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Meridian Ranch Fieldhouse Traffic Impact Study (LSC #S234410) February 8, 2024

Traffic Engineer's Statement

Please add PCD File No. PPR246

This traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.



Developer's Statement

I, the Developer, have read and will comply with all commitments made on my behalf within this report.

1- 11/

Jim Ńikkel, General Manager Meridian Service Metropolitan District

02/09/2024

Date

Meridian Ranch Fieldhouse Traffic Impact Analysis

Jim Nikkel General Manager Meridian Service Metropolitan District 11886 Stapleton Drive Falcon, CO 80831

FEBRUARY 8, 2024

LSC Transportation Consultants Prepared by: Kirstin D. Ferrin, P.E. Reviewed by: Jeffrey C. Hodsdon, P.E.

LSC #S234410



CONTENTS

| REPORT CONTENTS | 1 |
|--|----|
| PREVIOUS TRAFFIC REPORTS COMPLETED IN THE AREA | 2 |
| LAND USE AND ACCESS | 2 |
| Land Use | 2 |
| Access | 3 |
| Pedestrian Facilities | 3 |
| Sight Distance | 3 |
| ROADWAY AND TRAFFIC CONDITIONS | 4 |
| Area Roadways | 4 |
| Existing Traffic Volumes | 5 |
| Existing Levels of Service | 5 |
| Londonderry Drive/Rainbow Bridge Drive | 5 |
| Rex Road/Pyramid Peak Drive | 5 |
| 2043 BACKGROUND TRAFFIC | 6 |
| TRIP GENERATION | 6 |
| TRIP DISTRIBUTION AND ASSIGNMENT | 7 |
| Trip Distribution | 7 |
| Assignment of Site-Generated Trips | 7 |
| TOTAL TRAFFIC | 7 |
| Short Term | 7 |
| Long Term | 7 |
| PROJECTED LEVELS OF SERVICE | 7 |
| Londonderry Drive/Rainbow Bridge Drive | 8 |
| Rex Road/Pyramid Peak Drive | 8 |
| Rainbow Bridge Drive Access Points | 8 |
| FUNCTIONAL CLASSIFICATION | 8 |
| CONCLUSIONS AND RECOMMENDATIONS | 8 |
| Enclosures: 1 | .0 |
| Table 2 | |
| Figures 1-11 | |
| Traffic Counts | |
| Level of Service Reports | |
| MTCP Maps | |
| Appendix 1 | |



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February 8, 2024

Jim Nikkel General Manager Meridian Service Metropolitan District 11886 Stapleton Drive Falcon, CO 80831

> RE: Meridian Ranch Fieldhouse El Paso County, CO Traffic Impact Analysis LSC #S234410

Dear Mr. Nikkel,

In response to your request, LSC Transportation Consultants, Inc. has prepared this traffic impact analysis for the currently-proposed Meridian Ranch Fieldhouse. As shown in Figure 1, the site of the proposed Meridian Ranch fieldhouse is located east of Rainbow Bridge Drive about a half mile north of Londonderry Drive in El Paso County, Colorado.

The fieldhouse facility is proposed as the second recreation center to serve Meridian Ranch residents and will provide space for recreational sports and exercise. Two full-movement vehicular-access points are proposed to Rainbow Bridge Drive. Pedestrian/bicycle connections are also proposed for non-motorized access to the facility from the surrounding Meridian Ranch neighborhoods.

REPORT CONTENTS

This report is being prepared as part of a submittal to El Paso County. The report identifies the traffic impacts of the proposed site on the streets and roadways in the vicinity of the site and presents recommendations for the transportation system. The report contains the following:

- The existing roadway and traffic conditions in the site's vicinity, including the roadway widths, lane geometries, and traffic controls, etc.;
- The peak-hour turning-movement traffic counts at key intersections in the vicinity of the site;
- The average week-day and peak-hour vehicle trips to be generated by the site;

- The assignment of these trips to the area streets, roadways, and intersections; projections of long-term background traffic volumes;
- Resulting total traffic volumes on the area roadways;
- The projected levels of service at the key area intersections, following buildout; and
- The recommended transportation system, including functional classification of streets and roadways, number of lanes, intersection lane geometry/auxiliary turn lanes, and intersection traffic control.

PREVIOUS TRAFFIC REPORTS COMPLETED IN THE AREA

LSC completed the *Meridian Ranch Sketch Plan 2017 Amendment Traffic Impact Study* (TIS) (<u>SKP-171</u>) October 3, 2017 and the *Meridian Ranch Sketch Plan 2021 Amendment Traffic Impact Study* (<u>SKP-213</u>) June 25, 2021. Both sketch plan studies assumed this site developed as a community park with four soccer fields and access to Rainbow Bridge Drive.

A list of other traffic studies in the area of study completed within the past five years (that LSC is aware of) is attached for reference. This study accounts for the land use, trip generation, and the roadway network included in these studies.

A traffic report, entitled Eastonville Road Project Conceptual Design Report, was also recently completed for Eastonville Road by Wilson & Company (for El Paso County).

LAND USE AND ACCESS

Land Use Add discussion of school sites within 2 miles

Figure 1 shows the site location. The site for the fieldhouse building, parking areas, and fields is part of a district-owned 19-acre parcel (EPC parcel no. 4220303093).

Figure 2 shows the proposed site plan for the Meridian Ranch Fieldhouse. The fieldhouse will provide space for recreational sports and exercise as an extension of the Meridian Ranch Recreation Center located on the northeast of the intersection of Londonderry Drive and Angels Road. The site is planned to include a 53,965-square-foot building that will include an indoor soccer field, a basketball/volleyball court, an exercise studio, a cardio/weights floor, a walking track, a childcare area, offices, and locker rooms. The site plan also includes a future 2,488-square-foot office building and a future outdoor soccer field.

The facility will not be open to the general-public use as a for-profit business, but rather for use by Meridian Ranch residents.

Page 3 Please provide excerpts as staff could not find this on the 2017 Sketch Plan

Access

Two full-movement access points are proposed to Rainbow Bridge Drive. The first access will be located about 397 feet southeast of Culebra Peak Drive and the second access will be located about 340 feet southeast of the first access.

The locations of these access points are generally consistent with those shown on the 2017 Sketch Plan TIA.

Pedestrian Facilities

Figure 3 shows the location of existing bicycle lanes, marked pedestrian crossings, and trail connections in the vicinity of the site. There are currently detached sidewalks along both sides of all the streets in the vicinity of the site. As shown in Figure 2, an existing trail that currently goes through the site to the Rolling Hills Ranch subdivision to the west is planned to be rerouted through the parking areas along new sidewalks.

There are existing pedestrian crosswalk markings on intersection of Londonderry Drive/Rainbow Bridge intersection during school arrival and dismissal times. accordingly.

Per table 2-21 the

sight distance shall o-sign-controlled be based on design posted at this speed. Revise

Sight Distance

Figure 4 shows an analysis of the required sight-distance at the proposed access points to Rainbow Bridge Drive. Based on the posted speed limit of 25 miles per hour (mph) on Rainbow Bridge Drive and the information contained in Table 2-21 of the Engineering Criteria Manual (ECM), the required intersection sight distance at these intersections is 280 feet. Based on the criteria contained in Table 2-17 of the ECM, the required stopping sight distance approaching these intersections is 155 feet. As shown in Figure 3, these criteria can be met at both intersections.

The available sight distance at the access points was measured in the field. The available sight distance at the north access is about 444 feet to the north and 533 feet to the south. The available sight distance at the south access is about 675 feet to the north and 635 feet to the south. The available sight distance exceeds the required sight distance at both access points.

ROADWAY AND TRAFFIC CONDITIONS

Area Roadways

The major area roadways within and adjacent to Meridian Ranch are described below. Copies of the 2016 *El Paso County Major Transportation Corridors Plan (MTCP)* 2040 Roadway Plan and 2016 MTCP 2060 Corridor Preservation Plan with the site location identified on them have been attached to this report.

Londonderry Drive is a two-lane Collector extending east from the Falcon Hills neighborhood to Eastonville Road. Londonderry Drive has one through lane in each direction and a raised center median. The posted speed limit on Londonderry Drive is 35 miles per hour (mph)

Rex Road extends east from Goodson Road to Estate Ridge Drive within the Meridian Ranch development. Rex Road is classified as an Urban Minor Arterial in the *2016 El Paso County Major Transportation Corridors Plan (MTCP)* 2040 Roadway Plan. The posted speed limit on Rex Road is 45 mph between Meridian Road and Mount Gateway Drive and 35 mph east of Mount Gateway Drive. Rex Road is currently being constructed as a 2-lane Urban Minor Arterial from its existing terminus at Estate Ridge Drive to Eastonville Road. The new section is anticipated to be open to traffic by spring 2024. A short section is also proposed to be constructed east of Eastonville Road in the short-term future as part of the approved Grandview Reserve Phase 1 development. The west leg of Rex Road approaching Eastonville Road will be a temporary asphalt connection until a roundabout is constructed as part of the Grandview Reserve Phase 1 development. In the future, Rex Road is planned to be constructed southeast through Grandview Reserve Sketch Plan area, coordination with El Paso County, the Colorado Department of Transportation (CDOT), other local agencies, and associated applications to CDOT.

Rainbow Bridge Drive is a two-lane Collector extending north from Lambert Road to Mount Antero Drive. Rainbow Bridge Drive has a posted speed limit of 25 mph north of Londonderry Drive. Rainbow Bridge Drive has a three-lane cross section (one through lane in each direction and a center two-way left-turn lane) from Londonderry Drive to Mount Harvard Drive. The section of Rainbow Bridge Drive adjacent to the site has one through lane in each direction.

Mount Antero Drive is an Urban Local which extends northwest from the terminus of Rainbow Bridge Drive to Pyramid Peak Drive.

Pyramid Peak Drive is an Urban Local which extends northeast from Mount Evans Drive to just north of Rex Road.

Existing Traffic Volumes

Figure 5 shows the existing morning, mid-afternoon (3:00-4:00 p.m.), and late-afternoon peak-hour traffic volumes at the key intersections from the attached traffic counts conducted by LSC in December 2023.

Existing Levels of Service

Level of service (LOS) is a quantitative measure of the level of delay at an intersection. Level of service is indicated on a scale from "A" to "F." LOS A represents control delay of less than 10 seconds for unsignalized and signalized intersections. LOS F represents control delay of more than 50 seconds for unsignalized intersections and more than 80 seconds for signalized intersections. Table 1 shows the level of service delay ranges.

| 18 | DIE 1. LEVEL OF SELVICE DEIA | y Naliges |
|------------------|---|--------------------------------------|
| | Signalized Intersections | Unsignalized Intersections |
| | Average Control Delay | Average Control Delay |
| Level of Service | (seconds per vehicle) | (seconds per vehicle) ⁽¹⁾ |
| А | 10.0 sec or less | 10.0 sec or less |
| В | 10.1-20.0 sec | 10.1-15.0 sec |
| С | 20.1-35.0 sec | 15.1-25.0 sec |
| D | 35.1-55.0 sec | 25.1-35.0 sec |
| E | 55.1-80.0 sec | 35.1-50.0 sec |
| F | 80.1 sec or more | 50.1 sec or more |
| | ersections, if V/C ratio is great ardless of the projected avera | |

Table 1: Level of Service Delay Ranges

Figure 5 presents the results of the existing intersection level of service analysis. The levels of service on Rex Road are based on the unsignalized method of analysis procedures from the *Highway Capacity Manual, 6th Edition by* the Transportation Research Board. The level of service reports are attached

| reports are attached. | Identify why Londonderry/Lambert | |
|--|--|-----|
| Londonderry Drive/Rainbow Bridge Drive | intersection was not included in the | |
| Londonderry Drive/ Kambow Dridge Drive | analysis. Also Sunrise Ridge and Rex | |
| | Road as this intersection appears to be | |
| The intersection of Londonderry/Rainbow Brid | the quickest route for Sanctuary & | AII |
| | Rolling hills Ranch North subdivisions. | |
| | Be sure to include their traffic in your | |
| Rex Road/Pyramid Peak Drive | analysis and update the distribution of | |
| | traffic accordingly. | |
| | | |

The intersection of Rex Road/Pyramid Peak is currently two-way, stop-sign controlled. All approaches at this intersection are currently operating at LOS B or better during the peak hours.



Page Please be sure to include Sanctuary and Rolling Hills Ranch North in your background traffic. Sanctuary is already approved and Rolling Ranch PUDSP will be going to hearing soon.

Background traffic is the traffic estimated to be on the study-area streets without consideration of the proposed fieldhouse. It includes through traffic and traffic generated by adjacent/nearby developments.

Figure 6 shows the projected 20-year background traffic volumes for the year 2043. These volumes assume that Rex Road has been extended east to US Highway 24. The 2043 background traffic volumes were based on previous work completed by LSC in the area, including the *Meridian Ranch Sketch Plan 2021 Amendment Traffic Impact Study* (SKP-213), dated June 25, 2021.

TRIP GENERATION

The site-generated vehicle trips were estimated using nationally-published trip-generation rates for Land Use 495: Recreational Community Center from *Trip Generation, 11th Edition, 2021* by the Institute of Transportation Engineers (ITE). Note that the data for this land use are based on public facilities, but membership at the proposed fieldhouse is planned to be restricted to residents of Meridian Ranch. The ITE estimates may be conservative.

The ITE trip-generation estimates for land use No. 495 are for vehicle trips. Limited/no ITE data is available for trips by alternate transportation modes. To be conservative, no reductions to the trip-generation estimate were made due to mode split. However, due to the location of the proposed site within a residential area and the availability of existing pedestrian and bicycle facilities as shown on Figure 3, it is likely that some visitors will choose to walk or ride their bicycle to and from the site. Table 2 shows the results of the trip-generation estimate. Table 2 also shows the trip-generation estimate from the Sketch Plan report completed by LSC in October 2017.

The proposed fieldhouse, based on ITE trip-generation rates for land use No.495, is estimated to generate about 1,662 vehicle trips on the average weekday, with about half entering and half exiting the site during a 24-hour period. This is about 1,377 more weekdays trips than was assumed for this same parcel in the 2017 *Sketch Plan Update TIS*.

During the morning peak hour, which generally occurs for one hour between 6:30 a.m. and 8:30 a.m., about nine vehicles would enter and four vehicles would exit the site. During the mid-afternoon school peak hour (3:00 - 4:00 p.m.), about 45 vehicles would enter and 54 vehicles would exit the site. During the afternoon peak hour, which generally occurs for one hour between 4:15 p.m. and 6:15 p.m., about 76 vehicles would enter and 80 vehicles would exit.

TRIP DISTRIBUTION AND ASSIGNMENT

Trip Distribution

The area/directional distribution of the trips to be generated by the proposed fieldhouse on the area roadways is an important factor in determining the traffic impacts. Figure 7 shows the overall trip-distribution estimate for the trips estimated to be generated by the proposed fieldhouse. The estimates were based on the following factors: the location of the Meridian Ranch fieldhouse with respect to Meridian Ranch neighborhoods and number of housing units, area schools, and the Meridian Ranch street network. The trip distribution assumes a majority of the trips generated by the proposed fieldhouse would have origins or destinations within the overall Meridian Ranch development.

The distribution estimate accounts for diverted or "chained" trips, such as residents traveling to the facility in the morning from home, then departing for a workplace destination after using the facility.

Assignment of Site-Generated Trips

When the trip-distribution percentages (from Figure 7) are applied to the trip-generation estimates (from Table 2), the resulting site-generated traffic volumes can be determined. Figure 8 shows the site-generated traffic volumes.

TOTAL TRAFFIC

Short Term

Figure 9 shows the sum of the existing traffic volumes (from Figure 5) and site-generated traffic volumes (from Figure 8). These volumes represent the short-term impacts of the fieldhouse-generated trips.

Long Term

Figure 10 shows the projected 2043 total traffic volumes. These volumes are the sum of the 2043 background traffic volumes (from Figure 6) and the site-generated traffic volumes (from Figure 8).

PROJECTED LEVELS OF SERVICE

The key area intersections and access points were analyzed to determine the projected levels of service for the short-term and 2043 background and total traffic volumes, based on the unsignalized-intersection analysis procedures from the Highway Capacity Manual and the

signalized-intersection analysis procedures from the Synchro computer program. Figures 6, 9, and 10 show the level of service analysis results. The level of service reports are attached.

Londonderry Drive/Rainbow Bridge Drive

The intersection of Londonderry/Rainbow Bridge is currently all-way, stop-sign controlled. All approaches are projected to operate at LOS D or better during the peak hours through 2043.

Rex Road/Pyramid Peak Drive

The intersection of Rex Road/Pyramid Peak is currently two-way, stop-sign controlled. All movements at this intersection are projected to operate at LOS D or better during the peak hours through 2043.

Rainbow Bridge Drive Access Points

Both full-movement access points to Rainbow Bridge Drive are projected to operate at LOS A for all movements during the peak hours through 2043 as stop-sign-controlled intersections.

FUNCTIONAL CLASSIFICATION

Figure 11 shows the functional classifications for the roadways in the vicinity of the site. Figure 11 also shows a comparison of the projected 2043 average weekday traffic volumes and the design average weekday traffic volume by classification per the criteria contained in Tables 2-6 and 2-7 of the *El Paso County Engineering Criteria Manual (ECM)* on key street segments. As shown in Figure 10, all the projected average weekday traffic volumes are less than the design volumes.

CONCLUSIONS AND RECOMMENDATIONS

- The proposed fieldhouse, based on ITE trip-generation rates for land use No.495, is estimated to generate about 1,662 vehicle trips on the average weekday, with about half entering and half exiting the site during a 24-hour period. This is about 1,377 more weekdays trips than was assumed for this same parcel in the 2017 Sketch Plan Update TIS.
- During the morning peak hour, which generally occurs for one hour between 6:30 a.m. and 8:30 a.m., about nine vehicles would enter and four vehicles would exit the site. During the mid-afternoon school peak hour (3:00 4:00 p.m.) about 45 vehicles would enter and 54 vehicles would exit the site. During the afternoon peak hour, which generally occurs for one hour between 4:15 p.m. and 6:15 p.m., about 76 vehicles would enter and 80 vehicles would exit the amendment area.
- The intersection of Londonderry/Rainbow Bridge is projected to continue to operate at a satisfactory level of service as an all-way, stop-sign-controlled intersection through 2043.
- The intersection of Rex/Pyramid Peak is projected to continue to operate at a satisfactory level of service as two-way, stop-sign-controlled intersections through 2043.

Mr. Jim Nikkel

This study was based on the Meridian Ranch Fieldhou: existing traffic. Please provide analysis and conclusions with the added traffic of this development.

Provide excerpts of this study in this report.

sed full-movement access points to Rainbow Bridge Drive are projected to operate at a satisfactory level of service as two-way, stop-sign-controlled intersections through 2043.

Based on the **existing** traffic volumes shown in Figure 4 and the criteria contained in the ECM, the following auxiliary lanes would be required at the intersection of Londonderry rive/Rainbow Bridge Drive:

Please identify whether any changes to the existing left turn lanes at this intersection are needed.

- An eastbound right-turn land on Londonderry Drive approaching Rair figure 3 is the 0 Drive pedestrian and
- A northbound left-turn lane on Rainbow Bridge Drive approaching L bicycle facilities 0 figure. revise Drive.
- A southbound right-turn lare on Rainbow Bridge Drive approaching L accordingly 0 Drive.

However, auxiliary turn lanes for the purposes of mitigating "speed-change differential" between through traffic and turning traffic are not necessary at this intersection as it is all-way, stop-sign controlled and all vehicles approaching the intersection decelerate to a stop. Additionally, LSC completed a Pedestrian Operation and Safety Study for this intersection dated February 8, 2017. All the improvements recommended in that study have since been implemented. That study did not recommend additional auxiliary lanes likely because this would result in longer crossing distances for pedestrians. For these reasons, LSC does not recommend any improvements at this intersection.

- At the intersection of Rex Road/Pyramid Peak Road, the existing traffic volume during the school peak hour (shown in Figure 3) currently exceeds the 50-vph threshold in the ECM above which an eastbound right-turn deceleration lane is prescribed. The threshold is not currently exceeded during the morning and evening peak hours. Regarding the projected traffic impact of this project: This project is anticipated to add less than one vehicle per hour to that turning movement during the peak hours and, further, the diverted-trip component during the afternoon peak may actually reduce the net increase in right-turning trips.
- The minimal additional site-generated eastbound right-turning volume during the school peak hour would represent less than a one-percent increase over the existing turning volume during the school peak hour, which is the time period during which the 50 vph is exceeded.
- Also note: although the existing right-turning volume during the school peak hour currently exceeds the 50 vph threshold, the road has been built and infrastructure is in-place - including sidewalk and storm-sewer inlet.
- Based on the above reasons, LSC does not recommend a requirement of this project to add an eastbound right-turn deceleration lane at the intersection of Rex Road/Pyramid Peak Road.
- At the intersection of Rex Road/Pyramid Peak Road, the existing traffic volumes during the morning, school and evening peak hours (shown in Figure $\frac{3}{3}$) currently exceed the 25-vph threshold in the ECM above which a northbound left-turn deceleration lane is prescribed. However, LSC recommends the existing

The addition of a southbound right turn along **Rainbow Bridge** approching Londonderry would result in a crossing less than the north/south crossing of Londonderry. Provide justification for not providing a right turn due to this developments traffic impacts.

single-lane northbound approach be allowed to remain as currently configured/built for the following reasons:

- Pyramid Peak Drive is classified as an Urban Local and the typical cross section for that classification does not have turn lanes.
- Auxiliary turn lanes for the purposes of mitigating "speed-change differential" between through traffic and turning traffic are not necessary as the northbound approach is **Stop-sign controlled** and all vehicles approaching the intersection decelerate to a stop prior to proceeding to enter the intersection.
- The opposing volumes are less than 20 vehicles per hour. The Colorado Highway Access code allows for a left-turn lane to be dropped if the opposing volume is predicted to be below 100 vehicles per hour.
- The northbound approach is projected to operate at a satisfactory level of service with a single-lane approach.
- The minimal site-generated northbound left-turning volume during the peak hours would represent less than a five-percent increase over the corresponding existing northbound left-turning volumes.
- Based on the above reasons, LSC does not recommend any modifications to the northbound approach at the intersection of Rex Road/Pyramid Peak Road.
- Based on the projected 2043 total traffic volumes shown in Figure 9 and the criteria contained in the *ECM*, no auxiliary turn lanes are required on Rainbow Bridge Drive approaching the site-access points.
- No offsite improvements are recommended.

* * * * *

Please contact me if you have any questions regarding this r

Sincerely,

LSC TRANSPORTATION CONSULTANTS, INC.

By Jeffrey C. Hodsdon, P.E. Principal

JCH/KDF:jas

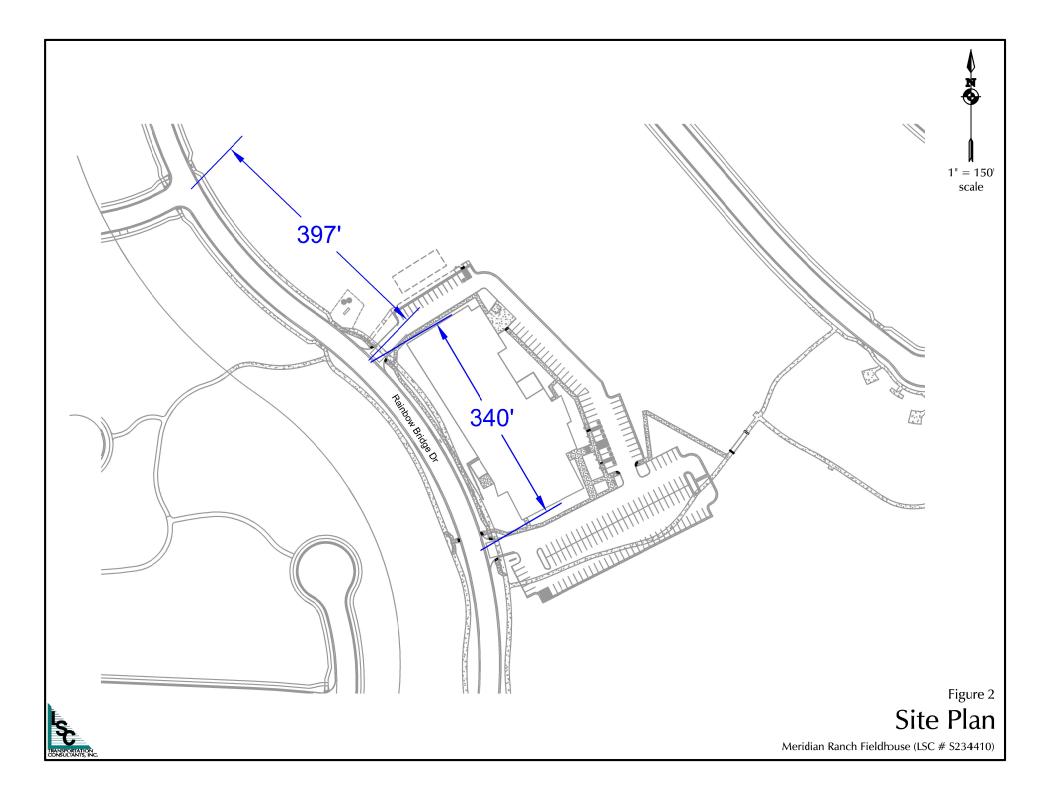
Enclosures: Table 2 Figures 1-11 Traffic Counts Level of Service Reports MTCP Maps Appendix 1 see comments regarding analyzing the two other intersections along Londonderry and Rex Rd and provide auxiliary lane analysis accordingly.

