



ALDRIDGE TRANSPORTATION CONSULTANTS, LLC

Advanced Transportation Planning and Traffic Engineering

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August 31, 2020

Mr. Eric Pearson
Cage Civil Engineering
999 18th St. S2110
Denver, CO 80202

RE: Transportation Impact Study - Revised
The Aurora Highlands Filings 7 Phases 1-3 DR Horton (#1440618)

Dear Mr. Pearson:

Aldridge Transportation Consultants (ATC) is pleased to present this traffic impact study for the proposed residential development of Filings 7 Phases 1-3 of The Aurora Highlands.

ATC is professional service firm specializing in traffic engineering and transportation planning. ATC's principal, John M.W. Aldridge is a Colorado licensed professional engineer. In the past 20 years, ATC has prepared over 1,200 traffic impact studies, designed over 100 traffic signals, and has provided expert witness testimony on engineering design and access issues on multi-million-dollar interchange and highway projects in Kansas and Colorado.

We acknowledge that City of Aurora's review of this study is only for general performance with submittal requirements, current design criteria, and standard engineering principles and practice.

ATC appreciates the opportunity to be of service. Please call if you have any questions. We can be reached at 303-703-9112.

Respectfully submitted,
Aldridge Transportation Consultants, LLC

John M.W. Aldridge, P.E.
Principal





INTRODUCTION

This Traffic Impact Study examines the impact on traffic caused by the development of Filings 7 Phases 1-3 of The Aurora Highlands. This is the first section of The Aurora Highlands to be developed. It includes the southern areas of West Village and Highlands Creek West. Figure 1 shows the full development of The Aurora Highlands with village and street names. Please note that the graphic is for illustrative purposes only and subject to change as planning and design is further developed.



Figure 1 Village and Street Naming Plan



The **Aurora Highlands Traffic Impact Study** prepared by FHU in July 2018 provides an overall examination of the approximate 3,100-acre development plan shown in Figure 1. The FHU study focused on the long-term (2040) transportation needs not only for the full-build out but also for the areas that surround Aurora Highlands. The long-term analysis was based on the DRCOG planning using the Compass model and 2040 NEATS travel demand modeling. The **Northeast Area Transportation Study** (NEATS) transportation plan refresh was completed in October 2018 and is inclusive of the Aurora Highlands master development plan again as depicted in Figure 1. While adjustments to the land use and street layout are inevitable, these documents nonetheless provide a sound foundation and basis for this study and its improvement recommendations.

Per the FHU study, more refined traffic impact study could be prepared for each individual development application, such as this, to refine the specifics needed as development occurs. The FHU study sets the stage with respect to the roadway needs and classifications.

The sections that are the subject of this development application are shown in Figure 2



Figure 2 Subject Area and Streets

The proposed development plan features 1,030 units on approximately 203.5 acres. The density is about 5.1 du/ac. Of the 1,030 units, 288 are duplex lots and 742 are single-family.

EXISTING CONDITIONS

Access to the site is restricted to one street now, 26th Ave. Main St. is under construction and will connect 26th Ave. to 38th Ave. and a future interchange with E-470. Most of the traffic will be oriented to/from the west on 26th Ave. crossing over E-470 to Picadilly Road. Gun Club Road from 26th Ave to 42nd Ave. parallels E-470. This road serves the E-470 office/maintenance complex. Gun Club Road may provide limited access to E-470 through the complex in the near-term.

26th Ave. is a 2-Lane Minor Arterial that extends from Picadilly Road to Watkins Road. It is undivided and in the subject area includes a 6-foot gravel shoulder. There is no sidewalk on either side. It carries approximately 1,000 ADT per NEATS, and the posted speed limit is 45 mph.



ACCESS LOCATIONS

There will be five access locations from the perimeter arterials. Four on 26th Ave. and one on Main St. On 26th Ave. the primary access will be with a collector road, West Village Ave. This road will curve westward and connect with Main St. The other three access locations are with local type 1 roadways. These are yet to be named and identified in this analysis as Access Roads A, B, and C. In the future and in subsequent phases, the Aurora Highlands Parkway will provide access on the east side of the development. The intersection will not be constructed in this phase.

LAND USE and TRIP GENERATION

The site will be developed with 288 duplex units and 742 single-family units. The trip generation rates are from the *ITE Trip Generation Manual, 10th Edition*. The following worksheet provides the ADT and AM/PM Peak Hour traffic volumes. The planning areas are subtotalled by the incremental traffic analysis zones (TAZ) as established in the FHU master traffic study. Figure 3 following the worksheet depicts the applicable zones and zone number.

| Trip Generation Worksheet | | | | | | | | | | | | |
|---------------------------|---------------|------------------------|------|----------|--------------|------------|-------------|-------|-------------|-------------|-------|------|
| ITE CODE | PLANNING AREA | LAND USE | UNIT | QUANTITY | ADT | AM | | | PM | | | |
| | | | | | | IN | OUT | TOTAL | IN | OUT | TOTAL | |
| 220 | 64-1 | Duplex/Townhome | DU | 90 | 7.32 659 | 0.11 10 | 0.35 32 | 0.41 | 0.35 32 | 0.21 19 | 0.51 | |
| 210 | 64-2 | Single-Family Detached | DU | 239 | 9.44 2256 | 0.19 45 | 0.55 131 | 0.77 | 0.63 151 | 0.37 88 | 239 | |
| TAZ 29 Sub-Total | | | | | | 2915 | 55 | 163 | 218 | 182 | 107 | 290 |
| 220 | 65-1 | Duplex/Townhome | DU | 48 | 7.32 351 | 0.11 5 | 0.35 17 | 0.22 | 0.35 17 | 0.21 10 | 27 | |
| 210 | 65-3 | Single-Family Detached | DU | 219 | 9.44 2067 | 0.19 42 | 0.55 120 | 0.72 | 0.63 138 | 0.37 81 | 219 | |
| 220 | 65-2 | Duplex/Townhome | DU | 52 | 7.32 381 | 0.11 6 | 0.35 18 | 0.24 | 0.35 18 | 0.21 11 | 29 | |
| TAZ 30 Sub-Total | | | | | | 2799 | 52 | 156 | 208 | 173 | 102 | 275 |
| 220 | 80-1 | Duplex/Townhome | DU | 98 | 7.32 717 | 0.11 10 | 0.35 35 | 0.45 | 0.35 35 | 0.21 21 | 55 | |
| 210 | 80-2 | Single-Family Detached | DU | 284 | 9.44 2681 | 0.19 54 | 0.55 156 | 0.71 | 0.63 179 | 0.37 105 | 284 | |
| TAZ 31 Sub-Total | | | | | | 3398 | 64 | 191 | 255 | 213 | 126 | 339 |
| Total Trips | | | | | | 12511 | 236 | 701 | 937 | 783 | 461 | 1243 |

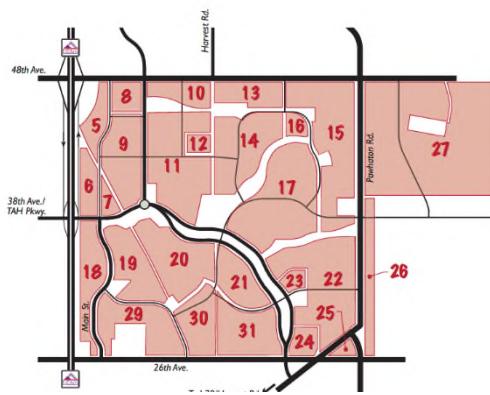


Figure 3 Traffic Analysis Zones

In comparing the zone data, the FHU traffic study programmed 1,855 units (553 multi-family and 1,302 single-family) that generated 16,072 daily trips. This application is less at 1,030 units and 12,511 daily trips.

TRAFFIC DISTRIBUTION & ASSIGNMENT

Initially, the traffic distribution will be heavily oriented to/from the west on 26th Ave. with at least an estimated 70/30 directional split. This includes a small share from Gun Club Road that comes from the E-470 access through the Authority's



office/maintenance complex. 20 percent of the 70 percent to/from the west are anticipated to use Main St. to West Village Ave. Figures 4 and 5 show the trip assignment for the AM and PM peak hours, respectively. The percentages are the to/from cardinal direction.

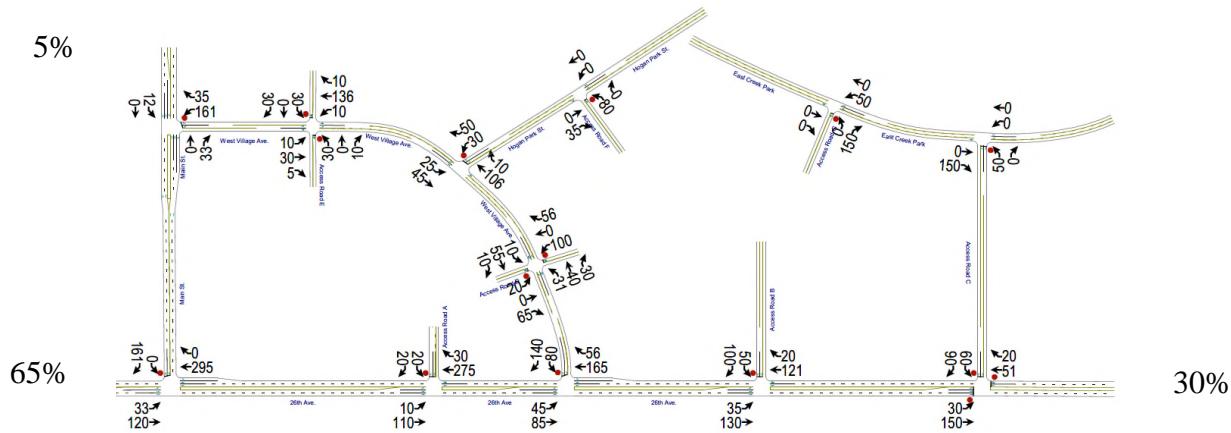


Figure 4 AM Peak Hour Site Generated Trip Assignment

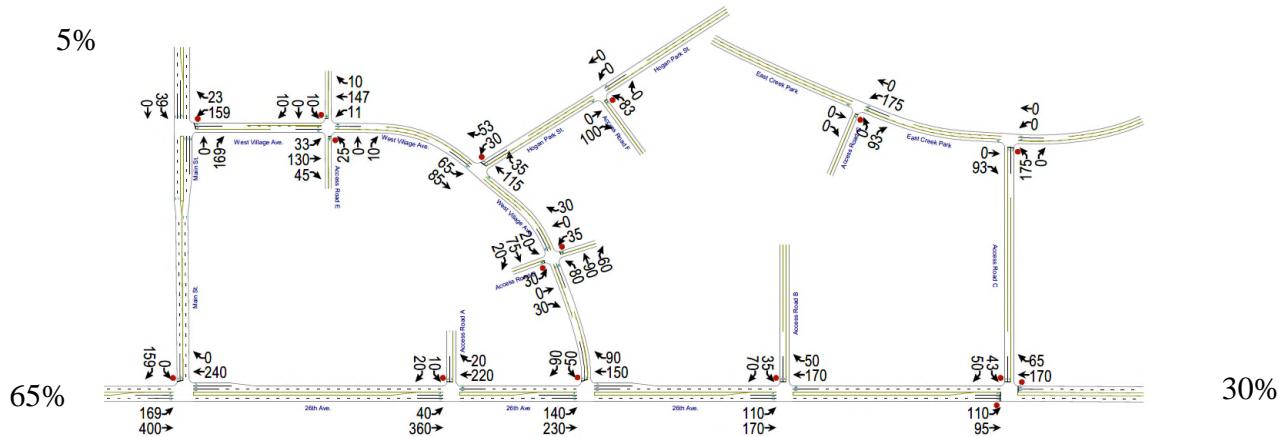


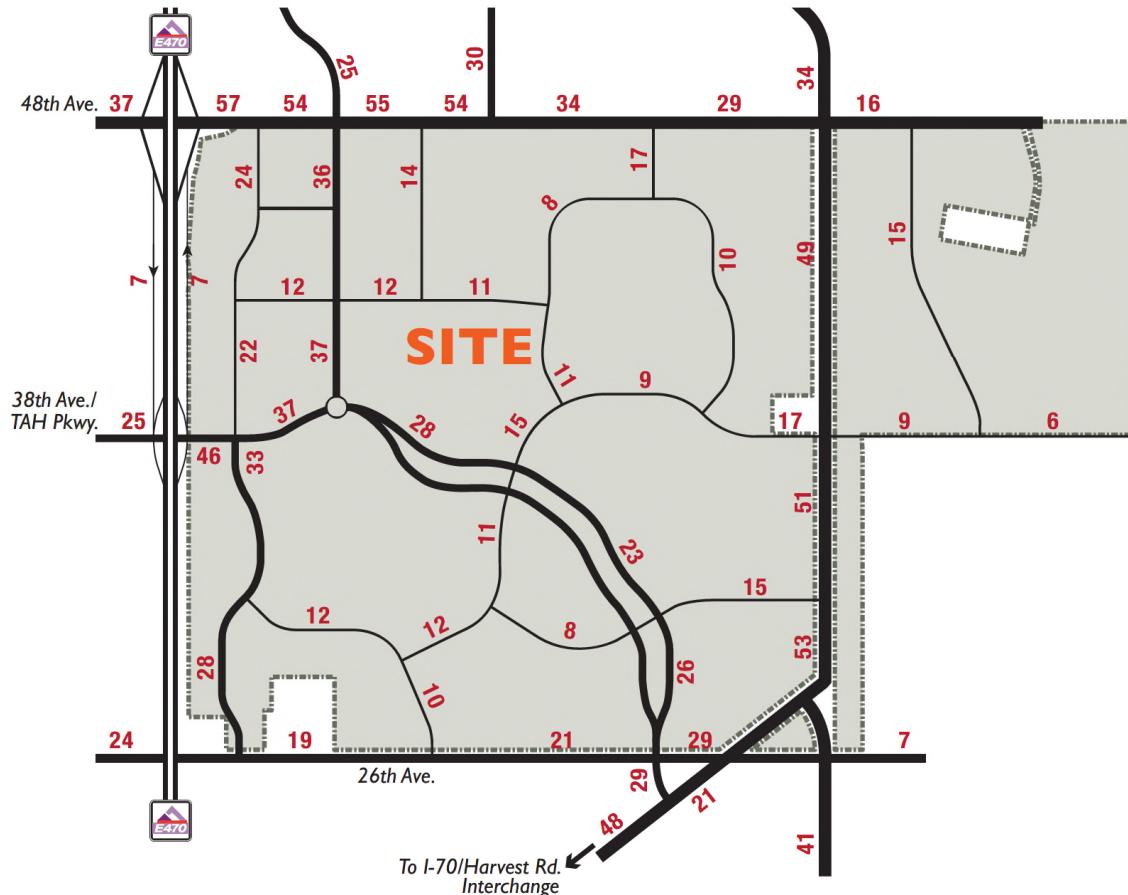
Figure 5 PM Peak Hour Site Generated Trip Assignment

FUTURE TRAFFIC VOLUMES

The future (2040) traffic volumes for The Aurora Highlands have been established through the FHU study and NEATS travel modeling. The forecast volumes include the full build of The Aurora Highlands and land uses surrounding the Aurora Highlands area. These were heavily vetted with city staff in the preparation of the NEATS travel model according to the FHU study. Figure 6 is from the FHU study and shows the 2040 Total Traffic. It should be noted that while the FHU study projects 19-21,000 ADT on 26th Ave. NEATS projects about half that at 11,900 ADT. FHU explains that their travel modelling assumes build out of Aurora Highlands to its maximum potential although not a likely scenario. They did so to give the developer flexibility in the



development of each planning area and to meet the City's requirement in preparing a traffic impact study. To wit, the zones in this phase are being developed with 1,030 units vs. the 1,855 units programmed by FHU. Overall, the FHU study forecast 203,000 trips generated by the full build out. NEATS on the other hand forecast 117,000 trips from the same traffic analysis zones.

**LEGEND**

XXXX = Volumes in 1000's

= Aurora Highlands

Figure 6 2040 Total Traffic per the FHU Study

In both documents, however, the 2040 street network assumes that both Main St. and 26th Ave. will be 4-Lane Arterials. Moreover, based on the daily volumes traffic signal control will be likely at Main St./26th Ave. and at West Village Ave./26th Ave.



