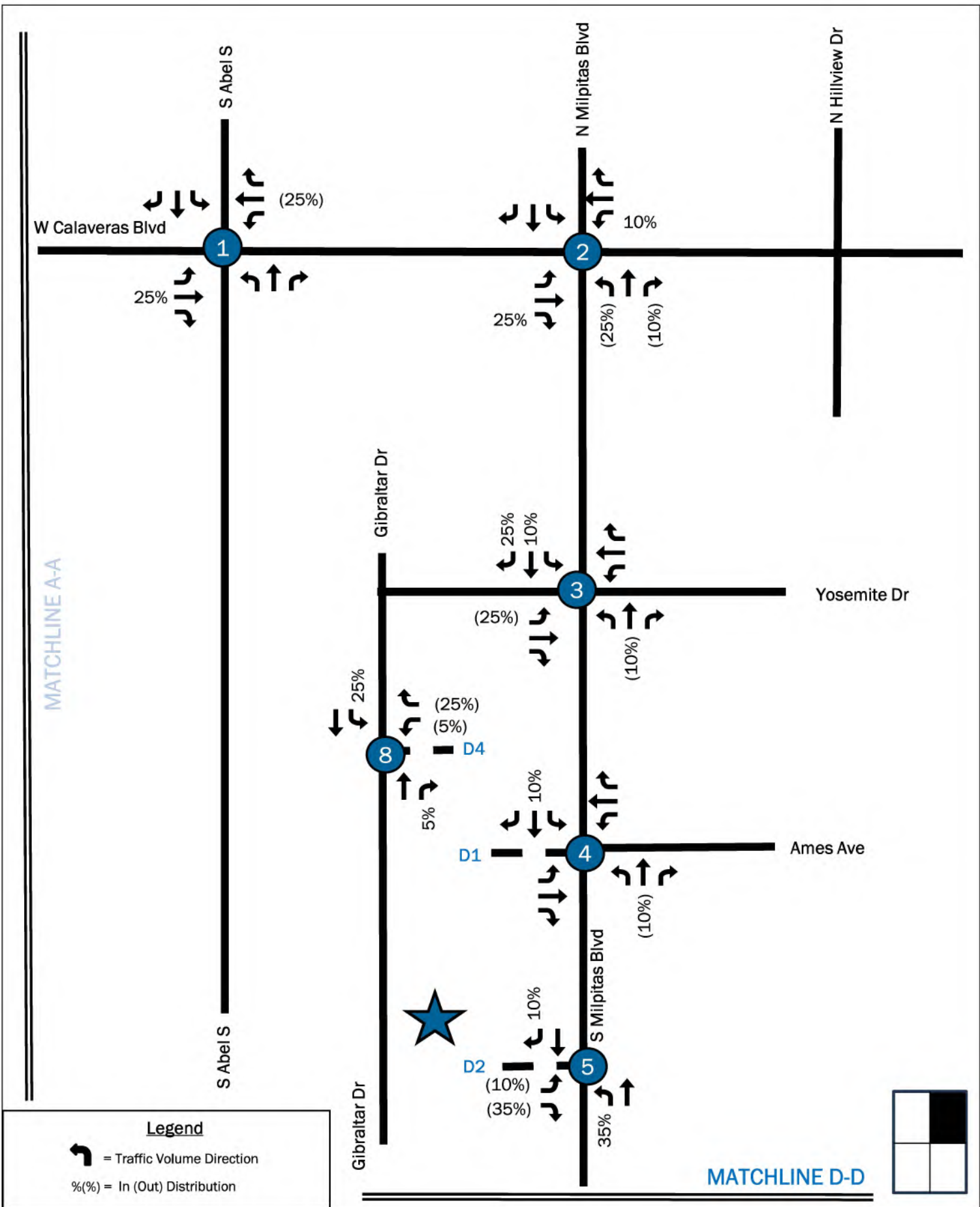
00(00) = AM (PM) Peak Hour Volumes



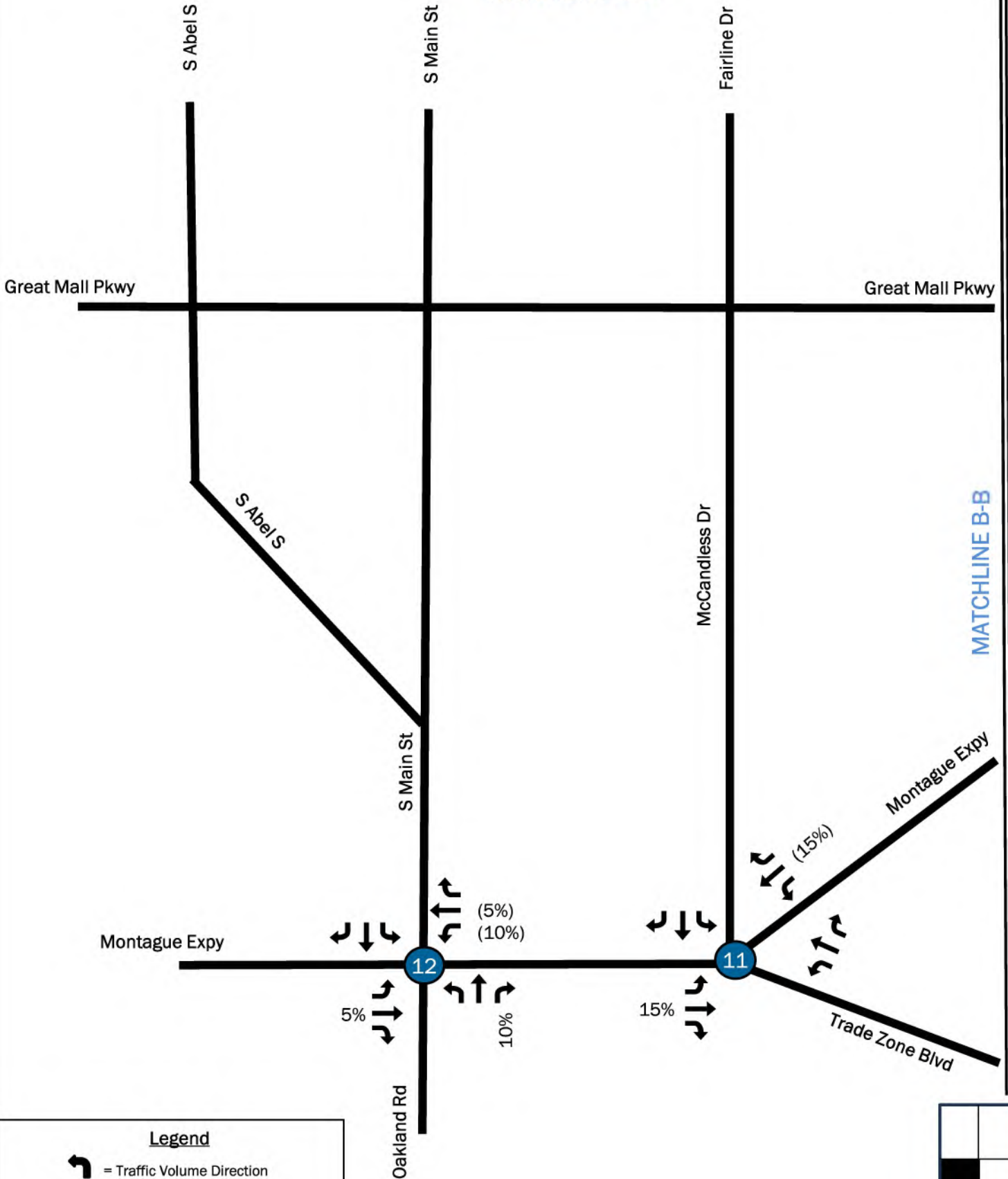
Appendix C – Car Trip Distribution and Peak Hour Volumes