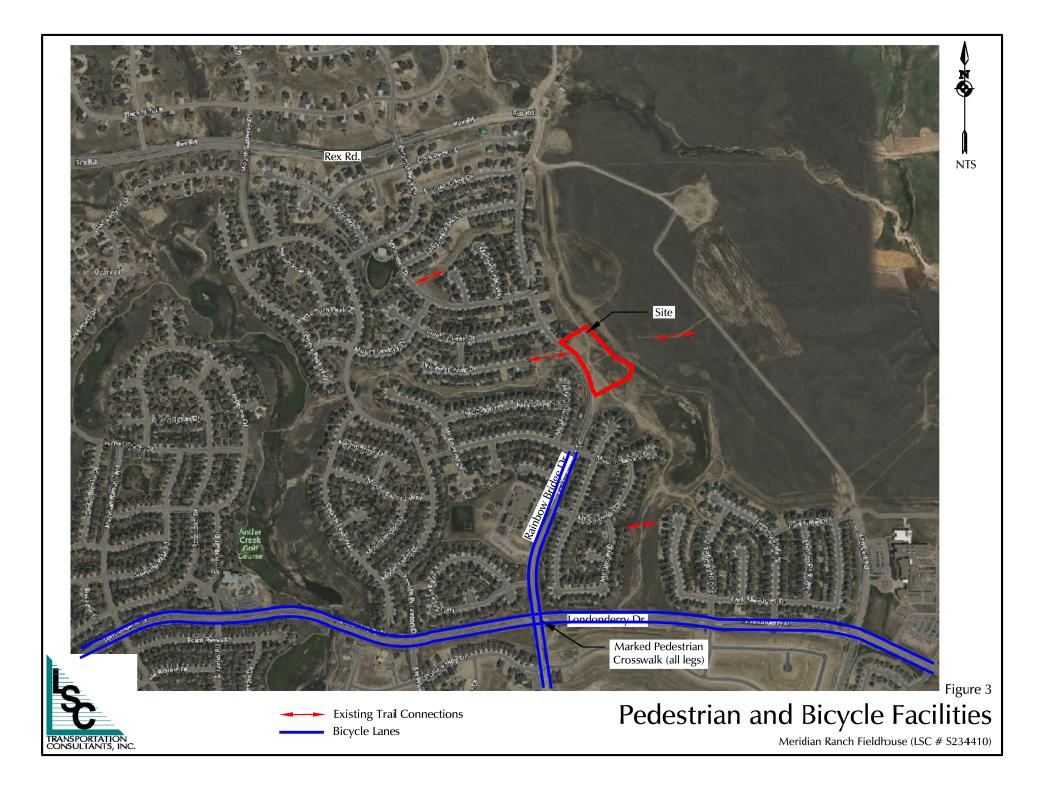


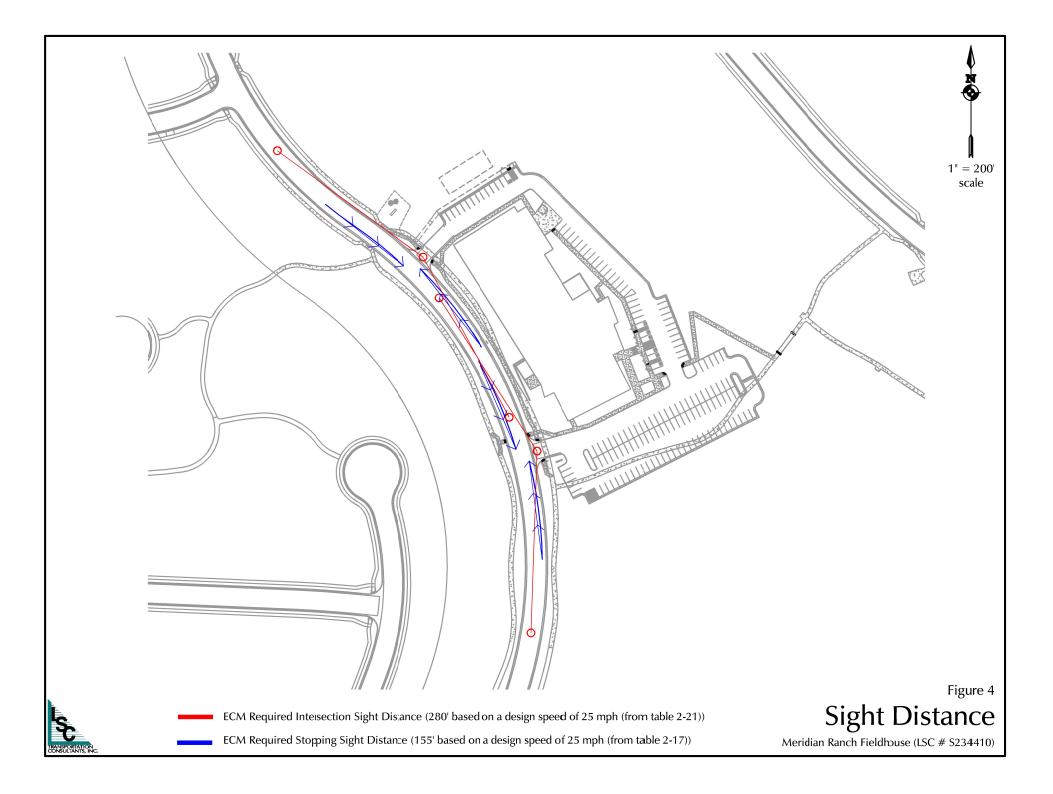
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|-------------|--|------------------------------|--------------------|------------|--------------|-------------------------|---------------------|-----------------------|--------------|--------------------|-----------|----------|------------|--------------|------------|---------------|
| | | | | | | eration R | ates ⁽¹⁾ | Rates and Generate | d do not | _ | | Total Tr | ips Gene | erated | | |
| Land | | Trip | Average Weekdey | | ning | | day | | noon | Average | Mor | • | | lday | | rnoon |
| Use Code | Land Use Description | Generation Units | Weekday Traffic | Peak In | -Hour Out | In | -Hour Out | Peak In | -Hour Out | Weekday Traffic | Peak- | Out | Peak In | -Hour Out | Peak In | k-Hour Out |
| Trip Ge | eneration Estimate Based on the Cu | irrently Proposed Pla | an | | | | | | | | | | | | | |
| 495 | Recreational Community Center | 53.965 KSF ⁽³⁾ | 28.82 | 1.26 | 0.65 | 0.76 | 0.92 | 1.18 | 1.33 | 1,555 | 5 | 3 | 41 | 50 | 63 | 72 |
| 488 | Soccer Complex | 1 field | 71.33 | 0.60 | 0.39 | 1.88 | 2.27 | 10.84 | 5.59 | 71 | 1 | 0 | 2 | 2 | 11 | 5 |
| 712 | Small Office Building | 2.468 KSF | 14.39 | 1.37 | 0.30 | 0.74 | 0.82 | 0.73 | 1.43 | 36 | 3 | 1 | 2 | 2 | 2 | 3 |
| | | | | | | | | | Total | 1,662 | 9 | 4 | 45 | 54 | 76 | 80 |
| Trip Ge | eneration Estimate For the Same Pa | rcel From the Merdia | an Ranch S | Sketch | Plan 2 | 017 Am | endme | ent Traf | fic Impa | act Analys | sis , Oct | ober 3, | , 2017 (| SKP171 | I) | |
| 488 | Soccer Complex | 4 fields | 71.33 | 0.70 | 0.70 | | | 14.26 | 6.41 | 285 | 3 | 3 | | | 57 | 26 |
| | | | | Chang | e (incre | ase) in T | rip Gen | eration E | Estimate | 1,377 | 6 | 1 | | | 19 | 54 |
| () | ce: <i>Trip Generation</i> , 11th Edition, 2021 by th = 1,000 square feet | ne Institute of Transportati | on Engineers | s (ITE) | | | | | | | | | | | | |
| Source: | LSC Transportation Consultants, Inc. | | | | | | | | | | | | | | | Dec-23 |

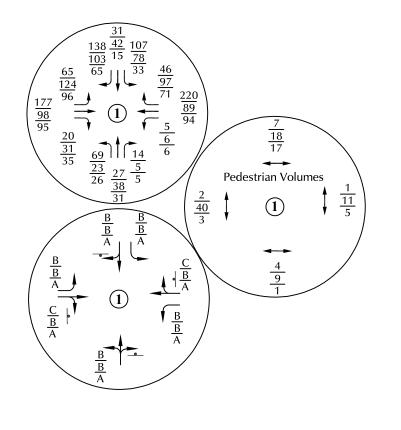




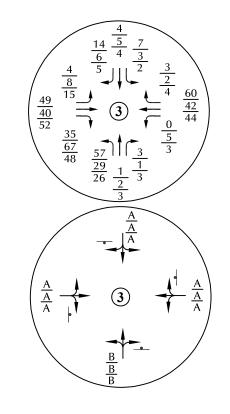


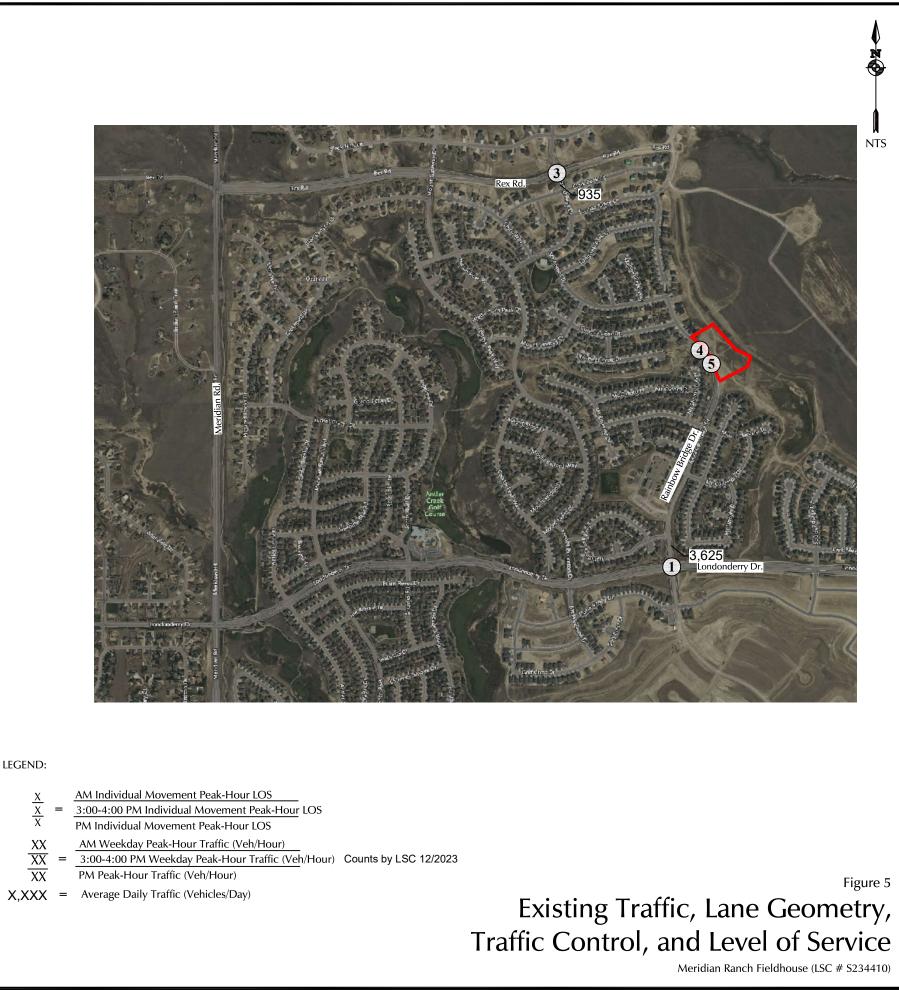






RANSPORTATION

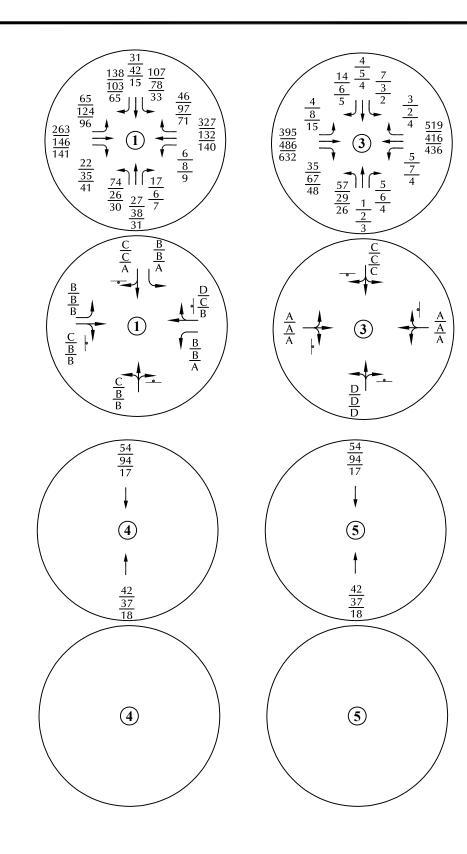


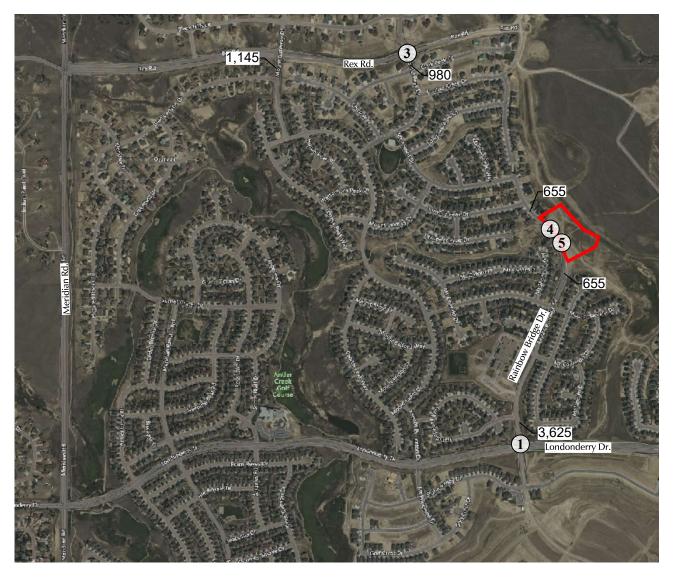


LEGEND:

- <u>X</u>
- $\frac{X}{X}$

- $\frac{XX}{XX}$ = XX





- AM Individual Movement Peak-Hour LOS <u>X</u>
- $\frac{\overline{X}}{\overline{X}}$ 3:00-4:00 PM Individual Movement Peak-Hour LOS =
- PM Individual Movement Peak-Hour LOS
- $\frac{XX}{XX}$ AM Weekday Peak-Hour Traffic (Veh/Hour)
- 3:00-4:00 PM Weekday Peak-Hour Traffic (Veh/Hour) = XX PM Peak-Hour Traffic (Veh/Hour)
- X,XXX = Average Daily Traffic (Vehicles/Day)

Figure 6 2043 Background Traffic, Lane Geometry, Traffic Control, and Level of Service Meridian Ranch Fieldhouse (LSC # S234410)









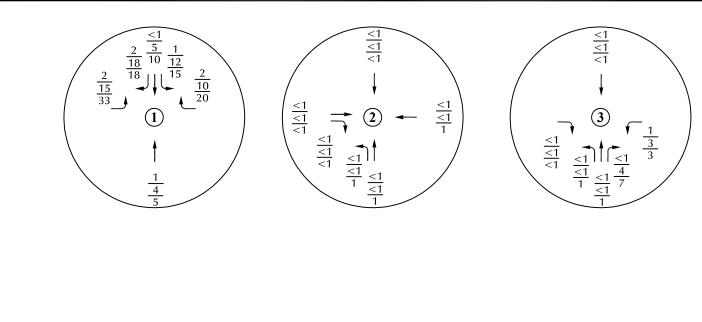
LEGEND: XX%

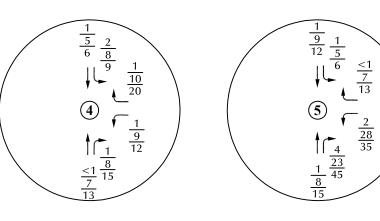
 $\frac{\overline{XX\%}}{XX\%}$

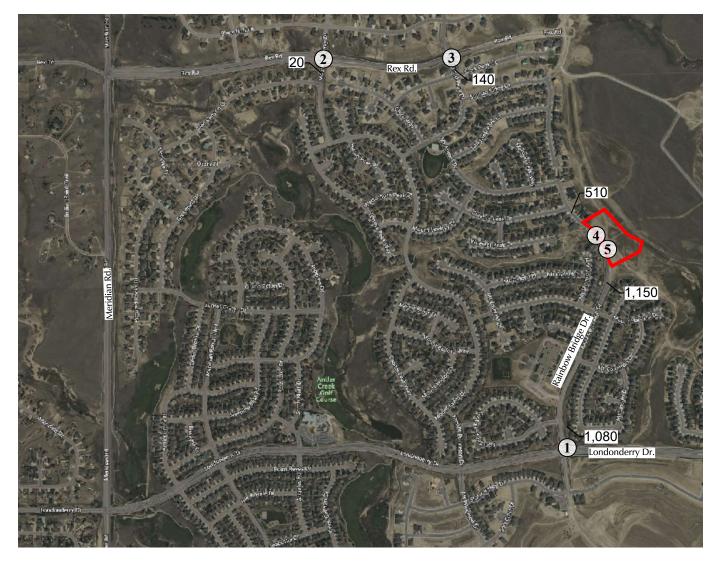
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AM Peak Hour Directional Distribution 3-4pm Directional Distribution PM Peak Hour Directional Distribution Figure 7 Directional Distribution

Meridian Ranch Fieldhouse (LSC # S234410)



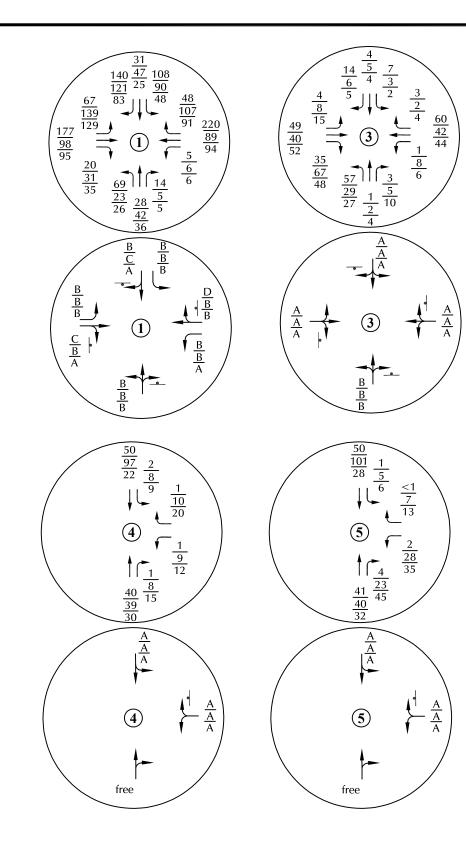


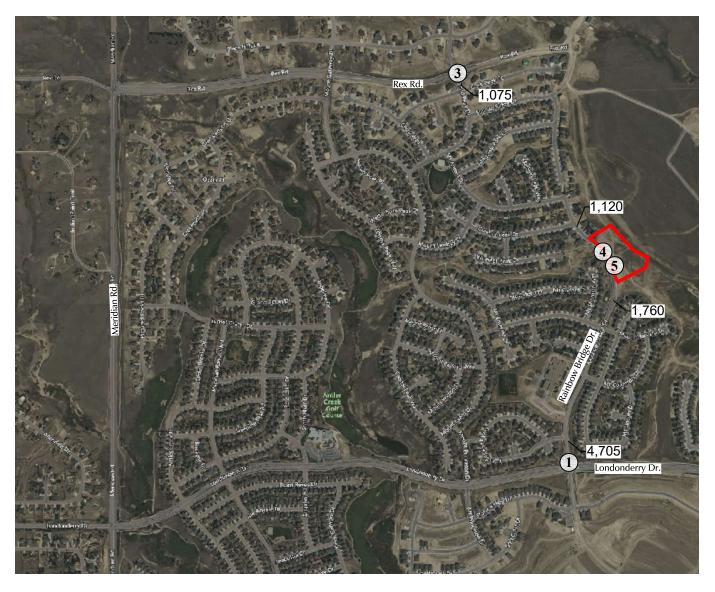


- AM Weekday Peak-Hour Traffic (Veh/Hour) XX \overline{XX} = 3:00-4:00 PM Weekday Peak-Hour Traffic (Veh/Hour)
- XX PM Peak-Hour Traffic (Veh/Hour)
- X,XXX = Average Daily Traffic (Vehicles/Day)



Figure 8 Estimated Site Generated Traffic Meridian Ranch Fieldhouse (LSC # S234410)





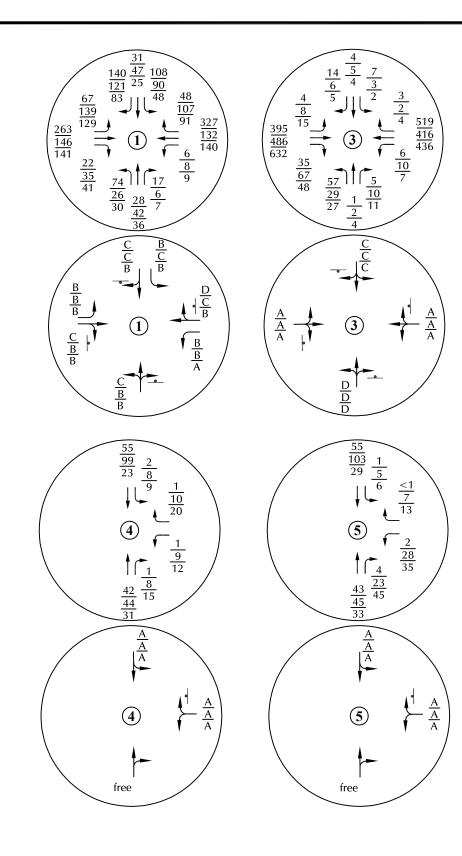
<u>X</u>

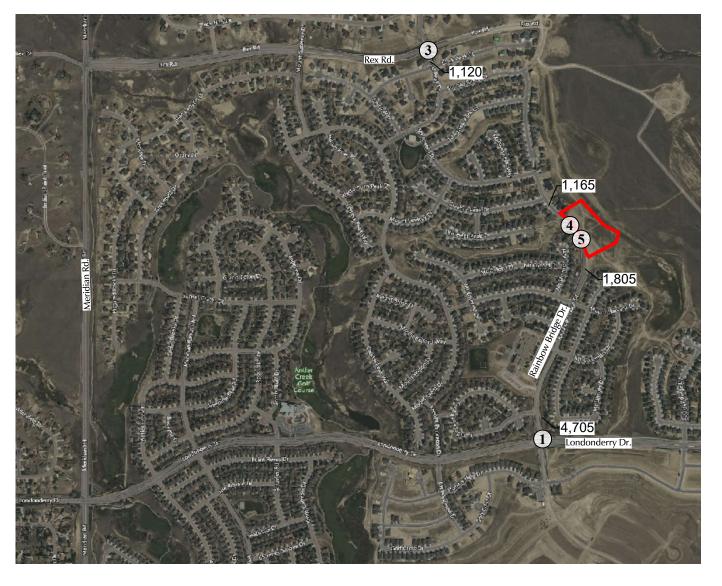
- AM Individual Movement Peak-Hour LOS
- 3:00-4:00 PM Individual Movement Peak-Hour LOS $\frac{X}{X}$ =
- PM Individual Movement Peak-Hour LOS
- XX AM Weekday Peak-Hour Traffic (Veh/Hour) XX
- 3:00-4:00 PM Weekday Peak-Hour Traffic (Veh/Hour) = XX PM Peak-Hour Traffic (Veh/Hour)
- X,XXX = Average Daily Traffic (Vehicles/Day)