In Phases 1-3, the background traffic on 26th Ave. is not expected to see any increases. But to be conservative in this analysis we have doubled the existing traffic on 26th Ave. For 2040, the volume on 26th Ave. is a balance between the FHU study and NEATS given the lower number of units proposed for Phases 1-3. The 2040 ADT in this study is approximately 15,000 ADT. The following graphics show the movement volumes for the Near-Term Phases 1-3 and the 2040 AM and PM peak hours.



Figure 7 Near-Term Phases 1-3 AM Total

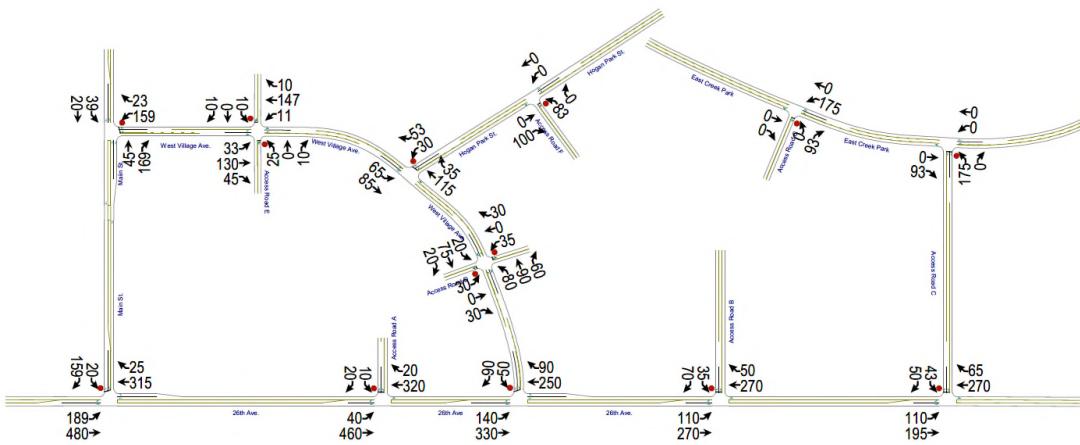


Figure 8 Near Term Phases 1-3 PM Total

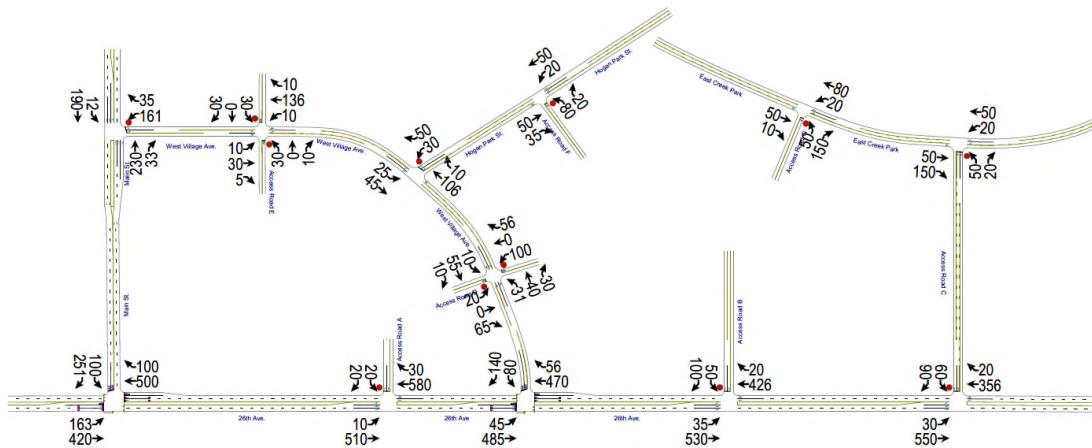


Figure 9 2040 AM Total

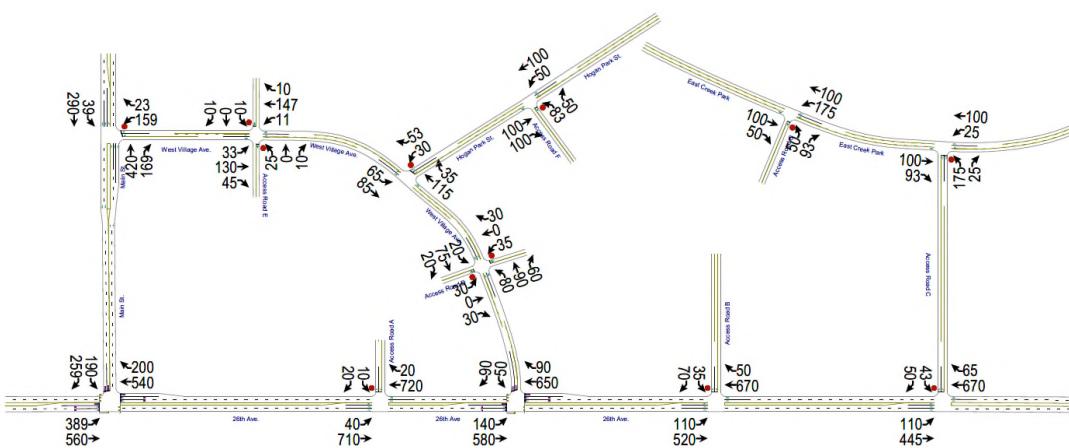


Figure 10 2040 PM Total

PEAK HOUR INTERSECTION LEVEL OF SERVICE

ATC uses Synchro v.10 for operations analyses. The Synchro methodology is based on the 6th Edition of the Highway Capacity Manual (HCM). The table summarizes the AM and PM peak hour LOS and the 95th%ile queue lengths for the near-term Phases 1-3 and the long term 2040 AM and PM peaks hours. As there are no existing intersections in the subject area, no analysis of the exiting conditions or background conditions is possible. Synchro reports for each timeframe are provided in the appendix.

The HCM states that, “*LOS is used to translate complex numerical performance rating into a simple A-F system representative of the travelers’ perception of the quality of service provided by*



a facility or service. Practitioners and decision makers alike must understand that the LOS letter result hides much of the complexity of facility performance¹.” LOS is a letter rating from A to F. LOS A indicates free-flow traffic conditions and little to no delay at intersections. LOS F is heavy traffic congestion with significant delay. LOS is provided for the overall operations at signalized intersections. LOS D is generally the benchmark for acceptable signalized intersection operations during the weekday peak hours. The critical movement, not the overall, indicates the LOS rating for unsignalized intersections, which is generally a left turn out from the minor street approach. Caution must be used when evaluating the LOS at unsignalized intersections particularly when LOS F is shown. In case of LOS F, the HCM recommends that other evaluation methods should be considered such as the volume over capacity ratios, the 95th percentile queue length, and duration of LOS F to make the most effective traffic control decision². LOS F at unsignalized intersections is typically normal during the weekday peak hours as the duration of the LOS F condition is relatively short.

| Unsignalized Intersection LOS & 95%ile Summary | | | | | |
|---|-----------------------|----------------------|-------|--------|--------|
| LOS (Control Delay (secs) A=0-10, B=>10-15, C=>15-25, D=>25-35, E=>35-50, F=>50) / 95%ile Q (veh) | | | | | |
| Intersection | Movement | Near Term Phases 1-3 | | 2040 | |
| | | AM | PM | AM | PM |
| 26th Ave./West Village Ave. | Critical Movement SBL | B/.4 | D/1.1 | Signal | Signal |
| West Village Ave/ Road E | Critical Movement NBL | B/.2 | B/.2 | B/.2 | B/.2 |
| West Village Ave/ Road D | Critical Movement WBL | B/.7 | B/.5 | B/.7 | B/.5 |
| 26th Ave./Road A | Critical Movement SBL | B/.2 | C/.1 | C/.3 | D/.3 |
| Main St./West Village Ave. | Critical Movement WBL | A/.6 | B/.8 | B/1.1 | D/2.7 |
| 26th Ave./Road B | Critical Movement SBL | B/.3 | C/.4 | C/.6 | E/1.3 |
| 26th Ave./Road C | Critical Movement SBL | B/.3 | C/.5 | C/.7 | F/1.7 |
| West Village Ave./Hogan Park | Critical Movement WBL | B/.1 | B/.2 | B/.1 | B/.2 |
| 26th Ave./Main St. | Critical Movement SBL | C/.2 | D/.4 | Signal | Signal |

| Signalized Intersection LOS Summary | | | | |
|--|--------------------|--------|------------|--------|
| LOS/Control Delay (secs) A=0-10, B=>10-20, C=>20-35, D=>35-55, E=>55-80, F=>80 | | | | |
| Intersection | Near-Term Phs. 1-3 | | 2040 Total | |
| | AM | PM | AM | PM |
| 26th Ave./West Village Ave. | Unsig. | Unsig. | C/22.0 | B/11.5 |
| 26th Ave. /Main St. | Unsig. | Unsig. | B/16.1 | C/21.8 |

The operations analysis demonstrates that all collector/collector, collector/local, and arterial/local intersections will operate as unsignalized intersections at an acceptable LOS with one exception at 26th Ave. and Road C. It will operate at LOS F, however the 95th%ile queue is minimal at 1.7 vehicles. The arterial/collector intersection, Main St./West Village Ave. will also operate acceptably remaining unsignalized. The critical movement, the westbound left out in the heaviest

¹ HCM version 6, Chapter 5, pages 5-3 – 5-6.

² ditto



traffic time the 2040 PM condition operates at LOS D with a 95%ile of 2.7 vehicles. The two other arterial/collector intersections at 26th Ave./West Village Ave. and 26th Ave./Main St. are projected to meet a traffic signal warrant per the next section. The traffic signals will provide acceptable overall LOS and delay at these intersections.

TRAFFIC SIGNAL WARRANTS

The City staff in comments dated March 27, 2020 is requiring "...signal warrant analysis of intersection with western "Collector" roadway with 26th Ave. Warrant 1,2,3 all to be included (collect 72 hr. tube counts for analysis)." This comment cannot be satisfied as traffic volume cannot be counted on non-existent roadways.

Generally, a traffic signal in a residential area is warranted by Warrant 1 and or 2 on actual hourly volume counts. Warrant 3 is not applicable in residential areas and is reserved for unusual cases per the MUTCD. Typically, in order to meet an eight-hour warrant (Warrant 1) or four-hour warrant (Warrant 2) the average daily volume on the minor street approach needs to exceed 2,000 ADT. This is projected to be the case in the 2040 condition at the intersections of Main St./26th Ave. and 26th Ave./West Village Ave. No other intersections in the development meet this criterion.

TRAFFIC CALMING

Also, in the March 27, 2020 comments City staff is requiring a discussion of the application of elements from the Traffic Calming Toolbox. In the toolbox or as in many other sources including FHWA's Traffic Calming ePrimer, there are a considerable number of traffic calming techniques to address a myriad of traffic related problems including speeding, cut-through traffic, and pedestrian safety. However, there first needs to be identification of a problem or perception of a problem to be resolved. Most importantly there needs to be consensus among the residents that would be affected and agreements with the public agency on maintenance of i.e. landscaping or streetscape features.

Per FHWA's Traffic Calming ePrimer:

"A successful program or process should include a mechanism by which both residents and professional staff can identify a problem or issue for which traffic calming may provide a solution. It should have the flexibility to be both reactive (i.e., able to respond to a citizen request to address a problem) and proactive, perhaps as a result of an ongoing monitoring effort by public agency staff. A project request should be able to be initiated by the local government staff, an elected official, or a community association. For a request from an individual, some level of support should be demonstrated by a formal mechanism (such as a petition) that reflects a specified number of residents, property owners, or businesses."

The City has a Neighborhood Traffic Calming Program that allows neighborhoods to apply for traffic calming program that aims to reduce speeding and cut-through traffic on residential streets and improve the neighborhood's quality of life. The application requires a neighborhood organization to list the exact location of the concern and to describe issues to be resolved such as speeding, cut-through traffic, problems crossing the street, drivers not obeying regulatory signs, etc. Once an application is received the City has a 10 step process to work with the neighbors, determine eligibility, get support from all affected neighbors, develop cost estimates, identify



effectiveness, determine impact on traffic patterns, and identify funding for the implementation of the approved measure.

Calming options to reduce speed include, but not limited to, automated speed radar signs, curb extensions, speed humps, roundabouts, chicanes, and raised crosswalks. These vary in effectiveness. Speed humps (cushions, tables, etc.) can be very effective, but also dangerous if not used properly. Automated speed radar signs are only marginally effective and unenforceable.

Once the project is fully developed and should problems arise, the City's program for traffic calming embodies a sound process to work with neighborhoods on implementing appropriate measures to resolve problems such as speeding, cut-through traffic, and pedestrian safety.

MITIGATION

West Village Ave. is a three-lane collector roadway with a center left turn lane. Per the City of Aurora Engineering Standards for roadway design and construction, exclusive right turn lanes on this type of roadway are **not** allowed. Table 2 from COA's Urban Street Standards is copied below. Note that a 3-Lane Collector is classified as a "Main Street" in the table and should not be confused with the arterial named Main St.

Table 2 - Intersection and Mid-Block Approach Design Matrix

| | Boulevard | Multi-Way Boulevard | Main Street – Four Lanes with Median | Main Street – Two Lanes with Median/Center Turn Lane | Main Street – Two Lanes with Median/Center Turn Lane (Mid-Block) | Main Street – Two Lanes with Parallel Parking | Main Street – Two Lanes with Parallel Parking (Mid-Block) |
|------------------------------------|-----------|---------------------------|---|---|--|---|---|
| Curb Extensions | No | Yes (access street only) | Yes | Yes | Yes | Yes | Yes |
| Corner Radii | 25 Feet | 20 Feet | 20 Feet | 20 Feet | NA | 20 Feet | NA |
| Exclusive Left Turn Lanes Allowed | Yes | Yes (through street only) | Yes (when intersects with boulevards or existing major arterials) | Yes (when intersects with boulevards or existing major arterials) | NA | No | NA |
| Exclusive Right Turn Lanes Allowed | Yes | No | No | No | NA | No | NA |
| Standard Markings | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Colored Paving | No | No | Yes | No | No | No | No |
| Pavers | No | No | No | Yes | Yes | Yes | Yes |
| High Visibility Markings | No | No | No | No | Yes | No | Yes |
| Pedestrian Refuge Islands | Yes | Yes | Yes | Yes | Yes | NA | NA |

Exclusive left and right turn lanes will be allowed on Main St. and 26th Ave. as they are designated as Boulevards (Arterials). There are four intersections on 26th Ave., Access Roads A, B, C, and West Village Ave., and one on Main St. at West Village Ave. Assuming that there will a raised median with a width of 14 feet, the left turn at Access Roads A, B, and C should have a transition taper length of 110 feet and a 100-foot tangent section for storage. An exclusive right turn lane at these locations is not necessary as the turning volumes in the peak hour are relatively light. At the



West Village Ave. intersection on 26th Ave., the left turn lane should have a 110-foot transition taper and 150-foot long tangent for storage. The same dimensions would apply to the right turn lane. At the West Village Ave. and Main St. intersection, the left and right turn lanes should have a 110-foot transition taper and a 150-foot tangent for storage.

The roadways will be constructed to City standards which are designed to accommodate pedestrian and bicycle activity. The Aurora Highlands master plan will augment the standard with additional infrastructure to enhance bicycle ridership. Programs include widened sidewalks, two-way bike tracks, and off-street trail connections.

CONCLUSIONS & RECOMMENDATIONS

The analysis and recommendations contained herein demonstrate that the development of Filing 7, Phases 1-3 is consistent with the approved land use planning and roadway and intersection improvement recommendations in the FHU study and NEATS. This refined operations analysis show that the proposed roadways and intersections will function at an acceptable level of service.