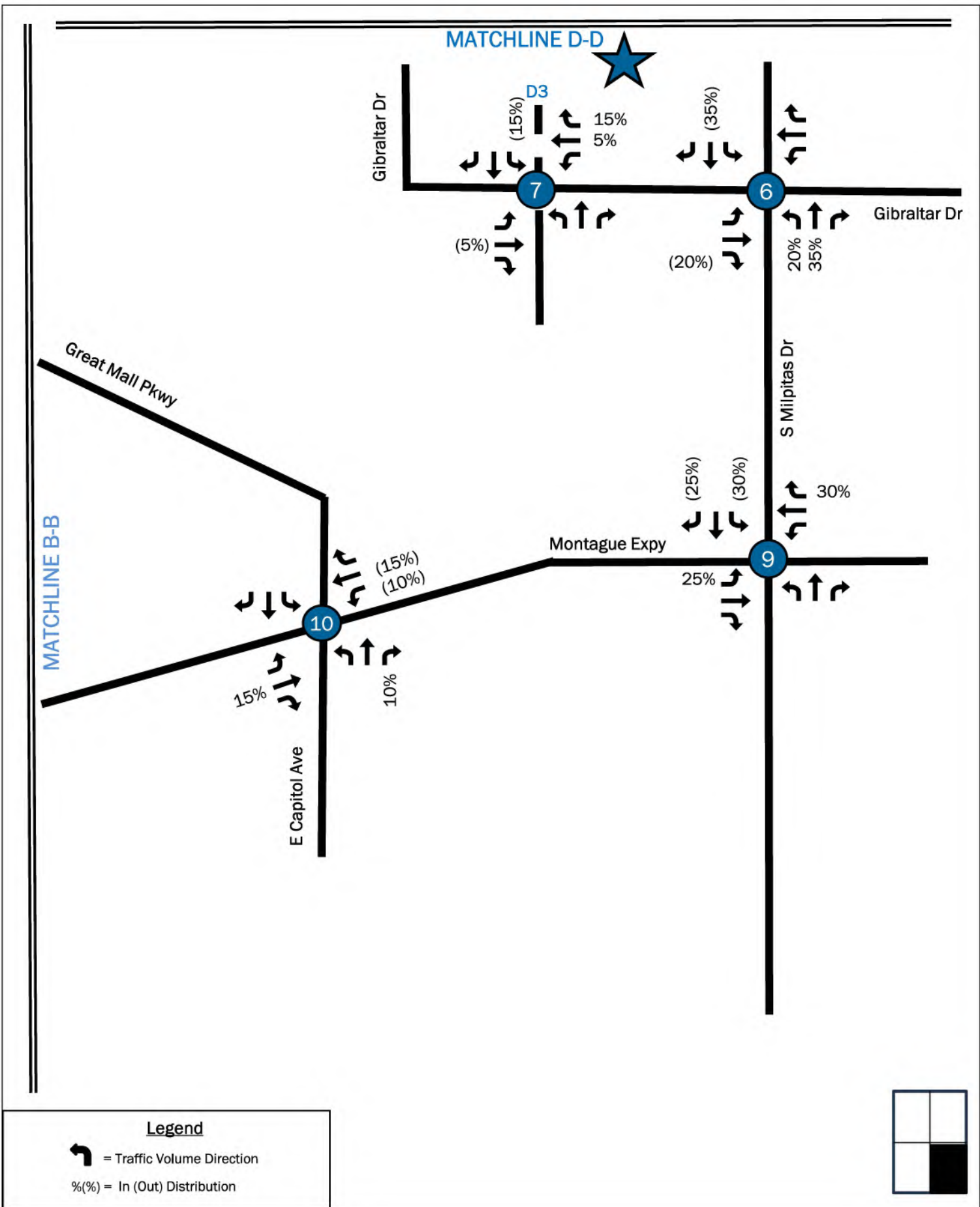


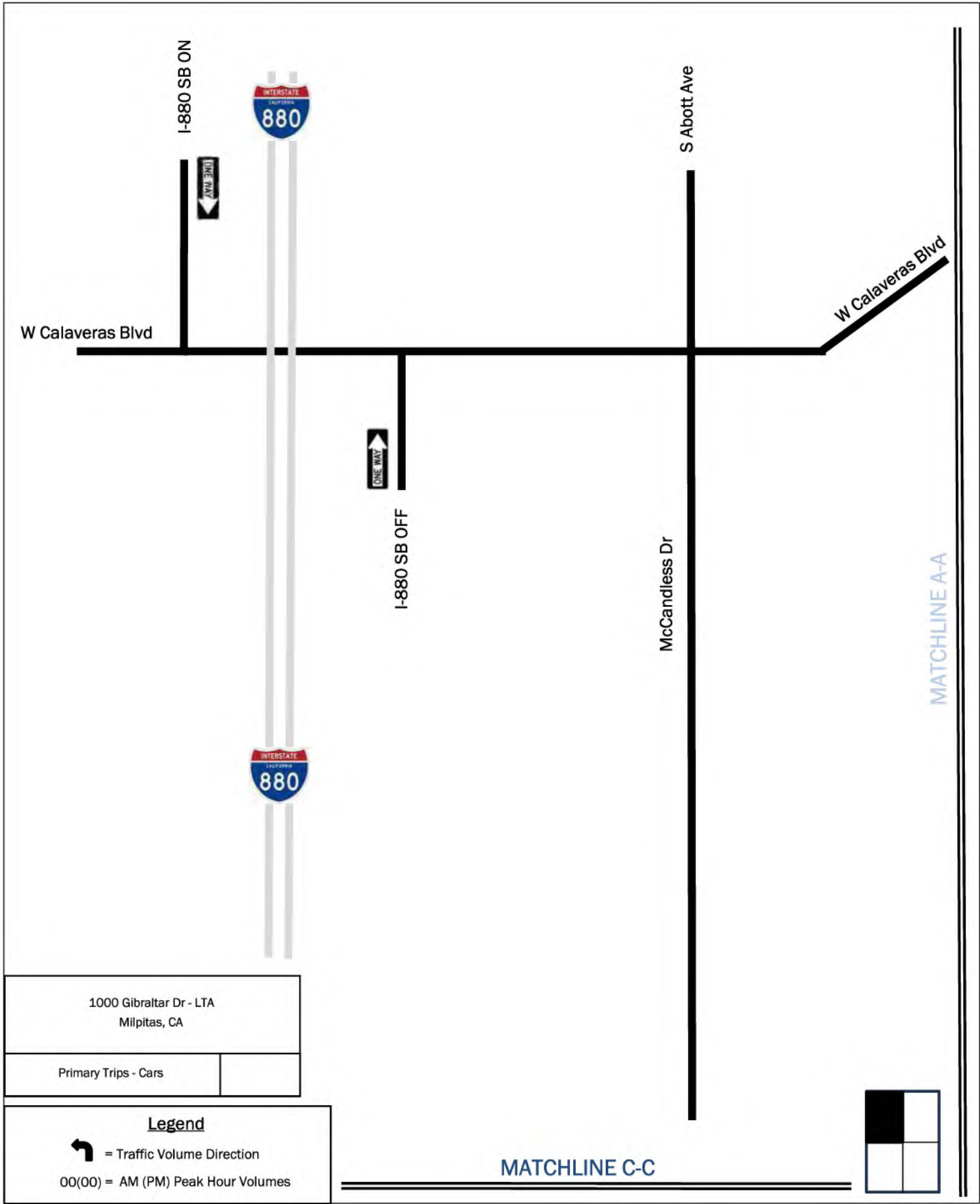


MATCHLINE C-C



MATCHLINE B-B





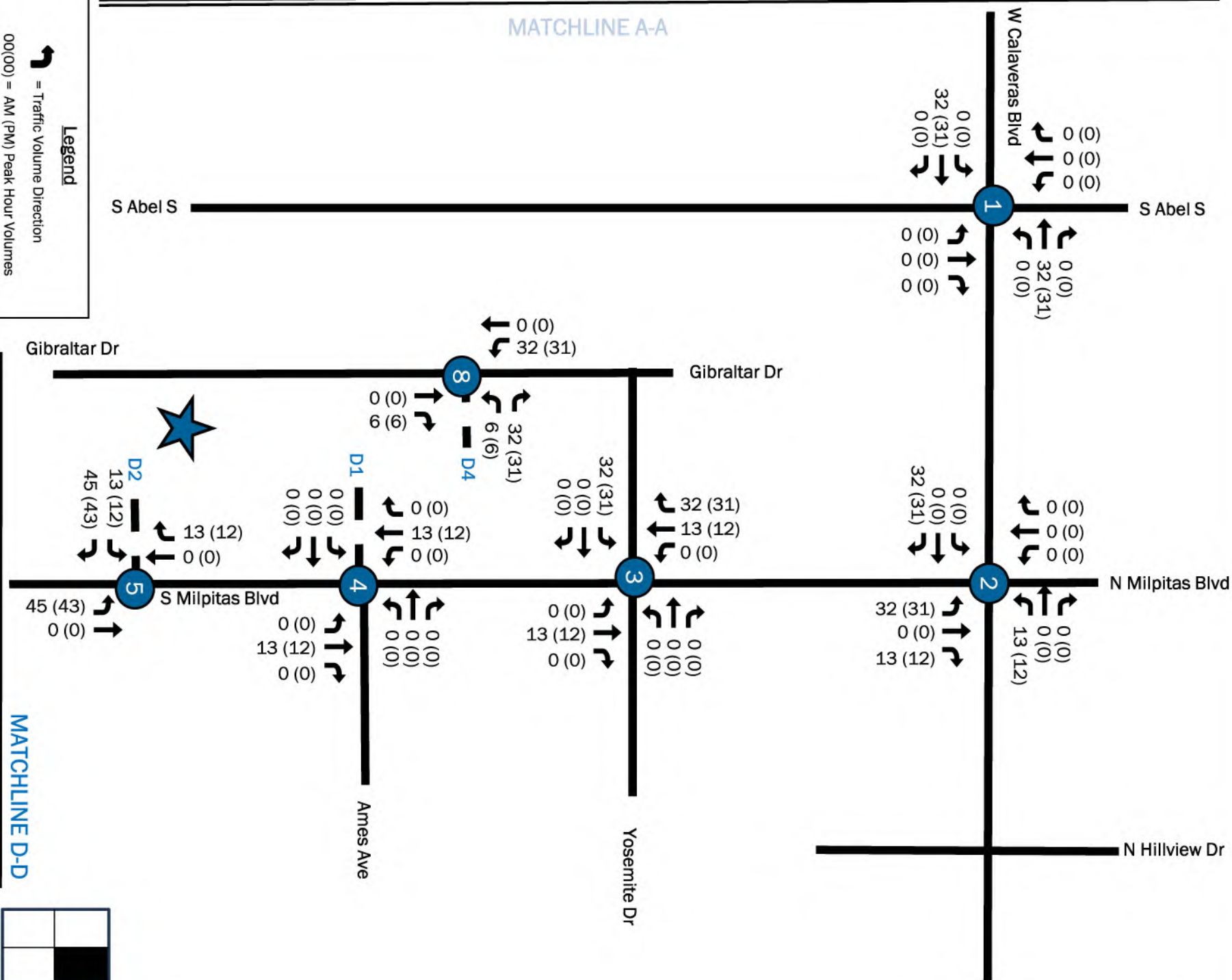
MATCHLINE A-A

Legend

↶ = Traffic Volume Direction

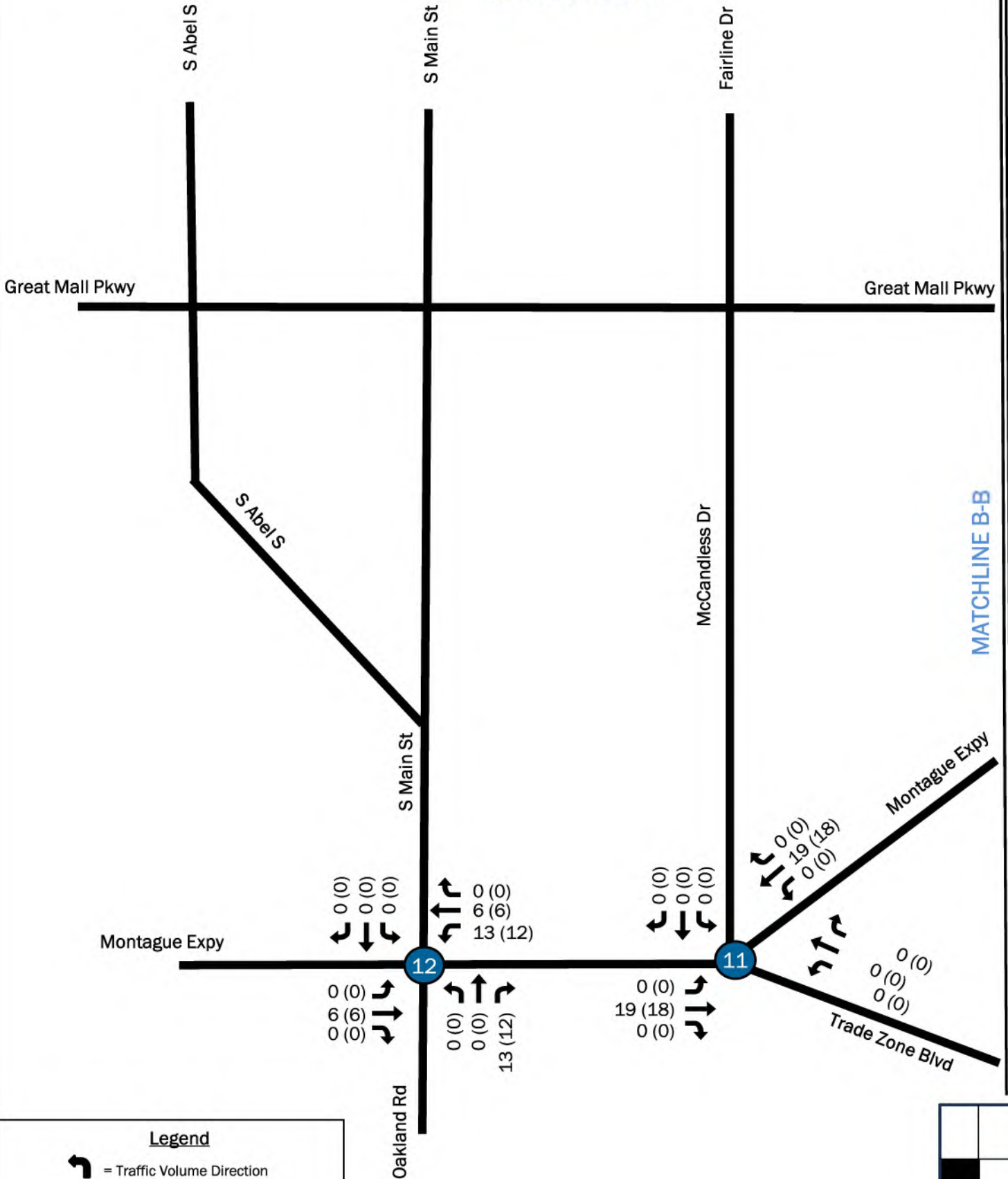
00(00) = AM (PM) Peak Hour Volumes

MATCHLINE D-D



MATCHLINE C-C

MATCHLINE B-B

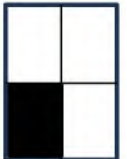


Legend



= Traffic Volume Direction

00(00) = AM (PM) Peak Hour Volumes



MATCHLINE D-D



Gibraltar Dr

0 (0)
0 (0)
19 (18)

D3

19 (18)
6 (6)
0 (0)

0 (0)
0 (0)
45 (43)
0 (0)

0 (0)
0 (0)
0 (0)

7

6

0 (0)
6 (6)
0 (0)

0 (0)
0 (0)
0 (0)

0 (0)
0 (0)
26 (24)

26 (24)
45 (43)
0 (0)

Gibraltar Dr

Great Mall Pkwy

MATCHLINE B-B

0 (0)
0 (0)
0 (0)

0 (0)
19 (18)
13 (12)

10

0 (0)
19 (18)
0 (0)

0 (0)
0 (0)
13 (12)

E Capitol Ave

Montague Expy

32 (31)
0 (0)
39 (37)

9

32 (31)
0 (0)
0 (0)

39 (37)
0 (0)
0 (0)

0 (0)
0 (0)
0 (0)

S Milpitas Dr

Legend



= Traffic Volume Direction

00(00) = AM (PM) Peak Hour Volumes



1000 Gibraltar Drive

15164 Addendum to the 1000 Gibraltar Drive Final EIR

D.2 - Vehicle Miles Traveled Analysis

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VEHICLE MILES TRAVELED (VMT) ANALYSIS FOR

1000 Gibraltar Drive Delivery Center

DATE:

August 15, 2025

LOCATION:

Milpitas, California

PREPARED FOR:

City of Milpitas, CA

WITH:

FCS

PREPARED BY:

NV5 Engineers & Consultants

15092 Avenue of Science, Suite 200

San Diego, CA 92128

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LIST OF ATTACHMENTS

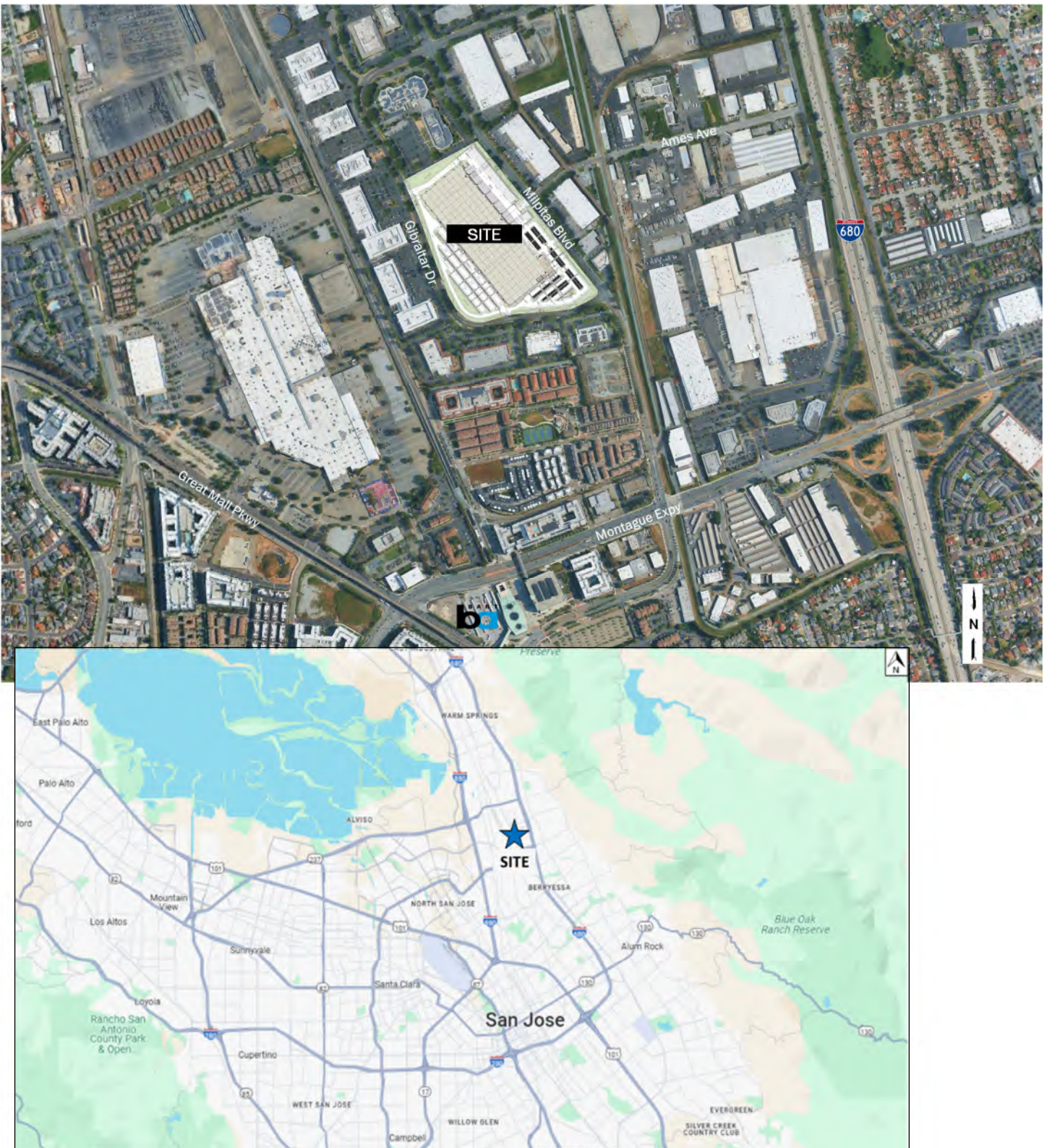
Attachment A – Site Plan
Attachment B – Tenant Supplied Trip Generation Table
Attachment C – VMT Resources

A. Introduction

A new 487,564 square-foot warehouse is planned for construction at 1000 Gibraltar Drive, on what is currently a vacant LifeScan facility, formerly Johnson & Johnson. The project will include demolition of the existing on-site structures. The proposed site (the “Project”) will include a delivery center for the purpose of delivering ecommerce goods to a specific service area. Figure 1 depicts the site location in Milpitas, CA.