Figure 9 Existing + Site-Generated Traffic, Lane Geometry, Traffic Control, and Level of Service Meridian Ranch Fieldhouse (LSC # S234410)







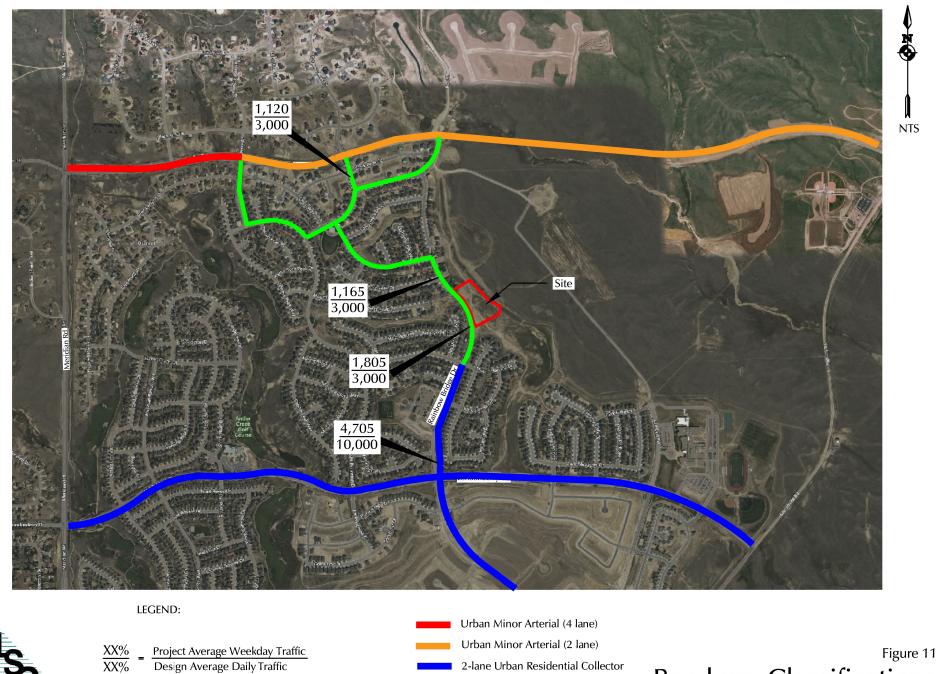


- AM Individual Movement Peak-Hour LOS <u>X</u> $\frac{\overline{X}}{\overline{X}}$ 3:00-4:00 PM Individual Movement Peak-Hour LOS = PM Individual Movement Peak-Hour LOS
- AM Weekday Peak-Hour Traffic (Veh/Hour)
- $\frac{XX}{XX}$ 3:00-4:00 PM Weekday Peak-Hour Traffic (Veh/Hour) = XX PM Peak-Hour Traffic (Veh/Hour)
- X,XXX = Average Daily Traffic (Vehicles/Day)









2-lane Urban Residential Collector Urban Local

TRANSPORTATION CONSULTANTS, INC.

Roadway Classifications

Meridian Ranch Fieldhouse (LSC # S234410)



719-633-2868

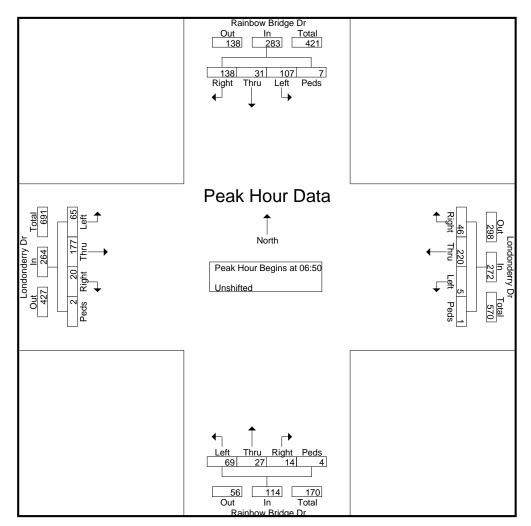
File Name : Rainbow Bridge Dr - Londonderry Dr AM Site Code : S234410 Start Date : 12/6/2023 Page No : 1

| | | | | | | | | Gi | oups | Printe | d- Uns | hifte | ł | | | | | | | | |
|-------------|-------|-----------|--------------|--------|------------|-------|--------------|-------|------|------------|--------|-------|-------|--------|------------|-------|------|-------|---------|------------|------------|
| | | | | idge D | Dr | | | londe | | | F | | | idge D | Dr | | | | erry Dr | , | |
| | | <u>So</u> | uthbo | und | | | W | estbo | und | | | No | rthbo | und | | | Ea | astbo | | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:45 | 9 | 1 | 8 | 0 | 18 | 2 | 8 | 1 | 0 | 11 | 0 | 1 | 2 | 0 | 3 | 0 | 11 | 1 | 0 | 12 | 44 |
| 06:50 | 9 | 2 | 12 | 1 | 24 | 2 | 11 | 0 | 0 | 13 | 1 | 0 | 3 | 0 | 4 | 1 | 10 | 3 | 1 | 15 | 56 |
| 06:55 | 7 | 2 | 4 | 0 | 13 | 6 | 18 | 0 | 0 | 24 | 1 | 0 | 3 | 0 | 4 | 1 | 9 | 4 | 0 | 14 | 55 |
| Total | 25 | 5 | 24 | 1 | 55 | 10 | 37 | 1 | 0 | 48 | 2 | 1 | 8 | 0 | 11 | 2 | 30 | 8 | 1 | 41 | 155 |
| 07:00 | 10 | 3 | 11 | 3 | 27 | 2 | 11 | 0 | 1 | 14 | 1 | 0 | 6 | 0 | 7 | 1 | 13 | 2 | 1 | 17 | 65 |
| 07:05 | 10 | 2 | 13 | 1 | 26 | 2 | 21 | 1 | 0 | 24 | 2 | 3 | 4 | 0 | 9 | 1 | 21 | 3 | 0 | 25 | 84 |
| 07:10 | 20 | 1 | 14 | 1 | 36 | 3 | 31 | 1 | 0 | 35 | 1 | 0 | 4 | 1 | 6 | 1 | 24 | 4 | 0 | 29 | 106 |
| 07:15 | 15 | 3 | 13 | 0 | 31 | 9 | 28 | 0 | 0 | 37 | 3 | 8 | 5 | 0 | 16 | 1 | 29 | 5 | 0 | 35 | 119 |
| 07:20 | 13 | 4 | 14 | 0 | 31 | 2 | 37 | 0 | 0 | 39 | 2 | 2 | 10 | 2 | 16 | 2 | 20 | 5 | 0 | 27 | 113 |
| 07:25 | 11 | 9 | 9 | 0 | 29 | 7 | 22 | 2 | 0 | 31 | 1 | 3 | 3 | 1 | 8 | 0 | 14 | 6 | 0 | 20 | 88 |
| 07:30 | 13 | 0 | 4 | 0 | 17 | 1 | 14 | 0 | 0 | 15 | 1 | 3 | 8 | 0 | 12 | 2 | 11 | 6 | 0 | 19 | 63 |
| 07:35 | 9 | 3 | 3 | 0 | 15 | 4 | 10 | 0 | 0 | 14 | 0 | 2 | 11 | 0 | 13 | 5 | 5 | 6 | 0 | 16 | 58 |
| 07:40 | 10 | 0 | 4 | 1 | 15 | 4 | 12 | 1 | 0 | 17 | 1 | 3 | 9 | 0 | 13 | 2 | 10 | 6 | 0 | 18 | 63 |
| 07:45 | 11 | 2 | 6 | 0 | 19 | 4 | 5 | 0 | 0 | 9 | 0 | 3 | 3 | 0 | 6 | 3 | 11 | 15 | 0 | 29 | 63 |
| 07:50 | 4 | 0 | 3 | 1 | 8 | 2 | 7 | 0 | 0 | 9 | 0 | 3 | 2 | 0 | 5 | 5 | 11 | 3 | 1 | 20 | 42 |
| 07:55 | 3 | 2 | 6 | 0 | 11 | 12 | 6 | 1 | 0 | 19 | 0 | 3 | 2 | 0 | 5 | 4 | 1 | 14 | 0 | 19 | 54 |
| Total | 129 | 29 | 100 | 7 | 265 | 52 | 204 | 6 | 1 | 263 | 12 | 33 | 67 | 4 | 116 | 27 | 170 | 75 | 2 | 274 | 918 |
| 08:00 | 11 | 1 | 6 | 0 | 18 | 7 | 11 | 1 | 0 | 19 | 1 | 1 | 1 | 0 | 3 | 5 | 5 | 13 | 0 | 23 | 63 |
| 08:05 | 12 | 6 | 8 | 0 | 26 | 9 | 5 | 0 | 0 | 14 | 2 | 8 | 3 | 2 | 15 | 2 | 8 | 9 | 8 | 27 | 82 |
| 08:10 | 14 | 3 | 7 | 1 | 25 | 14 | 4 | 1 | 0 | 19 | 1 | 9 | 3 | 2 | 15 | 4 | 2 | 16 | 7 | 29 | 88 |
| 08:15 | 22 | 8 | 16 | 0 | 46 | 19 | 3 | 0 | 0 | 22 | 0 | 7 | 1 | 0 | 8 | 2 | 4 | 14 | 0 | 20 | 96 |
| 08:20 | 22 | 5 | 13 | 0 | 40 | 6 | 3 | 0 | 0 | 9 | 0 | 7 | 1 | 0 | 8 | 0 | 8 | 11 | 0 | 19 | 76 |
| 08:25 | 21 | 8 | 9 | 1 | 39 | 4 | 7 | 1 | 0 | 12 | 0 | 2 | 2 | 1 | 5 | 0 | 4 | 9 | 0 | 13 | 69 |
| 08:30 | 10 | 2 | 0 | 0 | 12 | 1 | 6 | 0 | 0 | 7 | 1 | 3 | 1 | 1 | 6 | 1 | 4 | 1 | 0 | 6 | 31 |
| 08:35 | 7 | 3 | 0 | 0 | 10 | 2 | 7 | 0 | 0 | 9 | | 0 | 3 | 0 | 4 | 0 | 4 | 4 | 0 | 8 | 31 |
| 08:40 | 9 | 0 | 2 | 0 | 11 | 1 | 4 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 1 | 3 | 6 | 2 | 0 | 11 | 28 |
| Grand Total | 282 | 70 | 185 | 10 | 547 | 125 | 291 68.1 | 10 | 1 | 427 | 21 | 71 | 90 | 10 | 192 | 46 | 245 | 162 | 18 | 471 | 1637 |
| Apprch % | 51.6 | 12.8 | 33.8 11.3 | 1.8 | 00 A | 29.3 | 68.1 17.8 | 2.3 | 0.2 | 00.4 | 10.9 | 37 | 46.9 | 5.2 | 44 7 | 9.8 | 52 | 34.4 | 3.8 | 20.0 | |
| Total % | 17.2 | 4.3 | 11.3 | 0.6 | 33.4 | 7.6 | 17.8 | 0.6 | 0.1 | 26.1 | 1.3 | 4.3 | 5.5 | 0.6 | 11.7 | 2.8 | 15 | 9.9 | 1.1 | 28.8 | |

719-633-2868

File Name : Rainbow Bridge Dr - Londonderry Dr AM Site Code : S234410 Start Date : 12/6/2023 Page No : 2

| | F | Rainb | ow Br | idge D | r | | Lond | londe | rry Dr | | | Rainb | ow Br | idge [| Dr | | Lond | donde | rry Dr | |] |
|--------------|---------|----------|---------|----------|------------|--------|------|-------|--------|------------|-------|-------|-------|--------|------------|-------|------|-------|--------|------------|------------|
| | | So | uthbo | und | | | W | estbo | und | | | No | rthbo | und | | | Ea | astbo | und | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour A | Analys | is Fro | m 06:4 | 45 to 08 | 8:40 - F | Peak 1 | of 1 | | | | | | | | | | | | | | |
| Peak Hour f | or Enti | ire Inte | ersecti | ion Beg | gins at | 06:50 | | | | | | | | | | | | | | | |
| 06:50 | 9 | 2 | 12 | 1 | 24 | 2 | 11 | 0 | 0 | 13 | 1 | 0 | 3 | 0 | 4 | 1 | 10 | 3 | 1 | 15 | 56 |
| 06:55 | 7 | 2 | 4 | 0 | 13 | 6 | 18 | 0 | 0 | 24 | 1 | 0 | 3 | 0 | 4 | 1 | 9 | 4 | 0 | 14 | 55 |
| 07:00 | 10 | 3 | 11 | 3 | 27 | 2 | 11 | 0 | 1 | 14 | 1 | 0 | 6 | 0 | 7 | 1 | 13 | 2 | 1 | 17 | 65 |
| 07:05 | 10 | 2 | 13 | 1 | 26 | 2 | 21 | 1 | 0 | 24 | 2 | 3 | 4 | 0 | 9 | 1 | 21 | 3 | 0 | 25 | 84 |
| 07:10 | 20 | 1 | 14 | 1 | 36 | 3 | 31 | 1 | 0 | 35 | 1 | 0 | 4 | 1 | 6 | 1 | 24 | 4 | 0 | 29 | 106 |
| 07:15 | 15 | 3 | 13 | 0 | 31 | 9 | 28 | 0 | 0 | 37 | 3 | 8 | 5 | 0 | 16 | 1 | 29 | 5 | 0 | 35 | 119 |
| 07:20 | 13 | 4 | 14 | 0 | 31 | 2 | 37 | 0 | 0 | 39 | 2 | 2 | 10 | 2 | 16 | 2 | 20 | 5 | 0 | 27 | 113 |
| 07:25 | 11 | 9 | 9 | 0 | 29 | 7 | 22 | 2 | 0 | 31 | 1 | 3 | 3 | 1 | 8 | 0 | 14 | 6 | 0 | 20 | 88 |
| 07:30 | 13 | 0 | 4 | 0 | 17 | 1 | 14 | 0 | 0 | 15 | 1 | 3 | 8 | 0 | 12 | 2 | 11 | 6 | 0 | 19 | 63 |
| 07:35 | 9 | 3 | 3 | 0 | 15 | 4 | 10 | 0 | 0 | 14 | 0 | 2 | 11 | 0 | 13 | 5 | 5 | 6 | 0 | 16 | 58 |
| 07:40 | 10 | 0 | 4 | 1 | 15 | 4 | 12 | 1 | 0 | 17 | 1 | 3 | 9 | 0 | 13 | 2 | 10 | 6 | 0 | 18 | 63 |
| 07:45 | 11 | 2 | 6 | 0 | 19 | 4 | 5 | 0 | 0 | 9 | 0 | 3 | 3 | 0 | 6 | 3 | 11 | 15 | 0 | 29 | 63 |
| Total Volume | 138 | 31 | 107 | 7 | 283 | 46 | 220 | 5 | 1 | 272 | 14 | 27 | 69 | 4 | 114 | 20 | 177 | 65 | 2 | 264 | 933 |
| % App. Total | 48.8 | 11 | 37.8 | 2.5 | | 16.9 | 80.9 | 1.8 | 0.4 | | 12.3 | 23.7 | 60.5 | 3.5 | | 7.6 | 67 | 24.6 | 0.8 | | |
| PHF | .575 | .287 | .637 | .194 | .655 | .426 | .495 | .208 | .083 | .581 | .389 | .281 | .523 | .167 | .594 | .333 | .509 | .361 | .167 | .629 | .653 |



719-633-2868

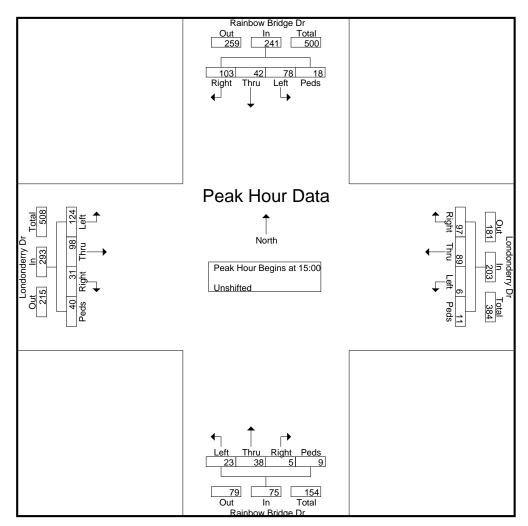
File Name : Rainbow Bridge Dr - Londonderry Dr PM Site Code : S234410 Start Date : 12/5/2023 Page No : 1

| | | | | | | | | G | roups | Printe | d- Uns | shifte | d | | | | | | | | _ |
|-------------|-------|------|-------|---------|------------|-------|------|-------|--------|------------|--------|--------|--------|---------|------------|-------|------|-------|---------|------------|----------|
| | I | | | ridge D | Dr | | | | rry Dr | | l | | | ridge I | Dr | | | | erry Dr | • |] |
| | | | uthbo | | | | | estbo | | | | | orthbo | | | | | astbo | | | |
| Start Time | Right | Thru | Left | | App. Total | Right | Thru | Left | | App. Total | Right | Thru | Left | | App. Total | Right | Thru | Left | Peds | App. Total | Int. Tot |
| 15:00 | 7 | 0 | 2 | 0 | 9 | 3 | 11 | 2 | 3 | 19 | 1 | 1 | 3 | 3 | 8 | 0 | 7 | 6 | 0 | 13 | 4 |
| 15:05 | 5 | 2 | 2 | 6 | 15 | 7 | 9 | 1 | 3 | 20 | 0 | 2 | 3 | 0 | 5 | 4 | 9 | 9 | 0 | 22 | 6 |
| 15:10 | 5 | 0 | 5 | 3 | 13 | 10 | 9 | 0 | 0 | 19 | 1 | 3 | 2 | 0 | 6 | 2 | 10 | 16 | 0 | 28 | 6 |
| 15:15 | 3 | 2 | 4 | 1 | 10 | 8 | 8 | 0 | 0 | 16 | 1 | 5 | 0 | 0 | 6 | 3 | 9 | 18 | 0 | 30 | 6 |
| 15:20 | 7 | 2 | 3 | 0 | 12 | 7 | 11 | 2 | 1 | 21 | 1 | 2 | 2 | 0 | 5 | 1 | 12 | 8 | 0 | 21 | 5 |
| 15:25 | 2 | 1 | 7 | 1 | 11 | 11 | 8 | 1 | 0 | 20 | 0 | 2 | 1 | 0 | 3 | 3 | 8 | 17 | 0 | 28 | 6 |
| 15:30 | 5 | 4 | 0 | 2 | 11 | 15 | 5 | 0 | 1 | 21 | 0 | 7 | 3 | 0 | 10 | 1 | 9 | 15 | 0 | 25 | 6 |
| 15:35 | 3 | 0 | 1 | 0 | 4 | 7 | 5 | 0 | 1 | 13 | 0 | 3 | 1 | 0 | 4 | 3 | 9 | 10 | 0 | 22 | 4 |
| 15:40 | 13 | 4 | 11 | 2 | 30 | 6 | 5 | 0 | 0 | 11 | 0 | 5 | 6 | 1 | 12 | 7 | 5 | 5 | 12 | 29 | 8 |
| 15:45 | 17 | 11 | 15 | 3 | 46 | 12 | 5 | 0 | 2 | 19 | 0 | 4 | 0 | 4 | 8 | 3 | 8 | 7 | 27 | 45 | 11 |
| 15:50 | 28 | 14 | 20 | 0 | 62 | 6 | 4 | 0 | 0 | 10 | 0 | 2 | 2 | 0 | 4 | 3 | 6 | 7 | 0 | 16 | 9 |
| 15:55 | 8 | 2 | 8 | 0 | 18 | 5 | 9 | 0 | 0 | 14 | 1 | 2 | 0 | 1 | 4 | 1 | 6 | 6 | 1 | 14 | 5 |
| Total | 103 | 42 | 78 | 18 | 241 | 97 | 89 | 6 | 11 | 203 | 5 | 38 | 23 | 9 | 75 | 31 | 98 | 124 | 40 | 293 | 81 |
| 16:00 | 6 | 3 | 5 | 0 | 14 | 6 | 7 | 1 | 1 | 15 | 0 | 3 | 2 | 0 | 5 | 0 | 7 | 4 | 2 | 13 | 4 |
| 16:05 | 7 | 2 | 3 | 0 | 12 | 4 | 6 | 0 | 0 | 10 | 1 | 2 | 3 | 0 | 6 | 0 | 8 | 4 | 1 | 13 | 4 |
| 16:10 | 5 | 1 | 1 | 4 | 11 | 2 | 8 | 0 | 2 | 12 | 1 | 1 | 3 | 0 | 5 | 4 | 11 | 5 | 3 | 23 | 5 |
| 16:15 | 5 | 1 | 1 | 0 | 7 | 8 | 6 | 1 | 0 | 15 | 0 | 4 | 0 | 1 | 5 | 1 | 6 | 8 | 0 | 15 | 4 |
| 16:20 | 8 | 2 | 3 | 0 | 13 | 3 | 4 | 1 | 0 | 8 | 1 | 3 | 2 | 0 | 6 | 2 | 9 | 8 | 0 | 19 | 4 |
| 16:25 | 7 | 1 | 3 | 0 | 11 | 3 | 8 | 1 | 0 | 12 | 1 | 4 | 0 | 0 | 5 | 3 | 3 | 6 | 0 | 12 | 4 |
| 16:30 | 3 | 1 | 3 | 0 | 7 | 4 | 4 | 2 | 0 | 10 | 0 | 2 | 5 | 0 | 7 | 2 | 8 | 8 | 0 | 18 | 4 |
| 16:35 | 3 | 0 | 4 | 0 | 7 | 11 | 6 | 0 | 0 | 17 | 0 | 1 | 3 | 0 | 4 | 3 | 6 | 14 | 0 | 23 | 5 |
| 16:40 | 2 | 0 | 4 | 0 | 6 | 7 | 5 | 0 | 2 | 14 | 1 | 4 | 2 | 0 | 7 | 4 | 10 | 7 | 0 | 21 | 4 |
| 16:45 | 12 | 6 | 7 | 0 | 25 | 10 | 8 | 0 | 1 | 19 | 1 | 3 | 2 | 0 | 6 | 4 | 5 | 3 | 0 | 12 | 6 |
| 16:50 | 4 | 0 | 2 | 6 | 12 | 4 | 19 | 0 | 0 | 23 | 0 | 3 | 4 | 0 | 7 | 3 | 6 | 9 | 0 | 18 | 6 |
| 16:55 | 3 | 2 | 3 | 5 | 13 | 9 | 7 | 0 | 0 | 16 | 0 | 1 | 0 | 0 | 1 | 2 | 11 | 14 | 0 | 27 | 5 |
| Total | 65 | 19 | 39 | 15 | 138 | 71 | 88 | 6 | 6 | 171 | 6 | 31 | 26 | 1 | 64 | 28 | 90 | 90 | 6 | 214 | 58 |
| 17:00 | 10 | 1 | 0 | 0 | 11 | 7 | 8 | 0 | 0 | 15 | 0 | 3 | 2 | 0 | 5 | 5 | 10 | 5 | 0 | 20 | 5 |
| 17:05 | 3 | 0 | 2 | 2 | 7 | 3 | 11 | 1 | 0 | 15 | 0 | 2 | 3 | 0 | 5 | 2 | 10 | 9 | 0 | 21 | 4 |
| 17:10 | 8 | 4 | 6 | 1 | 19 | 6 | 11 | 1 | 0 | 18 | 0 | 0 | 2 | 0 | 2 | 2 | 6 | 4 | 0 | 12 | 5 |
| 17:15 | 5 | 3 | 2 | 0 | 10 | 7 | 6 | 0 | 0 | 13 | 0 | 1 | 0 | 0 | 1 | 4 | 6 | 2 | 0 | 12 | 3 |
| 17:20 | 4 | 0 | 2 | 0 | 6 | 5 | 10 | 0 | 0 | 15 | 1 | 1 | 0 | 0 | 2 | 5 | 4 | 10 | 0 | 19 | 4 |
| 17:25 | 6 | 1 | 0 | 0 | 7 | 4 | 6 | 0 | 0 | 10 | 0 | 4 | 2 | 0 | 6 | 4 | 5 | 2 | 0 | 11 | 3 |
| 17:30 | 7 | 2 | 1 | 0 | 10 | 3 | 5 | 1 | 0 | 9 | 0 | 2 | 3 | 0 | 5 | 5 | 3 | 10 | 0 | 18 | 4 |
| 17:35 | 3 | 0 | 3 | 0 | 6 | 5 | 6 | 0 | 0 | 11 | 0 | 1 | 3 | 0 | 4 | 5 | 6 | 6 | 0 | 17 | 3 |
| 17:40 | 3 | 1 | 2 | 0 | 6 | 5 | 8 | 0 | 0 | 13 | 0 | 2 | 2 | 0 | 4 | 5 | 5 | 10 | 0 | 20 | 4 |
| Grand Total | 217 | 73 | 135 | 36 | 461 | 213 | 248 | 15 | 17 | 493 | 12 | 85 | 66 | 10 | 173 | 96 | 243 | 272 | 46 | 657 | 178 |
| Apprch % | 47.1 | 15.8 | 29.3 | 7.8 | | 43.2 | 50.3 | 3 | 3.4 | | 6.9 | 49.1 | 38.2 | 5.8 | | 14.6 | 37 | 41.4 | 7 | | |
| Total % | 12.2 | 4.1 | 7.6 | 2 | 25.8 | 11.9 | 13.9 | 0.8 | 1 | 27.6 | 0.7 | 4.8 | 3.7 | 0.6 | 9.7 | 5.4 | 13.6 | 15.2 | 2.6 | 36.8 | |