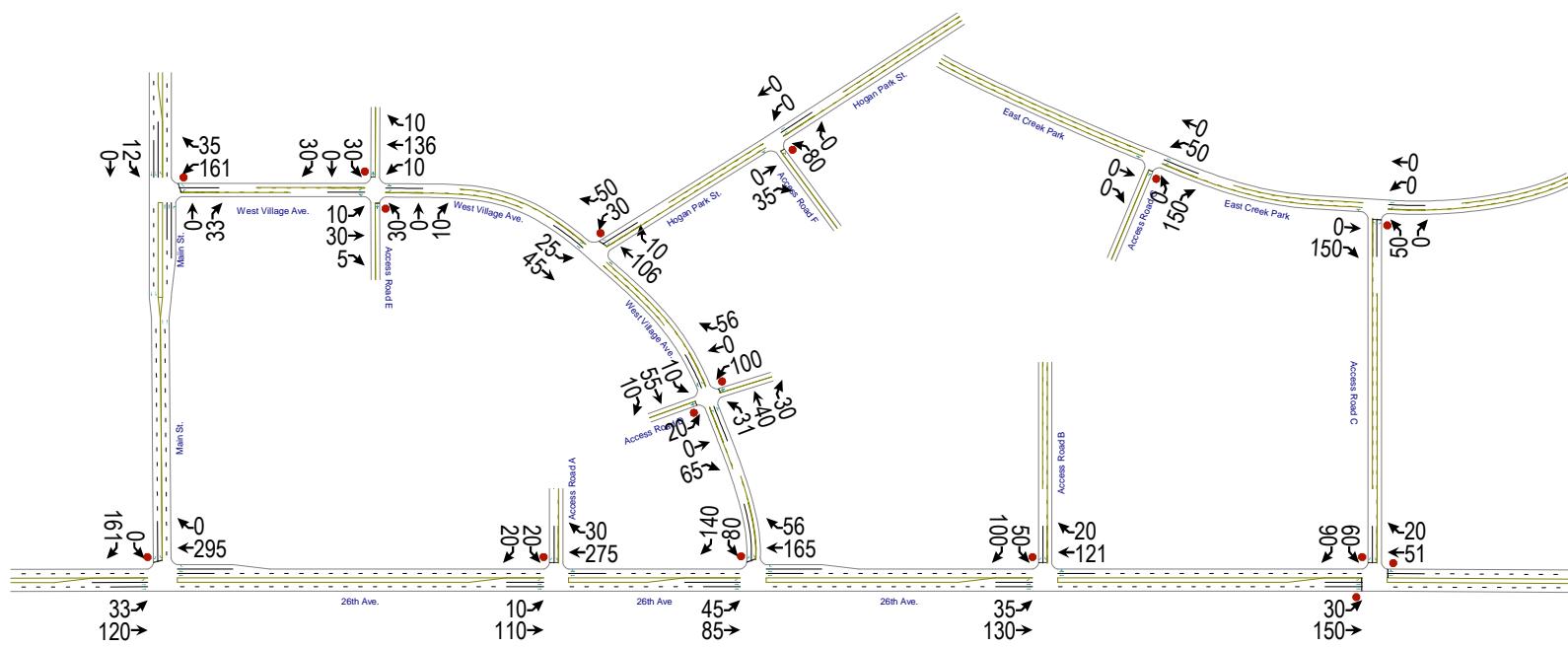
ALDRIDGE TRANSPORTATION CONSULTANTS, LLC

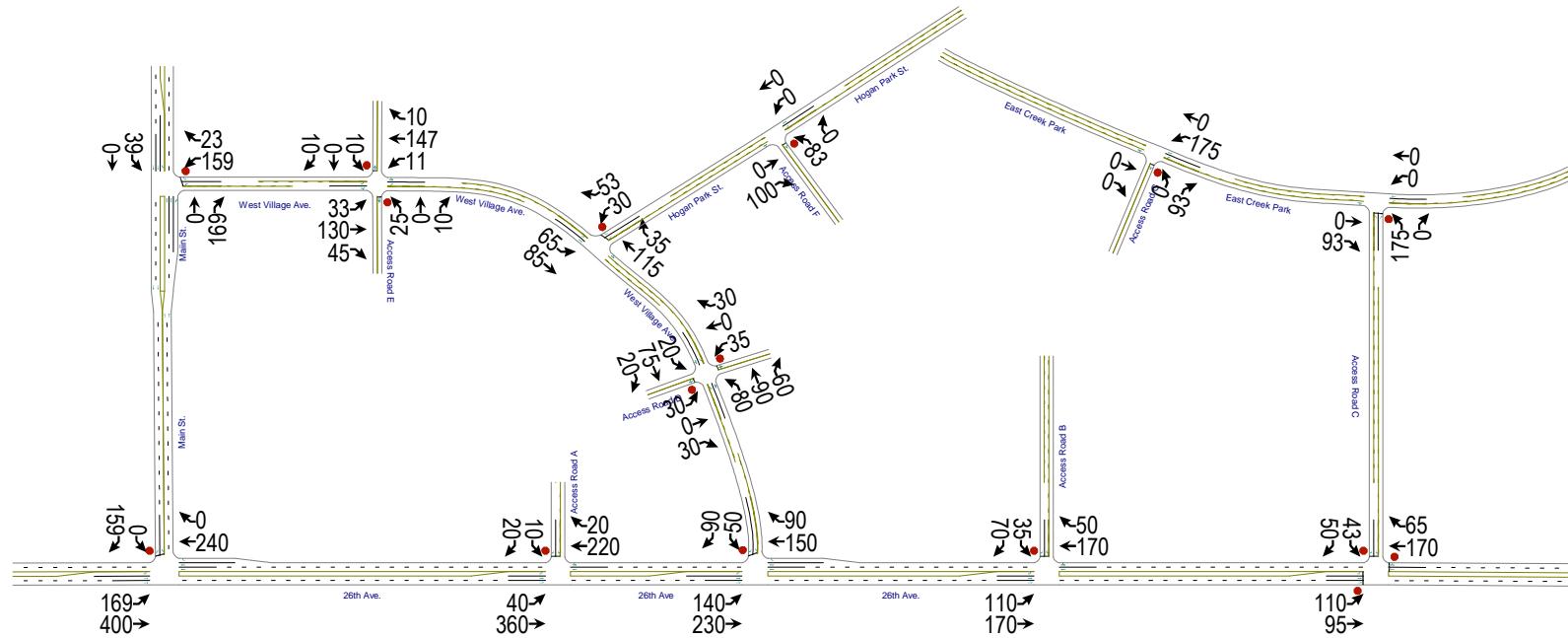
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APPENDIX

Aurora Highlands Phase 1,2,3

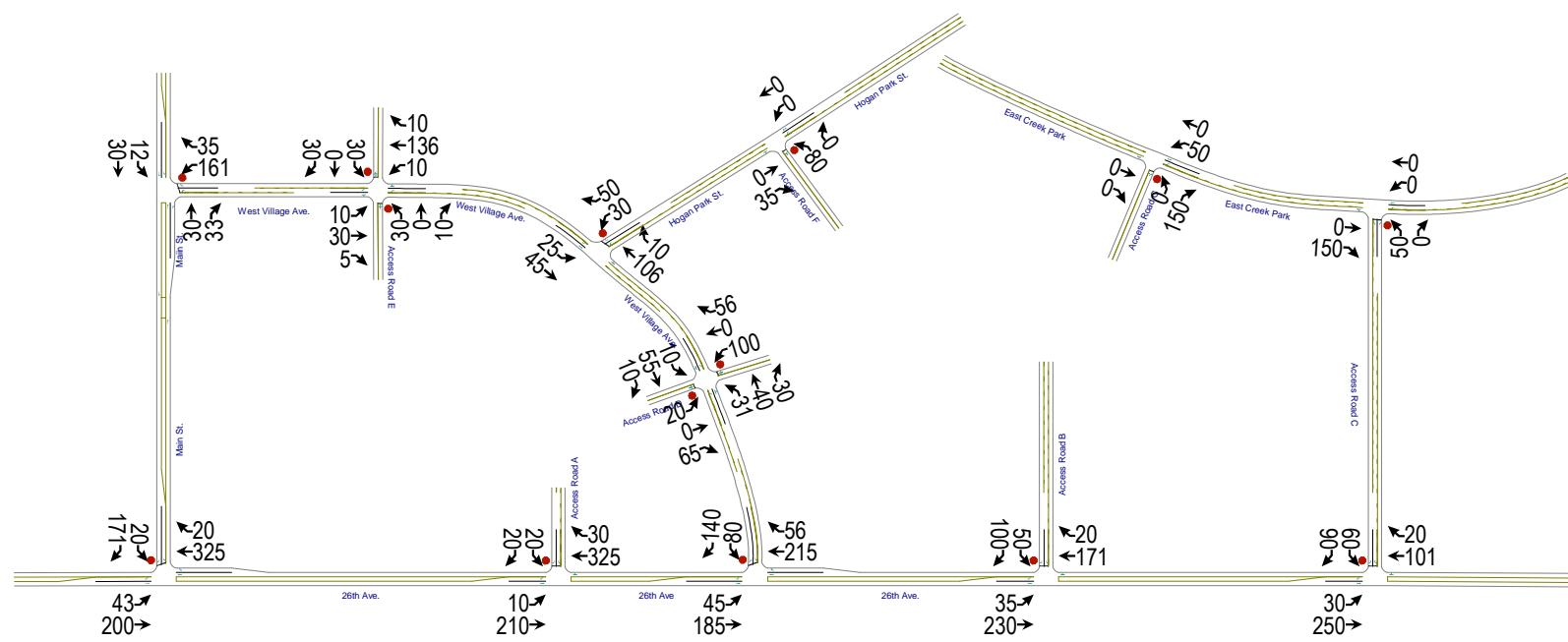
Site Generated AM ONLY





Aurora Highlands
Phase 1,2,3

Phase 1 AM



Intersection

Int Delay, s/veh 4.1

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 45 | 185 | 215 | 56 | 80 | 140 |
| Future Vol, veh/h | 45 | 185 | 215 | 56 | 80 | 140 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 150 | - | - | 150 | 150 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 49 | 201 | 234 | 61 | 87 | 152 |

| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 295 | 0 | - |
| Stage 1 | - | - | 234 |
| Stage 2 | - | - | 299 |
| Critical Hdwy | 4.12 | - | - |
| Critical Hdwy Stg 1 | - | - | 5.42 |
| Critical Hdwy Stg 2 | - | - | 5.42 |
| Follow-up Hdwy | 2.218 | - | - |
| Pot Cap-1 Maneuver | 1266 | - | - |
| Stage 1 | - | - | 805 |
| Stage 2 | - | - | 752 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 1266 | - | - |
| Mov Cap-2 Maneuver | - | - | - |
| Stage 1 | - | - | 774 |
| Stage 2 | - | - | 752 |

| Approach | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 1.6 | 0 | 11.8 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-----|-----|-----|-------|-------|
| Capacity (veh/h) | 1266 | - | - | - | 487 | 805 |
| HCM Lane V/C Ratio | 0.039 | - | - | - | 0.179 | 0.189 |
| HCM Control Delay (s) | 8 | - | - | - | 14 | 10.5 |
| HCM Lane LOS | A | - | - | - | B | B |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - | 0.6 | 0.7 |

| Intersection | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------|--------|------|-------|--------|------|-------|--------|-------|-------|-------|-------|--|--|--|--|--|--|--|
| Int Delay, s/veh | 3.9 | | | | | | | | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | | | | | | | |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | | ↔ | ↔ | | ↔ | ↔ | | | | | | | | |
| Traffic Vol, veh/h | 10 | 30 | 5 | 10 | 136 | 10 | 30 | 0 | 10 | 30 | 0 | 30 | | | | | | | |
| Future Vol, veh/h | 10 | 30 | 5 | 10 | 136 | 10 | 30 | 0 | 10 | 30 | 0 | 30 | | | | | | | |
| 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 | 100 | - | - | 100 | - | - | - | - | - | - | - | - | | | | | | | |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | | | | | | | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | | | | | | | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | | | | | | | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | |
| Mvmt Flow | 11 | 33 | 5 | 11 | 148 | 11 | 33 | 0 | 11 | 33 | 0 | 33 | | | | | | | |
| Major/Minor | | | | | | | | | | | | | | | | | | | |
| Major1 | | Major2 | | | Minor1 | | | Minor2 | | | | | | | | | | | |
| Conflicting Flow All | 159 | 0 | 0 | 38 | 0 | 0 | 250 | 239 | 36 | 239 | 236 | 154 | | | | | | | |
| Stage 1 | - | - | - | - | - | - | 58 | 58 | - | 176 | 176 | - | | | | | | | |
| Stage 2 | - | - | - | - | - | - | 192 | 181 | - | 63 | 60 | - | | | | | | | |
| 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 | 1420 | - | - | 1572 | - | - | 703 | 662 | 1037 | 715 | 665 | 892 | | | | | | | |
| Stage 1 | - | - | - | - | - | - | 954 | 847 | - | 826 | 753 | - | | | | | | | |
| Stage 2 | - | - | - | - | - | - | 810 | 750 | - | 948 | 845 | - | | | | | | | |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1420 | - | - | 1572 | - | - | 670 | 652 | 1037 | 699 | 655 | 892 | | | | | | | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 670 | 652 | - | 699 | 655 | - | | | | | | | |
| Stage 1 | - | - | - | - | - | - | 946 | 840 | - | 819 | 748 | - | | | | | | | |
| Stage 2 | - | - | - | - | - | - | 775 | 745 | - | 931 | 838 | - | | | | | | | |
| Approach | | | | | | | | | | | | | | | | | | | |
| EB | | | WB | | | NB | | | SB | | | | | | | | | | |
| HCM Control Delay, s | 1.7 | | 0.5 | | | 10.2 | | | 10 | | | | | | | | | | |
| HCM LOS | B | | | | | | B | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | | | | | | | | | | | | | | | | | | | |
| Capacity (veh/h) | 735 | 1420 | - | - | 1572 | - | - | - | 784 | | | | | | | | | | |
| HCM Lane V/C Ratio | 0.059 | 0.008 | - | - | 0.007 | - | - | - | 0.083 | | | | | | | | | | |
| HCM Control Delay (s) | 10.2 | 7.6 | - | - | 7.3 | - | - | - | 10 | | | | | | | | | | |
| HCM Lane LOS | B | A | - | - | A | - | - | - | B | | | | | | | | | | |
| HCM 95th %tile Q(veh) | 0.2 | 0 | - | - | 0 | - | - | - | 0.3 | | | | | | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|-------|--------|-------|-------|--------|-------|-------|--------|------|-------|------|------|
| Int Delay, s/veh 6.9 | | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↔ | | | ↔ | | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 20 | 0 | 65 | 100 | 0 | 56 | 31 | 40 | 30 | 10 | 55 | 10 |
| Future Vol, veh/h | 20 | 0 | 65 | 100 | 0 | 56 | 31 | 40 | 30 | 10 | 55 | 10 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 22 | 0 | 71 | 109 | 0 | 61 | 34 | 43 | 33 | 11 | 60 | 11 |
| Major/Minor | | | | | | | | | | | | |
| Minor2 | | Minor1 | | | Major1 | | | Major2 | | | | |
| Conflicting Flow All | 246 | 232 | 66 | 251 | 221 | 60 | 71 | 0 | 0 | 76 | 0 | 0 |
| Stage 1 | 88 | 88 | - | 128 | 128 | - | - | - | - | - | - | - |
| Stage 2 | 158 | 144 | - | 123 | 93 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 708 | 668 | 998 | 702 | 678 | 1005 | 1529 | - | - | 1523 | - | - |
| Stage 1 | 920 | 822 | - | 876 | 790 | - | - | - | - | - | - | - |
| Stage 2 | 844 | 778 | - | 881 | 818 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 650 | 649 | 998 | 637 | 658 | 1005 | 1529 | - | - | 1523 | - | - |
| Mov Cap-2 Maneuver | 650 | 649 | - | 637 | 658 | - | - | - | - | - | - | - |
| Stage 1 | 900 | 816 | - | 857 | 773 | - | - | - | - | - | - | - |
| Stage 2 | 775 | 761 | - | 813 | 812 | - | - | - | - | - | - | - |
| Approach | | | | | | | | | | | | |
| EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 9.5 | | 11.4 | | | 2.3 | | | 1 | | | |
| HCM LOS | A | | B | | | | | | | | | |
| Minor Lane/Major Mvmt | | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR | | | |
| Capacity (veh/h) | 1529 | | - | - | 886 | 733 | 1523 | - | - | | | |
| HCM Lane V/C Ratio | 0.022 | | - | - | 0.104 | 0.231 | 0.007 | - | - | | | |
| HCM Control Delay (s) | 7.4 | | - | - | 9.5 | 11.4 | 7.4 | - | - | | | |
| HCM Lane LOS | A | | - | - | A | B | A | - | - | | | |
| HCM 95th %tile Q(veh) | 0.1 | | - | - | 0.3 | 0.9 | 0 | - | - | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 0.9 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ↖ | ↑ | ↗ | ↖ | ↖ | ↗ |
| Traffic Vol, veh/h | 10 | 210 | 325 | 30 | 20 | 20 |
| Future Vol, veh/h | 10 | 210 | 325 | 30 | 20 | 20 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 11 | 228 | 353 | 33 | 22 | 22 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | 386 | 0 | - | 0 | 620 | 370 |
| Stage 1 | - | - | - | - | 370 | - |
| Stage 2 | - | - | - | - | 250 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1172 | - | - | - | 452 | 676 |
| Stage 1 | - | - | - | - | 699 | - |
| Stage 2 | - | - | - | - | 792 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1172 | - | - | - | 448 | 676 |
| Mov Cap-2 Maneuver | - | - | - | - | 448 | - |
| Stage 1 | - | - | - | - | 693 | - |
| Stage 2 | - | - | - | - | 792 | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0.4 | 0 | 12 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
| Capacity (veh/h) | 1172 | - | - | - | 448 | 676 |
| HCM Lane V/C Ratio | 0.009 | - | - | - | 0.049 | 0.032 |
| HCM Control Delay (s) | 8.1 | - | - | - | 13.4 | 10.5 |
| HCM Lane LOS | A | - | - | - | B | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0.2 | 0.1 |