To adhere to local and state policies, the following vehicle miles traveled (VMT) study was prepared for the purpose of determining whether the Project may have significant transportation impacts.

Figure 1. Vicinity Map



B. Analysis Guidelines

State Requirements

The California Environmental Quality Act, known as CEQA, was enacted in 1970. In 2013, Governor Brown signed Senate Bill (SB) 743 to better align CEQA with State policies that promote public health, improve air quality, encourage infill development, promote multimodal transportation, and help reduce greenhouse gas emissions to achieve climate action goals.

In December 2018, the Natural Resources Agency certified amendments to the CEQA Guidelines to implement SB 743. Pursuant to the new CEQA Guidelines, as of July 1, 2020, transportation impacts under CEQA are no longer analyzed using LOS and instead use the VMT metric.

Section 15064.3 of the CEQA Guidelines states that “a lead agency has discretion to choose the most appropriate methodology to evaluate a project's vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's vehicle miles traveled and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate vehicle miles traveled and any revisions to model outputs should be documented and explained in the environmental document prepared for the project.”

Local Requirements

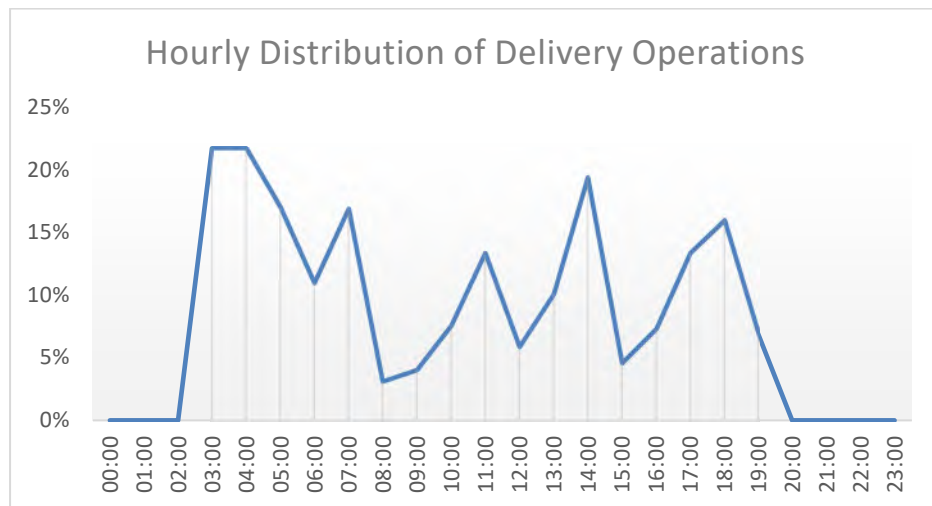
The City of Milpitas adopted a Transportation Analysis Policy in May 2021 that includes VMT analysis for many discretionary development projects. Consistent with CEQA Guidelines Section 15064.7, Thresholds of Significance, the City of Milpitas adopted the Santa Clara Congestion Management Program baseline average and thresholds set at 85% of the citywide baseline averages for determining whether a project's VMT will be significant. The citywide baseline average for VMT per employee is 17.54. The 85% (15% below) citywide baseline average is 14.91 VMT per employee per day. Projects that exceed these thresholds may have a significant effect on the environment and may require project revisions and/or mitigation measures may be implemented to reduce the impact to less than significant.