719-633-2868

File Name : Rainbow Bridge Dr - Londonderry Dr PM Site Code : S234410 Start Date : 12/5/2023 Page No : 2

| | F | Rainb | ow Br | idge D |)r | | Lond | donde | rry Dr | | | Rainb | ow Br | idge [| Dr | | Lone | donde | rry Dr | | |
|--------------|---------|----------|---------|---------|------------|--------|------|-------|--------|------------|-------|-------|-------|--------|------------|-------|------|-------|--------|------------|------------|
| | | So | uthbo | und | | | W | estbo | und | | | No | rthbo | und | | | Ea | astbo | und | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour A | Analys | is Fro | m 15:0 |)0 to 1 | 7:40 - F | Peak 1 | of 1 | | | | | | | | | | | | | | |
| Peak Hour f | or Enti | ire Inte | ersecti | ion Beg | gins at | 15:00 | | | | | | | | | | | | | | | |
| 15:00 | 7 | 0 | 2 | 0 | 9 | 3 | 11 | 2 | 3 | 19 | 1 | 1 | 3 | 3 | 8 | 0 | 7 | 6 | 0 | 13 | 49 |
| 15:05 | 5 | 2 | 2 | 6 | 15 | 7 | 9 | 1 | 3 | 20 | 0 | 2 | 3 | 0 | 5 | 4 | 9 | 9 | 0 | 22 | 62 |
| 15:10 | 5 | 0 | 5 | 3 | 13 | 10 | 9 | 0 | 0 | 19 | 1 | 3 | 2 | 0 | 6 | 2 | 10 | 16 | 0 | 28 | 66 |
| 15:15 | 3 | 2 | 4 | 1 | 10 | 8 | 8 | 0 | 0 | 16 | 1 | 5 | 0 | 0 | 6 | 3 | 9 | 18 | 0 | 30 | 62 |
| 15:20 | 7 | 2 | 3 | 0 | 12 | 7 | 11 | 2 | 1 | 21 | 1 | 2 | 2 | 0 | 5 | 1 | 12 | 8 | 0 | 21 | 59 |
| 15:25 | 2 | 1 | 7 | 1 | 11 | 11 | 8 | 1 | 0 | 20 | 0 | 2 | 1 | 0 | 3 | 3 | 8 | 17 | 0 | 28 | 62 |
| 15:30 | 5 | 4 | 0 | 2 | 11 | 15 | 5 | 0 | 1 | 21 | 0 | 7 | 3 | 0 | 10 | 1 | 9 | 15 | 0 | 25 | 67 |
| 15:35 | 3 | 0 | 1 | 0 | 4 | 7 | 5 | 0 | 1 | 13 | 0 | 3 | 1 | 0 | 4 | 3 | 9 | 10 | 0 | 22 | 43 |
| 15:40 | 13 | 4 | 11 | 2 | 30 | 6 | 5 | 0 | 0 | 11 | 0 | 5 | 6 | 1 | 12 | 7 | 5 | 5 | 12 | 29 | 82 |
| 15:45 | 17 | 11 | 15 | 3 | 46 | 12 | 5 | 0 | 2 | 19 | 0 | 4 | 0 | 4 | 8 | 3 | 8 | 7 | 27 | 45 | 118 |
| 15:50 | 28 | 14 | 20 | 0 | 62 | 6 | 4 | 0 | 0 | 10 | 0 | 2 | 2 | 0 | 4 | 3 | 6 | 7 | 0 | 16 | 92 |
| 15:55 | 8 | 2 | 8 | 0 | 18 | 5 | 9 | 0 | 0 | 14 | 1 | 2 | 0 | 1 | 4 | 1 | 6 | 6 | 1 | 14 | 50 |
| Total Volume | 103 | 42 | 78 | 18 | 241 | 97 | 89 | 6 | 11 | 203 | 5 | 38 | 23 | 9 | 75 | 31 | 98 | 124 | 40 | 293 | 812 |
| % App. Total | 42.7 | 17.4 | 32.4 | 7.5 | | 47.8 | 43.8 | 3 | 5.4 | | 6.7 | 50.7 | 30.7 | 12 | | 10.6 | 33.4 | 42.3 | 13.7 | | |
| PHF | .307 | .250 | .325 | .250 | .324 | .539 | .674 | .250 | .306 | .806 | .417 | .452 | .319 | .188 | .521 | .369 | .681 | .574 | .123 | .543 | .573 |



719-633-2868

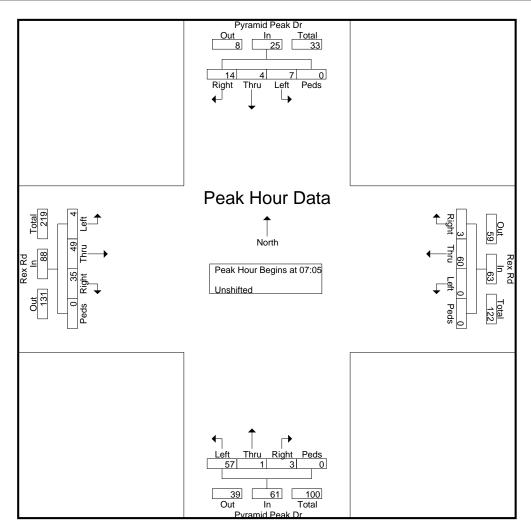
File Name : Pyramid Peak Dr - Rex Rd AM Site Code : S234410 Start Date : 12/7/2023 Page No : 1

| | | | | | | | | G | roups | Printe | d- Uns | | | | | | | | | | |
|-------------|-------|------|-------|--------|------------|-------|------|-------|-------|------------|--------|------|-------|--------|------------|-------|------|-------|------|------------|------------|
| | | | | eak Di | • | | | Rex R | | | | | | eak Di | r | | | Rex R | | | |
| | | | uthbo | | | | | estbo | | | | | rthbo | | | | | astbo | | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:45 | 3 | 1 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 6 | 0 | 6 | 2 | 5 | 0 | 0 | 7 | 20 |
| 06:50 | 4 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 0 | 3 | 14 |
| 06:55 | 1 | 0 | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 9 | 0 | 9 | 0 | 3 | 2 | 1 | 6 | 24 |
| Total | 8 | 1 | 0 | 0 | 9 | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 18 | 0 | 18 | 2 | 11 | 2 | 1 | 16 | 58 |
| 07:00 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 1 | 7 | 0 | 0 | 8 | 14 |
| 07:05 | 3 | 1 | 0 | 0 | 4 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 4 | 0 | 4 | 1 | 1 | 0 | 0 | 2 | 19 |
| 07:10 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 8 | 1 | 5 | 0 | 0 | 6 | 18 |
| 07:15 | 3 | 0 | 2 | 0 | 5 | 0 | 3 | 0 | 0 | 3 | 2 | 0 | 3 | 0 | 5 | 1 | 6 | 0 | 0 | 7 | 20 |
| 07:20 | 0 | 1 | 0 | 0 | 1 | 0 | 11 | 0 | 0 | 11 | 0 | 1 | 5 | 0 | 6 | 1 | 1 | 0 | 0 | 2 | 20 |
| 07:25 | 2 | 0 | 0 | 0 | 2 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 7 | 0 | 7 | 1 | 5 | 1 | 0 | 7 | 25 |
| 07:30 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 5 | 0 | 5 | 4 | 8 | 1 | 0 | 13 | 23 |
| 07:35 | 1 | 0 | 1 | 0 | 2 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 7 | 0 | 7 | 2 | 1 | 0 | 0 | 3 | 20 |
| 07:40 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 4 | 0 | 4 | 5 | 2 | 0 | 0 | 7 | 17 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 6 | 0 | 6 | 3 | 4 | 0 | 0 | 7 | 17 |
| 07:50 | 1 | 1 | 1 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 4 | 8 | 0 | 0 | 12 | 18 |
| 07:55 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 4 | 0 | 4 | 5 | 5 | 1 | 0 | 11 | 22 |
| Total | 13 | 3 | 7 | 0 | 23 | 3 | 60 | 0 | 0 | 63 | 2 | 1 | 59 | 0 | 62 | 29 | 53 | 3 | 0 | 85 | 233 |
| 08:00 | 3 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 3 | 7 | 3 | 1 | 0 | 11 | 18 |
| 08:05 | 1 | 1 | 0 | 0 | 2 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 3 | 0 | 3 | 1 | 4 | 0 | 0 | 5 | 15 |
| 08:10 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 2 | 5 | 3 | 0 | 0 | 8 | 14 |
| 08:15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 3 | 1 | 3 | 0 | 0 | 4 | 8 |
| 08:20 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 5 | 0 | 0 | 10 | 0 | 10 | 4 | 4 | 0 | 0 | 8 | 23 |
| 08:25 | 1 | 1 | 0 | 0 | 2 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 4 | 0 | 4 | 1 | 3 | 1 | 0 | 5 | 16 |
| 08:30 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 7 | 0 | 8 | 2 | 1 | 0 | 0 | 3 | 13 |
| 08:35 | 1 | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 3 | 0 | 5 | 0 | 3 | 0 | 0 | 3 | 12 |
| 08:40 | 1 | 1 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 3 | 0 | 1 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 5 | 12 |
| Grand Total | 29 | 9 | 7 | 0 | 45 | 4 | 98 | 1 | 1 | 104 | 4 | 5 | 111 | 0 | 120 | 54 | 90 | 8 | 1 | 153 | 422 |
| Apprch % | 64.4 | 20 | 15.6 | 0 | | 3.8 | 94.2 | 1 | 1 | | 3.3 | 4.2 | 92.5 | 0 | | 35.3 | 58.8 | 5.2 | 0.7 | | |
| Total % | 6.9 | 2.1 | 1.7 | 0 | 10.7 | 0.9 | 23.2 | 0.2 | 0.2 | 24.6 | 0.9 | 1.2 | 26.3 | 0 | 28.4 | 12.8 | 21.3 | 1.9 | 0.2 | 36.3 | |

719-633-2868

File Name : Pyramid Peak Dr - Rex Rd AM Site Code : S234410 Start Date : 12/7/2023 Page No : 2

| | | Pyra | mid P | eak Dr | • | | | Rex R | d | | | Pyra | mid P | eak Di | • | | | Rex R | d | | |
|--------------|---------|----------|---------|---------|------------|--------|------|-------|------|------------|-------|------|--------|--------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | W | estbo | und | | | No | orthbo | und | | | Ea | astbou | und | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour A | Analys | is Froi | m 06:4 | 15 to 0 | 8:40 - F | Peak 1 | of 1 | | | | | | | | | | | | | | |
| Peak Hour f | or Enti | ire Inte | ersecti | ion Beg | gins at | 07:05 | | | | | | | | | | | | | | | |
| 07:05 | 3 | 1 | 0 | 0 | 4 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 4 | 0 | 4 | 1 | 1 | 0 | 0 | 2 | 19 |
| 07:10 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 8 | 1 | 5 | 0 | 0 | 6 | 18 |
| 07:15 | 3 | 0 | 2 | 0 | 5 | 0 | 3 | 0 | 0 | 3 | 2 | 0 | 3 | 0 | 5 | 1 | 6 | 0 | 0 | 7 | 20 |
| 07:20 | 0 | 1 | 0 | 0 | 1 | 0 | 11 | 0 | 0 | 11 | 0 | 1 | 5 | 0 | 6 | 1 | 1 | 0 | 0 | 2 | 20 |
| 07:25 | 2 | 0 | 0 | 0 | 2 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 7 | 0 | 7 | 1 | 5 | 1 | 0 | 7 | 25 |
| 07:30 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 5 | 0 | 5 | 4 | 8 | 1 | 0 | 13 | 23 |
| 07:35 | 1 | 0 | 1 | 0 | 2 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 7 | 0 | 7 | 2 | 1 | 0 | 0 | 3 | 20 |
| 07:40 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 4 | 0 | 4 | 5 | 2 | 0 | 0 | 7 | 17 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 6 | 0 | 6 | 3 | 4 | 0 | 0 | 7 | 17 |
| 07:50 | 1 | 1 | 1 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 4 | 8 | 0 | 0 | 12 | 18 |
| 07:55 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 4 | 0 | 4 | 5 | 5 | 1 | 0 | 11 | 22 |
| 08:00 | 3 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 3 | 7 | 3 | 1 | 0 | 11 | 18 |
| Total Volume | 14 | 4 | 7 | 0 | 25 | 3 | 60 | 0 | 0 | 63 | 3 | 1 | 57 | 0 | 61 | 35 | 49 | 4 | 0 | 88 | 237 |
| % App. Total | 56 | 16 | 28 | 0 | | 4.8 | 95.2 | 0 | 0 | | 4.9 | 1.6 | 93.4 | 0 | | 39.8 | 55.7 | 4.5 | 0 | | |
| PHF | .389 | .333 | .292 | .000 | .417 | .250 | .455 | .000 | .000 | .477 | .125 | .083 | .594 | .000 | .635 | .417 | .510 | .333 | .000 | .564 | .790 |



719-633-2868

File Name : Pyramid Peak Dr - Rex Rd PM Site Code : S234410 Start Date : 12/6/2023 Page No : 1

| | | | | | | | | G | roups | Printe | d- Uns | | | | | | | | | | |
|-------------|-------|------|-------|--------|------------|-------|------|-------|-------|------------|--------|------|-------|-------|------------|-------|------|-------|------|------------|------------|
| | | | | eak Dr | • | | | Rex R | | | | | | eak D | r | | | Rex F | | | |
| | | So | uthbo | | | | | estbo | | | | No | rthbo | und | | | Ea | astbo | und | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 15:00 | 1 | 1 | 1 | 0 | 3 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 2 | 8 | 16 |
| 15:05 | 2 | 0 | 0 | 0 | 2 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 3 | 1 | 1 | 0 | 5 | 14 |
| 15:10 | 2 | 1 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 2 | 3 | 2 | 0 | 0 | 5 | 13 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 3 | 7 |
| 15:20 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 5 | 4 | 1 | 0 | 10 | 15 |
| 15:25 | 0 | 1 | 1 | 0 | 2 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 2 | 1 | 3 | 6 | 5 | 0 | 0 | 11 | 24 |
| 15:30 | 1 | 0 | 0 | 0 | 1 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 4 | 0 | 4 | 12 | 4 | 2 | 0 | 18 | 29 |
| 15:35 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 3 | 1 | 4 | 9 | 2 | 0 | 0 | 11 | 19 |
| 15:40 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 1 | 1 | 0 | 2 | 12 | 4 | 2 | 0 | 18 | 24 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 3 | 0 | 4 | 5 | 6 | 1 | 0 | 12 | 17 |
| 15:50 | 0 | 1 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 8 | 0 | 8 | 2 | 5 | 0 | 0 | 7 | 22 |
| 15:55 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 2 | 0 | 3 | 7 | 2 | 0 | 0 | 9 | 14 |
| Total | 6 | 5 | 3 | 0 | 14 | 2 | 42 | 5 | 0 | 49 | 1 | 2 | 29 | 2 | 34 | 67 | 40 | 8 | 2 | 117 | 214 |
| 16:00 | 1 | 0 | 0 | 0 | 1 | 0 | 7 | 0 | 0 | 7 | 1 | 0 | 2 | 0 | 3 | 6 | 4 | 1 | 0 | 11 | 22 |
| 16:05 | 0 | 3 | 2 | 0 | 5 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 1 | 3 | 4 | 0 | 0 | 7 | 18 |
| 16:10 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 1 | 1 | 0 | 2 | 3 | 5 | 0 | 0 | 8 | 14 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 7 | 5 | 2 | 0 | 14 | 21 |
| 16:20 | 1 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 3 | 3 | 3 | 1 | 0 | 7 | 15 |
| 16:25 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 4 | 3 | 3 | 0 | 10 | 17 |
| 16:30 | 2 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 3 | 3 | 1 | 0 | 7 | 15 |
| 16:35 | 1 | 0 | 0 | 0 | 1 | 0 | 4 | 3 | 0 | 7 | 1 | 0 | 2 | 0 | 3 | 2 | 4 | 2 | 0 | 8 | 19 |
| 16:40 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 5 | 2 | 3 | 2 | 0 | 7 | 17 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 4 | 8 | 2 | 0 | 14 | 18 |
| 16:50 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 4 | 0 | 1 | 2 | 1 | 4 | 5 | 6 | 0 | 0 | 11 | 19 |
| 16:55 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 4 | 6 | 4 | 1 | 0 | 11 | 16 |
| Total | 5 | 4 | 2 | 0 | 11 | 4 | 44 | 3 | 0 | 51 | 3 | 3 | 26 | 2 | 34 | 48 | 52 | 15 | 0 | 115 | 211 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 3 | 3 | 1 | 0 | 7 | 11 |
| 17:05 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 4 | 5 | 0 | 0 | 9 | 14 |
| 17:10 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 1 | 0 | 4 | 9 |
| 17:15 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 8 | 5 | 2 | 0 | 15 | 18 |
| 17:20 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 3 | 4 | 4 | 2 | 0 | 10 | 14 |
| 17:25 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 4 | 0 | 4 | 7 | 2 | 0 | 0 | 9 | 18 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 4 | 0 | 4 | 3 | 8 | 2 | 0 | 13 | 23 |
| 17:35 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 4 | 0 | 5 | 8 | 6 | 1 | 0 | 15 | 26 |
| 17:40 | 1 | 0 | 0 | 0 | 1 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 5 | 0 | 5 | 5 | 3 | 1 | 0 | 9 | 21 |
| Grand Total | 13 | 11 | 6 | 0 | 30 | 7 | 114 | 9 | 0 | 130 | 4 | 6 | 82 | 4 | 96 | 157 | 131 | 33 | 2 | 323 | 579 |
| Apprch % | 43.3 | 36.7 | 20 | 0 | | 5.4 | 87.7 | 6.9 | 0 | | 4.2 | 6.2 | 85.4 | 4.2 | | 48.6 | 40.6 | 10.2 | 0.6 | | |
| Total % | 2.2 | 1.9 | 1 | 0 | 5.2 | 1.2 | 19.7 | 1.6 | 0 | 22.5 | 0.7 | 1 | 14.2 | 0.7 | 16.6 | 27.1 | 22.6 | 5.7 | 0.3 | 55.8 | |



Intersection Delay, s/veh Intersection LOS

```
/veh 17.6
C
```

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ۳. | f) | | ኘ | eî 👘 | | | 4 | | ٦. | 4î | |
| Traffic Vol, veh/h | 65 | 177 | 20 | 5 | 220 | 46 | 69 | 27 | 14 | 107 | 31 | 138 |
| Future Vol, veh/h | 65 | 177 | 20 | 5 | 220 | 46 | 69 | 27 | 14 | 107 | 31 | 138 |
| Peak Hour Factor | 0.74 | 0.74 | 0.74 | 0.71 | 0.71 | 0.71 | 0.83 | 0.83 | 0.83 | 0.76 | 0.76 | 0.76 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 88 | 239 | 27 | 7 | 310 | 65 | 83 | 33 | 17 | 141 | 41 | 182 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 15.6 | | | 24.2 | | | 14.2 | | | 14 | | |
| HCM LOS | С | | | С | | | В | | | В | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 63% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 25% | 0% | 90% | 0% | 83% | 0% | 18% |
| Vol Right, % | 13% | 0% | 10% | 0% | 17% | 0% | 82% |
| Sign Control | Stop |
| Traffic Vol by Lane | 110 | 65 | 197 | 5 | 266 | 107 | 169 |
| LT Vol | 69 | 65 | 0 | 5 | 0 | 107 | 0 |
| Through Vol | 27 | 0 | 177 | 0 | 220 | 0 | 31 |
| RT Vol | 14 | 0 | 20 | 0 | 46 | 0 | 138 |
| Lane Flow Rate | 133 | 88 | 266 | 7 | 375 | 141 | 222 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.29 | 0.184 | 0.513 | 0.015 | 0.708 | 0.303 | 0.411 |
| Departure Headway (Hd) | 7.875 | 7.521 | 6.936 | 7.442 | 6.806 | 7.752 | 6.656 |
| Convergence, Y/N | Yes |
| Сар | 456 | 477 | 519 | 481 | 532 | 463 | 540 |
| Service Time | 5.941 | 5.271 | 4.685 | 5.189 | 4.553 | 5.504 | 4.408 |
| HCM Lane V/C Ratio | 0.292 | 0.184 | 0.513 | 0.015 | 0.705 | 0.305 | 0.411 |
| HCM Control Delay | 14.2 | 12 | 16.8 | 10.3 | 24.5 | 13.9 | 14 |
| HCM Lane LOS | В | В | С | В | С | В | В |
| HCM 95th-tile Q | 1.2 | 0.7 | 2.9 | 0 | 5.6 | 1.3 | 2 |

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | 4 | | | 4 | | | 4 | | | 4 | |
| Traffic Vol, veh/h | 4 | 49 | 35 | 0 | 60 | 3 | 57 | 1 | 3 | 7 | 4 | 14 |
| Future Vol, veh/h | 4 | 49 | 35 | 0 | 60 | 3 | 57 | 1 | 3 | 7 | 4 | 14 |
| 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 | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, | # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 66 | 66 | 66 | 85 | 85 | 85 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 5 | 63 | 45 | 0 | 91 | 5 | 67 | 1 | 4 | 9 | 5 | 18 |

| Major/Minor | Major1 | | I | Major2 | | | Minor1 | | | Minor2 | | | |
|----------------------|--------|------|------|--------|-----|------|--------|-------|-------|--------|-------|-------|--|
| Conflicting Flow All | 96 | 0 | 0 | 108 | 0 | 0 | 201 | 192 | 86 | 192 | 212 | 94 | |
| Stage 1 | - | - | - | - | - | - | 96 | 96 | - | 94 | 94 | - | |
| Stage 2 | - | - | - | - | - | - | 105 | 96 | - | 98 | 118 | - | |
| 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 | 1498 | - | - | 1483 | - | - | 757 | 703 | 973 | 768 | 685 | 963 | |
| Stage 1 | - | - | - | - | - | - | 911 | 815 | - | 913 | 817 | - | |
| Stage 2 | - | - | - | - | - | - | 901 | 815 | - | 908 | 798 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1498 | - | - | 1483 | - | - | 737 | 700 | 973 | 762 | 682 | 963 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 737 | 700 | - | 762 | 682 | - | |
| Stage 1 | - | - | - | - | - | - | 907 | 812 | - | 000 | 817 | - | |
| Stage 2 | - | - | - | - | - | - | 879 | 815 | - | 900 | 795 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0.3 | | | 0 | | | 10.3 | | | 9.4 | | | |
| HCM LOS | | | | | | | В | | | А | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt N | BLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | | 745 | 1498 | - | - | 1483 | - | - | 845 | | | | |

| | 745 | 1430 | - | - | 1405 | - | - | 040 |
|-----------------------|-------|-------|---|---|------|---|---|-------|
| HCM Lane V/C Ratio | 0.096 | 0.003 | - | - | - | - | - | 0.038 |
| HCM Control Delay (s) | 10.3 | 7.4 | 0 | - | 0 | - | - | 9.4 |
| HCM Lane LOS | В | А | А | - | А | - | - | А |
| HCM 95th %tile Q(veh) | 0.3 | 0 | - | - | 0 | - | - | 0.1 |