Intersection

Int Delay, s/veh 6.6

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↖ | ↗ | ↑ | ↖ | ↖ | ↑ |
| Traffic Vol, veh/h | 161 | 35 | 30 | 33 | 12 | 30 |
| Future Vol, veh/h | 161 | 35 | 30 | 33 | 12 | 30 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | 0 | - | 150 | 150 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 175 | 38 | 33 | 36 | 13 | 33 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 92 | 33 | 0 | 0 | 69 |
| Stage 1 | 33 | - | - | - | - |
| Stage 2 | 59 | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 |
| Pot Cap-1 Maneuver | 908 | 1041 | - | - | 1532 |
| Stage 1 | 989 | - | - | - | - |
| Stage 2 | 964 | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 901 | 1041 | - | - | 1532 |
| Mov Cap-2 Maneuver | 901 | - | - | - | - |
| Stage 1 | 989 | - | - | - | - |
| Stage 2 | 956 | - | - | - | - |

| Approach | WB | NB | SB |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 9.7 | 0 | 2.1 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | WBLn2 | SBL | SBT |
|-----------------------|-----|-----|-------|-------|-------|-----|
| Capacity (veh/h) | - | - | 901 | 1041 | 1532 | - |
| HCM Lane V/C Ratio | - | - | 0.194 | 0.037 | 0.009 | - |
| HCM Control Delay (s) | - | - | 10 | 8.6 | 7.4 | - |
| HCM Lane LOS | - | - | B | A | A | - |
| HCM 95th %tile Q(veh) | - | - | 0.7 | 0.1 | 0 | - |

Intersection

Int Delay, s/veh 3.2

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↖ | ↑ | ↗ | ↖ | ↖ | ↗ |
| Traffic Vol, veh/h | 35 | 230 | 171 | 20 | 50 | 100 |
| Future Vol, veh/h | 35 | 230 | 171 | 20 | 50 | 100 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 38 | 250 | 186 | 22 | 54 | 109 |

| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|-------------|
| Conflicting Flow All | 208 | 0 | - |
| Stage 1 | - | - | 197 |
| Stage 2 | - | - | 326 |
| Critical Hdwy | 4.12 | - | 6.42 6.22 |
| Critical Hdwy Stg 1 | - | - | 5.42 |
| Critical Hdwy Stg 2 | - | - | 5.42 |
| Follow-up Hdwy | 2.218 | - | 3.518 3.318 |
| Pot Cap-1 Maneuver | 1363 | - | 514 844 |
| Stage 1 | - | - | 836 |
| Stage 2 | - | - | 731 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 1363 | - | 500 844 |
| Mov Cap-2 Maneuver | - | - | 500 |
| Stage 1 | - | - | 813 |
| Stage 2 | - | - | 731 |

| Approach | EB | WB | SB |
|----------------------|----|----|----|
| HCM Control Delay, s | 1 | 0 | 11 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-----|-----|-----|-------|-------|
| Capacity (veh/h) | 1363 | - | - | - | 500 | 844 |
| HCM Lane V/C Ratio | 0.028 | - | - | - | 0.109 | 0.129 |
| HCM Control Delay (s) | 7.7 | - | - | - | 13.1 | 9.9 |
| HCM Lane LOS | A | - | - | - | B | A |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - | 0.4 | 0.4 |

Intersection

Int Delay, s/veh 3.3

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↖ | ↑ | ↗ | ↖ | ↖ | ↗ |
| Traffic Vol, veh/h | 30 | 250 | 101 | 20 | 60 | 90 |
| Future Vol, veh/h | 30 | 250 | 101 | 20 | 60 | 90 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 272 | 110 | 22 | 65 | 98 |

| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 132 | 0 | - |
| Stage 1 | - | - | 121 |
| Stage 2 | - | - | 338 |
| Critical Hdwy | 4.12 | - | - |
| Critical Hdwy Stg 1 | - | - | 5.42 |
| Critical Hdwy Stg 2 | - | - | 5.42 |
| Follow-up Hdwy | 2.218 | - | - |
| Pot Cap-1 Maneuver | 1453 | - | - |
| Stage 1 | - | - | 904 |
| Stage 2 | - | - | 722 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 1453 | - | - |
| Mov Cap-2 Maneuver | - | - | - |
| Stage 1 | - | - | 883 |
| Stage 2 | - | - | 722 |

| Approach | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.8 | 0 | 10.6 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-----|-----|-----|-------|-------|
| Capacity (veh/h) | 1453 | - | - | - | 547 | 930 |
| HCM Lane V/C Ratio | 0.022 | - | - | - | 0.119 | 0.105 |
| HCM Control Delay (s) | 7.5 | - | - | - | 12.5 | 9.3 |
| HCM Lane LOS | A | - | - | - | B | A |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - | 0.4 | 0.4 |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 2.4 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 0 | 150 | 0 | 0 | 50 | 0 |
| Future Vol, veh/h | 0 | 150 | 0 | 0 | 50 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 100 | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 163 | 0 | 0 | 54 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 163 | 0 | 83 | 82 |
| Stage 1 | - | - | - | - | 82 | - |
| Stage 2 | - | - | - | - | 1 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1416 | - | 919 | 978 |
| Stage 1 | - | - | - | - | 941 | - |
| Stage 2 | - | - | - | - | 1022 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1416 | - | 919 | 978 |
| Mov Cap-2 Maneuver | - | - | - | - | 855 | - |
| Stage 1 | - | - | - | - | 941 | - |
| Stage 2 | - | - | - | - | 1022 | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0 | 9.5 | | | |
| HCM LOS | | | A | | | |
| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBT | EBR | WBL | WBT |
| Capacity (veh/h) | 855 | - | - | - | 1416 | - |
| HCM Lane V/C Ratio | 0.064 | - | - | - | - | - |
| HCM Control Delay (s) | 9.5 | 0 | - | - | 0 | - |
| HCM Lane LOS | A | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | - | 0 | - |

Intersection

Int Delay, s/veh 3.5

| Movement | WBL | WBR | SEL | SET | NWT | NWR |
|----------|-----|-----|-----|-----|-----|-----|
|----------|-----|-----|-----|-----|-----|-----|

| | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | |
| Traffic Vol, veh/h | 30 | 50 | 25 | 45 | 106 | 10 |
| Future Vol, veh/h | 30 | 50 | 25 | 45 | 106 | 10 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 54 | 27 | 49 | 115 | 11 |

| Major/Minor | Minor2 | Major1 | Major2 |
|-------------|--------|--------|--------|
|-------------|--------|--------|--------|

| | | | | | | |
|----------------------|-------|-------|-------|---|---|---|
| Conflicting Flow All | 224 | 121 | 126 | 0 | - | 0 |
| Stage 1 | 121 | - | - | - | - | - |
| Stage 2 | 103 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |
| Pot Cap-1 Maneuver | 764 | 930 | 1460 | - | - | - |
| Stage 1 | 904 | - | - | - | - | - |
| Stage 2 | 921 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 750 | 930 | 1460 | - | - | - |
| Mov Cap-2 Maneuver | 754 | - | - | - | - | - |
| Stage 1 | 888 | - | - | - | - | - |
| Stage 2 | 921 | - | - | - | - | - |

| Approach | WB | SE | NW |
|----------|----|----|----|
|----------|----|----|----|

| | | | |
|----------------------|-----|-----|---|
| HCM Control Delay, s | 9.4 | 2.7 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NWT | NWR | WB Ln1 | WB Ln2 | SEL | SET |
|-----------------------|-----|-----|--------|--------|-----|-----|
|-----------------------|-----|-----|--------|--------|-----|-----|

| | | | | | | |
|-----------------------|---|---|-------|-------|-------|---|
| Capacity (veh/h) | - | - | 754 | 930 | 1460 | - |
| HCM Lane V/C Ratio | - | - | 0.043 | 0.058 | 0.019 | - |
| HCM Control Delay (s) | - | - | 10 | 9.1 | 7.5 | - |
| HCM Lane LOS | - | - | B | A | A | - |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0.2 | 0.1 | - |

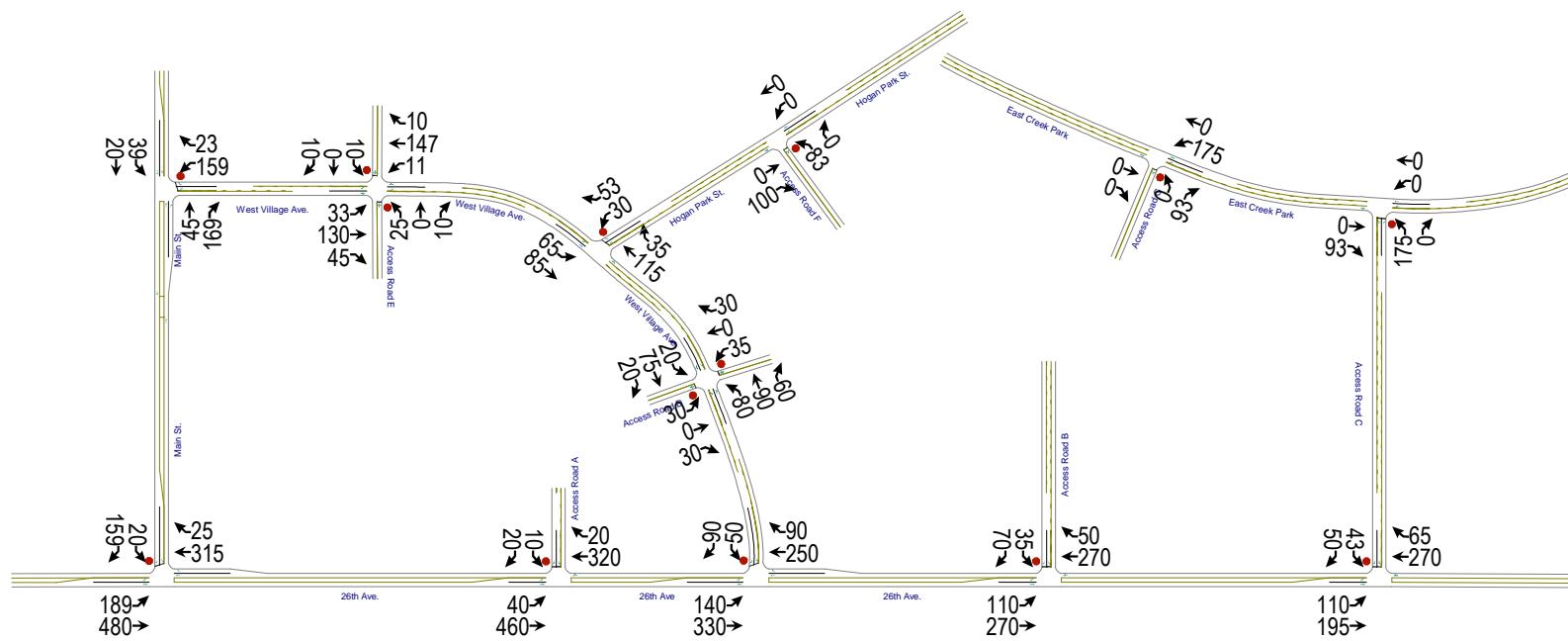
| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh | 8.5 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑ | | ↑ | ↑ | Y | |
| Traffic Vol, veh/h | 0 | 0 | 50 | 0 | 0 | 150 |
| Future Vol, veh/h | 0 | 0 | 50 | 0 | 0 | 150 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 54 | 0 | 0 | 163 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 1 | 0 | 109 | 1 |
| Stage 1 | - | - | - | - | 1 | - |
| Stage 2 | - | - | - | - | 108 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1622 | - | 888 | 1084 |
| Stage 1 | - | - | - | - | 1022 | - |
| Stage 2 | - | - | - | - | 916 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1622 | - | 859 | 1084 |
| Mov Cap-2 Maneuver | - | - | - | - | 805 | - |
| Stage 1 | - | - | - | - | 1022 | - |
| Stage 2 | - | - | - | - | 886 | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 7.3 | 8.9 | | | |
| HCM LOS | | | A | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT | |
| Capacity (veh/h) | 1084 | - | - | 1622 | - | |
| HCM Lane V/C Ratio | 0.15 | - | - | 0.034 | - | |
| HCM Control Delay (s) | 8.9 | - | - | 7.3 | - | |
| HCM Lane LOS | A | - | - | A | - | |
| HCM 95th %tile Q(veh) | 0.5 | - | - | 0.1 | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 3.5 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 43 | 200 | 325 | 20 | 20 | 171 |
| Future Vol, veh/h | 43 | 200 | 325 | 20 | 20 | 171 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 150 | - | - | 150 | 150 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 47 | 217 | 353 | 22 | 22 | 186 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | 375 | 0 | - | 0 | 664 | 353 |
| Stage 1 | - | - | - | - | 353 | - |
| Stage 2 | - | - | - | - | 311 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1183 | - | - | - | 426 | 691 |
| Stage 1 | - | - | - | - | 711 | - |
| Stage 2 | - | - | - | - | 743 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1183 | - | - | - | 409 | 691 |
| Mov Cap-2 Maneuver | - | - | - | - | 409 | - |
| Stage 1 | - | - | - | - | 683 | - |
| Stage 2 | - | - | - | - | 743 | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 1.4 | 0 | 12.3 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
| Capacity (veh/h) | 1183 | - | - | - | 409 | 691 |
| HCM Lane V/C Ratio | 0.04 | - | - | - | 0.053 | 0.269 |
| HCM Control Delay (s) | 8.2 | - | - | - | 14.3 | 12.1 |
| HCM Lane LOS | A | - | - | - | B | B |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - | 0.2 | 1.1 |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 6.4 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NWL | NWR |
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | Y | Y |
| Traffic Vol, veh/h | 0 | 35 | 0 | 0 | 80 | 0 |
| Future Vol, veh/h | 0 | 35 | 0 | 0 | 80 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 38 | 0 | 0 | 87 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 38 | 0 | 20 | 19 |
| Stage 1 | - | - | - | - | 19 | - |
| Stage 2 | - | - | - | - | 1 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1572 | - | 997 | 1059 |
| Stage 1 | - | - | - | - | 1004 | - |
| Stage 2 | - | - | - | - | 1022 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1572 | - | 997 | 1059 |
| Mov Cap-2 Maneuver | - | - | - | - | 915 | - |
| Stage 1 | - | - | - | - | 1004 | - |
| Stage 2 | - | - | - | - | 1022 | - |
| Approach | EB | WB | NW | | | |
| HCM Control Delay, s | 0 | 0 | 9.3 | | | |
| HCM LOS | | | A | | | |
| Minor Lane/Major Mvmt | NWLn1 | EBT | EBR | WBL | WBT | |
| Capacity (veh/h) | 915 | - | - | 1572 | - | |
| HCM Lane V/C Ratio | 0.095 | - | - | - | - | |
| HCM Control Delay (s) | 9.3 | - | - | 0 | - | |
| HCM Lane LOS | A | - | - | A | - | |
| HCM 95th %tile Q(veh) | 0.3 | - | - | 0 | - | |