C. Project Trip Generation

The Project, referred to as a “sub-same day” delivery center, is a specialized warehouse that stores a wide range of everyday consumer goods, enabling delivery of those goods within a 4-5 hour window. Packages are dispatched to customers using private carrier vehicles.

The Project will operate 24/7 to support delivery of packages to customer locations between approximately 3:00 AM and 7:00 PM. The operations are designed to minimize traffic impacts by concentrating most of its morning deliveries between 3:00 AM and 7:30 AM. On-site employees generally work in 4-5 hours shifts beginning at 1:00 AM, 6:00 AM, 11:00 AM, 3:00 PM, and 9:00 PM with exceptions for some managerial staff.

All deliveries are handled via “Flex” drivers, who are independent, private-vehicle carries. Flex drivers generally enter and exit the facility in fifteen minutes intervals; this includes arrival, check-in, loading, and departure. The daily delivery operations will follow a pattern illustrated in the chart below.



At the proposed delivery center, up to 15 line-haul trucks are expected to deliver packages to the delivery center each day. The line-haul trucks arrive at the site between throughout the 24-hour day.

Table 1: Project Trip Generation - Traffic Volume by Vehicle Type

| Traffic | Number of Vehicles | Daily Trips |
|------------------|--------------------|--------------|
| Auto - Employees | 363 | 726 |
| Flex - Commuter | 509 | 1018 |
| Flex - Delivery | 509* | 3054** |
| Line-Haul Trucks | 15 | 30 |
| Total | 1,396 | 4,828 |

*Does not represent new vehicles but are the same vehicles as the Flex-Commuter

**Assumes each driver makes 3 round trips, which over-accounts total daily trips by 1018 since Flex delivery drivers do not normally return to the center at the end of their shift. Therefore, the trip information in Table 1 does not match the trip generation shown in Table 3 of the Location Transportation Analysis (LTA). See Section 4 for more details.

D. Project Level VMT Analysis

Based on the anticipated daily trip generation for the Project, there are three types of vehicle trips:

- Line-haul truck trips
- Employee commute trips
- Personal delivery vehicles (private carrier - Flex) trips

Line-haul Truck Trips

Note: Section 15064.3 of the CEQA Guidelines states that VMT for transportation impacts refers to “... the amount and distance of automobile travel...” Per guidance provided by the California Institute of Transportation Engineers (ITE) SB 743 Task Force (April 2021), SB 743 does not apply to the movement of goods (i.e. trucks). Therefore, line-haul truck trips are not considered in VMT impact calculations.

While not germane to measuring site impacts, line-haul VMT is used in the air quality analysis, and is therefore calculated for inclusion in other studies. Line haul trucks will generally deliver goods to the delivery center from area warehouses. Table 2 shows the estimated VMT for line-haul trips. The likely warehouses that may serve the site include:

- USF1, 750 Laurelwood Rd, Santa Clara, CA 95054 (5 miles from site)
- SJC7, 188 S Mountain House Pkwy, Tracy, CA 95377 (41 miles from site)
- MCE1, 3200 Fulkerth Rd, Turlock, CA 95380 (92 miles from site)

Table 2: Freight Vehicle Miles Travels (VMT) for New Delivery Center

| Traffic | Number | Daily Trips | Average Delivery Miles | Daily VMT |
|------------|--------|-------------|------------------------|-----------|
| Line-Haul* | 15 | 30 | 46 | 1,380 |

*Not used in site VMT calculations; included for air quality analysis

The total VMT for the site is the sum of the different vehicle types (except line-haul trucks). The methodology and assumptions for determining the VMT for each vehicle type other than line-haul trucks are provided below. The below analysis provides both the Project generated VMT (per vehicle type and total), as well as the Project’s effect on VMT. The Project’s effect on VMT is analyzed through determining changes to VMT by locating delivery operations closer to customers to reduce overall miles traveled.

Commuter Trips

The analysis assumes that employees (onsite workers) will live within a reasonable commuting distance of the site and follow the same trends as other industrial workers that are now employed

within the same area. The Santa Clara Countywide VMT Evaluation Tool – Version 2.1 was used to determine the employee-level VMT for the Project. The model estimates the commute distance for industrial employees who will work at the site is 16.42 vehicle-miles per day.

$$\text{Employee_Commute_VMT} = (\text{Number of Employees} * \text{Average Employee VMT})$$

$$\text{Employee_Commute_VMT} = 363 * 16.42 = 5,960 \text{ vehicle miles per day.}$$

Delivery Trips

There are two trips associated with delivery operations. The first is the commute trips by the drivers. For the purposes of this specific analysis, this is assumed to be home-based trips much like the on-site employees. Flex drivers will often complete three (3) round trips in a day, which would, on average require 509 drivers in a day to cover all deliveries.

$$\text{Flex_Commute_VMT} = (\text{Number of Daily Drivers} * \text{Average Employee VMT})$$

$$\text{Flex_Commute_VMT} \text{ is } 509 * 16.42 = 8,358 \text{ vehicle miles per day}$$

The second type of trip is the delivery of packages to customers. The Tenant delivers packages to zones much like the U.S. Postal Service (the “USPS”), except that the routes the Flex carriers take vary by day and are optimized for the most efficient movement. The analysis estimates the VMT for delivery vehicles (via GIS) by finding the distance from the site to the furthest point within the delivery zone and multiplying by the number of vehicles bound for those zones. The furthest point within the zone is assumed to account for circuitous travel as packages are dropped off throughout a route. (Note: not every Flex vehicle will travel to the furthest point within a zone but the analysis makes that conservative assumption). The total number of private carrier delivery vehicles is shown in Table 1.

Some of the customers from the new delivery center (i.e. the Project) are currently being served by an existing delivery center. The analysis accounts for the shifting of business from two other similar delivery centers: SCA2 - 3745 Bayshore Blvd, Brisbane, CA 94005 and SCA3 - 6045 Giant Hwy, Richmond, CA 94806. Not all of the zip codes that the new site will deliver to are currently being served by the other two centers; some are new and represent an expected expansion of business. For confidential and business proprietary reasons, the locations and number of deliveries to those locations cannot be identified here. However, the percentage of trips to [redacted] zip codes before and after the new site opens is shown in Appendix C.

The private carrier drivers at these types of delivery centers will often return after their first delivery and make additional runs until the end of their day when they will not return to the center. Since the private carriers leave the site and then return, the VMT to the delivery location would be doubled to account for the return trip. In daily practice, the drivers do not normally return to the delivery center after their last delivery; however, since there is no way to account for their trip pattern after at the end of their shift, the analysis assumes they return to the center and then commute home. This likely over estimates the daily VMT but it presents a more conservative analysis.

The delivery VMT is calculated as such:

$$\text{Delivery_VMT}_{\text{EX}} = \sum (\text{Existing Flex Trips to Zip Code} * \text{Dist. To Zip Code} * 2)$$

$$\text{Delivery_VMT}_{\text{FU}} = \sum (\text{Future Flex Trips to Zip Code} * \text{Dist. To Zip Code} * 2) - \text{Delivery_VMT}_{\text{EX}}$$

The $\text{Delivery_VMT}_{\text{EX}}$ to/from the two existing delivery centers and 46 zip codes they collectively serve is 49,185 per day. The $\text{Delivery_VMT}_{\text{FU}}$ to/from the new delivery center in Milpitas and 118 zip codes is 34,151. After locating a new delivery center closer to the user's customers, as well as serving an expanded geographic area, there will be 15,034 less VMT per day than there is currently. The calculations are shown in Appendix C.

The Total Flex VMT would be calculated as follows:

$$\text{Flex_VMT} = \text{Flex_Commute_VMT} + \text{Delivery_VMT}_{\text{FU}}$$

$$\text{Flex_VMT} = 8,358 + -15,034 = -6,676$$

Total Site VMT

The future total VMT for the site, including employee trips, is calculated as follows:

$$\text{Total_VMT} = \text{Employee_Commute_VMT} + \text{Flex_Commute_VMT} + \text{Delivery_VMT}_{\text{FU}}$$

$$\text{Total_VMT} = 5,960 + 8,358 + (15,034) = -716$$

$$\text{VMT/person} = \text{Total_VMT} / \sum (\text{All Commuters and Flex Drivers})$$

The per capita VMT is -716 divided by 1,381 personnel or -0.52 per person, per day. The VMT calculation results are shown in Table 3.

Table 3: Project VMT Results

| Traffic | Personnel | Daily Trips | VMT per Day | VMT per Person per Day |
|---------------------------|--------------|--------------|-------------|------------------------|
| On-site Commute Trips | 363 | 726 | 5,960 | 16.42 |
| Flex Driver Commute Trips | 509 | 1018 | 8,358 | 16.42 |
| Delivery Trips | 509 | 3054 | -15,034 | -0.79 |
| Total | 1,381 | 4,798 | -716 | -0.52 |

VMT Thresholds

As mentioned, employment generating projects (commercial, industrial, manufacturing, etc.) are required to generate less than 14.91 VMT per employee per day. The results show that the proposed Project's VMT is less than the targeted Citywide VMT, resulting in a less than significant impact on VMT. See Table 4.