Intersection Delay, s/veh Intersection LOS

veh 13.1 B

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ሻ | f) | | ሻ | eî 👘 | | | 4 | | ٦. | 4Î | |
| Traffic Vol, veh/h | 124 | 98 | 31 | 6 | 89 | 97 | 23 | 38 | 5 | 78 | 42 | 103 |
| Future Vol, veh/h | 124 | 98 | 31 | 6 | 89 | 97 | 23 | 38 | 5 | 78 | 42 | 103 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.83 | 0.83 | 0.83 | 0.78 | 0.78 | 0.78 | 0.45 | 0.45 | 0.45 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 143 | 113 | 36 | 7 | 107 | 117 | 29 | 49 | 6 | 173 | 93 | 229 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 12.1 | | | 13.1 | | | 11.5 | | | 14 | | |
| HCM LOS | В | | | В | | | В | | | В | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 35% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 58% | 0% | 76% | 0% | 48% | 0% | 29% |
| Vol Right, % | 8% | 0% | 24% | 0% | 52% | 0% | 71% |
| Sign Control | Stop |
| Traffic Vol by Lane | 66 | 124 | 129 | 6 | 186 | 78 | 145 |
| LT Vol | 23 | 124 | 0 | 6 | 0 | 78 | 0 |
| Through Vol | 38 | 0 | 98 | 0 | 89 | 0 | 42 |
| RT Vol | 5 | 0 | 31 | 0 | 97 | 0 | 103 |
| Lane Flow Rate | 85 | 143 | 148 | 7 | 224 | 173 | 322 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.164 | 0.281 | 0.265 | 0.015 | 0.395 | 0.327 | 0.517 |
| Departure Headway (Hd) | 6.994 | 7.108 | 6.427 | 7.222 | 6.339 | 6.783 | 5.773 |
| Convergence, Y/N | Yes |
| Сар | 509 | 503 | 556 | 494 | 565 | 529 | 622 |
| Service Time | 5.084 | 4.879 | 4.197 | 4.994 | 4.111 | 4.545 | 3.535 |
| HCM Lane V/C Ratio | 0.167 | 0.284 | 0.266 | 0.014 | 0.396 | 0.327 | 0.518 |
| HCM Control Delay | 11.5 | 12.7 | 11.5 | 10.1 | 13.2 | 12.8 | 14.6 |
| HCM Lane LOS | В | В | В | В | В | В | В |
| HCM 95th-tile Q | 0.6 | 1.1 | 1.1 | 0 | 1.9 | 1.4 | 3 |

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
|------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|--|
| Lane Configurations | | 4 | | | 4 | | | 4 | | | 4 | | |
| Traffic Vol, veh/h | 8 | 40 | 67 | 5 | 42 | 2 | 29 | 2 | 1 | 3 | 5 | 6 | |
| Future Vol, veh/h | 8 | 40 | 67 | 5 | 42 | 2 | 29 | 2 | 1 | 3 | 5 | 6 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None | |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - | |
| Veh in Median Storage, | , # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 61 | 61 | 61 | 94 | 94 | 94 | 78 | 78 | 78 | 78 | 78 | 78 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 13 | 66 | 110 | 5 | 45 | 2 | 37 | 3 | 1 | 4 | 6 | 8 | |

| Major/Minor | Major1 | | Ν | Major2 | | | Minor1 | | | Minor2 | | | |
|----------------------|--------|------|-------|--------|-----|-------|--------|-------|-------|--------|-------|-------|--|
| Conflicting Flow All | 47 | 0 | 0 | 176 | 0 | 0 | 210 | 204 | 121 | 205 | 258 | 46 | |
| Stage 1 | - | - | - | - | - | - | 147 | 147 | - | 56 | 56 | - | |
| Stage 2 | - | - | - | - | - | - | 63 | 57 | - | 149 | 202 | - | |
| 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 | 1560 | - | - | 1400 | - | - | 747 | 692 | 930 | 753 | 646 | 1023 | |
| Stage 1 | - | - | - | - | - | - | 856 | 775 | - | 956 | 848 | - | |
| Stage 2 | - | - | - | - | - | - | 948 | 847 | - | 854 | 734 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1560 | - | - | 1400 | - | - | 728 | 683 | 930 | 742 | 638 | 1023 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 728 | 683 | - | 742 | 638 | - | |
| Stage 1 | - | - | - | - | - | - | 848 | 768 | - | 947 | 845 | - | |
| Stage 2 | - | - | - | - | - | - | 930 | 844 | - | 842 | 727 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0.5 | | | 0.8 | | | 10.2 | | | 9.7 | | | |
| HCM LOS | | | | | | | В | | | А | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt NE | BLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | | 730 | 1560 | - | - | 1400 | - | - | 789 | | | | |
| HCM Lane V/C Ratio | 0 | 056 | 0.008 | - | - | 0 004 | - | | 0.023 | | | | |

| HOW Lane V/C Ratio | 0.050 | 0.000 | - | - 0.0 | 004 | - | - | 0.023 |
|-----------------------|-------|-------|---|-------|-----|---|---|-------|
| HCM Control Delay (s) | 10.2 | 7.3 | 0 | - | 7.6 | 0 | - | 9.7 |
| HCM Lane LOS | В | А | А | - | А | А | - | А |
| HCM 95th %tile Q(veh) | 0.2 | 0 | - | - | 0 | - | - | 0.1 |

Intersection Delay, s/veh Intersection LOS

```
veh 9.7
A
```

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ٦ | ¢Î | | ٦ | ef 👘 | | | \$ | | ۳. | ef 🕺 | |
| Traffic Vol, veh/h | 96 | 95 | 35 | 6 | 94 | 71 | 26 | 31 | 5 | 33 | 15 | 65 |
| Future Vol, veh/h | 96 | 95 | 35 | 6 | 94 | 71 | 26 | 31 | 5 | 33 | 15 | 65 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.81 | 0.81 | 0.81 | 0.78 | 0.78 | 0.78 | 0.76 | 0.76 | 0.76 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 110 | 109 | 40 | 7 | 116 | 88 | 33 | 40 | 6 | 43 | 20 | 86 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 9.7 | | | 10 | | | 9.9 | | | 9.2 | | |
| HCM LOS | А | | | А | | | А | | | А | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 42% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 50% | 0% | 73% | 0% | 57% | 0% | 19% |
| Vol Right, % | 8% | 0% | 27% | 0% | 43% | 0% | 81% |
| Sign Control | Stop |
| Traffic Vol by Lane | 62 | 96 | 130 | 6 | 165 | 33 | 80 |
| LT Vol | 26 | 96 | 0 | 6 | 0 | 33 | 0 |
| Through Vol | 31 | 0 | 95 | 0 | 94 | 0 | 15 |
| RT Vol | 5 | 0 | 35 | 0 | 71 | 0 | 65 |
| Lane Flow Rate | 79 | 110 | 149 | 7 | 204 | 43 | 105 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.131 | 0.18 | 0.215 | 0.012 | 0.291 | 0.076 | 0.153 |
| Departure Headway (Hd) | 5.942 | 5.877 | 5.183 | 5.951 | 5.143 | 6.307 | 5.23 |
| Convergence, Y/N | Yes |
| Сар | 598 | 607 | 687 | 598 | 693 | 564 | 679 |
| Service Time | 4.036 | 3.649 | 2.955 | 3.726 | 2.917 | 4.092 | 3.013 |
| HCM Lane V/C Ratio | 0.132 | 0.181 | 0.217 | 0.012 | 0.294 | 0.076 | 0.155 |
| HCM Control Delay | 9.9 | 10 | 9.4 | 8.8 | 10 | 9.6 | 9 |
| HCM Lane LOS | А | А | А | А | А | А | А |
| HCM 95th-tile Q | 0.4 | 0.7 | 0.8 | 0 | 1.2 | 0.2 | 0.5 |

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | 4 | | | 4 | | | 4 | | - | 4 | |
| Traffic Vol, veh/h | 15 | 52 | 48 | 3 | 44 | 4 | 26 | 3 | 3 | 2 | 4 | 5 |
| Future Vol, veh/h | 15 | 52 | 48 | 3 | 44 | 4 | 26 | 3 | 3 | 2 | 4 | 5 |
| 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 | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, | ,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 85 | 85 | 85 | 78 | 78 | 78 | 39 | 39 | 39 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 18 | 63 | 58 | 4 | 52 | 5 | 33 | 4 | 4 | 5 | 10 | 13 |

| Major/Minor | Major1 | | 1 | Major2 | | | Minor1 | | l | Minor2 | | | |
|----------------------|--------|-------|------|--------|-----|------|--------|-------|-------|--------|-------|-------|--|
| Conflicting Flow All | 57 | 0 | 0 | 121 | 0 | 0 | 202 | 193 | 92 | 195 | 220 | 55 | |
| Stage 1 | - | - | - | - | - | - | 128 | 128 | - | 63 | 63 | - | |
| Stage 2 | - | - | - | - | - | - | 74 | 65 | - | 132 | 157 | - | |
| 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 | 1547 | - | - | 1467 | - | - | 756 | 702 | 965 | 764 | 678 | 1012 | |
| Stage 1 | - | - | - | - | - | - | 876 | 790 | - | 948 | 842 | - | |
| Stage 2 | - | - | - | - | - | - | 935 | 841 | - | 871 | 768 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1547 | - | - | 1467 | - | - | 729 | 691 | 965 | 749 | 667 | 1012 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 729 | 691 | - | 749 | 667 | - | |
| Stage 1 | - | - | - | - | - | - | 865 | 780 | - | 936 | 839 | - | |
| Stage 2 | - | - | - | - | - | - | 909 | 838 | - | 852 | 758 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 1 | | | 0.4 | | | 10.1 | | | 9.6 | | | |
| HCM LOS | | | | | | | В | | | А | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt N | VBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | | 742 | 1547 | - | - | 1467 | - | - | 808 | | | | |

| HCM Lane V/C Ratio | 0.055 | 0.012 | - | - (|).002 | - | - | 0.035 | |
|-----------------------|-------|-------|---|-----|-------|---|---|-------|--|
| HCM Control Delay (s) | 10.1 | 7.4 | 0 | - | 7.5 | 0 | - | 9.6 | |
| HCM Lane LOS | В | А | А | - | А | А | - | А | |
| HCM 95th %tile Q(veh) | 0.2 | 0 | - | - | 0 | - | - | 0.1 | |

Intersection Delay, s/veh Intersection LOS

reh 22.1 C

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ሻ | eî | | ٦ | ef 👘 | | | 4 | | ٦ | ef 🔰 | |
| Traffic Vol, veh/h | 65 | 263 | 22 | 6 | 327 | 46 | 74 | 27 | 17 | 107 | 31 | 138 |
| Future Vol, veh/h | 65 | 263 | 22 | 6 | 327 | 46 | 74 | 27 | 17 | 107 | 31 | 138 |
| Peak Hour Factor | 0.74 | 0.94 | 0.74 | 0.71 | 0.94 | 0.71 | 0.83 | 0.83 | 0.83 | 0.76 | 0.76 | 0.76 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 88 | 280 | 30 | 8 | 348 | 65 | 89 | 33 | 20 | 141 | 41 | 182 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 19.2 | | | 33.3 | | | 15.4 | | | 15 | | |
| HCM LOS | С | | | D | | | С | | | В | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 63% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 23% | 0% | 92% | 0% | 88% | 0% | 18% |
| Vol Right, % | 14% | 0% | 8% | 0% | 12% | 0% | 82% |
| Sign Control | Stop |
| Traffic Vol by Lane | 118 | 65 | 285 | 6 | 373 | 107 | 169 |
| LT Vol | 74 | 65 | 0 | 6 | 0 | 107 | 0 |
| Through Vol | 27 | 0 | 263 | 0 | 327 | 0 | 31 |
| RT Vol | 17 | 0 | 22 | 0 | 46 | 0 | 138 |
| Lane Flow Rate | 142 | 88 | 310 | 8 | 413 | 141 | 222 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.328 | 0.19 | 0.619 | 0.018 | 0.811 | 0.318 | 0.435 |
| Departure Headway (Hd) | 8.303 | 7.771 | 7.202 | 7.681 | 7.079 | 8.137 | 7.037 |
| Convergence, Y/N | Yes |
| Сар | 431 | 460 | 498 | 465 | 512 | 441 | 509 |
| Service Time | 6.394 | 5.542 | 4.972 | 5.446 | 4.844 | 5.907 | 4.806 |
| HCM Lane V/C Ratio | 0.329 | 0.191 | 0.622 | 0.017 | 0.807 | 0.32 | 0.436 |
| HCM Control Delay | 15.4 | 12.4 | 21.1 | 10.6 | 33.8 | 14.7 | 15.2 |
| HCM Lane LOS | С | В | С | В | D | В | С |
| HCM 95th-tile Q | 1.4 | 0.7 | 4.1 | 0.1 | 7.8 | 1.4 | 2.2 |

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
|------------------------|------|-------------------|------|------|------------------|------|------|-------------------|------|------|------------------|------|--|
| | EDL | | EDR | VVDL | | VVDN | INDL | | NDN | SDL | SDI | SDR | |
| Lane Configurations | | - 4 2- | | | - 4 > | | | - 4 2- | | | - 4 > | | |
| Traffic Vol, veh/h | 4 | 395 | 35 | 5 | 519 | 3 | 57 | 1 | 5 | 7 | 4 | 14 | |
| Future Vol, veh/h | 4 | 395 | 35 | 5 | 519 | 3 | 57 | 1 | 5 | 7 | 4 | 14 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None | |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - | |
| Veh in Median Storage, | # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 78 | 94 | 78 | 66 | 94 | 66 | 85 | 85 | 85 | 78 | 78 | 78 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 5 | 420 | 45 | 8 | 552 | 5 | 67 | 1 | 6 | 9 | 5 | 18 | |

| Major/Minor | Major1 | | 1 | Major2 | | | Minor1 | | | Minor2 | | | |
|-----------------------|--------|--------|-----|--------|-----|-----|--------|-------|--------|--------|-------|-------|--|
| Conflicting Flow All | 557 | 0 | 0 | 465 | 0 | 0 | 1035 | 1026 | 443 | 1027 | 1046 | 555 | |
| Stage 1 | - | - | - | - | - | - | 453 | 453 | - | 571 | 571 | - | |
| Stage 2 | - | - | - | - | - | - | 582 | 573 | - | 456 | 475 | - | |
| 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 | - | 0.12 | 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 | 1014 | - | - | 1096 | - | - | 210 | 235 | 615 | 213 | 228 | 531 | |
| Stage 1 | - | - | - | - | - | - | 586 | 570 | - | 506 | 505 | - | |
| Stage 2 | - | - | - | - | - | - | 499 | 504 | - | 584 | 557 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1014 | - | - | 1096 | - | - | 197 | 231 | 615 | 207 | 224 | 531 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 197 | 231 | - | 207 | 224 | - | |
| Stage 1 | - | - | - | - | - | - | 582 | 566 | - | | 499 | - | |
| Stage 2 | - | - | - | - | - | - | 472 | 498 | - | 573 | 553 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0.1 | | | 0.1 | | | 31.4 | | | 17.5 | | | |
| HCM LOS | | | | | | | D | | | С | | | |
| | | | | | | | | | | | | | |
| /linor Lane/Maior Myn | nt N | JBI n1 | FBI | FBT | FBR | WBI | WBT | WRR | SBI n1 | | | | |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR S | SBLn1 | |
|-----------------------|-------|-------|-----|-----|-------|-----|-------|-------|--|
| Capacity (veh/h) | 209 | 1014 | - | - | 1096 | - | - | 320 | |
| HCM Lane V/C Ratio | 0.355 | 0.005 | - | - | 0.007 | - | - | 0.1 | |
| HCM Control Delay (s) | 31.4 | 8.6 | 0 | - | 8.3 | 0 | - | 17.5 | |
| HCM Lane LOS | D | А | А | - | А | А | - | С | |
| HCM 95th %tile Q(veh) | 1.5 | 0 | - | - | 0 | - | - | 0.3 | |

Intersection Delay, s/veh Intersection LOS

```
eh 14.3
B
```

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ۳. | Ę. | | ሻ | 4 | | | 4 | | ٦. | 4Î | |
| Traffic Vol, veh/h | 124 | 146 | 35 | 8 | 132 | 97 | 26 | 38 | 6 | 78 | 42 | 103 |
| Future Vol, veh/h | 124 | 146 | 35 | 8 | 132 | 97 | 26 | 38 | 6 | 78 | 42 | 103 |
| Peak Hour Factor | 0.87 | 0.94 | 0.87 | 0.83 | 0.94 | 0.83 | 0.78 | 0.78 | 0.78 | 0.45 | 0.45 | 0.45 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 143 | 155 | 40 | 10 | 140 | 117 | 33 | 49 | 8 | 173 | 93 | 229 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 13.1 | | | 15 | | | 12.1 | | | 15.1 | | |
| HCM LOS | В | | | В | | | В | | | С | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 37% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 54% | 0% | 81% | 0% | 58% | 0% | 29% |
| Vol Right, % | 9% | 0% | 19% | 0% | 42% | 0% | 71% |
| Sign Control | Stop |
| Traffic Vol by Lane | 70 | 124 | 181 | 8 | 229 | 78 | 145 |
| LT Vol | 26 | 124 | 0 | 8 | 0 | 78 | 0 |
| Through Vol | 38 | 0 | 146 | 0 | 132 | 0 | 42 |
| RT Vol | 6 | 0 | 35 | 0 | 97 | 0 | 103 |
| Lane Flow Rate | 90 | 143 | 196 | 10 | 257 | 173 | 322 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.186 | 0.288 | 0.359 | 0.02 | 0.47 | 0.34 | 0.542 |
| Departure Headway (Hd) | 7.452 | 7.267 | 6.618 | 7.392 | 6.578 | 7.065 | 6.052 |
| Convergence, Y/N | Yes |
| Сар | 485 | 490 | 540 | 481 | 543 | 506 | 593 |
| Service Time | 5.452 | 5.064 | 4.414 | 5.19 | 4.375 | 4.849 | 3.836 |
| HCM Lane V/C Ratio | 0.186 | 0.292 | 0.363 | 0.021 | 0.473 | 0.342 | 0.543 |
| HCM Control Delay | 12.1 | 13 | 13.1 | 10.3 | 15.2 | 13.5 | 15.9 |
| HCM Lane LOS | В | В | В | В | С | В | С |
| HCM 95th-tile Q | 0.7 | 1.2 | 1.6 | 0.1 | 2.5 | 1.5 | 3.2 |

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | 4 | | | 4 | | | 4 | | | 4 | |
| Traffic Vol, veh/h | 8 | 486 | 67 | 7 | 416 | 2 | 29 | 2 | 6 | 3 | 5 | 6 |
| Future Vol, veh/h | 8 | 486 | 67 | 7 | 416 | 2 | 29 | 2 | 6 | 3 | 5 | 6 |
| 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 | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, | # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 61 | 94 | 61 | 94 | 94 | 94 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 13 | 517 | 110 | 7 | 443 | 2 | 37 | 3 | 8 | 4 | 6 | 8 |

| Major/Minor | Major1 | | N | Major2 | | | Minor1 | | | | Minor2 | Minor2 |
|----------------------|--------|------|------|--------|-----|-----|-----------|-------|-------|-----------|---------|--------------|
| Conflicting Flow All | 445 | 0 | 0 | 627 | 0 | 0 | 1063 | 1057 | 57 | 72 | 72 1062 | 72 1062 1111 |
| Stage 1 | - | - | - | - | - | - | 598 | 598 | - | | 458 | 458 458 |
| Stage 2 | - | - | - | - | - | - | 465 | 459 | - | | 604 | 604 653 |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | | 7.12 | 7.12 6.52 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | | 6.12 | 6.12 5.52 |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | | 6.12 | 6.12 5.52 |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | ; | 3.518 | 3.518 4.018 |
| Pot Cap-1 Maneuver | 1115 | - | - | 955 | - | - | 201 | 225 | 520 | | 201 | 201 209 |
| Stage 1 | - | - | - | - | - | - | 489 | 491 | - | ļ | 583 | 583 567 |
| Stage 2 | - | - | - | - | - | - | 578 | 566 | - | 4 | 85 | 85 464 |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1115 | - | - | 955 | - | - | 190 | 219 | 520 | 19 | 2 | 2 203 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 190 | 219 | - | 19 | | |
| Stage 1 | - | - | - | - | - | - | 480 | 482 | - | | | |
| Stage 2 | - | - | - | - | - | - | 559 | 560 | - | 467 | | |
| <u> </u> | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 0.2 | | | 0.1 | | | 26.7 | | | 18.7 | | |
| HCM LOS | 0.2 | | | 0.1 | | | 20.7 D | | | 10.7 C | | |
| | | | | | | | U | | | U | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt N | BLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | |
| Connecity (uch/h) | | 010 | 1115 | | | 055 | | | 200 | | | |

| | | | | | | | - |
|-----------------------|-------|-------|---|---------|-----|---|-------|
| Capacity (veh/h) | 213 | 1115 | - | - 955 | 5 - | - | 280 |
| HCM Lane V/C Ratio | 0.223 | 0.012 | - | - 0.008 | } - | - | 0.064 |
| HCM Control Delay (s) | 26.7 | 8.3 | 0 | - 8.8 | 3 0 | - | 18.7 |
| HCM Lane LOS | D | А | А | - A | A A | - | С |
| HCM 95th %tile Q(veh) | 0.8 | 0 | - | - (|) - | - | 0.2 |

Intersection Delay, s/veh Intersection LOS

```
10.4
```

В

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ٦ | eî | | ٦ | ef 👘 | | | 4 | | ٦. | ef 🔰 | |
| Traffic Vol, veh/h | 96 | 141 | 41 | 9 | 140 | 71 | 30 | 31 | 7 | 33 | 15 | 65 |
| Future Vol, veh/h | 96 | 141 | 41 | 9 | 140 | 71 | 30 | 31 | 7 | 33 | 15 | 65 |
| Peak Hour Factor | 0.87 | 0.94 | 0.87 | 0.81 | 0.94 | 0.81 | 0.78 | 0.78 | 0.78 | 0.76 | 0.76 | 0.76 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 110 | 150 | 47 | 11 | 149 | 88 | 38 | 40 | 9 | 43 | 20 | 86 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 10.3 | | | 11 | | | 10.4 | | | 9.6 | | |
| HCM LOS | В | | | В | | | В | | | А | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 44% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 46% | 0% | 77% | 0% | 66% | 0% | 19% |
| Vol Right, % | 10% | 0% | 23% | 0% | 34% | 0% | 81% |
| Sign Control | Stop |
| Traffic Vol by Lane | 68 | 96 | 182 | 9 | 211 | 33 | 80 |
| LT Vol | 30 | 96 | 0 | 9 | 0 | 33 | 0 |
| Through Vol | 31 | 0 | 141 | 0 | 140 | 0 | 15 |
| RT Vol | 7 | 0 | 41 | 0 | 71 | 0 | 65 |
| Lane Flow Rate | 87 | 110 | 197 | 11 | 237 | 43 | 105 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.152 | 0.186 | 0.296 | 0.019 | 0.356 | 0.08 | 0.163 |
| Departure Headway (Hd) | 6.274 | 6.073 | 5.409 | 6.161 | 5.418 | 6.648 | 5.567 |
| Convergence, Y/N | Yes |
| Сар | 572 | 594 | 668 | 584 | 667 | 540 | 645 |
| Service Time | 4.306 | 3.779 | 3.115 | 3.869 | 3.125 | 4.377 | 3.296 |
| HCM Lane V/C Ratio | 0.152 | 0.185 | 0.295 | 0.019 | 0.355 | 0.08 | 0.163 |
| HCM Control Delay | 10.4 | 10.2 | 10.4 | 9 | 11.1 | 10 | 9.4 |
| HCM Lane LOS | В | В | В | А | В | А | А |
| HCM 95th-tile Q | 0.5 | 0.7 | 1.2 | 0.1 | 1.6 | 0.3 | 0.6 |