Aurora Highlands
Phase 1,2,3

Phase 1 PM



Intersection

Int Delay, s/veh 3.4

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 140 | 330 | 250 | 90 | 50 | 90 |
| Future Vol, veh/h | 140 | 330 | 250 | 90 | 50 | 90 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 150 | - | - | 150 | 150 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 152 | 359 | 272 | 98 | 54 | 98 |

| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|-------------|
| Conflicting Flow All | 370 | 0 | - |
| Stage 1 | - | - | 272 |
| Stage 2 | - | - | 663 |
| Critical Hdwy | 4.12 | - | 6.42 6.22 |
| Critical Hdwy Stg 1 | - | - | 5.42 |
| Critical Hdwy Stg 2 | - | - | 5.42 |
| Follow-up Hdwy | 2.218 | - | 3.518 3.318 |
| Pot Cap-1 Maneuver | 1189 | - | 295 767 |
| Stage 1 | - | - | 774 |
| Stage 2 | - | - | 512 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 1189 | - | 257 767 |
| Mov Cap-2 Maneuver | - | - | 257 |
| Stage 1 | - | - | 675 |
| Stage 2 | - | - | 512 |

| Approach | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 2.5 | 0 | 14.8 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-----|-----|-----|-------|-------|
| Capacity (veh/h) | 1189 | - | - | - | 257 | 767 |
| HCM Lane V/C Ratio | 0.128 | - | - | - | 0.211 | 0.128 |
| HCM Control Delay (s) | 8.5 | - | - | - | 22.7 | 10.4 |
| HCM Lane LOS | A | - | - | - | C | B |
| HCM 95th %tile Q(veh) | 0.4 | - | - | - | 0.8 | 0.4 |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|-------|--------|-------|--------|------|--------|-------|-------|-------|-------|-------|
| Int Delay, s/veh | 2.2 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ |
| Traffic Vol, veh/h | 33 | 130 | 45 | 11 | 147 | 10 | 25 | 0 | 10 | 10 | 0 | 10 |
| Future Vol, veh/h | 33 | 130 | 45 | 11 | 147 | 10 | 25 | 0 | 10 | 10 | 0 | 10 |
| 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 | 100 | - | - | 100 | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 36 | 141 | 49 | 12 | 160 | 11 | 27 | 0 | 11 | 11 | 0 | 11 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | Major2 | | Minor1 | | Minor2 | | | | | |
| Conflicting Flow All | 171 | 0 | 0 | 190 | 0 | 0 | 433 | 433 | 166 | 433 | 452 | 166 |
| Stage 1 | - | - | - | - | - | - | 238 | 238 | - | 190 | 190 | - |
| Stage 2 | - | - | - | - | - | - | 195 | 195 | - | 243 | 262 | - |
| 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 | 1406 | - | - | 1384 | - | - | 533 | 516 | 878 | 533 | 503 | 878 |
| Stage 1 | - | - | - | - | - | - | 765 | 708 | - | 812 | 743 | - |
| Stage 2 | - | - | - | - | - | - | 807 | 739 | - | 761 | 691 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1406 | - | - | 1384 | - | - | 513 | 498 | 878 | 513 | 485 | 878 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 513 | 498 | - | 513 | 485 | - |
| Stage 1 | - | - | - | - | - | - | 745 | 690 | - | 791 | 736 | - |
| Stage 2 | - | - | - | - | - | - | 790 | 732 | - | 732 | 673 | - |
| | | | | | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | | | | |
| HCM Control Delay, s | 1.2 | | 0.5 | | 11.6 | | 10.7 | | | | | |
| HCM LOS | | | | | B | | B | | | | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 582 | 1406 | - | - | 1384 | - | - | 648 | | | | |
| HCM Lane V/C Ratio | 0.065 | 0.026 | - | - | 0.009 | - | - | 0.034 | | | | |
| HCM Control Delay (s) | 11.6 | 7.6 | - | - | 7.6 | - | - | 10.7 | | | | |
| HCM Lane LOS | B | A | - | - | A | - | - | B | | | | |
| HCM 95th %tile Q(veh) | 0.2 | 0.1 | - | - | 0 | - | - | 0.1 | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|-------|--------|-------|--------|-------|--------|------|------|-------|------|------|
| Int Delay, s/veh | 4.7 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↔ | | | ↔ | | | ↑ | ↑ | | ↑ | ↑ | |
| Traffic Vol, veh/h | 30 | 0 | 30 | 35 | 0 | 30 | 80 | 90 | 60 | 20 | 75 | 20 |
| Future Vol, veh/h | 30 | 0 | 30 | 35 | 0 | 30 | 80 | 90 | 60 | 20 | 75 | 20 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 0 | 33 | 38 | 0 | 33 | 87 | 98 | 65 | 22 | 82 | 22 |
| | | | | | | | | | | | | |
| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
| Conflicting Flow All | 458 | 474 | 93 | 459 | 453 | 131 | 104 | 0 | 0 | 163 | 0 | 0 |
| Stage 1 | 137 | 137 | - | 305 | 305 | - | - | - | - | - | - | - |
| Stage 2 | 321 | 337 | - | 154 | 148 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 513 | 489 | 964 | 512 | 503 | 919 | 1488 | - | - | 1416 | - | - |
| Stage 1 | 866 | 783 | - | 705 | 662 | - | - | - | - | - | - | - |
| Stage 2 | 691 | 641 | - | 848 | 775 | - | - | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 467 | 453 | 964 | 467 | 466 | 919 | 1488 | - | - | 1416 | - | - |
| Mov Cap-2 Maneuver | 467 | 453 | - | 467 | 466 | - | - | - | - | - | - | - |
| Stage 1 | 816 | 770 | - | 664 | 624 | - | - | - | - | - | - | - |
| Stage 2 | 628 | 604 | - | 807 | 763 | - | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | | | | |
| HCM Control Delay, s | 11.4 | | 11.7 | | 2.6 | | 1.3 | | | | | |
| HCM LOS | B | | B | | | | | | | | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR | | | | |
| Capacity (veh/h) | 1488 | - | - | 629 | 604 | 1416 | - | - | | | | |
| HCM Lane V/C Ratio | 0.058 | - | - | 0.104 | 0.117 | 0.015 | - | - | | | | |
| HCM Control Delay (s) | 7.6 | - | - | 11.4 | 11.7 | 7.6 | - | - | | | | |
| HCM Lane LOS | A | - | - | B | B | A | - | - | | | | |
| HCM 95th %tile Q(veh) | 0.2 | - | - | 0.3 | 0.4 | 0 | - | - | | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 0.9 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ↖ | ↑ | ↗ | ↖ | ↖ | ↗ |
| Traffic Vol, veh/h | 40 | 460 | 320 | 20 | 10 | 20 |
| Future Vol, veh/h | 40 | 460 | 320 | 20 | 10 | 20 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 43 | 500 | 348 | 22 | 11 | 22 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | 370 | 0 | - | 0 | 945 | 359 |
| Stage 1 | - | - | - | - | 359 | - |
| Stage 2 | - | - | - | - | 586 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1189 | - | - | - | 291 | 685 |
| Stage 1 | - | - | - | - | 707 | - |
| Stage 2 | - | - | - | - | 556 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1189 | - | - | - | 281 | 685 |
| Mov Cap-2 Maneuver | - | - | - | - | 281 | - |
| Stage 1 | - | - | - | - | 682 | - |
| Stage 2 | - | - | - | - | 556 | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0.7 | 0 | 13 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
| Capacity (veh/h) | 1189 | - | - | - | 281 | 685 |
| HCM Lane V/C Ratio | 0.037 | - | - | - | 0.039 | 0.032 |
| HCM Control Delay (s) | 8.1 | - | - | - | 18.3 | 10.4 |
| HCM Lane LOS | A | - | - | - | C | B |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - | 0.1 | 0.1 |

Intersection

Int Delay, s/veh 4.8

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|-------------|------|------|------|------|------|
| Lane Configurations | ↖ ↗ ↘ ↗ ↘ ↗ | | | | | |
| Traffic Vol, veh/h | 159 | 23 | 45 | 169 | 39 | 20 |
| Future Vol, veh/h | 159 | 23 | 45 | 169 | 39 | 20 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | 0 | - | 150 | 150 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 173 | 25 | 49 | 184 | 42 | 22 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 155 | 49 | 0 | 0 | 233 |
| Stage 1 | 49 | - | - | - | - |
| Stage 2 | 106 | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 |
| Pot Cap-1 Maneuver | 836 | 1020 | - | - | 1335 |
| Stage 1 | 973 | - | - | - | - |
| Stage 2 | 918 | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 810 | 1020 | - | - | 1335 |
| Mov Cap-2 Maneuver | 810 | - | - | - | - |
| Stage 1 | 973 | - | - | - | - |
| Stage 2 | 890 | - | - | - | - |

| Approach | WB | NB | SB |
|----------------------|------|----|-----|
| HCM Control Delay, s | 10.3 | 0 | 5.1 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | WBLn2 | SBL | SBT |
|-----------------------|-----|-----|-------|-------|-------|-----|
| Capacity (veh/h) | - | - | 810 | 1020 | 1335 | - |
| HCM Lane V/C Ratio | - | - | 0.213 | 0.025 | 0.032 | - |
| HCM Control Delay (s) | - | - | 10.6 | 8.6 | 7.8 | - |
| HCM Lane LOS | - | - | B | A | A | - |
| HCM 95th %tile Q(veh) | - | - | 0.8 | 0.1 | 0.1 | - |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 2.9 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ↖ | ↑ | ↗ | ↖ | ↖ | ↗ |
| Traffic Vol, veh/h | 110 | 270 | 270 | 50 | 35 | 70 |
| Future Vol, veh/h | 110 | 270 | 270 | 50 | 35 | 70 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 120 | 293 | 293 | 54 | 38 | 76 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | 347 | 0 | - | 0 | 853 | 320 |
| Stage 1 | - | - | - | - | 320 | - |
| Stage 2 | - | - | - | - | 533 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1212 | - | - | - | 330 | 721 |
| Stage 1 | - | - | - | - | 736 | - |
| Stage 2 | - | - | - | - | 588 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1212 | - | - | - | 297 | 721 |
| Mov Cap-2 Maneuver | - | - | - | - | 297 | - |
| Stage 1 | - | - | - | - | 663 | - |
| Stage 2 | - | - | - | - | 588 | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 2.4 | 0 | 13.4 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
| Capacity (veh/h) | 1212 | - | - | - | 297 | 721 |
| HCM Lane V/C Ratio | 0.099 | - | - | - | 0.128 | 0.106 |
| HCM Control Delay (s) | 8.3 | - | - | - | 18.9 | 10.6 |
| HCM Lane LOS | A | - | - | - | C | B |
| HCM 95th %tile Q(veh) | 0.3 | - | - | - | 0.4 | 0.4 |

Intersection

Int Delay, s/veh 3

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↖ | ↑ | ↗ | ↖ | ↖ | ↗ |
| Traffic Vol, veh/h | 110 | 195 | 270 | 65 | 43 | 50 |
| Future Vol, veh/h | 110 | 195 | 270 | 65 | 43 | 50 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 120 | 212 | 293 | 71 | 47 | 54 |

| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 364 | 0 | - |
| Stage 1 | - | - | 329 |
| Stage 2 | - | - | 452 |
| Critical Hdwy | 4.12 | - | - |
| Critical Hdwy Stg 1 | - | - | 5.42 |
| Critical Hdwy Stg 2 | - | - | 5.42 |
| Follow-up Hdwy | 2.218 | - | - |
| Pot Cap-1 Maneuver | 1195 | - | - |
| Stage 1 | - | - | 729 |
| Stage 2 | - | - | 641 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 1195 | - | - |
| Mov Cap-2 Maneuver | - | - | - |
| Stage 1 | - | - | 656 |
| Stage 2 | - | - | 641 |

| Approach | EB | WB | SB |
|----------------------|----|----|------|
| HCM Control Delay, s | 3 | 0 | 13.9 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|------|-----|-----|-----|-------|-------|
| Capacity (veh/h) | 1195 | - | - | - | 327 | 712 |
| HCM Lane V/C Ratio | 0.1 | - | - | - | 0.143 | 0.076 |
| HCM Control Delay (s) | 8.3 | - | - | - | 17.8 | 10.5 |
| HCM Lane LOS | A | - | - | - | C | B |
| HCM 95th %tile Q(veh) | 0.3 | - | - | - | 0.5 | 0.2 |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 6.6 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 0 | 93 | 0 | 0 | 175 | 0 |
| Future Vol, veh/h | 0 | 93 | 0 | 0 | 175 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 100 | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 101 | 0 | 0 | 190 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 101 | 0 | 52 | 51 |
| Stage 1 | - | - | - | - | 51 | - |
| Stage 2 | - | - | - | - | 1 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1491 | - | 957 | 1017 |
| Stage 1 | - | - | - | - | 971 | - |
| Stage 2 | - | - | - | - | 1022 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1491 | - | 957 | 1017 |
| Mov Cap-2 Maneuver | - | - | - | - | 884 | - |
| Stage 1 | - | - | - | - | 971 | - |
| Stage 2 | - | - | - | - | 1022 | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0 | 10.2 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBT | EBR | WBL | WBT |
| Capacity (veh/h) | 884 | - | - | - | 1491 | - |
| HCM Lane V/C Ratio | 0.215 | - | - | - | - | - |
| HCM Control Delay (s) | 10.2 | 0 | - | - | 0 | - |
| HCM Lane LOS | B | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.8 | - | - | - | 0 | - |

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|-------|------|
| Int Delay, s/veh | 3.6 | | | | | |
| Movement | WBL | WBR | SEL | SET | NWT | NWR |
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 30 | 53 | 65 | 85 | 115 | 35 |
| Future Vol, veh/h | 30 | 53 | 65 | 85 | 115 | 35 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 35 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 58 | 71 | 92 | 125 | 38 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 413 | 179 | 198 | 0 | - | 0 |
| Stage 1 | 179 | - | - | - | - | - |
| Stage 2 | 234 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |
| Pot Cap-1 Maneuver | 595 | 864 | 1375 | - | - | - |
| Stage 1 | 852 | - | - | - | - | - |
| Stage 2 | 805 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 527 | 835 | 1329 | - | - | - |
| Mov Cap-2 Maneuver | 596 | - | - | - | - | - |
| Stage 1 | 780 | - | - | - | - | - |
| Stage 2 | 778 | - | - | - | - | - |
| Approach | WB | SE | | NW | | |
| HCM Control Delay, s | 10.3 | 3.4 | | 0 | | |
| HCM LOS | B | | | | | |
| Minor Lane/Major Mvmt | NWT | NWR | WBLn1 | WBLn2 | SEL | SET |
| Capacity (veh/h) | - | - | 596 | 835 | 1329 | - |
| HCM Lane V/C Ratio | - | - | 0.055 | 0.069 | 0.053 | - |
| HCM Control Delay (s) | - | - | 11.4 | 9.6 | 7.9 | - |
| HCM Lane LOS | - | - | B | A | A | - |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0.2 | 0.2 | - |