Table 4: VMT Significance

| Description | Project VMT per Capita per Day | City of Milpitas Threshold | Compared to Threshold | Impact Significance |
|----------------|--------------------------------|----------------------------|-----------------------|------------------------------|
| Commuter Trips | 16.42 | 14.91 | 10% higher | Potentially Significant |
| Delivery Trips | -0.79 | 14.91 | 100% lower | Less than Significant |
| TOTAL | -0.52 | 14.91 | 100% lower | Less than Significant |

E. Mitigation

The VMT for the delivery center can be viewed in three parts:

1. On-site employees who commute to the site (Employee_Commute_VMT)
2. Flex delivery drivers commuting to the site; drivers must use their own vehicles to make deliveries (Flex_Commute_VMT)
3. VMT associated with the delivery of goods and packages to the customer (Delivery_VMT).

The on-site commuter VMT is fairly low at 16.42 per person per day and is due to the relatively close proximity of the workforce expected for industrial uses in Milpitas. While the number is higher than the citywide desired threshold of 14.91, it is still less than the citywide average VMT of 17.54. The potentially feasible mitigation measures to reduce commuter VMT is using transportation demand management (TDM) techniques such as increased bicycle use, carpooling, vanpooling, or transit use for those on-site employees.

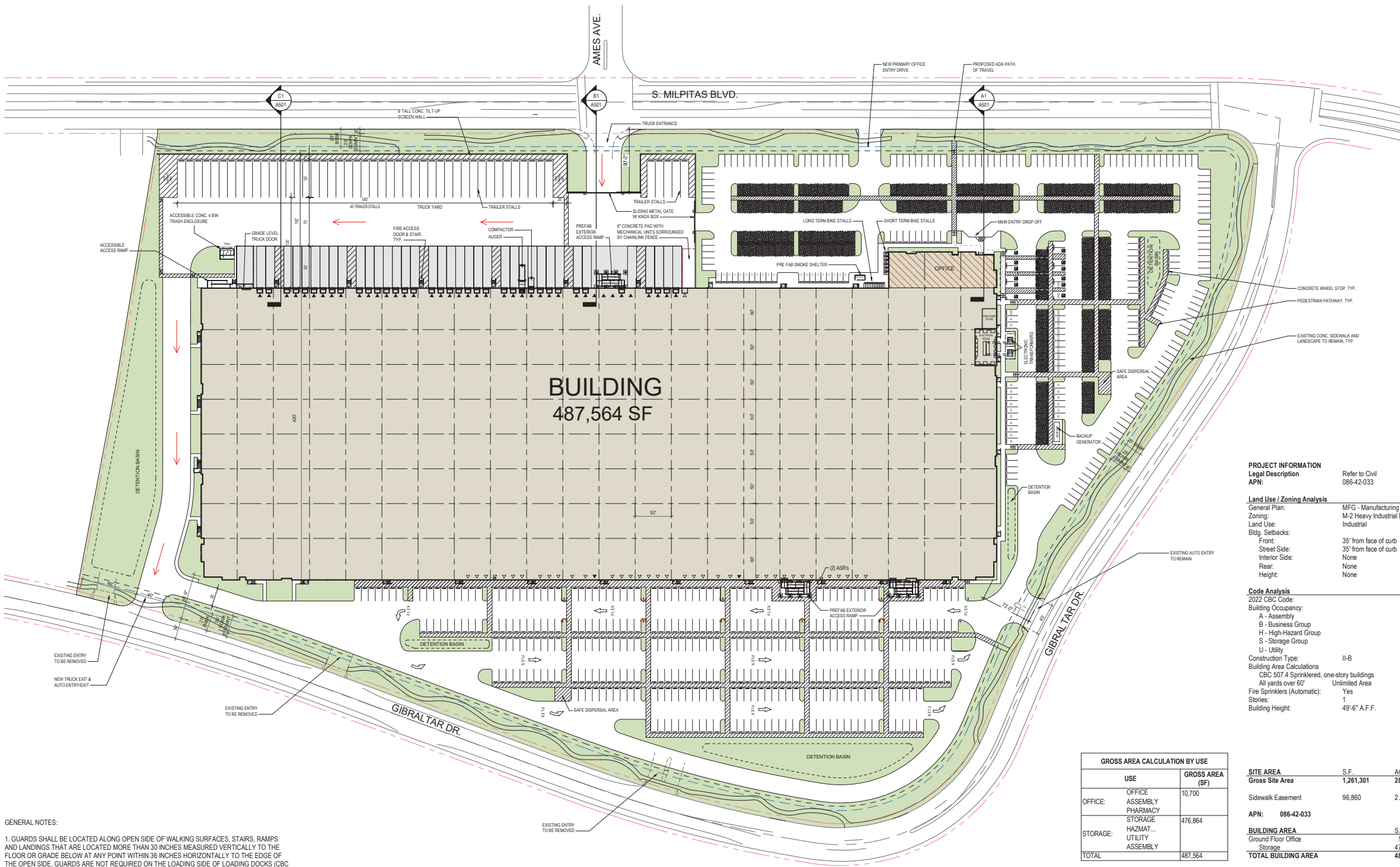
For this project, TDM techniques are more likely to be effective for those drivers who work shifts during the day. The 6:00 AM, 11:00 AM, and 3:00 PM shift workers would have the opportunity to take transit or would be candidates for carpooling programs or alternative modes of travels. This represents 204 of the 363 on-site employees. If 20% of those employees arrived by transit or carpooled with someone else, that would equate to a commuter VMT of 14.57 per day, which is under the Citywide significance level. To accomplish this reduction, the Tenant should consider the following TDM measures:

- Carpool matching programs
- Transit passes
- Guaranteed rides home

Transit is readily available in the area with VTA, BART, and Milpitas Microtransit as options. The #217 bus departs the Milpitas Transit Center every 30 minutes and has a stop on Milpitas Blvd near the site.

There are no feasible mitigation measures to reduce delivery operations VMT. This VMT could only be reduced by reducing delivery service, which would defeat the primary purpose of the Project.

Attachment A – Site Plan



GENERAL NOTES:

- GUARDS SHALL BE LOCATED ALONG OPEN SIDE OF WALKING SURFACES, STAIRS, RAMPS AND LANDINGS THAT ARE LOCATED MORE THAN 30 INCHES MEASURED VERTICALLY TO THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36 INCHES HORIZONTALLY TO THE EDGE OF THE OPEN SIDE. GUARDS ARE NOT REQUIRED ON THE LOADING SIDE OF LOADING DOCKS (CBC 1013.2)
- THE RUNNING SLOPE OF WALKING SURFACE SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48 (2.083%).
- THE CLEAR WIDTH FOR SIDEWALKS AND WALKSHALL BE 48 INCHES MINIMUM.
- THE WASTE STORAGE AREA SHALL BE GRADED SO THAT STORAGE CONTAINERS REMAIN AT REST WITHOUT AUXILIARY RESTRAINING DEVICES.

| GROSS AREA CALCULATION BY USE | |
|--|-----------------|
| USE | GROSS AREA (SF) |
| OFFICE: OFFICE ASSEMBLY PHARMACY STORAGE | 10,700 |
| STORAGE: HAZMAT... UTILITY ASSEMBLY | 476,864 |
| TOTAL | 487,564 |

| LEGEND | |
|--|--|
| DOCK DOORS 9' x 10' | |
| KNOCK-OUT PANELS | |
| PROPERTY LINE | |
| BUILDING SETBACK | |
| SIDEWALK ESMT | |
| PEDESTRIAN CIRCULATION | |
| PERMEABLE PAVEMENT | |
| TRUCK TRAFFIC FLOW | |
| ACCESSIBLE PATH OF TRAVEL | |
| REFER TO SHEET A102 FOR FIRE ACCESS PLAN | |

| PROJECT INFORMATION | |
|--|-------------------------------|
| Legal Description | Refer to Civil |
| APN: | 086-42-033 |
| Land Use / Zoning Analysis | |
| General Plan: | MFG - Manufacturing |
| Zoning: | M-2 Heavy Industrial District |
| Land Use: | Industrial |
| Bldg. Setbacks: | |
| Front: | 35' from face of curb |
| Street Side: | 35' from face of curb |
| Interior Side: | None |
| Rear: | None |
| Height: | None |
| Code Analysis | |
| 2022 CBC Code: | |
| Building Occupancy: | |
| A - Assembly | |
| B - Business Group | |
| H - High-Hazard Group | |
| S - Storage Group | |
| U - Utility | |
| Construction Type: | II-B |
| Building Area Calculations | |
| CBC 507.4 Sprinklered, one-story buildings | |
| All yards over 60' | Unlimited Area |
| Fire Sprinklers (Automatic): | Yes |
| Stories: | 1 |
| Building Height: | 49'-6" A.F.F. |

| SITE AREA | S.F. | ACRES |
|---|-----------|-------|
| Gross Site Area | 1,261,301 | 28.96 |
| Sidewalk Easement | 96,860 | 2.22 |
| APN: 086-42-033 | | |
| BUILDING AREA | S.F. | |
| Ground Floor Office | 10,700 | |
| Storage | 476,864 | |
| TOTAL BUILDING AREA | 487,564 | |
| COVERAGE | | |
| Gross FAR (1.0 Max) | 38.7% | |
| | .387 | |
| PARKING REQUIRED | | |
| Office | 1/350 | 31 |
| Warehouse/Distribution | 1/1500 | 318 |
| TOTAL PARKING REQUIRED | | 349 |
| PARKING PROVIDED | | |
| Associate Parking (9'x18') | | 410 |
| Accessible Parking (9'x18') | 2% | 16 |
| Compact Stalls (7.5'x15') | 3% | 20 |
| EV Ready Stalls (20% of total) | 90 | - |
| EVOS (25% of EV) | 23 | - |
| Flex Parking (10'x20') | | 335 |
| TOTAL PARKING PROVIDED | | 781 |
| PARKING RATIO | | |
| Dock Doors (9'x10') | | 25 |
| Knock Out Panels (9'x10') | | 54 |
| Grade Level Doors (12'x14') | | 1 |
| Trailer Stalls (12'x55') | | 63 |
| Bicycle Stalls Short Term | 2.5% | 12 |
| Bicycle Stalls Long Term | 2.5% | 12 |
| LANDSCAPE Required front yard area and street side yard areas shall be landscaped | | |