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
|------------------------|------|------|------|------|------|-------|------|------|------|------|------|-------|--|
| Lane Configurations | | 4 | LBIX | | 4 | TIDI(| | 4 | | 002 | 4 | 0.0.1 | |
| Traffic Vol, veh/h | 15 | 632 | 48 | 4 | 436 | 4 | 26 | 3 | 4 | 2 | 4 | 5 | |
| Future Vol, veh/h | 15 | 632 | 48 | 4 | 436 | 4 | 26 | 3 | 4 | 2 | 4 | 5 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None | |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - | |
| Veh in Median Storage, | ,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 85 | 94 | 85 | 85 | 94 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 18 | 672 | 56 | 5 | 464 | 5 | 31 | 4 | 5 | 2 | 5 | 6 | |

| Major/Minor | Major1 | | <u> </u> | Major2 | | | Minor1 | | | Minor2 | | | |
|----------------------|--------|--------|----------|--------|-----|-----|--------|-------|--------|--------|-------|-------|--|
| Conflicting Flow All | 469 | 0 | 0 | 728 | 0 | 0 | 1218 | 1215 | 700 | 1218 | 1241 | 467 | |
| Stage 1 | - | - | - | - | - | - | 736 | 736 | - | 477 | 477 | - | |
| Stage 2 | - | - | - | - | - | - | 482 | 479 | - | | 764 | - | |
| 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 | - | 0.12 | 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 | 1093 | - | - | 876 | - | - | 157 | 181 | 439 | 157 | 175 | 596 | |
| Stage 1 | - | - | - | - | - | - | 411 | 425 | - | 569 | 556 | - | |
| Stage 2 | - | - | - | - | - | - | 565 | 555 | - | 408 | 413 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1093 | - | - | 876 | - | - | 148 | 174 | 439 | 149 | 169 | 596 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 148 | 174 | - | 149 | 169 | - | |
| Stage 1 | - | - | - | - | - | - | 399 | 413 | - | 553 | 552 | - | |
| Stage 2 | - | - | - | - | - | - | 550 | 551 | - | 389 | 401 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0.2 | | | 0.1 | | | 33.9 | | | 20.7 | | | |
| HCM LOS | | | | | | | D | | | С | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Myn | nt N | JRI n1 | FBI | FBT | FBR | WRI | WBT | WBR | SBI n1 | | | | |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR S | SBLn1 | |
|-----------------------|-------|-------|-----|-----|-------|-----|-------|-------|--|
| Capacity (veh/h) | 163 | 1093 | - | - | 876 | - | - | 242 | |
| HCM Lane V/C Ratio | 0.238 | 0.016 | - | - | 0.005 | - | - | 0.053 | |
| HCM Control Delay (s) | 33.9 | 8.3 | 0 | - | 9.1 | 0 | - | 20.7 | |
| HCM Lane LOS | D | А | А | - | А | А | - | С | |
| HCM 95th %tile Q(veh) | 0.9 | 0 | - | - | 0 | - | - | 0.2 | |

Intersection Delay, s/veh Intersection LOS

```
veh 17.9
C
```

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ٦ | ¢Î | | ٦ | el 🗧 | | | \$ | | ٦ | ef 🔰 | |
| Traffic Vol, veh/h | 67 | 177 | 20 | 5 | 220 | 48 | 69 | 28 | 14 | 108 | 31 | 140 |
| Future Vol, veh/h | 67 | 177 | 20 | 5 | 220 | 48 | 69 | 28 | 14 | 108 | 31 | 140 |
| Peak Hour Factor | 0.74 | 0.74 | 0.74 | 0.71 | 0.71 | 0.71 | 0.83 | 0.83 | 0.83 | 0.76 | 0.76 | 0.76 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 91 | 239 | 27 | 7 | 310 | 68 | 83 | 34 | 17 | 142 | 41 | 184 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 15.7 | | | 24.8 | | | 14.3 | | | 14.1 | | |
| HCM LOS | С | | | С | | | В | | | В | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 62% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 25% | 0% | 90% | 0% | 82% | 0% | 18% |
| Vol Right, % | 13% | 0% | 10% | 0% | 18% | 0% | 82% |
| Sign Control | Stop |
| Traffic Vol by Lane | 111 | 67 | 197 | 5 | 268 | 108 | 171 |
| LT Vol | 69 | 67 | 0 | 5 | 0 | 108 | 0 |
| Through Vol | 28 | 0 | 177 | 0 | 220 | 0 | 31 |
| RT Vol | 14 | 0 | 20 | 0 | 48 | 0 | 140 |
| Lane Flow Rate | 134 | 91 | 266 | 7 | 377 | 142 | 225 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.294 | 0.19 | 0.515 | 0.015 | 0.717 | 0.307 | 0.418 |
| Departure Headway (Hd) | 7.914 | 7.555 | 6.97 | 7.474 | 6.834 | 7.782 | 6.685 |
| Convergence, Y/N | Yes |
| Сар | 453 | 474 | 516 | 479 | 528 | 462 | 538 |
| Service Time | 5.983 | 5.308 | 4.722 | 5.221 | 4.581 | 5.535 | 4.437 |
| HCM Lane V/C Ratio | 0.296 | 0.192 | 0.516 | 0.015 | 0.714 | 0.307 | 0.418 |
| HCM Control Delay | 14.3 | 12.1 | 16.9 | 10.3 | 25.1 | 14 | 14.2 |
| HCM Lane LOS | В | В | С | В | D | В | В |
| HCM 95th-tile Q | 1.2 | 0.7 | 2.9 | 0 | 5.8 | 1.3 | 2 |

Intersection

Int Delay, s/veh

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
|------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|--|
| Lane Configurations | | 4 | | | 4 | | | 4 | | | 4 | | |
| Traffic Vol, veh/h | 4 | 49 | 35 | 1 | 60 | 3 | 57 | 1 | 3 | 7 | 4 | 14 | |
| Future Vol, veh/h | 4 | 49 | 35 | 1 | 60 | 3 | 57 | 1 | 3 | 7 | 4 | 14 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None | |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - | |
| Veh in Median Storage, | , # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 78 | 78 | 78 | 66 | 66 | 66 | 85 | 85 | 85 | 78 | 78 | 78 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 5 | 63 | 45 | 2 | 91 | 5 | 67 | 1 | 4 | 9 | 5 | 18 | |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|----------|-------|-------|--------|-----|-------|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 96 | 0 | 0 | 108 | 0 | 0 | 205 | 196 | 86 | 196 | 21 | 6 |
| Stage 1 | - 50 | - | - | - | - | - | 96 | 96 | - | 98 | 98 | |
| Stage 2 | - | - | - | - | - | - | 109 | 100 | - | 98 | 118 | |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | |
| Critical Hdwy Stg 1 | | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | 6 |
| Critical Hdwy Stg 2 | - | - | - | - | - | _ | 6.12 | 5.52 | - | | 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 | 1498 | - | - | 1483 | - | - | 753 | 699 | 973 | 763 | 682 | 963 |
| Stage 1 | - | - | - | - | - | - | 911 | 815 | - | 908 | 814 | - |
| Stage 2 | - | - | - | - | - | - | 896 | 812 | - | 908 | 798 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1498 | - | - | 1483 | - | - | 732 | 696 | 973 | 756 | 679 | 963 |
| Mov Cap-2 Maneuver | | - | - | - | - | - | 732 | 696 | - | 756 | 679 | - |
| Stage 1 | - | - | - | - | - | - | 907 | 812 | - | 904 | 813 | - |
| Stage 2 | - | - | - | - | - | - | 873 | 811 | - | 900 | 795 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | | | | 0.1 | | | 10.4 | | | 9.4 | | |
| HCM LOS | 0.0 | | | 0.1 | | | B | | | A | | |
| | | | | | | | _ | | | ,, | | |
| NA' I /NA - ' NA | | | | EDT | | | | | | | | |
| Minor Lane/Major Mvr | nt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | |
| Capacity (veh/h) | | 740 | 1498 | - | - | 1483 | - | - | 842 | | | |
| HCM Lane V/C Ratio | ` | 0.097 | 0.003 | - | - | 0.001 | - | | 0.038 | | | |
| HCM Control Delay (s | 5) | 10.4 | 7.4 | 0 | - | 7.4 | 0 | - | 9.4 | | | |

А

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В

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HCM Lane LOS

HCM 95th %tile Q(veh)

| Int Delay, s/veh | 0.3 | | | | | |
|------------------------|------|------|----------|------|------|------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | el el | | | र्भ |
| Traffic Vol, veh/h | 1 | 1 | 40 | 1 | 2 | 50 |
| Future Vol, veh/h | 1 | 1 | 40 | 1 | 2 | 50 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | ,#0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 1 | 47 | 1 | 2 | 59 |

| Major/Minor | Minor1 | Ν | 1ajor1 | Ν | lajor2 | |
|----------------------|--------|-------|--------|---|--------|---|
| Conflicting Flow All | 111 | 48 | 0 | 0 | 48 | 0 |
| Stage 1 | 48 | - | - | - | - | - |
| Stage 2 | 63 | - | - | - | - | - |
| 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 | 886 | 1021 | - | - | 1559 | - |
| Stage 1 | 974 | - | - | - | - | - |
| Stage 2 | 960 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 885 | 1021 | - | - | 1559 | - |
| Mov Cap-2 Maneuver | 885 | - | - | - | - | - |
| Stage 1 | 974 | - | - | - | - | - |
| Stage 2 | 959 | - | - | - | - | - |
| | | | | | | |
| | | | | | | |

| Approach | WB | NB | SB | |
|----------------------|-----|----|-----|--|
| HCM Control Delay, s | 8.8 | 0 | 0.3 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBT | NBRV | /BLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 948 | 1559 | - |
| HCM Lane V/C Ratio | - | - | 0.002 | 0.002 | - |
| HCM Control Delay (s) | - | - | 8.8 | 7.3 | 0 |
| HCM Lane LOS | - | - | А | А | Α |
| HCM 95th %tile Q(veh) | - | - | 0 | 0 | - |

| Int Delay, s/veh | 0.2 | | | | | |
|------------------------|------|------|------|------|------|------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | 4 | | | ÷ |
| Traffic Vol, veh/h | 2 | 0 | 41 | 4 | 1 | 50 |
| Future Vol, veh/h | 2 | 0 | 41 | 4 | 1 | 50 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | ,#0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 0 | 48 | 5 | 1 | 59 |

| Major/Minor | Minor1 | Ν | 1ajor1 | Ν | /lajor2 | | |
|----------------------|--------|-------|--------|---|---------|---|--|
| Conflicting Flow All | 112 | 51 | 0 | 0 | 53 | 0 | |
| Stage 1 | 51 | - | - | - | - | - | |
| Stage 2 | 61 | - | - | - | - | - | |
| 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 | 885 | 1017 | - | - | 1553 | - | |
| Stage 1 | 971 | - | - | - | - | - | |
| Stage 2 | 962 | - | - | - | - | - | |
| Platoon blocked, % | | | - | - | | - | |
| Mov Cap-1 Maneuver | | 1017 | - | - | 1553 | - | |
| Mov Cap-2 Maneuver | 884 | - | - | - | - | - | |
| Stage 1 | 971 | - | - | - | - | - | |
| Stage 2 | 961 | - | - | - | - | - | |
| | | | | | | | |
| | | | | | | | |

| Approach | WB | NB | SB | |
|----------------------|-----|----|-----|--|
| HCM Control Delay, s | 9.1 | 0 | 0.1 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBT | NBRV | VBLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 884 | 1553 | - |
| HCM Lane V/C Ratio | - | - | 0.003 | 0.001 | - |
| HCM Control Delay (s) | - | - | 9.1 | 7.3 | 0 |
| HCM Lane LOS | - | - | А | А | Α |
| HCM 95th %tile Q(veh) | - | - | 0 | 0 | - |

Intersection Delay, s/veh Intersection LOS

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14.9
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В

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ሻ | f) | | ሻ | 4 | | | 4 | | ٦. | 4Î | |
| Traffic Vol, veh/h | 139 | 98 | 31 | 6 | 89 | 107 | 23 | 42 | 5 | 90 | 47 | 121 |
| Future Vol, veh/h | 139 | 98 | 31 | 6 | 89 | 107 | 23 | 42 | 5 | 90 | 47 | 121 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.83 | 0.83 | 0.83 | 0.78 | 0.78 | 0.78 | 0.45 | 0.45 | 0.45 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 160 | 113 | 36 | 7 | 107 | 129 | 29 | 54 | 6 | 200 | 104 | 269 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 13 | | | 14.4 | | | 12.1 | | | 16.5 | | |
| HCM LOS | В | | | В | | | В | | | С | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 33% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 60% | 0% | 76% | 0% | 45% | 0% | 28% |
| Vol Right, % | 7% | 0% | 24% | 0% | 55% | 0% | 72% |
| Sign Control | Stop |
| Traffic Vol by Lane | 70 | 139 | 129 | 6 | 196 | 90 | 168 |
| LT Vol | 23 | 139 | 0 | 6 | 0 | 90 | 0 |
| Through Vol | 42 | 0 | 98 | 0 | 89 | 0 | 47 |
| RT Vol | 5 | 0 | 31 | 0 | 107 | 0 | 121 |
| Lane Flow Rate | 90 | 160 | 148 | 7 | 236 | 200 | 373 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.184 | 0.328 | 0.276 | 0.015 | 0.434 | 0.386 | 0.614 |
| Departure Headway (Hd) | 7.395 | 7.391 | 6.708 | 7.519 | 6.616 | 6.943 | 5.925 |
| Convergence, Y/N | Yes |
| Сар | 488 | 484 | 532 | 473 | 541 | 516 | 605 |
| Service Time | 5.395 | 5.183 | 4.499 | 5.313 | 4.41 | 4.72 | 3.701 |
| HCM Lane V/C Ratio | 0.184 | 0.331 | 0.278 | 0.015 | 0.436 | 0.388 | 0.617 |
| HCM Control Delay | 12.1 | 13.8 | 12.1 | 10.4 | 14.5 | 14.1 | 17.8 |
| HCM Lane LOS | В | В | В | В | В | В | С |
| HCM 95th-tile Q | 0.7 | 1.4 | 1.1 | 0 | 2.2 | 1.8 | 4.2 |

Intersection

| Lane Configurations Image: configuration in the image: configuration | | EDI | FDT | | | MOT | | | NDT | | | ODT | 000 | |
|--|------------------------|------|------|------|------|--------------|------|------|--------------|------|------|--------------|------|--|
| Traffic Vol, veh/h 8 40 67 8 42 2 29 2 5 3 5 6 Future Vol, veh/h 8 40 67 8 42 2 29 2 5 3 5 6 Conflicting Peds, #/hr 0 | Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
| Future Vol, veh/h 8 40 67 8 42 2 29 2 5 3 5 6 Conflicting Peds, #/hr 0 | Lane Configurations | | - 44 | | | - 4 > | | | - 4 + | | | - 4 > | | |
| Conflicting Peds, #/hr 0 <td>Traffic Vol, veh/h</td> <td>8</td> <td>40</td> <td>67</td> <td>8</td> <td>42</td> <td>2</td> <td>29</td> <td>2</td> <td>5</td> <td>3</td> <td>5</td> <td>6</td> <td></td> | Traffic Vol, veh/h | 8 | 40 | 67 | 8 | 42 | 2 | 29 | 2 | 5 | 3 | 5 | 6 | |
| Sign ControlFreeFreeFreeFreeFreeFreeStopStopStopStopStopRT ChannelizedNoneNoneNoneNoneStorage LengthVeh in Median Storage, #0000-Grade, %-000-0-Peak Hour Factor61619494947878787878Heavy Vehicles, %22222222222 | Future Vol, veh/h | 8 | 40 | 67 | 8 | 42 | 2 | 29 | 2 | 5 | 3 | 5 | 6 | |
| RT Channelized - - None - - None - - None Storage Length - - - - - - - - - - - - None - - None - - None - - - - - - - O - - 0 - - 0 - - 0 - - 0 - - 0 - Post Averation of the store of the sto | Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Storage Length - | Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | |
| Veh in Median Storage, # - 0 - 1 | RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None | |
| Grade, % - 0 - 0 - 0 - 0 - Peak Hour Factor 61 61 61 94 94 78 78 78 78 78 Heavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 | Storage Length | - | - | - | - | - | - | - | - | - | - | - | - | |
| Peak Hour Factor 61 61 61 94 94 78 78 78 78 78 Heavy Vehicles, % 2 | Veh in Median Storage, | # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Heavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| | Peak Hour Factor | 61 | 61 | 61 | 94 | 94 | 94 | 78 | 78 | 78 | 78 | 78 | 78 | |
| Mymt Flow 13 66 110 9 45 2 37 3 6 4 6 8 | Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | Mvmt Flow | 13 | 66 | 110 | 9 | 45 | 2 | 37 | 3 | 6 | 4 | 6 | 8 | |

| Major/Minor | Major1 | | I | Major2 | | | Minor1 | | | Minor2 | | | |
|----------------------|--------|-------|-------|--------|-----|-------|--------|-------|-------|--------|-------|-------|--|
| Conflicting Flow All | 47 | 0 | 0 | 176 | 0 | 0 | 218 | 212 | 121 | 216 | 266 | 46 | |
| Stage 1 | - | - | - | - | - | - | 147 | 147 | - | 64 | 64 | - | |
| Stage 2 | - | - | - | - | - | - | 71 | 65 | - | 152 | 202 | - | |
| 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 | - | 0.40 | 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 | 1560 | - | - | 1400 | - | - | 738 | 685 | 930 | 740 | 640 | 1023 | |
| Stage 1 | - | - | - | - | - | - | 856 | 775 | - | 947 | 842 | - | |
| Stage 2 | - | - | - | - | - | - | 939 | 841 | - | 850 | 734 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1560 | - | - | 1400 | - | - | 718 | 674 | 930 | 724 | 630 | 1023 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 718 | 674 | - | 724 | 630 | - | |
| Stage 1 | - | - | - | - | - | - | 848 | 768 | - | 938 | 836 | - | |
| Stage 2 | - | - | - | - | - | - | 918 | 835 | - | 834 | 727 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0.5 | | | 1.2 | | | 10.2 | | | 9.7 | | | |
| HCM LOS | 0.0 | | | 1.2 | | | B | | | A | | | |
| | | | | | | | U | | | ,, | | | |
| Minor Lane/Major Mvn | nt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | | 739 | 1560 | | - | 1400 | - | - | 780 | | | | |
| HCM Lane V/C Ratio | | 0.062 | 0.008 | - | _ | 0.006 | - | - | 0.023 | | | | |

| HUM Lane V/C Ralio | 0.002 | 0.000 | - | - 0.0 | 000 | - | - | 0.023 |
|-----------------------|-------|-------|---|-------|-----|---|---|-------|
| HCM Control Delay (s) | 10.2 | 7.3 | 0 | - | 7.6 | 0 | - | 9.7 |
| HCM Lane LOS | В | А | А | - | А | А | - | А |
| HCM 95th %tile Q(veh) | 0.2 | 0 | - | - | 0 | - | - | 0.1 |

| Int Delay, s/veh | 1.4 | | | | | |
|------------------------|--------|------|------|------|------|--------------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | et - | | | ا |
| Traffic Vol, veh/h | 9 | 10 | 39 | 8 | 8 | 97 |
| Future Vol, veh/h | 9 | 10 | 39 | 8 | 8 | 97 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | e, # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 11 | 12 | 46 | 9 | 9 | 114 |

| Major/Minor | Minor1 | Ν | /lajor1 | Ν | lajor2 | | | | |
|----------------------|--------|-------|---------|---|--------|---|--|--|--|
| Conflicting Flow All | 183 | 51 | 0 | 0 | 55 | 0 | | | |
| Stage 1 | 51 | - | - | - | - | - | | | |
| Stage 2 | 132 | - | - | - | - | - | | | |
| 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 | 806 | 1017 | - | - | 1550 | - | | | |
| Stage 1 | 971 | - | - | - | - | - | | | |
| Stage 2 | 894 | - | - | - | - | - | | | |
| Platoon blocked, % | | | - | - | | - | | | |
| Mov Cap-1 Maneuver | 801 | 1017 | - | - | 1550 | - | | | |
| Mov Cap-2 Maneuver | 801 | - | - | - | - | - | | | |
| Stage 1 | 971 | - | - | - | - | - | | | |
| Stage 2 | 889 | - | - | - | - | - | | | |
| | | | | | | | | | |

| Approach | WB | NB | SB |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 9.1 | 0 | 0.6 |
| HCM LOS | А | | |

| Minor Lane/Major Mvmt | NBT | NBRW | /BLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 902 | 1550 | - |
| HCM Lane V/C Ratio | - | - | 0.025 | 0.006 | - |
| HCM Control Delay (s) | - | - | 9.1 | 7.3 | 0 |
| HCM Lane LOS | - | - | А | А | Α |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - |

| Int Delay, s/veh | 1.8 | | | | | |
|------------------------|------|------|------|------|------|--------------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | 4 | | | ا |
| Traffic Vol, veh/h | 28 | 7 | 40 | 23 | 5 | 101 |
| Future Vol, veh/h | 28 | 7 | 40 | 23 | 5 | 101 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | ,# 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 8 | 47 | 27 | 6 | 119 |

| Major/Minor | Minor1 | Ν | 1ajor1 | Ν | /lajor2 | | | | | |
|----------------------|--------|-------|--------|---|---------|---|------|--|------|--|
| Conflicting Flow All | 192 | 61 | 0 | 0 | 74 | 0 | | | | |
| Stage 1 | 61 | - | - | - | - | - | | | | |
| Stage 2 | 131 | - | - | - | - | - | | | | |
| 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 | 797 | 1004 | - | - | 1526 | - | | | | |
| Stage 1 | 962 | - | - | - | - | - | | | | |
| Stage 2 | 895 | - | - | - | - | - | | | | |
| Platoon blocked, % | | | - | - | | - | | | | |
| Mov Cap-1 Maneuver | 794 | 1004 | - | - | 1526 | - | | | | |
| Mov Cap-2 Maneuver | 794 | - | - | - | - | - | | | | |
| Stage 1 | 962 | - | - | - | - | - | | | | |
| Stage 2 | 891 | - | - | - | - | - | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Approach | WB | NB | SB | |
|----------------------|-----|----|-----|--|
| HCM Control Delay, s | 9.6 | 0 | 0.3 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBT | NBRW | /BLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 829 | 1526 | - |
| HCM Lane V/C Ratio | - | - | 0.05 | 0.004 | - |
| HCM Control Delay (s) | - | - | 9.6 | 7.4 | 0 |
| HCM Lane LOS | - | - | А | А | А |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0 | - |

Intersection Delay, s/veh Intersection LOS

eh 10.5 B

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ሻ | f) | | ሻ | 4 | | | 4 | | ٦. | 4î | |
| Traffic Vol, veh/h | 129 | 95 | 35 | 6 | 94 | 91 | 26 | 36 | 5 | 48 | 25 | 83 |
| Future Vol, veh/h | 129 | 95 | 35 | 6 | 94 | 91 | 26 | 36 | 5 | 48 | 25 | 83 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.81 | 0.81 | 0.81 | 0.78 | 0.78 | 0.78 | 0.76 | 0.76 | 0.76 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 148 | 109 | 40 | 7 | 116 | 112 | 33 | 46 | 6 | 63 | 33 | 109 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 10.5 | | | 11 | | | 10.5 | | | 10 | | |
| HCM LOS | В | | | В | | | В | | | А | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 39% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 54% | 0% | 73% | 0% | 51% | 0% | 23% |
| Vol Right, % | 7% | 0% | 27% | 0% | 49% | 0% | 77% |
| Sign Control | Stop |
| Traffic Vol by Lane | 67 | 129 | 130 | 6 | 185 | 48 | 108 |
| LT Vol | 26 | 129 | 0 | 6 | 0 | 48 | 0 |
| Through Vol | 36 | 0 | 95 | 0 | 94 | 0 | 25 |
| RT Vol | 5 | 0 | 35 | 0 | 91 | 0 | 83 |
| Lane Flow Rate | 86 | 148 | 149 | 7 | 228 | 63 | 142 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.152 | 0.256 | 0.229 | 0.013 | 0.347 | 0.116 | 0.22 |
| Departure Headway (Hd) | 6.36 | 6.218 | 5.522 | 6.322 | 5.468 | 6.624 | 5.575 |
| Convergence, Y/N | Yes |
| Сар | 564 | 578 | 651 | 567 | 658 | 542 | 644 |
| Service Time | 4.395 | 3.946 | 3.249 | 4.051 | 3.197 | 4.355 | 3.305 |
| HCM Lane V/C Ratio | 0.152 | 0.256 | 0.229 | 0.012 | 0.347 | 0.116 | 0.22 |
| HCM Control Delay | 10.5 | 11.1 | 9.9 | 9.1 | 11.1 | 10.2 | 9.9 |
| HCM Lane LOS | В | В | А | А | В | В | А |
| HCM 95th-tile Q | 0.5 | 1 | 0.9 | 0 | 1.5 | 0.4 | 0.8 |