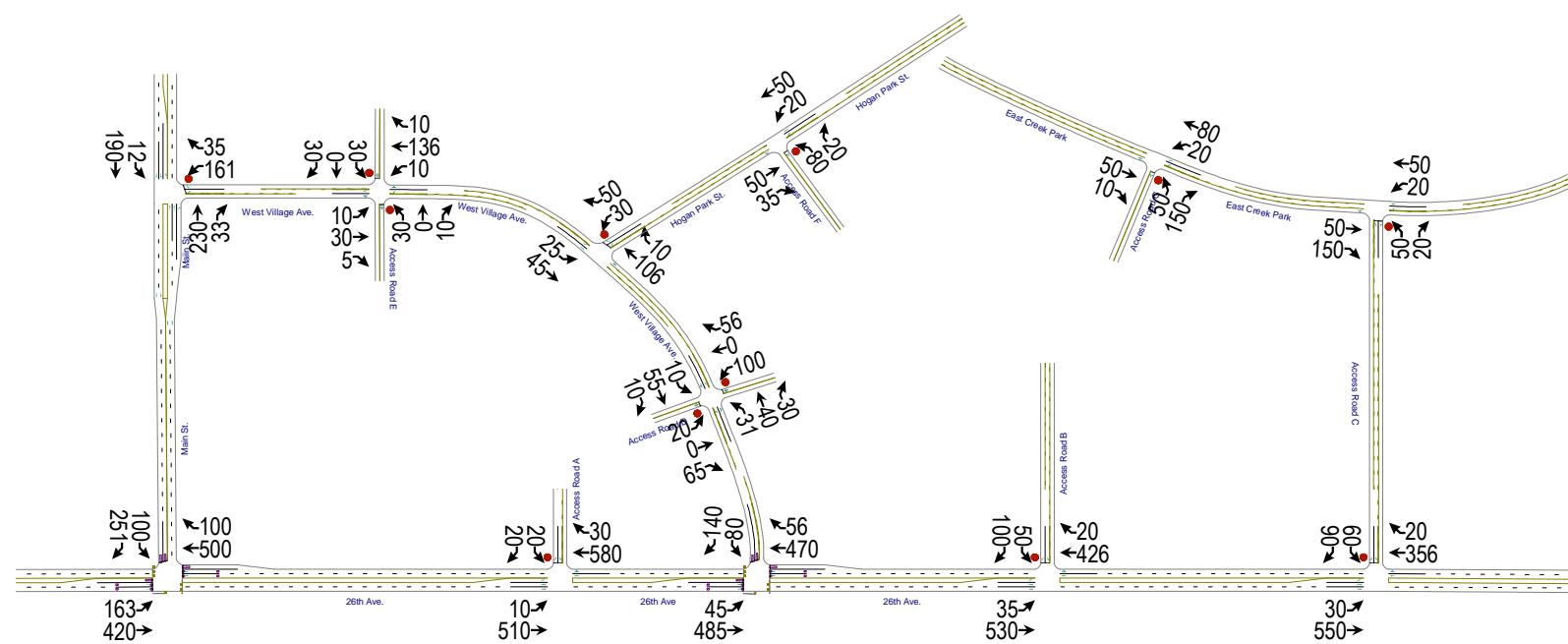
| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh | 7.9 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | Y | Y |
| Traffic Vol, veh/h | 0 | 0 | 175 | 0 | 0 | 93 |
| Future Vol, veh/h | 0 | 0 | 175 | 0 | 0 | 93 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 190 | 0 | 0 | 101 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 1 | 0 | 381 | 1 |
| Stage 1 | - | - | - | - | 1 | - |
| Stage 2 | - | - | - | - | 380 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1622 | - | 621 | 1084 |
| Stage 1 | - | - | - | - | 1022 | - |
| Stage 2 | - | - | - | - | 691 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1622 | - | 548 | 1084 |
| Mov Cap-2 Maneuver | - | - | - | - | 550 | - |
| Stage 1 | - | - | - | - | 1022 | - |
| Stage 2 | - | - | - | - | 610 | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 7.5 | 8.7 | | | |
| HCM LOS | | | A | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT | |
| Capacity (veh/h) | 1084 | - | - | 1622 | - | |
| HCM Lane V/C Ratio | 0.093 | - | - | 0.117 | - | |
| HCM Control Delay (s) | 8.7 | - | - | 7.5 | - | |
| HCM Lane LOS | A | - | - | A | - | |
| HCM 95th %tile Q(veh) | 0.3 | - | - | 0.4 | - | |

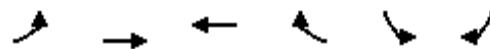
| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 3.5 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 189 | 480 | 315 | 25 | 20 | 159 |
| Future Vol, veh/h | 189 | 480 | 315 | 25 | 20 | 159 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 150 | - | - | 150 | 150 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 205 | 522 | 342 | 27 | 22 | 173 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | 369 | 0 | - | 0 | 1274 | 342 |
| Stage 1 | - | - | - | - | 342 | - |
| Stage 2 | - | - | - | - | 932 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1190 | - | - | - | 184 | 701 |
| Stage 1 | - | - | - | - | 719 | - |
| Stage 2 | - | - | - | - | 383 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1190 | - | - | - | 152 | 701 |
| Mov Cap-2 Maneuver | - | - | - | - | 152 | - |
| Stage 1 | - | - | - | - | 595 | - |
| Stage 2 | - | - | - | - | 383 | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 2.4 | 0 | 14.1 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
| Capacity (veh/h) | 1190 | - | - | - | 152 | 701 |
| HCM Lane V/C Ratio | 0.173 | - | - | - | 0.143 | 0.247 |
| HCM Control Delay (s) | 8.7 | - | - | - | 32.6 | 11.8 |
| HCM Lane LOS | A | - | - | - | D | B |
| HCM 95th %tile Q(veh) | 0.6 | - | - | - | 0.5 | 1 |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 4.3 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NWL | NWR |
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | Y | Y |
| Traffic Vol, veh/h | 0 | 100 | 0 | 0 | 83 | 0 |
| Future Vol, veh/h | 0 | 100 | 0 | 0 | 83 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 109 | 0 | 0 | 90 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 109 | 0 | 56 | 55 |
| Stage 1 | - | - | - | - | 55 | - |
| Stage 2 | - | - | - | - | 1 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1481 | - | 952 | 1012 |
| Stage 1 | - | - | - | - | 968 | - |
| Stage 2 | - | - | - | - | 1022 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1481 | - | 952 | 1012 |
| Mov Cap-2 Maneuver | - | - | - | - | 881 | - |
| Stage 1 | - | - | - | - | 968 | - |
| Stage 2 | - | - | - | - | 1022 | - |
| Approach | EB | WB | NW | | | |
| HCM Control Delay, s | 0 | 0 | 9.6 | | | |
| HCM LOS | | | A | | | |
| Minor Lane/Major Mvmt | NWLn1 | EBT | EBR | WBL | WBT | |
| Capacity (veh/h) | 881 | - | - | 1481 | - | |
| HCM Lane V/C Ratio | 0.102 | - | - | - | - | |
| HCM Control Delay (s) | 9.6 | - | - | 0 | - | |
| HCM Lane LOS | A | - | - | A | - | |
| HCM 95th %tile Q(veh) | 0.3 | - | - | 0 | - | |

Aurora Highlands
Phase 1,2,3

2040 am





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 45 | 485 | 470 | 56 | 80 | 140 |
| Future Volume (veh/h) | 45 | 485 | 470 | 56 | 80 | 140 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 49 | 527 | 511 | 61 | 87 | 152 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 243 | 975 | 975 | 435 | 1037 | 923 |
| Arrive On Green | 0.27 | 0.27 | 0.27 | 0.27 | 0.58 | 0.58 |
| Sat Flow, veh/h | 840 | 3647 | 3647 | 1585 | 1781 | 1585 |
| Grp Volume(v), veh/h | 49 | 527 | 511 | 61 | 87 | 152 |
| Grp Sat Flow(s), veh/h/ln | 840 | 1777 | 1777 | 1585 | 1781 | 1585 |
| Q Serve(g_s), s | 3.3 | 7.9 | 7.6 | 1.8 | 1.3 | 2.8 |
| Cycle Q Clear(g_c), s | 10.9 | 7.9 | 7.6 | 1.8 | 1.3 | 2.8 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 243 | 975 | 975 | 435 | 1037 | 923 |
| V/C Ratio(X) | 0.20 | 0.54 | 0.52 | 0.14 | 0.08 | 0.16 |
| Avail Cap(c_a), veh/h | 609 | 2522 | 2522 | 1125 | 1037 | 923 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.9 | 19.4 | 19.3 | 17.2 | 5.8 | 6.1 |
| Incr Delay (d2), s/veh | 0.4 | 0.5 | 0.4 | 0.1 | 0.2 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.6 | 3.1 | 3.0 | 0.6 | 0.4 | 0.8 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 24.3 | 19.9 | 19.7 | 17.3 | 5.9 | 6.4 |
| LnGrp LOS | C | B | B | B | A | A |
| Approach Vol, veh/h | 576 | 572 | | 239 | | |
| Approach Delay, s/veh | 20.2 | 19.5 | | 6.2 | | |
| Approach LOS | C | B | | A | | |
| Timer - Assigned Phs | | | 4 | | 6 | 8 |
| Phs Duration (G+Y+R _c), s | | | 21.7 | | 41.0 | 21.7 |
| Change Period (Y+R _c), s | | | 4.5 | | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | | | 44.5 | | 36.5 | 44.5 |
| Max Q Clear Time (g_c+l1), s | | | 12.9 | | 4.8 | 9.6 |
| Green Ext Time (p_c), s | | | 4.3 | | 0.8 | 4.0 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 17.5 | | | |
| HCM 6th LOS | | | B | | | |

Intersection

Int Delay, s/veh 3.9

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ |
| Traffic Vol, veh/h | 10 | 30 | 5 | 10 | 136 | 10 | 30 | 0 | 10 | 30 | 0 | 30 |
| Future Vol, veh/h | 10 | 30 | 5 | 10 | 136 | 10 | 30 | 0 | 10 | 30 | 0 | 30 |
| 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 |
| Storage Length | 100 | - | - | 100 | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 11 | 33 | 5 | 11 | 148 | 11 | 33 | 0 | 11 | 33 | 0 | 33 |

| Major/Minor | Major1 | Major2 | | | Minor1 | | | Minor2 | | | | |
|----------------------|--------|--------|---|-------|--------|---|-------|--------|-------|-------|-------|-------|
| Conflicting Flow All | 159 | 0 | 0 | 38 | 0 | 0 | 250 | 239 | 36 | 239 | 236 | 154 |
| Stage 1 | - | - | - | - | - | - | 58 | 58 | - | 176 | 176 | - |
| Stage 2 | - | - | - | - | - | - | 192 | 181 | - | 63 | 60 | - |
| 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 | 1420 | - | - | 1572 | - | - | 703 | 662 | 1037 | 715 | 665 | 892 |
| Stage 1 | - | - | - | - | - | - | 954 | 847 | - | 826 | 753 | - |
| Stage 2 | - | - | - | - | - | - | 810 | 750 | - | 948 | 845 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1420 | - | - | 1572 | - | - | 670 | 652 | 1037 | 699 | 655 | 892 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 670 | 652 | - | 699 | 655 | - |
| Stage 1 | - | - | - | - | - | - | 946 | 840 | - | 819 | 748 | - |
| Stage 2 | - | - | - | - | - | - | 775 | 745 | - | 931 | 838 | - |

| Approach | EB | WB | | | NB | | | SB | | | | | |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|-------|--|--|--|--|
| HCM Control Delay, s | 1.7 | 0.5 | | | 10.2 | | | 10 | | | | | |
| HCM LOS | | | | | B | | | B | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBL | SBLn1 | | | | |
| Capacity (veh/h) | 735 | 1420 | - | - | 1572 | - | - | 784 | | | | | |
| HCM Lane V/C Ratio | 0.059 | 0.008 | - | - | 0.007 | - | - | 0.083 | | | | | |
| HCM Control Delay (s) | 10.2 | 7.6 | - | - | 7.3 | - | - | 10 | | | | | |
| HCM Lane LOS | B | A | - | - | A | - | - | B | | | | | |
| HCM 95th %tile Q(veh) | 0.2 | 0 | - | - | 0 | - | - | 0.3 | | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|-------|--------|-------|--------|-------|--------|------|------|-------|------|------|
| Int Delay, s/veh | 6.9 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↔ | | | ↔ | | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 20 | 0 | 65 | 100 | 0 | 56 | 31 | 40 | 30 | 10 | 55 | 10 |
| Future Vol, veh/h | 20 | 0 | 65 | 100 | 0 | 56 | 31 | 40 | 30 | 10 | 55 | 10 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 22 | 0 | 71 | 109 | 0 | 61 | 34 | 43 | 33 | 11 | 60 | 11 |
| | | | | | | | | | | | | |
| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
| Conflicting Flow All | 246 | 232 | 66 | 251 | 221 | 60 | 71 | 0 | 0 | 76 | 0 | 0 |
| Stage 1 | 88 | 88 | - | 128 | 128 | - | - | - | - | - | - | - |
| Stage 2 | 158 | 144 | - | 123 | 93 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 708 | 668 | 998 | 702 | 678 | 1005 | 1529 | - | - | 1523 | - | - |
| Stage 1 | 920 | 822 | - | 876 | 790 | - | - | - | - | - | - | - |
| Stage 2 | 844 | 778 | - | 881 | 818 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 650 | 649 | 998 | 637 | 658 | 1005 | 1529 | - | - | 1523 | - | - |
| Mov Cap-2 Maneuver | 650 | 649 | - | 637 | 658 | - | - | - | - | - | - | - |
| Stage 1 | 900 | 816 | - | 857 | 773 | - | - | - | - | - | - | - |
| Stage 2 | 775 | 761 | - | 813 | 812 | - | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| Approach | EB | | WB | | NB | | SB | | | | | |
| HCM Control Delay, s | 9.5 | | 11.4 | | 2.3 | | 1 | | | | | |
| HCM LOS | A | | B | | | | | | | | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | | SBL | SBT | SBR | | | |
| Capacity (veh/h) | 1529 | - | - | 886 | 733 | 1523 | - | - | - | | | |
| HCM Lane V/C Ratio | 0.022 | - | - | 0.104 | 0.231 | 0.007 | - | - | - | | | |
| HCM Control Delay (s) | 7.4 | - | - | 9.5 | 11.4 | 7.4 | - | - | - | | | |
| HCM Lane LOS | A | - | - | A | B | A | - | - | - | | | |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.3 | 0.9 | 0 | - | - | - | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 0.6 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ↑ | ↑↑ | ↑↓ | | ↑ | ↑ |
| Traffic Vol, veh/h | 10 | 510 | 580 | 30 | 20 | 20 |
| Future Vol, veh/h | 10 | 510 | 580 | 30 | 20 | 20 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 11 | 554 | 630 | 33 | 22 | 22 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | 663 | 0 | - | 0 | 946 | 332 |
| Stage 1 | - | - | - | - | 647 | - |
| Stage 2 | - | - | - | - | 299 | - |
| Critical Hdwy | 4.14 | - | - | - | 6.84 | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.84 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.84 | - |
| Follow-up Hdwy | 2.22 | - | - | - | 3.52 | 3.32 |
| Pot Cap-1 Maneuver | 922 | - | - | - | 260 | 664 |
| Stage 1 | - | - | - | - | 483 | - |
| Stage 2 | - | - | - | - | 726 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 922 | - | - | - | 257 | 664 |
| Mov Cap-2 Maneuver | - | - | - | - | 257 | - |
| Stage 1 | - | - | - | - | 477 | - |
| Stage 2 | - | - | - | - | 726 | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0.2 | 0 | 15.5 | | | |
| HCM LOS | | | C | | | |
| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
| Capacity (veh/h) | 922 | - | - | - | 257 | 664 |
| HCM Lane V/C Ratio | 0.012 | - | - | - | 0.085 | 0.033 |
| HCM Control Delay (s) | 9 | - | - | - | 20.3 | 10.6 |
| HCM Lane LOS | A | - | - | - | C | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0.3 | 0.1 |

Intersection

Int Delay, s/veh 4

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑↑ |
| Traffic Vol, veh/h | 161 | 35 | 230 | 33 | 12 | 190 |
| Future Vol, veh/h | 161 | 35 | 230 | 33 | 12 | 190 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | 0 | - | 150 | 150 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 175 | 38 | 250 | 36 | 13 | 207 |

| Major/Minor | Minor1 | Major1 | Major2 | |
|----------------------|--------|--------|--------|----------|
| Conflicting Flow All | 380 | 125 | 0 | 0 286 0 |
| Stage 1 | 250 | - | - | - - - |
| Stage 2 | 130 | - | - | - - - |
| 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 | 595 | 902 | - | - 1273 - |
| Stage 1 | 768 | - | - | - - - |
| Stage 2 | 882 | - | - | - - - |
| Platoon blocked, % | - | - | - | - - - |
| Mov Cap-1 Maneuver | 589 | 902 | - | - 1273 - |
| Mov Cap-2 Maneuver | 589 | - | - | - - - |
| Stage 1 | 768 | - | - | - - - |
| Stage 2 | 873 | - | - | - - - |

| Approach | WB | NB | SB |
|----------------------|------|----|-----|
| HCM Control Delay, s | 12.9 | 0 | 0.5 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | WBLn2 | SBL | SBT |
|-----------------------|-----|-----|-------|-------|------|-----|
| Capacity (veh/h) | - | - | 589 | 902 | 1273 | - |
| HCM Lane V/C Ratio | - | - | 0.297 | 0.042 | 0.01 | - |
| HCM Control Delay (s) | - | - | 13.7 | 9.2 | 7.9 | - |
| HCM Lane LOS | - | - | B | A | A | - |
| HCM 95th %tile Q(veh) | - | - | 1.2 | 0.1 | 0 | - |