| Revision | |
|----------|------------------------|
| 1 | Initial Design |
| 2 | Final Design |
| 3 | Construction Documents |
| 4 | As-Built |
| 5 | Final As-Built |
| 6 | Final As-Built |
| 7 | Final As-Built |
| 8 | Final As-Built |
| 9 | Final As-Built |
| 10 | Final As-Built |
| 11 | Final As-Built |
| 12 | Final As-Built |
| 13 | Final As-Built |
| 14 | Final As-Built |
| 15 | Final As-Built |
| 16 | Final As-Built |
| 17 | Final As-Built |
| 18 | Final As-Built |
| 19 | Final As-Built |
| 20 | Final As-Built |
| 21 | Final As-Built |
| 22 | Final As-Built |
| 23 | Final As-Built |
| 24 | Final As-Built |
| 25 | Final As-Built |
| 26 | Final As-Built |
| 27 | Final As-Built |
| 28 | Final As-Built |
| 29 | Final As-Built |
| 30 | Final As-Built |
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| 33 | Final As-Built |
| 34 | Final As-Built |
| 35 | Final As-Built |
| 36 | Final As-Built |
| 37 | Final As-Built |
| 38 | Final As-Built |
| 39 | Final As-Built |
| 40 | Final As-Built |
| 41 | Final As-Built |
| 42 | Final As-Built |
| 43 | Final As-Built |
| 44 | Final As-Built |
| 45 | Final As-Built |
| 46 | Final As-Built |
| 47 | Final As-Built |
| 48 | Final As-Built |
| 49 | Final As-Built |
| 50 | Final As-Built |
| 51 | Final As-Built |
| 52 | Final As-Built |
| 53 | Final As-Built |
| 54 | Final As-Built |
| 55 | Final As-Built |
| 56 | Final As-Built |
| 57 | Final As-Built |
| 58 | Final As-Built |
| 59 | Final As-Built |
| 60 | Final As-Built |
| 61 | Final As-Built |
| 62 | Final As-Built |
| 63 | Final As-Built |
| 64 | Final As-Built |
| 65 | Final As-Built |
| 66 | Final As-Built |
| 67 | Final As-Built |
| 68 | Final As-Built |
| 69 | Final As-Built |
| 70 | Final As-Built |
| 71 | Final As-Built |
| 72 | Final As-Built |
| 73 | Final As-Built |
| 74 | Final As-Built |
| 75 | Final As-Built |
| 76 | Final As-Built |
| 77 | Final As-Built |
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| 79 | Final As-Built |
| 80 | Final As-Built |
| 81 | Final As-Built |
| 82 | Final As-Built |
| 83 | Final As-Built |
| 84 | Final As-Built |
| 85 | Final As-Built |
| 86 | Final As-Built |
| 87 | Final As-Built |
| 88 | Final As-Built |
| 89 | Final As-Built |
| 90 | Final As-Built |
| 91 | Final As-Built |
| 92 | Final As-Built |
| 93 | Final As-Built |
| 94 | Final As-Built |
| 95 | Final As-Built |
| 96 | Final As-Built |
| 97 | Final As-Built |
| 98 | Final As-Built |
| 99 | Final As-Built |
| 100 | Final As-Built |

| Permit/Seal | |
|-------------|------|
| HEA2 | ABE3 |

Attachment B – Tenant Specified Trip Schedule

Traffic Schedule

| Cars (Associates-Personal Car) | | | |
|--------------------------------|-----|-----|-------|
| Average Weekday | | | |
| | In | Out | Total |
| 00:00 | 0 | 0 | 0 |
| 01:00 | 64 | 95 | 159 |
| 02:00 | 0 | 0 | 0 |
| 03:00 | 0 | 0 | 0 |
| 04:00 | 0 | 0 | 0 |
| 05:00 | 0 | 0 | 0 |
| 06:00 | 66 | 64 | 130 |
| 07:00 | 0 | 0 | 0 |
| 08:00 | 0 | 0 | 0 |
| 09:00 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 |
| 11:00 | 43 | 66 | 109 |
| 12:00 | 0 | 0 | 0 |
| 13:00 | 0 | 0 | 0 |
| 14:00 | 0 | 0 | 0 |
| 15:00 | 95 | 43 | 138 |
| 16:00 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 |
| 18:00 | 0 | 0 | 0 |
| 19:00 | 0 | 0 | 0 |
| 20:00 | 0 | 95 | 95 |
| 21:00 | 95 | 0 | 95 |
| 22:00 | 0 | 0 | 0 |
| 23:00 | 0 | 0 | 0 |
| | 363 | 363 | 726 |

| 53' Trucks (LineHaul) - Inbound | | | |
|---------------------------------|----|-----|-------|
| Average Weekday | | | |
| | In | Out | Total |
| 00:00 | 1 | 1 | 2 |
| 01:00 | 0 | 1 | 1 |
| 02:00 | 0 | 0 | 0 |
| 03:00 | 1 | 0 | 1 |
| 04:00 | 0 | 1 | 1 |
| 05:00 | 0 | 0 | 0 |
| 06:00 | 0 | 0 | 0 |
| 07:00 | 1 | 0 | 1 |
| 08:00 | 0 | 1 | 1 |
| 09:00 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 |
| 11:00 | 1 | 0 | 1 |
| 12:00 | 0 | 1 | 1 |
| 13:00 | 0 | 0 | 0 |
| 14:00 | 0 | 0 | 0 |
| 15:00 | 1 | 0 | 1 |
| 16:00 | 0 | 1 | 1 |
| 17:00 | 1 | 0 | 1 |
| 18:00 | 0 | 1 | 1 |
| 19:00 | 1 | 0 | 1 |
| 20:00 | 0 | 1 | 1 |
| 21:00 | 1 | 0 | 1 |
| 22:00 | 0 | 1 | 1 |
| 23:00 | 1 | 0 | 1 |
| | 9 | 9 | 18 |

| 53' Trucks (LineHaul) - NAFC Injection | | | |
|--|----|-----|-------|
| Average Weekday | | | |
| | In | Out | Total |
| 00:00 | 0 | 1 | 1 |
| 01:00 | 0 | 0 | 0 |
| 02:00 | 0 | 0 | 0 |
| 03:00 | 1 | 0 | 1 |
| 04:00 | 0 | 1 | 1 |
| 05:00 | 0 | 0 | 0 |
| 06:00 | 0 | 0 | 0 |
| 07:00 | 1 | 0 | 1 |
| 08:00 | 0 | 1 | 1 |
| 09:00 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 |
| 11:00 | 1 | 0 | 1 |
| 12:00 | 0 | 1 | 1 |
| 13:00 | 0 | 0 | 0 |
| 14:00 | 0 | 0 | 0 |
| 15:00 | 1 | 0 | 1 |
| 16:00 | 0 | 1 | 1 |
| 17:00 | 0 | 0 | 0 |
| 18:00 | 0 | 0 | 0 |
| 19:00 | 1 | 0 | 1 |
| 20:00 | 0 | 1 | 1 |
| 21:00 | 0 | 0 | 0 |
| 22:00 | 0 | 0 | 0 |
| 23:00 | 1 | 0 | 1 |
| | 6 | 6 | 12 |

| DP (FLEX Car) | | | |
|-----------------|------|------|-------|
| Average Weekday | | | |
| | In | Out | Total |
| 00:00 | 0 | 0 | 0 |
| 01:00 | 0 | 0 | 0 |
| 02:00 | 0 | 0 | 0 |
| 03:00 | 166 | 166 | 333 |
| 04:00 | 166 | 166 | 333 |
| 05:00 | 130 | 130 | 260 |
| 06:00 | 84 | 84 | 167 |
| 07:00 | 129 | 129 | 257 |
| 08:00 | 24 | 24 | 48 |
| 09:00 | 31 | 31 | 62 |
| 10:00 | 58 | 58 | 115 |
| 11:00 | 102 | 102 | 205 |
| 12:00 | 45 | 45 | 90 |
| 13:00 | 77 | 77 | 155 |
| 14:00 | 148 | 148 | 296 |
| 15:00 | 35 | 35 | 70 |
| 16:00 | 56 | 56 | 112 |
| 17:00 | 102 | 102 | 204 |
| 18:00 | 122 | 122 | 243 |
| 19:00 | 53 | 53 | 106 |
| 20:00 | 0 | 0 | 0 |
| 21:00 | 0 | 0 | 0 |
| 22:00 | 0 | 0 | 0 |
| 23:00 | 0 | 0 | 0 |
| | 1528 | 1528 | 3056 |

| Total (Adj) | | | |
|----------------------|-------|-------|-------|
| Adjusted Avg Weekday | | | |
| | In | Out | Total |
| 00:00 | 1 | 2 | 3 |
| 01:00 | 64 | 96 | 160 |
| 02:00 | 0 | 0 | 0 |
| 03:00 | 168 | 166 | 335 |
| 04:00 | 166 | 168 | 335 |
| 05:00 | 130 | 130 | 260 |
| 06:00 | 150 | 148 | 297 |
| 07:00 | 131 | 129 | 259 |
| 08:00 | 24 | 26 | 50 |
| 09:00 | 31 | 31 | 62 |
| 10:00 | 58 | 58 | 115 |
| 11:00 | 147 | 168 | 316 |
| 12:00 | 45 | 47 | 92 |
| 13:00 | 77 | 77 | 155 |
| 14:00 | 148 | 148 | 296 |
| 15:00 | 132 | 78 | 210 |
| 16:00 | 56 | 58 | 114 |
| 17:00 | 103 | 102 | 205 |
| 18:00 | 122 | 123 | 244 |
| 19:00 | 55 | 53 | 108 |
| 20:00 | 0 | 97 | 97 |
| 21:00 | 96 | 0 | 96 |
| 22:00 | 0 | 1 | 1 |
| 23:00 | 2 | 0 | 2 |
| | 1,906 | 1,906 | 3,812 |

Attachment C – VMT Resources

Project Details

Timestamp of Analysis July 10, 2025, 08:32:53 AM

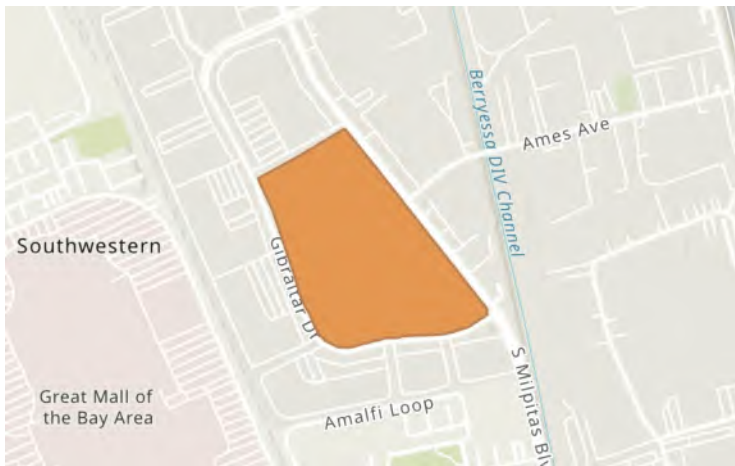
Project Name Delivery Center - 1000 Gibraltar Drive

Project Description eCommerce delivery hub

Project Location Map

Jurisdiction: Milpitas

| APN | TAZ |
|----------|-----|
| 08642033 | 279 |



Analysis Details

Data Version VTA Countywide Model December 2019

Analysis TAZ

Methodology

Baseline Year 2026

Project Land Use

Residential:

Single Family DU:

Multifamily DU:

Total DUs: 0

Non-Residential:

Office KSF:

Local Serving Retail KSF:

Industrial KSF: 487564

Residential Affordability (percent of all units):

Extremely Low Income: 0 %

Very Low Income: 0 %

Low Income: 0 %

Parking:

Motor Vehicle Parking: 450

Bicycle Parking:

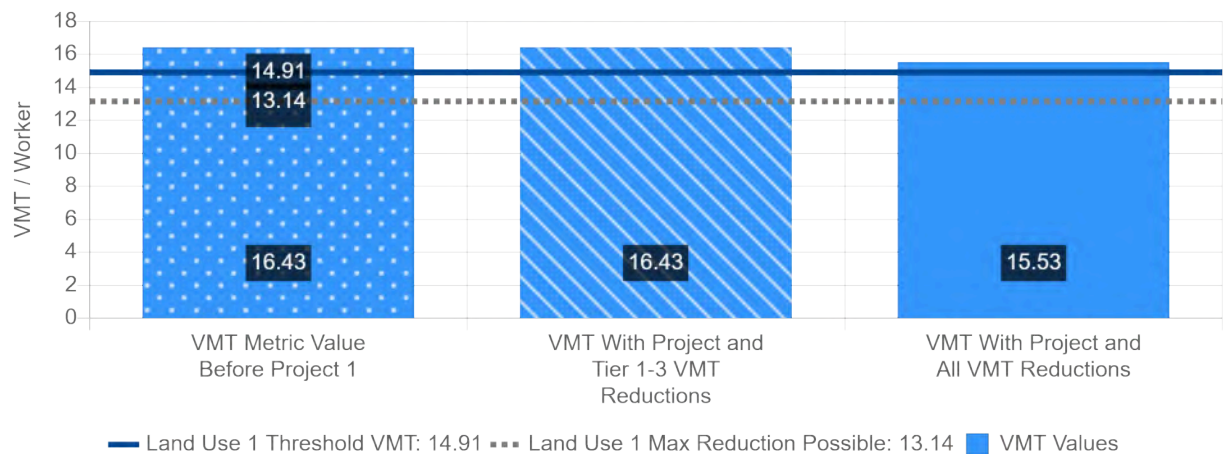
Proximity to Transit Screening

Inside a transit priority area? No (Fail)

Industrial Vehicle Miles Traveled (VMT) Screening Results

| | |
|---|--------------------------------|
| Land Use Type 1: | Industrial |
| VMT Metric 1: | Home-based Work VMT per Worker |
| VMT Baseline Description 1: | City Average |
| VMT Baseline Value 1: | 17.54 |
| VMT Threshold Description 1 / Threshold Value 1: | -15% / 14.91 |
| Land Use 1 has been Pre-Screened by the Local Jurisdiction: | N/A |

| | Without Project | With Project & Tier 1-3 VMT Reductions | With Project & All VMT Reductions |
|---|-----------------|--|-----------------------------------|
| Project Generated Vehicle Miles Traveled (VMT) Rate | 16.43 | 16.43 | 15.53 |
| Low VMT Screening Analysis | No (Fail) | No (Fail) | No (Fail) |



Tier 4 TDM Programs

TP13 Ride-Sharing Programs

| | |
|--|------|
| Expected Percent of Ride-Sharing Participants: | 10 % |
|--|------|

| Existing Delivery Station | Proposed Project Site | Zip Code | Existing Distribution Site | | | | Proposed Project Site | | | | Net VMT Change (Proposed – Existing) |
|---------------------------|-----------------------|----------|------------------------------------|---------------|-------------|--------|------------------------------------|---------------|-------------|--------|---|
| | | | Distance Between Site and Zip Code | Percent Trips | Total Trips | VMT | Distance Between Site and Zip Code | Percent Trips | Total Trips | VMT | |
| SCA2 | SSJ1 | REDACTED | 32.63 | 1.600% | 10.6 | 689.4 | 25.58 | 1.037% | 10.6 | 540.7 | -148.7 |
| | SSJ1 | | | | | | 14.51 | 0.001% | 0.0 | 0.4 | 0.4 |
| SCA2 | SSJ1 | | 34.24 | 1.658% | 10.9 | 749.4 | 16.70 | 1.074% | 10.9 | 365.6 | -383.7 |
| SCA2 | SSJ1 | | 23.97 | 3.410% | 22.5 | 1078.6 | 20.73 | 2.210% | 22.5 | 933.5 | -145.2 |
| | SSJ1 | | | | | | 18.55 | 0.001% | 0.0 | 0.5 | 0.5 |
| SCA2 | SSJ1 | | 23.17 | 0.697% | 4.6 | 213.3 | 21.89 | 0.452% | 4.6 | 201.6 | -11.7 |
| SCA2 | SSJ1 | | 31.70 | 0.659% | 4.3 | 275.7 | 28.38 | 0.427% | 4.4 | 247.0 | -28.7 |
| | SSJ1 | | | | | | 11.21 | 0.006% | 0.1 | 1.4 | 1.4 |
| | SSJ1 | | | | | | 11.94 | 0.000% | 0.0 | 0.0 | 0.0 |
| SCA2 | SSJ1 | | 33.07 | 2.282% | 15.1 | 995.9 | 14.38 | 1.479% | 15.1 | 433.5 | -562.5 |
| SCA2 | SSJ1 | | 31.68 | 1.124% | 7.4 | 470.2 | 13.05 | 0.729% | 7.4 | 193.8 | -276.5 |
| | SSJ1 | | | | | | 11.94 | 0.000% | 0.0 | 0.1 | 0.1 |
| SCA2 | SSJ1 | | 31.73 | 2.349% | 15.5 | 983.7 | 13.41 | 1.522% | 15.5 | 415.9 | -567.8 |
| SCA2 | SSJ1 | | 21.80 | 2.416% | 15.9 | 695.3 | 23.90 | 1.566% | 16.0 | 762.5 | 67.2 |
| SCA2 | SSJ1 | | 32.45 | 2.508% | 16.6 | 1074.3 | 34.08 | 1.625% | 16.6 | 1128.7 | 54.4 |
| SCA2 | SSJ1 | | 20.95 | 1.796% | 11.9 | 496.6 | 22.63 | 1.164% | 11.9 | 536.8 | 40.2 |
| | SSJ1 | | | | | | 21.44 | 0.001% | 0.0 | 0.5 | 0.5 |
| SCA2 | SSJ1 | | 33.96 | 1.532% | 10.1 | 686.8 | 10.37 | 0.993% | 10.1 | 209.8 | -477.0 |
| SCA2 | SSJ1 | | 35.45 | 2.784% | 18.4 | 1302.9 | 11.57 | 1.804% | 18.4 | 425.4 | -877.6 |
| SCA2 | SSJ1 | | 36.33 | 3.205% | 21.2 | 1536.8 | 13.77 | 2.077% | 21.2 | 582.7 | -954.0 |
| | SSJ1 | | | | | | 8.30 | 0.003% | 0.0 | 0.5 | 0.5 |
| SCA2 | SSJ1 | REDACTED | 34.30 | 1.362% | 9.0 | 616.3 | 8.90 | 0.882% | 9.0 | 160.1 | -456.2 |
| SCA2 | SSJ1 | | 25.68 | 1.343% | 8.9 | 455.2 | 17.15 | 0.870% | 8.9 | 304.2 | -151.0 |
| | SSJ1 | | | | | | 16.87 | 0.001% | 0.0 | 0.3 | 0.3 |
| SCA2 | SSJ1 | | 27.74 | 2.262% | 14.9 | 828.2 | 17.67 | 1.466% | 14.9 | 527.9 | -300.3 |
| SCA2 | SSJ1 | | 30.18 | 0.458% | 3.0 | 182.5 | 25.72 | 0.297% | 3.0 | 155.6 | -26.9 |
| SCA2 | SSJ1 | | 26.37 | 1.156% | 7.6 | 402.4 | 17.99 | 0.749% | 7.6 | 274.6 | -127.8 |
| SCA2 | SSJ1 | | 28.41 | 1.879% | 12.4 | 704.6 | 16.72 | 1.218% | 12.4 | 414.8 | -289.8 |
| | SSJ1 | | | | | | 18.42 | 0.001% | 0.0 | 0.4 | 0.4 |
| SCA3 | SSJ1 | | 41.26 | 5.009% | 33.1 | 2728.0 | 16.21 | 3.246% | 33.1 | 1072.4 | -1655.5 |
| SCA3 | SSJ1 | | 39.61 | 0.003% | 0.0 | 1.5 | 13.07 | 0.002% | 0.0 | 0.5 | -1.0 |
| SCA3 | SSJ1 | | 45.27 | 4.337% | 28.6 | 2591.7 | 11.35 | 2.811% | 28.6 | 650.1 | -1941.6 |
| SCA2 | SSJ1 | | 40.90 | 3.090% | 20.4 | 1668.0 | 11.79 | 2.002% | 20.4 | 481.2 | -1186.8 |
| SCA3 | SSJ1 | | 38.14 | 2.081% | 13.7 | 1047.9 | 16.12 | 1.349% | 13.7 | 443.0 | -604.8 |
| SCA3 | SSJ1 | | 42.94 | 3.419% | 22.6 | 1938.0 | 14.79 | 2.216% | 22.6 | 667.6 | -1270.4 |
| SCA3 | SSJ1 | | 38.56 | 3.768% | 24.9 | 1917.7 | 17.51 | 2.442% | 24.9 | 871.3 | -1046.4 |
| SCA2 | SSJ1 | | 36.10 | 0.124% | 0.8 | 59.2 | 5.90 | 0.080% | 0.8 | 9.7 | -49.5 |
| | SSJ1 | | | | | | 43.77 | 1.354% | 13.8 | 1208.2 | 1208.2 |
| | SSJ1 | | | | | | 35.97 | 0.339% | 3.5 | 248.3 | 248.3 |
| | SSJ1 | | | | | | 38.26 | 0.436% | 4.4 | 339.7 | 339.7 |
| | SSJ1 | | | | | | 34.28 | 0.032% | 0.3 | 22.4 | 22.4 |
| SCA2 | SSJ1 | REDACTED | 43.14 | 4.058% | 26.8 | 2310.8 | 13.90 | 2.630% | 26.8 | 745.0 | -1565.8 |
| | SSJ1 | | | | | | 11.56 | 0.001% | 0.0 | 0.3 | 0.3 |
| | SSJ1 | | | | | | 38.35 | 0.435% | 4.4 | 340.1 | 340.1 |
| | SSJ1 | | | | | | 11.46 | 0.001% | 0.0 | 0.3 | 0.3 |
| | SSJ1 | | | | | | 19.15 | 0.001% | 0.0 | 0.5 | 0.5 |
| SCA2 | SSJ1 | | 38.29 | 3.682% | 24.3 | 1861.0 | 16.37 | 2.386% | 24.3 | 795.9 | -1065.1 |
| | SSJ1 | | | | | | 13.91 | 0.002% | 0.0 | 0.5 | 0.5 |
| | SSJ1 | | | | | | 38.11 | 0.397% | 4.1 | 308.7 | 308.7 |
| | SSJ1 | | | | | | 18.36 | 0.908% | 9.3 | 339.7 | 339.7 |
| | SSJ1 | | | | | | 16.76 | 0.004% | 0.0 | 1.4 | 1.4 |
| | SSJ1 | | | | | | 17.85 | 1.618% | 16.5 | 588.7 | 588.7 |
| | SSJ1 | | | | | | 29.81 | 0.450% | 4.6 | 273.6 | 273.6 |
| SCA2 | SSJ1 | | 43.49 | 4.087% | 27.0 | 2346.2 | 5.10 | 2.649% | 27.0 | 275.1 | -2071.1 |
| | SSJ1 | | | | | | 2.17 | 0.001% | 0.0 | 0.1 | 0.1 |
| | SSJ1 | | | | | | 34.03 | 0.033% | 0.3 | 23.0 | 23.0 |
| | SSJ1 | | | | | | 22.25 | 0.004% | 0.0 | 1.9 | 1.9 |
| SCA2 | SSJ1 | | 39.24 | 2.557% | 16.9 | 1324.1 | 9.20 | 1.657% | 16.9 | 310.8 | -1013.4 |
| SCA2 | SSJ1 | | 38.63 | 3.467% | 22.9 | 1768.2 | 10.34 | 2.247% | 22.9 | 473.3 | -1294.9 |
| | SSJ1 | | | | | | 6.93 | 0.001% | 0.0 | 0.1 | 0.1 |
| | SSJ1 | | | | | | 7.17 | 0.047% | 0.5 | 6.8 | 6.8 |
| SCA2 | SSJ1 | | 37.00 | 2.035% | 13.4 | 993.8 | 6.89 | 1.319% | 13.4 | 185.1 | -808.7 |
| | SSJ1 | | | | | | 8.67 | 0.002% | 0.0 | 0.3 | 0.3 |

| Existing Delivery Station | Proposed Project Site | Zip Code | Existing Distribution Site | | | | Proposed Project Site | | | | Net VMT Change (Proposed – Existing) |
|---------------------------|-----------------------|----------|------------------------------------|---------------|-------------|--------|------------------------------------|---------------|-------------|--------|---|
| | | | Distance Between Site and Zip Code | Percent Trips | Total Trips | VMT | Distance Between Site and Zip Code | Percent Trips | Total Trips | VMT | |
| | SSJ1 | R | | | | | 5.86 | 0.002% | 0.0 | 0.2 | 0.2 |
| | SSJ1 | | | | | | 47.54 | 1.874% | 19.1 | 1815.7 | 1815.7 |
| | SSJ1 | | | | | | 39.88 | 1.565% | 15.9 | 1271.9 | 1271.9 |
| | SSJ1 | | | | | | 39.94 | 0.311% | 3.2 | 253.3 | 253.3 |
| | SSJ1 | | | | | | 38.92 | 0.391% | 4.0 | 310.3 | 310.3 |
| | SSJ1 | | | | | | 32.16 | 0.773% | 7.9 | 507.0 | 507.0 |
| | SSJ1 | | | | | | 32.28 | 0.004% | 0.0 | 2.9 | 2.9 |
| SCA2 | SSJ1 | REDACTED | 41.95 | 2.479% | 16.4 | 1372.8 | 21.60 | 1.607% | 16.4 | 707.2 | -665.6 |
| | SSJ1 | | | | | | 14.25 | 0.001% | 0.0 | 0.4 | 0.4 |
| | SSJ1 | | | | | | 38.25 | 0.541% | 5.5 | 422.0 | 422.0 |
| | SSJ1 | | | | | | 7.01 | 0.000% | 0.0 | 0.0 | 0.0 |
| SCA2 | SSJ1 | | 42.60 | 1.097% | 7.2 | 617.0 | 9.13 | 0.711% | 7.2 | 132.3 | -484.7 |
| | SSJ1 | | | | | | 14.35 | 1.594% | 16.2 | 466.3 | 466.3 |
| | SSJ1 | | | | | | 8.93 | 1.873% | 19.1 | 340.8 | 340.8 |
| SCA2 | SSJ1 | | 41.63 | 0.495% | 3.3 | 272.2 | 7.98 | 0.321% | 3.3 | 52.2 | -219.9 |
| | SSJ1 | | | | | | 6.56 | 1.024% | 10.4 | 137.0 | 137.0 |
| SCA2 | SSJ1 | | 41.55 | 1.459% | 9.6 | 800.3 | 11.06 | 0.946% | 9.6 | 213.2 | -587.1 |
| | SSJ1 | | | | | | 15.54 | 1.443% | 14.7 | 457.1 | 457.1 |
| | SSJ1 | | | | | | 17.06 | 0.570% | 5.8 | 198.3 | 198.3 |
| | SSJ1 | | | | | | 20.81 | 2.033% | 20.7 | 862.1 | 862.1 |
| | SSJ1 | | | | | | 16.15 | 1.008% | 10.3 | 331.8 | 331.8 |
| | SSJ1 | | | | | | 12.05 | 1.123% | 11.4 | 276.0 | 276.0 |
| | SSJ1 | | | | | | 9.80 | 2.709% | 27.6 | 540.9 | 540.9 |
| SCA2 | SSJ1 | | 46.60 | 3.428% | 22.6 | 2108.6 | 16.27 | 2.222% | 22.6 | 736.7 | -1371.8 |
| | SSJ1 | | | | | | 16.10 | 2.568% | 26.2 | 842.7 | 842.7 |
| SCA2 | SSJ1 | | 42.27 | 2.343% | 15.5 | 1307.3 | 12.54 | 1.518% | 15.5 | 388.2 | -919.1 |
| | SSJ1 | | | | | | 10.45 | 1.802% | 18.4 | 383.8 | 383.8 |
| SCA2 | SSJ1 | | 41.77 | 2.269% | 15.0 | 1250.9 | 10.04 | 1.470% | 15.0 | 300.8 | -950.1 |
| SCA2 | SSJ1 | | 39.96 | 2.081% | 13.7 | 1097.6 | 10.99 | 1.349% | 13.7 | 301.9 | -795.7 |
| SCA2 | SSJ1 | | 40.89 | 0.787% | 5.2 | 424.8 | 13.80 | 0.510% | 5.2 | 143.5 | -281.4 |
| SCA2 | SSJ1 | | 41.32 | 1.580% | 10.4 | 861.4 | 13.35 | 1.024% | 10.4 | 278.5 | -582.9 |
| SCA2 | SSJ1 | | 44.20 | 2.053% | 13.5 | 1197.4 | 3.98 | 1.330% | 13.6 | 107.8 | -1089.6 |
| | SSJ1 | | | | | | 5.44 | 0.812% | 8.3 | 89.9 | 89.9 |
| SCA2 | SSJ1 | | 38.48 | 1.732% | 11.4 | 879.8 | 5.27 | 1.123% | 11.4 | 120.6 | -759.2 |
| | SSJ1 | | | | | | 5.34 | 0.797% | 8.1 | 86.8 | 86.8 |
| | SSJ1 | | | | | | 14.74 | 1.749% | 17.8 | 525.5 | 525.5 |
| | SSJ1 | | | | | | 14.29 | 0.793% | 8.1 | 230.8 | 230.8 |
| | SSJ1 | | | | | | 16.80 | 0.301% | 3.1 | 103.0 | 103.0 |
| | SSJ1 | | | | | | 17.76 | 0.002% | 0.0 | 0.7 | 0.7 |
| | SSJ1 | | | | | | 24.16 | 1.426% | 14.5 | 702.1 | 702.1 |
| | SSJ1 | | | | | | 11.58 | 0.001% | 0.0 | 0.3 | 0.3 |
| | SSJ1 | | | | | | 10.97 | 0.002% | 0.0 | 0.4 | 0.4 |
| | SSJ1 | | | | | | 8.80 | 0.006% | 0.1 | 1.0 | 1.0 |
| | SSJ1 | | | | | | 3.74 | 0.001% | 0.0 | 0.1 | 0.1 |
| | SSJ1 | | | | | | 14.35 | 0.001% | 0.0 | 0.4 | 0.4 |
| | SSJ1 | | | | | | 13.11 | 0.001% | 0.0 | 0.2 | 0.2 |
| | SSJ1 | | | | | | 9.57 | 0.001% | 0.0 | 0.3 | 0.3 |
| | SSJ1 | | | | | | 6.68 | 0.001% | 0.0 | 0.1 | 0.1 |
| | SSJ1 | | | | | | 11.18 | 0.002% | 0.0 | 0.5 | 0.5 |
| | SSJ1 | | | | | | 12.89 | 0.001% | 0.0 | 0.4 | 0.4 |
| | SSJ1 | | | | | | 8.86 | 0.001% | 0.0 | 0.3 | 0.3 |
| | SSJ1 | | | | | | 2.87 | 0.002% | 0.0 | 0.1 | 0.1 |
| | SSJ1 | | | | | | 3.49 | 0.000% | 0.0 | 0.0 | 0.0 |
| | SSJ1 | | | | | | 8.60 | 0.000% | 0.0 | 0.0 | 0.0 |
| | SSJ1 | | | | | | 6.96 | 0.002% | 0.0 | 0.3 | 0.3 |
| TOTAL | | | 0.00 | 100% | 660 | 49,185 | 3.74 | 100% | 1019 | 34,151 | (15,034) |

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