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
|------------------------|-------|------------------|------|------|------------------|-------|------|------------------|------|------|------------------|------|--|
| | LDL | | LDIX | VVDL | | VUDIN | NDL | | NDI | JDL | | SDIV | |
| Lane Configurations | | - (} | | | - 4 > | | | - 4 > | | | - (} | | |
| Traffic Vol, veh/h | 15 | 52 | 48 | 6 | 44 | 4 | 27 | 4 | 10 | 2 | 4 | 5 | |
| Future Vol, veh/h | 15 | 52 | 48 | 6 | 44 | 4 | 27 | 4 | 10 | 2 | 4 | 5 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None | |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - | |
| Veh in Median Storage | , # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 83 | 83 | 83 | 85 | 85 | 85 | 78 | 78 | 78 | 39 | 39 | 39 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 18 | 63 | 58 | 7 | 52 | 5 | 35 | 5 | 13 | 5 | 10 | 13 | |

| Major/Minor | Major1 | | 1 | Major2 | | | Minor1 | | I | Mi | nor2 | nor2 |
|----------------------|--------|-------|------|--------|-----|------|--------|-------|-------|-------|------|-------|
| Conflicting Flow All | 57 | 0 | 0 | 121 | 0 | 0 | 208 | 199 | 92 | 20 |)6 | 6 226 |
| Stage 1 | - | - | - | - | - | - | 128 | 128 | - | 69 | | 69 |
| Stage 2 | - | - | - | - | - | - | 80 | 71 | - | 137 | | 157 |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | | 6.52 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | | 5.52 |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5 | 5.52 |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.0 | 18 |
| Pot Cap-1 Maneuver | 1547 | - | - | 1467 | - | - | 749 | 697 | 965 | 752 | 67 | 3 |
| Stage 1 | - | - | - | - | - | - | 876 | 790 | - | 941 | 837 | |
| Stage 2 | - | - | - | - | - | - | 929 | 836 | - | 866 | 768 | |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1547 | - | - | 1467 | - | - | 721 | 684 | 965 | 728 | 661 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 721 | 684 | - | 728 | 661 | |
| Stage 1 | - | - | - | - | - | - | 865 | 780 | - | 929 | 833 | |
| Stage 2 | - | - | - | - | - | - | 901 | 832 | - | 838 | 758 | |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 1 | | | 0.8 | | | 10.1 | | | 9.7 | | |
| HCM LOS | | | | | | | В | | | А | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt N | IBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | |
| Capacity (veh/h) | | 764 | 1547 | - | - | 1467 | - | - | 801 | | | |

| HCM Lane V/C Ratio | 0.069 (| 0.012 | - | - (| .005 | - | - (| 0.035 | |
|-----------------------|---------|-------|---|-----|------|---|-----|-------|--|
| HCM Control Delay (s) | 10.1 | 7.4 | 0 | - | 7.5 | 0 | - | 9.7 | |
| HCM Lane LOS | В | Α | А | - | А | А | - | А | |
| HCM 95th %tile Q(veh) | 0.2 | 0 | - | - | 0 | - | - | 0.1 | |

| Int Delay, s/veh | 3.2 | | | | | |
|------------------------|-------|------|------|------|------|--------------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | 4 | | | ا |
| Traffic Vol, veh/h | 12 | 20 | 30 | 15 | 9 | 22 |
| Future Vol, veh/h | 12 | 20 | 30 | 15 | 9 | 22 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | , # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 14 | 24 | 35 | 18 | 11 | 26 |

| Major/Minor | Minor1 | Ν | 1ajor1 | Ν | 1ajor2 | |
|----------------------|--------|-------|--------|---|--------|---|
| Conflicting Flow All | 92 | 44 | 0 | 0 | 53 | 0 |
| Stage 1 | 44 | - | - | - | - | - |
| Stage 2 | 48 | - | - | - | - | - |
| 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 | 1026 | - | - | 1553 | - |
| Stage 1 | 978 | - | - | - | - | - |
| Stage 2 | 974 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 902 | 1026 | - | - | 1553 | - |
| Mov Cap-2 Maneuver | 902 | - | - | - | - | - |
| Stage 1 | 978 | - | - | - | - | - |
| Stage 2 | 967 | - | - | - | - | - |
| | | | | | | |
| Approach | \\/D | | ND | | CD | |

| Approach | WB | NB | SB | |
|----------------------|-----|----|-----|--|
| HCM Control Delay, s | 8.8 | 0 | 2.1 | |
| HCM LOS | Α | | | |

| Minor Lane/Major Mvmt | NBT | NBRWE | 3Ln1 | SBL | SBT |
|-----------------------|-----|-------|------|-------|-----|
| Capacity (veh/h) | - | - | 976 | 1553 | - |
| HCM Lane V/C Ratio | - | - 0 | .039 | 0.007 | - |
| HCM Control Delay (s) | - | - | 8.8 | 7.3 | 0 |
| HCM Lane LOS | - | - | А | А | Α |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - |

| Int Delay, s/veh | 3.1 | | | | | | |
|------------------------|------|------|----------|------|------|------|---|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | • |
| Lane Configurations | Y | | el el | | | र्भ | |
| Traffic Vol, veh/h | 35 | 13 | 32 | 45 | 6 | 28 | |
| Future Vol, veh/h | 35 | 13 | 32 | 45 | 6 | 28 | j |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free |) |
| RT Channelized | - | None | - | None | - | None | ļ |
| Storage Length | 0 | - | - | - | - | - | |
| Veh in Median Storage | ,# 0 | - | 0 | - | - | 0 | |
| Grade, % | 0 | - | 0 | - | - | 0 | |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 41 | 15 | 38 | 53 | 7 | 33 | |

| Major/Minor | Minor1 | Ν | lajor1 | Ν | lajor2 | |
|----------------------|--------|-------|--------|---|--------|---|
| Conflicting Flow All | 112 | 65 | 0 | 0 | 91 | 0 |
| Stage 1 | 65 | - | - | - | - | - |
| Stage 2 | 47 | - | - | - | - | - |
| 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 | 885 | 999 | - | - | 1504 | - |
| Stage 1 | 958 | - | - | - | - | - |
| Stage 2 | 975 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 881 | 999 | - | - | 1504 | - |
| Mov Cap-2 Maneuver | 881 | - | - | - | - | - |
| Stage 1 | 958 | - | - | - | - | - |
| Stage 2 | 970 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |

| Approach | WB | NB | SB | |
|----------------------|-----|----|-----|--|
| HCM Control Delay, s | 9.2 | 0 | 1.3 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBT | NBRV | VBLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 910 | 1504 | - |
| HCM Lane V/C Ratio | - | - | 0.062 | 0.005 | - |
| HCM Control Delay (s) | - | - | 9.2 | 7.4 | 0 |
| HCM Lane LOS | - | - | А | А | Α |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0 | - |

Intersection Delay, s/veh Intersection LOS

veh 22.5 C

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ۳. | f) | | ሻ | 4 | | | 4 | | ٦. | 4Î | |
| Traffic Vol, veh/h | 67 | 263 | 22 | 6 | 327 | 48 | 74 | 28 | 17 | 108 | 31 | 140 |
| Future Vol, veh/h | 67 | 263 | 22 | 6 | 327 | 48 | 74 | 28 | 17 | 108 | 31 | 140 |
| Peak Hour Factor | 0.74 | 0.94 | 0.74 | 0.71 | 0.94 | 0.71 | 0.83 | 0.83 | 0.83 | 0.76 | 0.76 | 0.76 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 91 | 280 | 30 | 8 | 348 | 68 | 89 | 34 | 20 | 142 | 41 | 184 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 19.3 | | | 34.3 | | | 15.6 | | | 15.2 | | |
| HCM LOS | С | | | D | | | С | | | С | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 62% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 24% | 0% | 92% | 0% | 87% | 0% | 18% |
| Vol Right, % | 14% | 0% | 8% | 0% | 13% | 0% | 82% |
| Sign Control | Stop |
| Traffic Vol by Lane | 119 | 67 | 285 | 6 | 375 | 108 | 171 |
| LT Vol | 74 | 67 | 0 | 6 | 0 | 108 | 0 |
| Through Vol | 28 | 0 | 263 | 0 | 327 | 0 | 31 |
| RT Vol | 17 | 0 | 22 | 0 | 48 | 0 | 140 |
| Lane Flow Rate | 143 | 91 | 310 | 8 | 415 | 142 | 225 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.332 | 0.196 | 0.622 | 0.018 | 0.82 | 0.322 | 0.442 |
| Departure Headway (Hd) | 8.345 | 7.809 | 7.239 | 7.713 | 7.108 | 8.168 | 7.065 |
| Convergence, Y/N | Yes |
| Сар | 429 | 458 | 498 | 463 | 507 | 439 | 509 |
| Service Time | 6.437 | 5.58 | 5.01 | 5.479 | 4.873 | 5.939 | 4.836 |
| HCM Lane V/C Ratio | 0.333 | 0.199 | 0.622 | 0.017 | 0.819 | 0.323 | 0.442 |
| HCM Control Delay | 15.6 | 12.5 | 21.3 | 10.6 | 34.8 | 14.8 | 15.4 |
| HCM Lane LOS | С | В | С | В | D | В | С |
| HCM 95th-tile Q | 1.4 | 0.7 | 4.2 | 0.1 | 8 | 1.4 | 2.2 |

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
|------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|
| Lane Configurations | | 4 | | | 4 | | | 4 | | | 4 | | Ī |
| Traffic Vol, veh/h | 4 | 395 | 35 | 6 | 519 | 3 | 57 | 1 | 5 | 7 | 4 | 14 | |
| Future Vol, veh/h | 4 | 395 | 35 | 6 | 519 | 3 | 57 | 1 | 5 | 7 | 4 | 14 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None | |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - | |
| Veh in Median Storage | , # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 78 | 94 | 78 | 66 | 94 | 66 | 85 | 85 | 85 | 78 | 78 | 78 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 5 | 420 | 45 | 9 | 552 | 5 | 67 | 1 | 6 | 9 | 5 | 18 | |

| Major/Minor | Major1 | | 1 | Major2 | | | Minor1 | | ļ | Minor2 | | | |
|----------------------|--------|-------|-----|--------|-----|-----|--------|-------|-------|--------|------|-------|--|
| Conflicting Flow All | 557 | 0 | 0 | 465 | 0 | 0 | 1037 | 1028 | 443 | 1029 | 1048 | 555 | |
| Stage 1 | - | - | - | - | - | - | 453 | 453 | - | 573 | 573 | - | |
| Stage 2 | - | - | - | - | - | - | 584 | 575 | - | 456 | 475 | - | |
| 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 | - | - | | 4.018 | 3.318 | 3.518 | | 3.318 | |
| Pot Cap-1 Maneuver | 1014 | - | - | 1096 | - | - | 209 | 234 | 615 | 212 | 228 | 531 | |
| Stage 1 | - | - | - | - | - | - | 586 | 570 | - | 505 | 504 | - | |
| Stage 2 | - | - | - | - | - | - | 498 | 503 | - | 584 | 557 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | | - | - | 1096 | - | - | 196 | 230 | 615 | 206 | 224 | 531 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 196 | 230 | - | 206 | 224 | - | |
| Stage 1 | - | - | - | - | - | - | 582 | 566 | - | 501 | 498 | - | |
| Stage 2 | - | - | - | - | - | - | 470 | 497 | - | 573 | 553 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0.1 | | | 0.1 | | | 31.6 | | | 17.5 | | | |
| HCM LOS | | | | | | | D | | | С | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt N | IBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBI | WBR S | SBLn1 | |
|-----------------------|-------|-------|-----|-----|-------|-----|-------|-------|--|
| Capacity (veh/h) | 208 | 1014 | - | - | 1096 | - | - | 320 | |
| HCM Lane V/C Ratio | 0.356 | 0.005 | - | - | 800.0 | - | - | 0.1 | |
| HCM Control Delay (s) | 31.6 | 8.6 | 0 | - | 8.3 | 0 | - | 17.5 | |
| HCM Lane LOS | D | А | А | - | А | А | - | С | |
| HCM 95th %tile Q(veh) | 1.5 | 0 | - | - | 0 | - | - | 0.3 | |

| Int Delay, s/veh | 0.3 | | | | | |
|------------------------|------|------|----------|------|------|------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | el el | | | र्भ |
| Traffic Vol, veh/h | 1 | 1 | 42 | 1 | 2 | 55 |
| Future Vol, veh/h | 1 | 1 | 42 | 1 | 2 | 55 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | ,#0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 1 | 49 | 1 | 2 | 65 |

| Major/Minor | Minor1 | Ν | /lajor1 | Ν | /lajor2 | |
|----------------------|--------|-------|---------|---|---------|---|
| Conflicting Flow All | 119 | 50 | 0 | 0 | 50 | 0 |
| Stage 1 | 50 | - | - | - | - | - |
| Stage 2 | 69 | - | - | - | - | - |
| 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 | 877 | 1018 | - | - | 1557 | - |
| Stage 1 | 972 | - | - | - | - | - |
| Stage 2 | 954 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 876 | 1018 | - | - | 1557 | - |
| Mov Cap-2 Maneuver | 876 | - | - | - | - | - |
| Stage 1 | 972 | - | - | - | - | - |
| Stage 2 | 953 | - | - | - | - | - |
| | | | | | | |
| | | | | | | |

| Approach | WB | NB | SB | |
|----------------------|-----|----|-----|--|
| HCM Control Delay, s | 8.8 | 0 | 0.3 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBT | NBRV | VBLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 942 | 1557 | - |
| HCM Lane V/C Ratio | - | - | 0.002 | 0.002 | - |
| HCM Control Delay (s) | - | - | 8.8 | 7.3 | 0 |
| HCM Lane LOS | - | - | А | А | Α |
| HCM 95th %tile Q(veh) | - | - | 0 | 0 | - |

| Int Delay, s/veh | 0.2 | | | | | |
|------------------------|-------|------|------|------|------|------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | et - | | | ÷ |
| Traffic Vol, veh/h | 2 | 0 | 43 | 4 | 1 | 55 |
| Future Vol, veh/h | 2 | 0 | 43 | 4 | 1 | 55 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | , # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 0 | 51 | 5 | 1 | 65 |

| Major/Minor | Minor1 | Ν | 1ajor1 | Ν | /lajor2 | |
|----------------------|--------|-------|--------|---|---------|---|
| Conflicting Flow All | 121 | 54 | 0 | 0 | 56 | 0 |
| Stage 1 | 54 | - | - | - | - | - |
| Stage 2 | 67 | - | - | - | - | - |
| 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 | 874 | 1013 | - | - | 1549 | - |
| Stage 1 | 969 | - | - | - | - | - |
| Stage 2 | 956 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 873 | 1013 | - | - | 1549 | - |
| Mov Cap-2 Maneuver | 873 | - | - | - | - | - |
| Stage 1 | 969 | - | - | - | - | - |
| Stage 2 | 955 | - | - | - | - | - |
| | | | | | | |
| | | | | | | |

| Approach | WB | NB | SB |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 9.1 | 0 | 0.1 |
| HCM LOS | Α | | |

| Minor Lane/Major Mvmt | NBT | NBRV | VBLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 873 | 1549 | - |
| HCM Lane V/C Ratio | - | - | 0.003 | 0.001 | - |
| HCM Control Delay (s) | - | - | 9.1 | 7.3 | 0 |
| HCM Lane LOS | - | - | Α | А | Α |
| HCM 95th %tile Q(veh) | - | - | 0 | 0 | - |

Intersection Delay, s/veh Intersection LOS

16.6

С

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ٦ | eî | | ٦ | el 🗧 | | | \$ | | ٦. | ef 🔰 | |
| Traffic Vol, veh/h | 139 | 146 | 35 | 8 | 132 | 107 | 26 | 42 | 6 | 90 | 47 | 121 |
| Future Vol, veh/h | 139 | 146 | 35 | 8 | 132 | 107 | 26 | 42 | 6 | 90 | 47 | 121 |
| Peak Hour Factor | 0.87 | 0.94 | 0.87 | 0.83 | 0.94 | 0.83 | 0.78 | 0.78 | 0.78 | 0.45 | 0.45 | 0.45 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 160 | 155 | 40 | 10 | 140 | 129 | 33 | 54 | 8 | 200 | 104 | 269 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 14.2 | | | 16.9 | | | 12.9 | | | 18.5 | | |
| HCM LOS | В | | | С | | | В | | | С | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 35% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 57% | 0% | 81% | 0% | 55% | 0% | 28% |
| Vol Right, % | 8% | 0% | 19% | 0% | 45% | 0% | 72% |
| Sign Control | Stop |
| Traffic Vol by Lane | 74 | 139 | 181 | 8 | 239 | 90 | 168 |
| LT Vol | 26 | 139 | 0 | 8 | 0 | 90 | 0 |
| Through Vol | 42 | 0 | 146 | 0 | 132 | 0 | 47 |
| RT Vol | 6 | 0 | 35 | 0 | 107 | 0 | 121 |
| Lane Flow Rate | 95 | 160 | 196 | 10 | 269 | 200 | 373 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.205 | 0.341 | 0.381 | 0.021 | 0.522 | 0.409 | 0.657 |
| Departure Headway (Hd) | 7.788 | 7.673 | 7.022 | 7.811 | 6.976 | 7.36 | 6.338 |
| Convergence, Y/N | Yes |
| Сар | 460 | 468 | 512 | 458 | 517 | 492 | 575 |
| Service Time | 5.843 | 5.418 | 4.766 | 5.556 | 4.721 | 5.06 | 4.038 |
| HCM Lane V/C Ratio | 0.207 | 0.342 | 0.383 | 0.022 | 0.52 | 0.407 | 0.649 |
| HCM Control Delay | 12.9 | 14.4 | 14 | 10.7 | 17.1 | 15.1 | 20.3 |
| HCM Lane LOS | В | В | В | В | С | С | С |
| HCM 95th-tile Q | 0.8 | 1.5 | 1.8 | 0.1 | 3 | 2 | 4.8 |

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Lane Configurations | | 4 | | | 4 | | | 4 | | | 4 | | |
| Traffic Vol, veh/h | 8 | 486 | 67 | 10 | 416 | 2 | 29 | 2 | 10 | 3 | 5 | 6 | |
| Future Vol, veh/h | 8 | 486 | 67 | 10 | 416 | 2 | 29 | 2 | 10 | 3 | 5 | 6 | |
| 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 | - | - | - | - | - | - | - | - | - | - | - | - | |
| Veh in Median Storage, | # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 61 | 94 | 61 | 94 | 94 | 94 | 78 | 78 | 78 | 78 | 78 | 78 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 13 | 517 | 110 | 11 | 443 | 2 | 37 | 3 | 13 | 4 | 6 | 8 | |

| Major/Minor | Major1 | | Ν | Major2 | | | Minor1 | | l | Minor2 | | | |
|----------------------|--------|-------|-----|--------|-----|-----|--------|-------|-------|--------|-------|------|--|
| Conflicting Flow All | 445 | 0 | 0 | 627 | 0 | 0 | 1071 | 1065 | 572 | 1072 | 1119 | 444 | |
| Stage 1 | - | - | - | - | - | - | 598 | 598 | - | 466 | 466 | - | |
| Stage 2 | - | - | - | - | - | - | 473 | 467 | - | 606 | 653 | - | |
| 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 | - | - | 0.010 | 4.018 | 3.318 | 3.518 | 4.018 | | |
| Pot Cap-1 Maneuver | 1115 | - | - | 955 | - | - | 198 | 223 | 520 | 198 | 207 | 614 | |
| Stage 1 | - | - | - | - | - | - | 489 | 491 | - | 577 | 562 | - | |
| Stage 2 | - | - | - | - | - | - | 572 | 562 | - | 484 | 464 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1115 | - | - | 955 | - | - | 186 | 216 | 520 | 187 | 200 | 614 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 186 | 216 | - | 187 | 200 | - | |
| Stage 1 | - | - | - | - | - | - | 480 | 482 | - | 567 | 554 | - | |
| Stage 2 | - | - | - | - | - | - | 550 | 554 | - | 461 | 456 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0.2 | | | 0.2 | | | 26.2 | | | 18.9 | | | |
| HCM LOS | • | | | | | | D | | | С | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt N | IBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |

| Minor Lane/Major Mvmt | NBLn1 | EBL | FRI | EBK | WBL | WBI | WBR (| SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-------|-------|
| Capacity (veh/h) | 222 | 1115 | - | - | 955 | - | - | 276 |
| HCM Lane V/C Ratio | 0.237 | 0.012 | - | - | 0.011 | - | - | 0.065 |
| HCM Control Delay (s) | 26.2 | 8.3 | 0 | - | 8.8 | 0 | - | 18.9 |
| HCM Lane LOS | D | А | А | - | А | А | - | С |
| HCM 95th %tile Q(veh) | 0.9 | 0 | - | - | 0 | - | - | 0.2 |

| Int Delay, s/veh | 1.3 | | | | | |
|------------------------|------|------|------|------|------|--------------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | ef 👘 | | | ا |
| Traffic Vol, veh/h | 9 | 10 | 44 | 8 | 8 | 99 |
| Future Vol, veh/h | 9 | 10 | 44 | 8 | 8 | 99 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | ,# 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 11 | 12 | 52 | 9 | 9 | 116 |

| Major/Minor | Minor1 | Ν | 1ajor1 | N | Major2 | |
|----------------------|--------|-------|--------|---|--------|---|
| Conflicting Flow All | 191 | 57 | 0 | 0 | 61 | 0 |
| Stage 1 | 57 | - | - | - | - | - |
| Stage 2 | 134 | - | - | - | - | - |
| 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 | 798 | 1009 | - | - | 1542 | - |
| Stage 1 | 966 | - | - | - | - | - |
| Stage 2 | 892 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 793 | 1009 | - | - | 1542 | - |
| Mov Cap-2 Maneuver | 793 | - | - | - | - | - |
| Stage 1 | 966 | - | - | - | - | - |
| Stage 2 | 887 | - | - | - | - | - |
| | | | | | | |
| | | | | | | |

| Approach | WB | NB | SB |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 9.1 | 0 | 0.5 |
| HCM LOS | А | | |

| Minor Lane/Major Mvmt | NBT | NBRV | /BLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 894 | 1542 | - |
| HCM Lane V/C Ratio | - | - | 0.025 | 0.006 | - |
| HCM Control Delay (s) | - | - | 9.1 | 7.3 | 0 |
| HCM Lane LOS | - | - | А | Α | Α |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - |

| Int Delay, s/veh | 1.7 | | | | | |
|------------------------|------|------|------|------|------|---------------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | et – | | | با |
| Traffic Vol, veh/h | 28 | 7 | 45 | 23 | 5 | 103 |
| Future Vol, veh/h | 28 | 7 | 45 | 23 | 5 | 103 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | ,#0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 8 | 53 | 27 | 6 | 121 |

| Major/Minor | Minor1 | Ν | lajor1 | Ν | lajor2 | |
|----------------------|--------|-------|--------|---|--------|---|
| Conflicting Flow All | 200 | 67 | 0 | 0 | 80 | 0 |
| Stage 1 | 67 | - | - | - | - | - |
| Stage 2 | 133 | - | - | - | - | - |
| 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 | 789 | 997 | - | - | 1518 | - |
| Stage 1 | 956 | - | - | - | - | - |
| Stage 2 | 893 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 786 | 997 | - | - | 1518 | - |
| Mov Cap-2 Maneuver | 786 | - | - | - | - | - |
| Stage 1 | 956 | - | - | - | - | - |
| Stage 2 | 889 | - | - | - | - | - |
| | | | | | | |
| A | | | | | 00 | |

| Approach | WB | NB | SB | |
|----------------------|-----|----|-----|--|
| HCM Control Delay, s | 9.6 | 0 | 0.3 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBT | NBRW | /BLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 821 | 1518 | - |
| HCM Lane V/C Ratio | - | - | 0.05 | 0.004 | - |
| HCM Control Delay (s) | - | - | 9.6 | 7.4 | 0 |
| HCM Lane LOS | - | - | А | Α | Α |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0 | - |