Intersection

Int Delay, s/veh 2

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↓ | | ↑ | ↑ |
| Traffic Vol, veh/h | 35 | 530 | 426 | 20 | 50 | 100 |
| Future Vol, veh/h | 35 | 530 | 426 | 20 | 50 | 100 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 38 | 576 | 463 | 22 | 54 | 109 |

| Major/Minor | Major1 | Major2 | Minor2 | | | |
|----------------------|--------|--------|--------|---|------|------|
| Conflicting Flow All | 485 | 0 | - | 0 | 838 | 243 |
| Stage 1 | - | - | - | - | 474 | - |
| Stage 2 | - | - | - | - | 364 | - |
| Critical Hdwy | 4.14 | - | - | - | 6.84 | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.84 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.84 | - |
| Follow-up Hdwy | 2.22 | - | - | - | 3.52 | 3.32 |
| Pot Cap-1 Maneuver | 1074 | - | - | - | 305 | 758 |
| Stage 1 | - | - | - | - | 592 | - |
| Stage 2 | - | - | - | - | 673 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1074 | - | - | - | 294 | 758 |
| Mov Cap-2 Maneuver | - | - | - | - | 294 | - |
| Stage 1 | - | - | - | - | 571 | - |
| Stage 2 | - | - | - | - | 673 | - |

| Approach | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.5 | 0 | 13.7 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-----|-----|-----|-------|-------|
| Capacity (veh/h) | 1074 | - | - | - | 294 | 758 |
| HCM Lane V/C Ratio | 0.035 | - | - | - | 0.185 | 0.143 |
| HCM Control Delay (s) | 8.5 | - | - | - | 20 | 10.5 |
| HCM Lane LOS | A | - | - | - | C | B |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - | 0.7 | 0.5 |

Intersection

Int Delay, s/veh 2

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↓ | | ↑ | ↑ |
| Traffic Vol, veh/h | 30 | 550 | 356 | 20 | 60 | 90 |
| Future Vol, veh/h | 30 | 550 | 356 | 20 | 60 | 90 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 598 | 387 | 22 | 65 | 98 |

| Major/Minor | Major1 | Major2 | Minor2 | | | |
|----------------------|--------|--------|--------|---|------|------|
| Conflicting Flow All | 409 | 0 | - | 0 | 763 | 205 |
| Stage 1 | - | - | - | - | 398 | - |
| Stage 2 | - | - | - | - | 365 | - |
| Critical Hdwy | 4.14 | - | - | - | 6.84 | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.84 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.84 | - |
| Follow-up Hdwy | 2.22 | - | - | - | 3.52 | 3.32 |
| Pot Cap-1 Maneuver | 1146 | - | - | - | 341 | 802 |
| Stage 1 | - | - | - | - | 647 | - |
| Stage 2 | - | - | - | - | 673 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1146 | - | - | - | 331 | 802 |
| Mov Cap-2 Maneuver | - | - | - | - | 331 | - |
| Stage 1 | - | - | - | - | 628 | - |
| Stage 2 | - | - | - | - | 673 | - |

| Approach | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.4 | 0 | 13.5 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-----|-----|-----|-------|-------|
| Capacity (veh/h) | 1146 | - | - | - | 331 | 802 |
| HCM Lane V/C Ratio | 0.028 | - | - | - | 0.197 | 0.122 |
| HCM Control Delay (s) | 8.2 | - | - | - | 18.5 | 10.1 |
| HCM Lane LOS | A | - | - | - | C | B |
| HCM 95th %tile Q(veh) | 0.1 | - | - | - | 0.7 | 0.4 |

Intersection

Int Delay, s/veh 2.5

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 50 | 150 | 20 | 50 | 50 | 20 |
| Future Vol, veh/h | 50 | 150 | 20 | 50 | 50 | 20 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 100 | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 54 | 163 | 22 | 54 | 54 | 22 |

| Major/Minor | Major1 | Major2 | Minor1 | | | |
|----------------------|--------|--------|--------|---|-------|-------|
| Conflicting Flow All | 0 | 0 | 217 | 0 | 234 | 136 |
| Stage 1 | - | - | - | - | 136 | - |
| Stage 2 | - | - | - | - | 98 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1353 | - | 754 | 913 |
| Stage 1 | - | - | - | - | 890 | - |
| Stage 2 | - | - | - | - | 926 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1353 | - | 742 | 913 |
| Mov Cap-2 Maneuver | - | - | - | - | 749 | - |
| Stage 1 | - | - | - | - | 890 | - |
| Stage 2 | - | - | - | - | 911 | - |

| Approach | EB | WB | NB |
|----------------------|----|-----|-----|
| HCM Control Delay, s | 0 | 2.2 | 9.9 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 749 | 913 | - | - | 1353 | - |
| HCM Lane V/C Ratio | 0.073 | 0.024 | - | - | 0.016 | - |
| HCM Control Delay (s) | 10.2 | 9 | - | - | 7.7 | - |
| HCM Lane LOS | B | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.2 | 0.1 | - | - | 0 | - |

Intersection

Int Delay, s/veh 3.5

| Movement | WBL | WBR | SEL | SET | NWT | NWR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | |
| Traffic Vol, veh/h | 30 | 50 | 25 | 45 | 106 | 10 |
| Future Vol, veh/h | 30 | 50 | 25 | 45 | 106 | 10 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 54 | 27 | 49 | 115 | 11 |

| Major/Minor | Minor2 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|---|
| Conflicting Flow All | 224 | 121 | 126 | 0 | - |
| Stage 1 | 121 | - | - | - | - |
| Stage 2 | 103 | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - |
| Pot Cap-1 Maneuver | 764 | 930 | 1460 | - | - |
| Stage 1 | 904 | - | - | - | - |
| Stage 2 | 921 | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 750 | 930 | 1460 | - | - |
| Mov Cap-2 Maneuver | 754 | - | - | - | - |
| Stage 1 | 888 | - | - | - | - |
| Stage 2 | 921 | - | - | - | - |

| Approach | WB | SE | NW |
|----------------------|-----|-----|----|
| HCM Control Delay, s | 9.4 | 2.7 | 0 |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | NWT | NWR | WBLn1 | WBLn2 | SEL | SET |
|-----------------------|-----|-----|-------|-------|-------|-----|
| Capacity (veh/h) | - | - | 754 | 930 | 1460 | - |
| HCM Lane V/C Ratio | - | - | 0.043 | 0.058 | 0.019 | - |
| HCM Control Delay (s) | - | - | 10 | 9.1 | 7.5 | - |
| HCM Lane LOS | - | - | B | A | A | - |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0.2 | 0.1 | - |

Intersection

Int Delay, s/veh 6

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | ↑ | ↑ | Y | |
| Traffic Vol, veh/h | 50 | 10 | 20 | 80 | 50 | 150 |
| Future Vol, veh/h | 50 | 10 | 20 | 80 | 50 | 150 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 54 | 11 | 22 | 87 | 54 | 163 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0 | 0 | 65 | 0 | 191 60 |
| Stage 1 | - | - | - | - | 60 - |
| Stage 2 | - | - | - | - | 131 - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 3.318 |
| Pot Cap-1 Maneuver | - | - | 1537 | - | 798 1005 |
| Stage 1 | - | - | - | - | 963 - |
| Stage 2 | - | - | - | - | 895 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1537 | - | 787 1005 |
| Mov Cap-2 Maneuver | - | - | - | - | 775 - |
| Stage 1 | - | - | - | - | 963 - |
| Stage 2 | - | - | - | - | 882 - |

| Approach | EB | WB | NB |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0 | 1.5 | 10 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 936 | - | - | 1537 | - |
| HCM Lane V/C Ratio | 0.232 | - | - | 0.014 | - |
| HCM Control Delay (s) | 10 | - | - | 7.4 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.9 | - | - | 0 | - |

Intersection

Int Delay, s/veh 4.5

| Movement | EBT | EBR | WBL | WBT | NWL | NWR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | ↑ | ↑ | Y | |
| Traffic Vol, veh/h | 50 | 35 | 20 | 50 | 80 | 20 |
| Future Vol, veh/h | 50 | 35 | 20 | 50 | 80 | 20 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 54 | 38 | 22 | 54 | 87 | 22 |

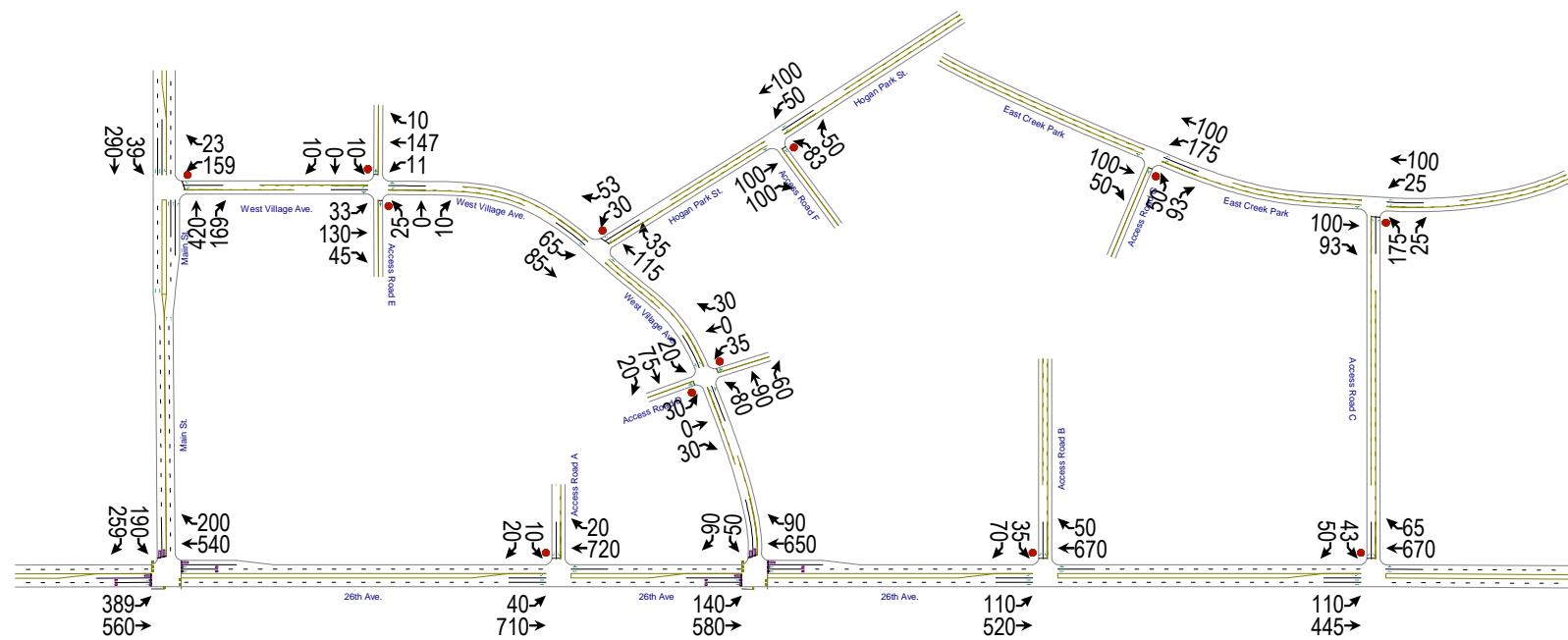
| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0 | 0 | 92 | 0 | 171 73 |
| Stage 1 | - | - | - | - | 73 - |
| Stage 2 | - | - | - | - | 98 - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 3.318 |
| Pot Cap-1 Maneuver | - | - | 1503 | - | 819 989 |
| Stage 1 | - | - | - | - | 950 - |
| Stage 2 | - | - | - | - | 926 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1503 | - | 807 989 |
| Mov Cap-2 Maneuver | - | - | - | - | 792 - |
| Stage 1 | - | - | - | - | 950 - |
| Stage 2 | - | - | - | - | 912 - |

| Approach | EB | WB | NW |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0 | 2.1 | 10 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | NWLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 825 | - | - | 1503 | - |
| HCM Lane V/C Ratio | 0.132 | - | - | 0.014 | - |
| HCM Control Delay (s) | 10 | - | - | 7.4 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.5 | - | - | 0 | - |

Aurora Highlands
Phase 1,2,3

2040 PM





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 140 | 580 | 650 | 90 | 50 | 90 |
| Future Volume (veh/h) | 140 | 580 | 650 | 90 | 50 | 90 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 152 | 630 | 707 | 98 | 54 | 98 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 345 | 1660 | 1660 | 740 | 686 | 611 |
| Arrive On Green | 0.47 | 0.47 | 0.47 | 0.47 | 0.39 | 0.39 |
| Sat Flow, veh/h | 677 | 3647 | 3647 | 1585 | 1781 | 1585 |
| Grp Volume(v), veh/h | 152 | 630 | 707 | 98 | 54 | 98 |
| Grp Sat Flow(s), veh/h/ln | 677 | 1777 | 1777 | 1585 | 1781 | 1585 |
| Q Serve(g_s), s | 11.8 | 7.0 | 8.1 | 2.1 | 1.2 | 2.5 |
| Cycle Q Clear(g_c), s | 19.8 | 7.0 | 8.1 | 2.1 | 1.2 | 2.5 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 345 | 1660 | 1660 | 740 | 686 | 611 |
| V/C Ratio(X) | 0.44 | 0.38 | 0.43 | 0.13 | 0.08 | 0.16 |
| Avail Cap(c_a), veh/h | 666 | 3350 | 3350 | 1494 | 686 | 611 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 17.4 | 10.5 | 10.8 | 9.2 | 11.9 | 12.3 |
| Incr Delay (d2), s/veh | 0.9 | 0.1 | 0.2 | 0.1 | 0.2 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.7 | 2.4 | 2.7 | 0.7 | 0.5 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 18.3 | 10.7 | 11.0 | 9.3 | 12.1 | 12.8 |
| LnGrp LOS | B | B | B | A | B | B |
| Approach Vol, veh/h | 782 | 805 | | 152 | | |
| Approach Delay, s/veh | 12.2 | 10.8 | | 12.6 | | |
| Approach LOS | B | B | | B | | |
| Timer - Assigned Phs | | | 4 | | 6 | 8 |
| Phs Duration (G+Y+R _c), s | | | 33.0 | | 28.0 | 33.0 |
| Change Period (Y+R _c), s | | | 4.5 | | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | | | 57.5 | | 23.5 | 57.5 |
| Max Q Clear Time (g_c+l1), s | | | 21.8 | | 4.5 | 10.1 |
| Green Ext Time (p_c), s | | | 6.7 | | 0.4 | 6.2 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 11.6 | | | |
| HCM 6th LOS | | | B | | | |

Intersection

Int Delay, s/veh 2.2

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ |
| Traffic Vol, veh/h | 33 | 130 | 45 | 11 | 147 | 10 | 25 | 0 | 10 | 10 | 0 | 10 |
| Future Vol, veh/h | 33 | 130 | 45 | 11 | 147 | 10 | 25 | 0 | 10 | 10 | 0 | 10 |
| 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 |
| Storage Length | 100 | - | - | 100 | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 36 | 141 | 49 | 12 | 160 | 11 | 27 | 0 | 11 | 11 | 0 | 11 |

| Major/Minor | Major1 | Major2 | | | Minor1 | | | Minor2 | | | | |
|----------------------|--------|--------|---|-------|--------|---|-------|--------|-------|-------|-------|-------|
| Conflicting Flow All | 171 | 0 | 0 | 190 | 0 | 0 | 433 | 433 | 166 | 433 | 452 | 166 |
| Stage 1 | - | - | - | - | - | - | 238 | 238 | - | 190 | 190 | - |
| Stage 2 | - | - | - | - | - | - | 195 | 195 | - | 243 | 262 | - |
| 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 | 1406 | - | - | 1384 | - | - | 533 | 516 | 878 | 533 | 503 | 878 |
| Stage 1 | - | - | - | - | - | - | 765 | 708 | - | 812 | 743 | - |
| Stage 2 | - | - | - | - | - | - | 807 | 739 | - | 761 | 691 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1406 | - | - | 1384 | - | - | 513 | 498 | 878 | 513 | 485 | 878 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 513 | 498 | - | 513 | 485 | - |
| Stage 1 | - | - | - | - | - | - | 745 | 690 | - | 791 | 736 | - |
| Stage 2 | - | - | - | - | - | - | 790 | 732 | - | 732 | 673 | - |

| Approach | EB | WB | | | NB | | | SB | | | | |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|-------|--|--|--|
| HCM Control Delay, s | 1.2 | 0.5 | | | 11.6 | | | 10.7 | | | | |
| HCM LOS | | | | | B | | | B | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBL | SBLn1 | | | |
| Capacity (veh/h) | 582 | 1406 | - | - | 1384 | - | - | 648 | | | | |
| HCM Lane V/C Ratio | 0.065 | 0.026 | - | - | 0.009 | - | - | 0.034 | | | | |
| HCM Control Delay (s) | 11.6 | 7.6 | - | - | 7.6 | - | - | 10.7 | | | | |
| HCM Lane LOS | B | A | - | - | A | - | - | B | | | | |
| HCM 95th %tile Q(veh) | 0.2 | 0.1 | - | - | 0 | - | - | 0.1 | | | | |

Intersection

Int Delay, s/veh 4.7

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 30 | 0 | 30 | 35 | 0 | 30 | 80 | 90 | 60 | 20 | 75 | 20 |
| Future Vol, veh/h | 30 | 0 | 30 | 35 | 0 | 30 | 80 | 90 | 60 | 20 | 75 | 20 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None |
| Storage Length | - | - | - | - | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 0 | 33 | 38 | 0 | 33 | 87 | 98 | 65 | 22 | 82 | 22 |

| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
|----------------------|--------|--------|-------|-------|--------|-------|-------|--------|---|-------|---|---|
| Conflicting Flow All | 458 | 474 | 93 | 459 | 453 | 131 | 104 | 0 | 0 | 163 | 0 | 0 |
| Stage 1 | 137 | 137 | - | 305 | 305 | - | - | - | - | - | - | - |
| Stage 2 | 321 | 337 | - | 154 | 148 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 513 | 489 | 964 | 512 | 503 | 919 | 1488 | - | - | 1416 | - | - |
| Stage 1 | 866 | 783 | - | 705 | 662 | - | - | - | - | - | - | - |
| Stage 2 | 691 | 641 | - | 848 | 775 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 467 | 453 | 964 | 467 | 466 | 919 | 1488 | - | - | 1416 | - | - |
| Mov Cap-2 Maneuver | 467 | 453 | - | 467 | 466 | - | - | - | - | - | - | - |
| Stage 1 | 816 | 770 | - | 664 | 624 | - | - | - | - | - | - | - |
| Stage 2 | 628 | 604 | - | 807 | 763 | - | - | - | - | - | - | - |

| Approach | EB | WB | | | NB | | SB | |
|-----------------------|-------|------|-----|-------|-------|-------|-----|-----|
| HCM Control Delay, s | 11.4 | 11.7 | | | 2.6 | | 1.3 | |
| HCM LOS | B | B | | | | | | |
| <hr/> | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
| Capacity (veh/h) | 1488 | - | - | 629 | 604 | 1416 | - | - |
| HCM Lane V/C Ratio | 0.058 | - | - | 0.104 | 0.117 | 0.015 | - | - |
| HCM Control Delay (s) | 7.6 | - | - | 11.4 | 11.7 | 7.6 | - | - |
| HCM Lane LOS | A | - | - | B | B | A | - | - |
| HCM 95th %tile Q(veh) | 0.2 | - | - | 0.3 | 0.4 | 0 | - | - |

Intersection

Int Delay, s/veh 0.6

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↓ | | ↑ | ↑ |
| Traffic Vol, veh/h | 40 | 710 | 720 | 20 | 10 | 20 |
| Future Vol, veh/h | 40 | 710 | 720 | 20 | 10 | 20 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 43 | 772 | 783 | 22 | 11 | 22 |

| Major/Minor | Major1 | Major2 | Minor2 | | | |
|----------------------|--------|--------|--------|---|------|------|
| Conflicting Flow All | 805 | 0 | - | 0 | 1266 | 403 |
| Stage 1 | - | - | - | - | 794 | - |
| Stage 2 | - | - | - | - | 472 | - |
| Critical Hdwy | 4.14 | - | - | - | 6.84 | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.84 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.84 | - |
| Follow-up Hdwy | 2.22 | - | - | - | 3.52 | 3.32 |
| Pot Cap-1 Maneuver | 815 | - | - | - | 161 | 597 |
| Stage 1 | - | - | - | - | 406 | - |
| Stage 2 | - | - | - | - | 594 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 815 | - | - | - | 152 | 597 |
| Mov Cap-2 Maneuver | - | - | - | - | 152 | - |
| Stage 1 | - | - | - | - | 384 | - |
| Stage 2 | - | - | - | - | 594 | - |

| Approach | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.5 | 0 | 17.7 |
| HCM LOS | | C | |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-----|-----|-----|-------|-------|
| Capacity (veh/h) | 815 | - | - | - | 152 | 597 |
| HCM Lane V/C Ratio | 0.053 | - | - | - | 0.072 | 0.036 |
| HCM Control Delay (s) | 9.7 | - | - | - | 30.5 | 11.3 |
| HCM Lane LOS | A | - | - | - | D | B |
| HCM 95th %tile Q(veh) | 0.2 | - | - | - | 0.2 | 0.1 |

Intersection

Int Delay, s/veh 4

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑↑ |
| Traffic Vol, veh/h | 159 | 23 | 420 | 169 | 39 | 290 |
| Future Vol, veh/h | 159 | 23 | 420 | 169 | 39 | 290 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | 0 | - | 150 | 150 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 173 | 25 | 457 | 184 | 42 | 315 |

| Major/Minor | Minor1 | Major1 | Major2 | |
|----------------------|--------|--------|--------|------|
| Conflicting Flow All | 699 | 229 | 0 | 0 |
| Stage 1 | 457 | - | - | - |
| Stage 2 | 242 | - | - | - |
| 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 | 374 | 774 | - | 939 |
| Stage 1 | 604 | - | - | - |
| Stage 2 | 776 | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 357 | 774 | - | 939 |
| Mov Cap-2 Maneuver | 357 | - | - | - |
| Stage 1 | 604 | - | - | - |
| Stage 2 | 741 | - | - | - |

| Approach | WB | NB | SB |
|----------------------|------|----|-----|
| HCM Control Delay, s | 22.4 | 0 | 1.1 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | WBLn2 | SBL | SBT |
|-----------------------|-----|-----|-------|-------|-------|-----|
| Capacity (veh/h) | - | - | 357 | 774 | 939 | - |
| HCM Lane V/C Ratio | - | - | 0.484 | 0.032 | 0.045 | - |
| HCM Control Delay (s) | - | - | 24.2 | 9.8 | 9 | - |
| HCM Lane LOS | - | - | C | A | A | - |
| HCM 95th %tile Q(veh) | - | - | 2.5 | 0.1 | 0.1 | - |

Intersection

Int Delay, s/veh 2.4

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↓ | | ↑ | ↑ |
| Traffic Vol, veh/h | 110 | 520 | 670 | 50 | 35 | 70 |
| Future Vol, veh/h | 110 | 520 | 670 | 50 | 35 | 70 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 120 | 565 | 728 | 54 | 38 | 76 |

| Major/Minor | Major1 | Major2 | Minor2 |
|----------------------|--------|--------|-----------|
| Conflicting Flow All | 782 | 0 | - |
| Stage 1 | - | - | 755 |
| Stage 2 | - | - | 523 |
| Critical Hdwy | 4.14 | - | 6.84 6.94 |
| Critical Hdwy Stg 1 | - | - | 5.84 |
| Critical Hdwy Stg 2 | - | - | 5.84 |
| Follow-up Hdwy | 2.22 | - | 3.52 3.32 |
| Pot Cap-1 Maneuver | 832 | - | 158 608 |
| Stage 1 | - | - | 425 |
| Stage 2 | - | - | 559 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | 832 | - | 135 608 |
| Mov Cap-2 Maneuver | - | - | 135 |
| Stage 1 | - | - | 364 |
| Stage 2 | - | - | 559 |

| Approach | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 1.8 | 0 | 21.8 |
| HCM LOS | | | C |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-----|-----|-----|-------|-------|
| Capacity (veh/h) | 832 | - | - | - | 135 | 608 |
| HCM Lane V/C Ratio | 0.144 | - | - | - | 0.282 | 0.125 |
| HCM Control Delay (s) | 10.1 | - | - | - | 41.8 | 11.8 |
| HCM Lane LOS | B | - | - | - | E | B |
| HCM 95th %tile Q(veh) | 0.5 | - | - | - | 1.1 | 0.4 |

Intersection

Int Delay, s/veh 2.5

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↓ | | ↑ | ↑ |
| Traffic Vol, veh/h | 110 | 445 | 670 | 65 | 43 | 50 |
| Future Vol, veh/h | 110 | 445 | 670 | 65 | 43 | 50 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | - | - | - | 100 | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 120 | 484 | 728 | 71 | 47 | 54 |

| Major/Minor | Major1 | Major2 | Minor2 | | | |
|----------------------|--------|--------|--------|---|------|------|
| Conflicting Flow All | 799 | 0 | - | 0 | 1246 | 400 |
| Stage 1 | - | - | - | - | 764 | - |
| Stage 2 | - | - | - | - | 482 | - |
| Critical Hdwy | 4.14 | - | - | - | 6.84 | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.84 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.84 | - |
| Follow-up Hdwy | 2.22 | - | - | - | 3.52 | 3.32 |
| Pot Cap-1 Maneuver | 819 | - | - | - | 166 | 600 |
| Stage 1 | - | - | - | - | 420 | - |
| Stage 2 | - | - | - | - | 587 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 819 | - | - | - | 142 | 600 |
| Mov Cap-2 Maneuver | - | - | - | - | 142 | - |
| Stage 1 | - | - | - | - | 358 | - |
| Stage 2 | - | - | - | - | 587 | - |

| Approach | EB | WB | SB |
|----------------------|----|----|------|
| HCM Control Delay, s | 2 | 0 | 25.8 |
| HCM LOS | | | D |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | SBLn2 |
|-----------------------|-------|-----|-----|-----|-------|-------|
| Capacity (veh/h) | 819 | - | - | - | 142 | 600 |
| HCM Lane V/C Ratio | 0.146 | - | - | - | 0.329 | 0.091 |
| HCM Control Delay (s) | 10.1 | - | - | - | 42.3 | 11.6 |
| HCM Lane LOS | B | - | - | - | E | B |
| HCM 95th %tile Q(veh) | 0.5 | - | - | - | 1.3 | 0.3 |

Intersection

Int Delay, s/veh 4.9

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 100 | 93 | 25 | 100 | 175 | 25 |
| Future Vol, veh/h | 100 | 93 | 25 | 100 | 175 | 25 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 100 | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 109 | 101 | 27 | 109 | 190 | 27 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 0 | 0 | 210 | 0 | 323 |
| Stage 1 | - | - | - | - | 160 |
| Stage 2 | - | - | - | - | 163 |
| Critical Hdwy | - | - | 4.12 | - | 6.42 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 |
| Pot Cap-1 Maneuver | - | - | 1361 | - | 671 |
| Stage 1 | - | - | - | - | 869 |
| Stage 2 | - | - | - | - | 866 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1361 | - | 658 |
| Mov Cap-2 Maneuver | - | - | - | - | 692 |
| Stage 1 | - | - | - | - | 869 |
| Stage 2 | - | - | - | - | 849 |

| Approach | EB | WB | NB |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0 | 1.5 | 11.8 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 692 | 885 | - | - | 1361 | - |
| HCM Lane V/C Ratio | 0.275 | 0.031 | - | - | 0.02 | - |
| HCM Control Delay (s) | 12.2 | 9.2 | - | - | 7.7 | - |
| HCM Lane LOS | B | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 1.1 | 0.1 | - | - | 0.1 | - |

Intersection

Int Delay, s/veh 3.6

| Movement | WBL | WBR | SEL | SET | NWT | NWR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 30 | 53 | 65 | 85 | 115 | 35 |
| Future Vol, veh/h | 30 | 53 | 65 | 85 | 115 | 35 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 35 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 100 | 0 | 100 | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 58 | 71 | 92 | 125 | 38 |

| Major/Minor | Minor2 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|---|
| Conflicting Flow All | 413 | 179 | 198 | 0 | - |
| Stage 1 | 179 | - | - | - | - |
| Stage 2 | 234 | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - |
| Pot Cap-1 Maneuver | 595 | 864 | 1375 | - | - |
| Stage 1 | 852 | - | - | - | - |
| Stage 2 | 805 | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 527 | 835 | 1329 | - | - |
| Mov Cap-2 Maneuver | 596 | - | - | - | - |
| Stage 1 | 780 | - | - | - | - |
| Stage 2 | 778 | - | - | - | - |

| Approach | WB | SE | NW |
|----------------------|------|-----|----|
| HCM Control Delay, s | 10.3 | 3.4 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NWT | NWR | WBLn1 | WBLn2 | SEL | SET |
|-----------------------|-----|-----|-------|-------|-------|-----|
| Capacity (veh/h) | - | - | 596 | 835 | 1329 | - |
| HCM Lane V/C Ratio | - | - | 0.055 | 0.069 | 0.053 | - |
| HCM Control Delay (s) | - | - | 11.4 | 9.6 | 7.9 | - |
| HCM Lane LOS | - | - | B | A | A | - |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0.2 | 0.2 | - |

Intersection

Int Delay, s/veh 5.5

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | Y | Y |
| Traffic Vol, veh/h | 100 | 50 | 175 | 100 | 50 | 93 |
| Future Vol, veh/h | 100 | 50 | 175 | 100 | 50 | 93 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 109 | 54 | 190 | 109 | 54 | 101 |

| Major/Minor | Major1 | Major2 | Minor1 | | | |
|----------------------|--------|--------|--------|---|-------|-------|
| Conflicting Flow All | 0 | 0 | 163 | 0 | 625 | 136 |
| Stage 1 | - | - | - | - | 136 | - |
| Stage 2 | - | - | - | - | 489 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1416 | - | 449 | 913 |
| Stage 1 | - | - | - | - | 890 | - |
| Stage 2 | - | - | - | - | 616 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1416 | - | 389 | 913 |
| Mov Cap-2 Maneuver | - | - | - | - | 457 | - |
| Stage 1 | - | - | - | - | 890 | - |
| Stage 2 | - | - | - | - | 533 | - |

| Approach | EB | WB | NB |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0 | 5.1 | 11.9 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 677 | - | - | 1416 | - |
| HCM Lane V/C Ratio | 0.23 | - | - | 0.134 | - |
| HCM Control Delay (s) | 11.9 | - | - | 7.9 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.9 | - | - | 0.5 | - |

Intersection

Int Delay, s/veh 3.9

| Movement | EBT | EBR | WBL | WBT | NWL | NWR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | | |
| Traffic Vol, veh/h | 100 | 100 | 50 | 100 | 83 | 50 |
| Future Vol, veh/h | 100 | 100 | 50 | 100 | 83 | 50 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 109 | 109 | 54 | 109 | 90 | 54 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0 | 0 | 218 | 0 | 381 164 |
| Stage 1 | - | - | - | - | 164 - |
| Stage 2 | - | - | - | - | 217 - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 3.318 |
| Pot Cap-1 Maneuver | - | - | 1352 | - | 621 881 |
| Stage 1 | - | - | - | - | 865 - |
| Stage 2 | - | - | - | - | 819 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1352 | - | 596 881 |
| Mov Cap-2 Maneuver | - | - | - | - | 646 - |
| Stage 1 | - | - | - | - | 865 - |
| Stage 2 | - | - | - | - | 786 - |

| Approach | EB | WB | NW |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0 | 2.6 | 11.3 |
| HCM LOS | | B | |

| Minor Lane/Major Mvmt | NWLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 718 | - | - | 1352 | - |
| HCM Lane V/C Ratio | 0.201 | - | - | 0.04 | - |
| HCM Control Delay (s) | 11.3 | - | - | 7.8 | - |
| HCM Lane LOS | B | - | - | A | - |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 0.1 | - |