Intersection Delay, s/veh Intersection LOS

```
reh 11.3
B
```

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ٦ | ¢Î | | ٦ | ef 👘 | | | \$ | | ٦. | ef 🔰 | |
| Traffic Vol, veh/h | 129 | 141 | 41 | 9 | 140 | 91 | 30 | 36 | 7 | 48 | 25 | 83 |
| Future Vol, veh/h | 129 | 141 | 41 | 9 | 140 | 91 | 30 | 36 | 7 | 48 | 25 | 83 |
| Peak Hour Factor | 0.87 | 0.94 | 0.87 | 0.81 | 0.94 | 0.81 | 0.78 | 0.78 | 0.78 | 0.76 | 0.76 | 0.76 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 148 | 150 | 47 | 11 | 149 | 112 | 38 | 46 | 9 | 63 | 33 | 109 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 11.1 | | | 12.3 | | | 11 | | | 10.4 | | |
| HCM LOS | В | | | В | | | В | | | В | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 41% | 100% | 0% | 100% | 0% | 100% | 0% |
| Vol Thru, % | 49% | 0% | 77% | 0% | 61% | 0% | 23% |
| Vol Right, % | 10% | 0% | 23% | 0% | 39% | 0% | 77% |
| Sign Control | Stop |
| Traffic Vol by Lane | 73 | 129 | 182 | 9 | 231 | 48 | 108 |
| LT Vol | 30 | 129 | 0 | 9 | 0 | 48 | 0 |
| Through Vol | 36 | 0 | 141 | 0 | 140 | 0 | 25 |
| RT Vol | 7 | 0 | 41 | 0 | 91 | 0 | 83 |
| Lane Flow Rate | 94 | 148 | 197 | 11 | 261 | 63 | 142 |
| Geometry Grp | 4b | 5 | 5 | 5 | 5 | 5 | 5 |
| Degree of Util (X) | 0.172 | 0.261 | 0.311 | 0.02 | 0.412 | 0.121 | 0.23 |
| Departure Headway (Hd) | 6.609 | 6.341 | 5.675 | 6.457 | 5.671 | 6.882 | 5.83 |
| Convergence, Y/N | Yes |
| Сар | 542 | 566 | 633 | 554 | 635 | 520 | 615 |
| Service Time | 4.662 | 4.08 | 3.413 | 4.197 | 3.41 | 4.628 | 3.576 |
| HCM Lane V/C Ratio | 0.173 | 0.261 | 0.311 | 0.02 | 0.411 | 0.121 | 0.231 |
| HCM Control Delay | 11 | 11.3 | 11 | 9.3 | 12.4 | 10.6 | 10.3 |
| HCM Lane LOS | В | В | В | А | В | В | В |
| HCM 95th-tile Q | 0.6 | 1 | 1.3 | 0.1 | 2 | 0.4 | 0.9 |

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
|------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|--|
| Lane Configurations | | 4 | | | 4 | | | 4 | | | 4 | | |
| Traffic Vol, veh/h | 15 | 632 | 48 | 7 | 436 | 4 | 27 | 4 | 11 | 2 | 4 | 5 | |
| Future Vol, veh/h | 15 | 632 | 48 | 7 | 436 | 4 | 27 | 4 | 11 | 2 | 4 | 5 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None | |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - | |
| Veh in Median Storage | , # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 85 | 94 | 85 | 85 | 94 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 18 | 672 | 56 | 8 | 464 | 5 | 32 | 5 | 13 | 2 | 5 | 6 | |

| Major/Minor | Major1 | | N | Major2 | | | Minor1 | | I | Minor2 | | | |
|----------------------|--------|-------|-----|--------|-----|-----|--------|-------|-------|--------|-------|-------|--|
| Conflicting Flow All | 469 | 0 | 0 | 728 | 0 | 0 | 1224 | 1221 | 700 | 1228 | 1247 | 467 | |
| Stage 1 | - | - | - | - | - | - | 736 | 736 | - | 483 | 483 | - | |
| Stage 2 | - | - | - | - | - | - | 488 | 485 | - | 745 | 764 | - | |
| 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 | - | - | 0.0.0 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | |
| Pot Cap-1 Maneuver | 1093 | - | - | 876 | - | - | 156 | 180 | 439 | 155 | 173 | 596 | |
| Stage 1 | - | - | - | - | - | - | 411 | 425 | - | 565 | 553 | - | |
| Stage 2 | - | - | - | - | - | - | 561 | 552 | - | 406 | 413 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1093 | - | - | 876 | - | - | 146 | 173 | 439 | 143 | 166 | 596 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 146 | 173 | - | 143 | 166 | - | |
| Stage 1 | - | - | - | - | - | - | 399 | 413 | - | 549 | 546 | - | |
| Stage 2 | - | - | - | - | - | - | 544 | 545 | - | 379 | 401 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0.2 | | | 0.2 | | | 32.4 | | | 21.1 | | | |
| HCM LOS | | | | | | | D | | | С | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt N | IBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |

| Minor Lane/Major Mvmt | NBLn1 | EBL | FRI | EBR | WBL | WBI | WBK : | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-------|-------|
| Capacity (veh/h) | 180 | 1093 | - | - | 876 | - | - | 237 |
| HCM Lane V/C Ratio | 0.275 | 0.016 | - | - | 0.009 | - | - | 0.055 |
| HCM Control Delay (s) | 32.4 | 8.3 | 0 | - | 9.1 | 0 | - | 21.1 |
| HCM Lane LOS | D | Α | А | - | А | А | - | С |
| HCM 95th %tile Q(veh) | 1.1 | 0 | - | - | 0 | - | - | 0.2 |

| Int Delay, s/veh | 3.2 | | | | | |
|------------------------|-------|------|------|------|------|--------------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | 4 | | | ا |
| Traffic Vol, veh/h | 12 | 20 | 31 | 15 | 9 | 23 |
| Future Vol, veh/h | 12 | 20 | 31 | 15 | 9 | 23 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | , # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 14 | 24 | 36 | 18 | 11 | 27 |

| Major/Minor | Minor1 | Ν | 1ajor1 | Ν | lajor2 | |
|----------------------|--------|-------|--------|---|--------|---|
| Conflicting Flow All | 94 | 45 | 0 | 0 | 54 | 0 |
| Stage 1 | 45 | - | - | - | - | - |
| Stage 2 | 49 | - | - | - | - | - |
| 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 | 906 | 1025 | - | - | 1551 | - |
| Stage 1 | 977 | - | - | - | - | - |
| Stage 2 | 973 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 900 | 1025 | - | - | 1551 | - |
| Mov Cap-2 Maneuver | 900 | - | - | - | - | - |
| Stage 1 | 977 | - | - | - | - | - |
| Stage 2 | 966 | - | - | - | - | - |
| | | | | | | |
| A | | | | | 00 | |

| Approach | WB | NB | SB | |
|----------------------|-----|----|-----|--|
| HCM Control Delay, s | 8.8 | 0 | 2.1 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBT | NBRV | VBLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 974 | 1551 | - |
| HCM Lane V/C Ratio | - | - | 0.039 | 0.007 | - |
| HCM Control Delay (s) | - | - | 8.8 | 7.3 | 0 |
| HCM Lane LOS | - | - | А | А | А |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - |

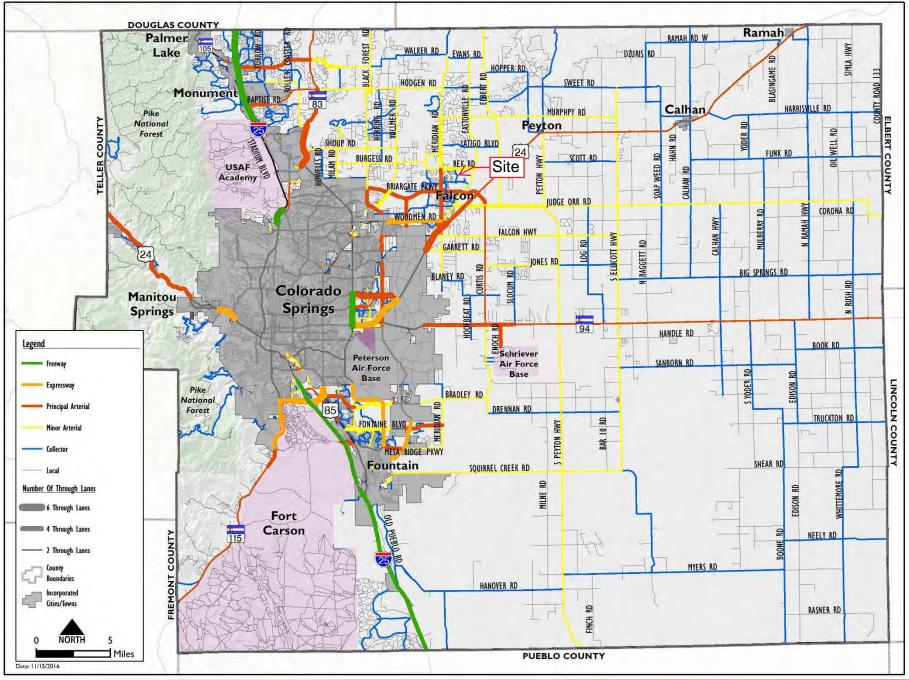
| Int Delay, s/veh | 3 | | | | | |
|------------------------|------|------|----------|------|------|------|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | el el | | | र्च |
| Traffic Vol, veh/h | 35 | 13 | 33 | 45 | 6 | 29 |
| Future Vol, veh/h | 35 | 13 | 33 | 45 | 6 | 29 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | ,# 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 41 | 15 | 39 | 53 | 7 | 34 |

| Major/Minor | Minor1 | Ν | lajor1 | Ν | /lajor2 | |
|----------------------|--------|-------|--------|---|---------|---|
| Conflicting Flow All | 114 | 66 | 0 | 0 | 92 | 0 |
| Stage 1 | 66 | - | - | - | - | - |
| Stage 2 | 48 | - | - | - | - | - |
| 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 | 882 | 998 | - | - | 1503 | - |
| Stage 1 | 957 | - | - | - | - | - |
| Stage 2 | 974 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 878 | 998 | - | - | 1503 | - |
| Mov Cap-2 Maneuver | 878 | - | - | - | - | - |
| Stage 1 | 957 | - | - | - | - | - |
| Stage 2 | 969 | - | - | - | - | - |
| | | | | | | |
| Annroach | WR | | NR | | SB | |

| Approach | WB | NB | SB | |
|----------------------|-----|----|-----|--|
| HCM Control Delay, s | 9.2 | 0 | 1.3 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBT | NBRV | VBLn1 | SBL | SBT |
|-----------------------|-----|------|-------|-------|-----|
| Capacity (veh/h) | - | - | 908 | 1503 | - |
| HCM Lane V/C Ratio | - | - | 0.062 | 0.005 | - |
| HCM Control Delay (s) | - | - | 9.2 | 7.4 | 0 |
| HCM Lane LOS | - | - | А | А | Α |
| HCM 95th %tile Q(veh) | - | - | 0.2 | 0 | - |

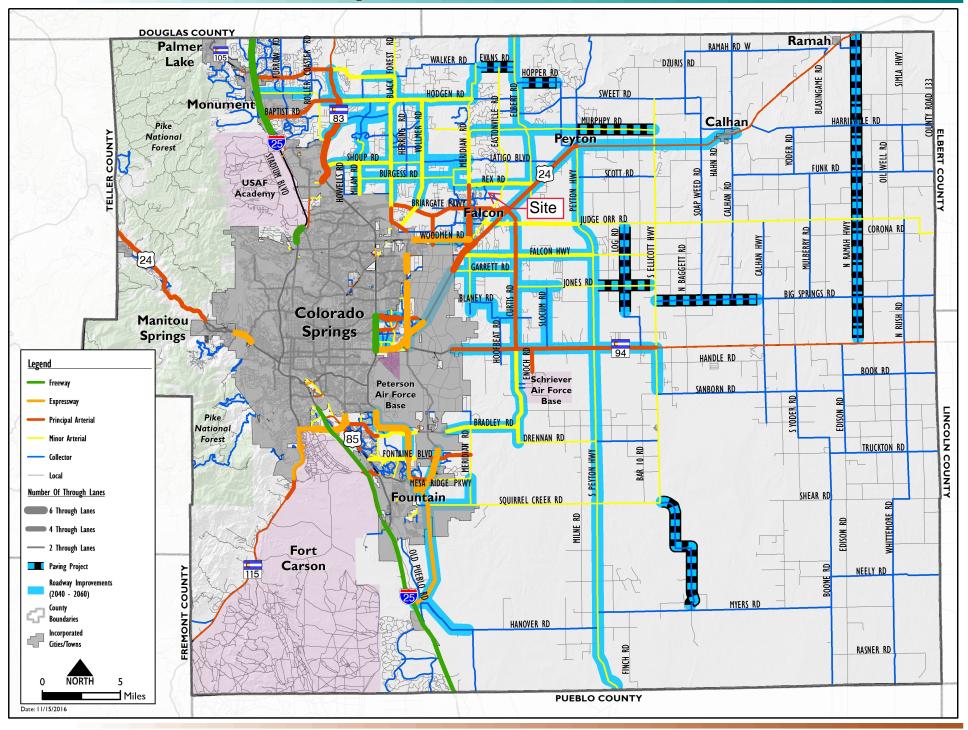




Map 14: 2040 Roadway Plan (Classification and Lanes)



Map 17: 2060 Corridor Preservation

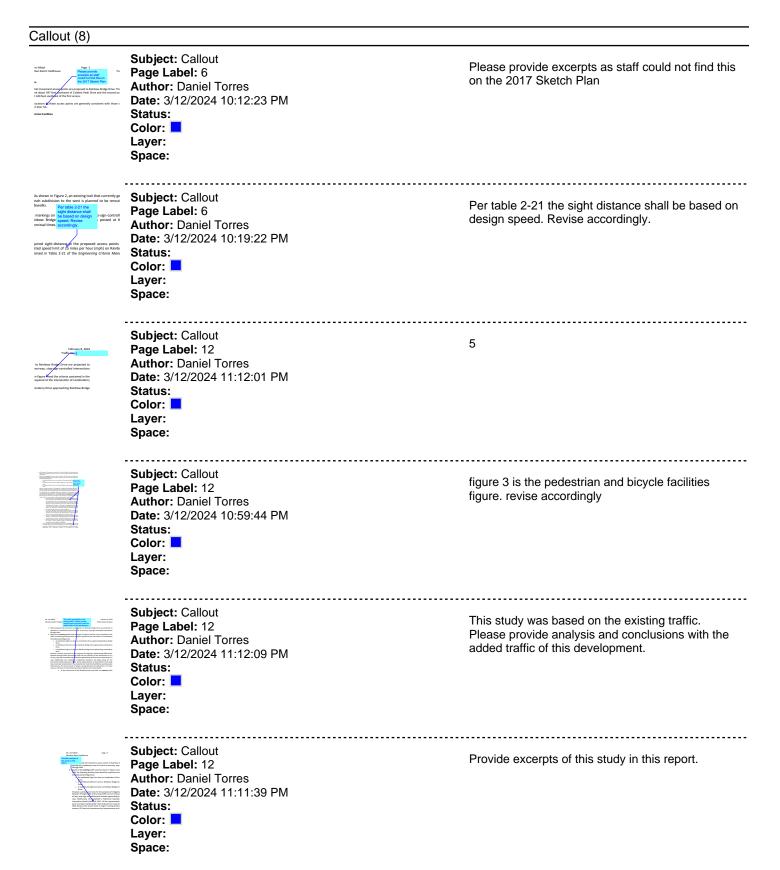




Appendix Table 1 Area Trafffic Impact Studies by LSC Meridian Ranch Field House

| Study | Date |
|---|---|
| 4-Way Ranch/Waterbury | |
| 4-Way Ranch Updated TIA | January 29, 2009 |
| Waterbury PUD Development Plan Updated TIA | January 10, 2013 |
| Waterbury Filing Nos. 1 and 2 TIA | December 18, 2020 |
| 4-Way Ranch Commercial Master Traffic Impact Analysis | December 20, 2022 |
| 4-Way Ranch Commercial Phase 1 Traffic Technical Memorandum | November 30, 2022 |
| | 100000000000000000000000000000000000000 |
| Meridian Ranch | |
| Meridian Ranch Sketch Plan TIA | April 11, 2011 |
| Meridian Ranch Filing 11 Updated TIA | November 26, 2013 |
| Stonebridge at Meridian Ranch Filing No. 1 Updated TIA | April 23, 2014 |
| Stonebridge at Meridian Ranch Transportation Memorandum | July 28, 2015 |
| Meridian Ranch Filing 8 Updated TIA | December 23, 2014 |
| Meridian Ranch Filing 9 Updated TIA | May 21, 2015 |
| Meridian Ranch Sketch Plan 2015 Amendment TIA | July 30, 2015 |
| The Vistas at Meridian Ranch TIA | March 24, 2016 |
| Meridian Ranch Estates Filing No. 2 Transportation Memorandum | August 27, 2015 |
| The Vistas at Meridian Ranch Updated Transportation Memorandum | June 20, 2017 |
| Londonderry Drive Pedestrian Operations and Safety Study | February 8, 2017 |
| Stonebridge Filing 3 at Meridian Ranch Updated TIA | March 20, 2017 |
| Meridian Ranch Sketch Plan 2017 Amendment TIA | October 3, 2017 |
| WindingWalk at Meridian Ranch and The Enclave at Stonebridge at Meridian Ranch Updated Traffic Impact Analysis | May 10, 2018 |
| Rolling Hills Ranch at Meridian Ranch PUDSP Traffic Impact Analysis | June 29, 2020 |
| The Estates at Rolling Hills Ranch Filing No. 1 Traffic Impact Analysis | May 13, 2020 |
| Rolling Hills Ranch at Meridian Ranch Filing No. 1 Traffic Impact Analysis | July 14, 2020 |
| The Estates at Rolling Hills Ranch Filing No. 2 Traffic Impact Study | October 8, 2020 |
| Rolling Hills Ranch at Meridian Ranch Filing No. 2 Transportation Memorandum | December 29, 2020 |
| Rolling Hills Ranch at Meridian Ranch Filing No. 3 Transportation Memorandum | June 29, 2021 |
| Meridian Ranch 2021 Sketch Plan Amendment Traffic Impact Study | June 25, 2021 |
| The Sanctuary at Meridian Ranch Transportation Memorandum | May 3, 2021 |
| Rolling Hills Ranch North PUD Transportation Memorandum | October 30, 2023 |
| Koning Hins Kanen North FOD Transportation Memorandum | October 50, 2025 |
| Grandview Reserve | |
| Grandview Reserve Updated Master TIA | December 5, 2020 |
| Grandview Reserve Phase 1 TIA | May 9, 2022 |
| Grandview Reserve Phases 2 and 3 TIA | December 21, 2022 |
| Meadowlake Ranch | |
| Meadowlake Ranch Traffic Impact Analysis | May 29, 2019 |
| Latigo Preserve | |
| Latigo Preserve Filing No. 10 | March 31, 2022 |
| Source: LSC Transportation Consultants, Inc. | Dec-23 |

V1_Traffic Memo.pdf Markup Summary



| <text></text> | Subject: Callout Page Label: 12 Author: Daniel Torres Date: 3/12/2024 11:32:37 PM Status: Color: Layer: Space: | The addition of a southbound right turn along Rainbow Bridge approching Londonderry would result in a crossing less than the north/south crossing of Londonderry. Provide justification for not providing a right turn due to this developments traffic impacts. |
|--|--|---|
| Analysis of the state is the st | Subject: Callout Page Label: 9 Author: Daniel Torres Date: 3/12/2024 11:29:17 PM Status: Color: Layer: Space: | Please be sure to include Sanctuary and Rolling Hills Ranch North in your background traffic. Sanctuary is already approved and Rolling Ranch PUDSP will be going to hearing soon. |
| Engineer (12) | | |
| Val 2 Percentice - Reservance regeneration Reservance Reservance regeneration Reservance Reservance regeneration Reservance Reservance Reservance | Subject: Engineer Page Label: 15 Author: Bret Date: 3/4/2024 10:47:52 AM Status: Color: Color: Color: Color: Space: | Morning Peak-Hour Rates and Trips Generated do not match, please revise |
| 0.60 0.39 | Subject: Engineer Page Label: 15 Author: Bret Date: 3/4/2024 10:48:10 AM Status: Color: Layer: Space: | 1.26 0.65 |
| 5 3 1 0 | Subject: Engineer Page Label: 15 Author: Bret Date: 3/4/2024 10:48:13 AM Status: Color: Layer: Space: | 53 |
| 0.65 | Subject: Engineer Page Label: 15 Author: Bret Date: 3/4/2024 10:48:14 AM Status: Color: Layer: Space: | 0 |

| 0.65 | Subject: Engineer Page Label: 15 Author: Bret Date: 3/4/2024 10:48:25 AM Status: Color: Layer: Space: | 0 |
|---|--|--|
| 1.26 0.65 0.60 0.39 1.37 0.30 | Subject: Engineer Page Label: 15 Author: Bret Date: 3/4/2024 10:48:30 AM Status: Color: Layer: Space: | 1.26 0.65 |
| 53 0 | Subject: Engineer Page Label: 15 Author: Bret Date: 3/4/2024 10:48:45 AM Status: Color: Layer: Space: | 53 |
| letted for Eastonville Road by Wilson & USE AND ACCESS USE Add discussion of school sites within 2 miles e 1 shows the site location. The site for sf a district-owned 19-acre parcel (EPC | Subject: Engineer Page Label: 5 Author: Bret Date: 3/4/2024 3:34:03 PM Status: Color: Layer: Space: | Add discussion of school sites within 2 miles |
| Bread tasks when mana 7 as 20 We know when the Net standard with t | Subject: Engineer Page Label: 23 Author: Bret Date: 3/4/2024 4:20:10 PM Status: Color: Layer: Space: | Should these values match? 6.25? Which roadway is this information for? |
| 5% 75% 6.75% 4.5% | Subject: Engineer Page Label: 23 Author: Bret Date: 3/4/2024 3:53:39 PM Status: Color: Layer: Space: | |



Subject: Engineer Page Label: 23 Author: Bret Date: 3/4/2024 3:53:41 PM Status: Color: Layer: Space:



Subject: Engineer Page Label: 23 Author: Bret Date: 3/4/2024 4:33:09 PM Status: Color: Layer: Space:

AM and PM Peak hour distribution does not add to 100%

Text Box (4)



Subject: Text Box Page Label: 1 Author: Daniel Torres Date: 3/12/2024 10:02:03 PM Status: Color: Layer: Space:

Subject: Text Box

Author: Daniel Torres

Date: 3/12/2024 11:31:58 PM

Page Label: 8

Status:

Space:

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Please add PCD File No. PPR246

Identify why Londonderry/Lambert intersection was not included in the analysis. Also Sunrise Ridge and Rex Road as this intersection appears to be the quickest route for Sanctuary & Rolling hills Ranch North subdivisions. Be sure to include their traffic in your analysis and update the distribution of traffic accordingly.

Please identify whether any changes to the

needed.

existing left turn lanes at this intersection are

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analysis procedures fro

Layer: Space: Subject: Text Box Page Label: 12 Author: Daniel Torres Date: 3/12/2024 11:10:46 PM Status: Color:

Layer:

see comments regarding analyzing the two other intersections along Londonderry and Rex Rd and provide auxiliary lane analysis accordingly.

lumes shown in Figure 9 and the criteria es are required on Rainbow Bridge Drive

Subject: Text Box Page Label: 13 Author: Daniel Torres Date: 3/12/2024 11:34:06 PM Status: Color: Layer: Space: