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## Traffic Study

Signorello Estate Winery P19-00198-MOD
Planning Commission Hearing Date December 16, 2020

# FINAL TRAFFIC IMPACT REPORT 

# SIGNORELLO WINERY USE PERMIT MODIFICATION 2020 

4500 Silverado Trail (APN 020-350-042-000)
Project No. P18-00359

April 29, 2020

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## I. INTRODUCTION

This report has been prepared at the request of the Signorello Winery to determine whether expanded activities at the winery as detailed in their 2020 use permit modification application will result in any significant circulation impacts to the local roadway network. The project site is located on the east side of Silverado Trail just south of the Oak Knoll Avenue intersection. (See Figure 1 Regional Map, Figure 2 Site Specific Air Photo and Figure 3a \& 3b Site Plans.) The scope of analysis includes evaluation of Silverado Trail as well as the Silverado Trail intersections with Oak Knoll Avenue, Trancas Street and the Project Driveway for harvest Year 2019, Year 2025 and cumulative (Year 2030) horizons. The scope of service for this traffic study was developed for and approved by both the Napa County Public Works Department and the Planning, Building \& Environmental Sciences Department.

## II. EXECUTIVE SUMMARY OF PROJECT IMPACTS AND RECOMMENDED IMPROVEMENTS

## A. IMPACTS

## 1. PROPOSED PROJECT HARVEST FRIDAY \& SATURDAY PM PEAK HOUR TRIP GENERATION

| PM PEAK HOUR TRIPS |  |
| :---: | :---: |
| HARVEST FRIDAY | HARVEST SATURDAY |
| 14 | 15 |

## 2. SIGNIFICANCE OF PROJECT IMPACTS

a. Intersection Level of Service (Silverado Trail at Oak Knoll Avenue, Trancas Street and the Project Driveway)

- Less than significant
b. Arterial Level of Service (Silverado Trail)
- Significant - South of Project Site. Cumulative only.
- Less than significant - North of Project Site all years and south of Project Site for Existing \& 2025 conditions.
c. Need for Left Turn Lane on Silverado Trail at the Project Driveway Intersection
- Less than significant - A left turn lane is already in place.
d. Sight Line Adequacy at Silverado Trail/Project Driveway Intersection
- Less than significant - Sight lines meet Caltrans stopping sight distance criteria.
e. Marketing Events
- Less than significant - There are no changes in the marketing event program. In addition, for all medium size events being held 2 or more times per month, daily visitors by appointment will be reduced by at least the same number of guests at the marketing event.
f. Pedestrian, bicycle and transit impacts
- Less than significant - There are no pedestrian walkways or transit facilities along Silverado Trail. Bike racks will be provided for all employees or guests using the bike lanes along the roadway.
g. Parking \& Internal Circulation
- Less than significant - A total of 19 parking stalls will be provided. This will include 3 ADA stalls and 3 electric vehicle charging stalls, one of which is an ADA stall. Parking stall layout and internal roadway design meet County and CAL FIRE criteria.
h. TDM Program and VMT Reduction
- Less than significant - A TDM coordinator will be appointed to reduce traffic generation potential for daily employee traffic as well as to promote shuttle buses for all medium and large size marketing events. A TDM plan is attached.


## B. RECOMMENDED IMPROVEMENTS

The project should pay the County's off-site traffic impact fee, currently in development, as there are no realistic capacity improvement measures for Silverado Trail that could be the responsibility of a single project.

## III. SUMMARY OF "WITHOUT AND WITH PROJECT" OPERATING CONDITIONS

## A. "WITHOUT PROJECT" OPERATING CONDITIONS

## 1. INTERSECTION LEVEL OF SERVICE

a. Silverado Trail/Oak Knoll Avenue - Stop sign controlled approach

- Friday PM Peak Hour

Existing, Year 2025 \& Cumulative (2030) - Unacceptable

- Saturday PM Peak Hour

Existing, Year 2025 \& Cumulative (2030) - Acceptable
b. Silverado Trail/Trancas Street - Signal

- Friday \& Saturday PM Peak Hours

Existing, Year 2025 \& Cumulative (2030) - Acceptable
c. Silverado Trail/Project Driveway - Driveway approach

- Friday \& Saturday PM Peak Hours

Existing, Year 2025 \& Cumulative (2030) - Acceptable

## 2. ARTERIAL LEVEL OF SERVICE

a. Silverado Trail North and South of Project Site

- Friday PM Peak Hour

Existing, Year 2025 \& Cumulative (2030)
Southbound - Unacceptable
Northbound - Acceptable

- Saturday PM Peak Hour

Existing \& Year 2025
North of Oak Knoll Avenue -
Southbound - Unacceptable
Northbound - Acceptable
South of Oak Knoll Avenue -
Southbound - Acceptable
Northbound - Acceptable
Cumulative (2030)
North of Oak Knoll Avenue -
Southbound - Unacceptable
Northbound - Acceptable
South of Oak Knoll Avenue -
Southbound - Unacceptable near site, Acceptable near Trancas Street
Northbound - Acceptable

## 3. INTERSECTIONS WITH VOLUMES MEETING RURAL PEAK HOUR SIGNAL WARRANT \#3 CRITERIA

## a. Silverado Trail/Oak Knoll Avenue

- Existing, 2025 \& Cumulative (2030) - Friday \& Saturday PM peak hour volumes meet rural signal Warrant \#3 criteria.


## 4. LEFT TURN LANE VOLUME WARRANT ON SILVERADO TRAIL SOUTHBOUND APPROACH TO THE PROJECT DRIVEWAY

- A left turn lane is already provided.


## B. PROJECT IMPACTS

## 1. OFF-SITE

## a. INTERSECTION LEVEL OF SERVICE IMPACTS Friday \& Saturday PM Peak Hours

1) Silverado Trail/Oak Knoll Avenue - Less than significant

- Existing, Year 2025 or Cumulative (2030) - Project traffic would not increase delay by 5 seconds or greater on the stop sign controlled Oak Knoll Avenue approach to Silverado Trail, which would already be operating at an unacceptable LOS E or F during the Friday PM peak hour. Operation during the Saturday PM peak hour would remain acceptable during all horizons.

2) Silverado Trail/Trancas Street - Less than significant

- Existing, Year 2025 \& Cumulative (2030) - Signalized operation would remain an acceptable LOS B.

3) Silverado Trail/Project Driveway - Less than significant

- Existing, Year 2025 \& Cumulative (2030) - Unsignalized operation would remain an acceptable LOS B or C.


## b. ARTERIAL LEVEL OF SERVICE IMPACTS Friday \& Saturday PM Peak Hours

## 1) Silverado Trail

- Existing \& Year 2025-Less than significant. Project traffic would not increase 2 -way volumes by $1 \%$ or greater along the segments of Silverado Trail already operating unacceptably at LOS E during the Friday and Saturday PM peak hours.
- Cumulative (2030) - Potentially significant. Project traffic would not increase the growth in 2-way traffic from 2019 to 2030 north of Oak Knoll Avenue by 5\% or greater which would already be operating unacceptably at LOS E during either the Friday or Saturday PM peak hours. However, project traffic would result in a greater than 5\% increase in the growth of traffic from 2019 to 2030 south of the Project at locations already operating unacceptably at LOS E during both the Friday and Saturday PM peak hours.


## c. NEED FOR A LEFT TURN LANE ON SOUTHBOUND SILVERADO TRAIL APPPOACH TO PROJECT DRIVEWAY Less than significant. <br> A left turn lane is already provided on the southbound Silverado Trail approach.

d. SIGHT LINES AT SILVERADO TRAIL/PROJECT DRIVEWAY INTERSECTION - Less than significant.
Sight lines would continue to meet minimum Caltrans stopping sight distance criteria.
e. MARKETING EVENTS - Less than significant.

No new marketing events are requested. On days with moderate size events occurring 2 or more times per month daily visitation by appointment would be reduced by the level of attendance at the marketing event. Valet parking and shuttle bus service will be provided for major events.

## f. PEDESTRIAN, BICYCLE AND TRANSIT IMPACTS - <br> Less than significant.

No pedestrians or transit riders would be expected at the winery as there are no pedestrian facilities or transit routes along Silverado Trail. Bike racks would be provided for any bicyclists accessing the winery via the Class II bicycle lanes along Silverado Trail.

## g. ON-SITE PARKING \& INTERNAL CIRCULATION Less than significant.

A total of 19 parking stalls will be provided. This will include 3 ADA stalls and 3 Electric vehicle charging stalls, one of which is an ADA stall. Parking stall layout and internal roadway design meet County and CAL FIRE criteria.
h. TDM PROGRAM AND VMT REDUCTION - Less than significant. A TDM coordinator will be appointed to reduce traffic generation potential for daily employee traffic as well as to promote shuttle buses for all medium and large size marketing events. A TDM plan is attached.

## C. RECOMMENDED IMPROVEMENTS

The project should pay the County's off-site traffic impact fee, currently in development, as there are no realistic capacity improvement measures for Silverado Trail that could be the responsibility of a single project.

## D. CONCLUSIONS \& RECOMMENDATIONS

- The project will result in no significant off-site circulation system operational impacts to the Silverado Trail intersections with Oak Knoll Avenue, Trancas Street or the Project driveway. In addition, there will be no significant impacts to Silverado Trail for existing or 2025 conditions. However, project traffic will result in a significant impact along Silverado Trail south of the project during the cumulative (2030) horizon.
- A left turn lane is already provided on the southbound approach to the Project driveway and sight lines are acceptable and meet Caltrans stopping sight distance criteria at this location. Bicycle racks will be provided for all guests using the Class II bicycle lanes along Silverado Trail for access.
- No new marketing events are being proposed and on days with recurring moderate size attendance daily visitation by appointment will be reduced by the same number of guests attending the event. Finally, a TDM coordinator will be appointed to institute measures to reduce daily employee traffic as well as increase limousine and shuttle bus service for major marketing events.
- The project will pay the County's upcoming traffic impact fee to offset its cumulative impact along Silverado Trail.


## IV. PROJECT LOCATION \& DESCRIPTION

The Signorello Winery is located along the east side of Silverado Trail just south of the Oak Knoll intersection.

The proposed use permit modification winery will have the following characteristics:

- Production will increase from 20,000 up to 50,000 gallons per year.
- Bottling will remain on site.
- Non-harvest maximum employee total will increase from 4 full-time and 0 part-time up to 16 full-time/0 part-time (weekday) and 11 full-time/0 part-time (Saturday).
- Harvest maximum employee total of 4 full-time/0 part-time will increase up to 16 fulltime/4 part-time (weekday) and 11 full-time/4 part-time (Saturday).
- Maximum daily visitation will increase from 20 up to 60 guests.
- Tours and tasting will remain 7 days/week, 10:00 AM-6:00 PM.
- Marketing events: No new events requested.
- A total of 19 parking spaces will be provided, including 3 ADA and 3 Electric vehicle spaces.
- On-site circulation and parking will be designed to meet County and CAL FIRE criteria.


## V. EXISTING CIRCULATION SYSTEM EVALUATION PROCEDURES

## A. ANALYSIS LOCATIONS

## 1. INTERSECTIONS

The following locations have been evaluated.
a. Silverado Trail/Oak Knoll Avenue intersection (The Oak Knoll Avenue eastbound approach is stop sign controlled.)
b. Silverado Trail/Trancas Street intersection (The intersection is signalized.)
c. Silverado Trail/Project Driveway intersection (The Project driveway approach is not stop sign controlled. However, drivers approaching Silverado Trail treat it as if it was stop sign controlled.)

Figure 4 presents a schematic of approach lane geometrics and control at each analysis intersection.

## 2. ARTERIAL ROADWAY SEGMENTS

The following locations have been evaluated.
a. Silverado Trail just north of Oak Knoll Avenue, just south of the Project driveway and just north of Trancas Street

## B. VOLUMES

## 1. ANALYSIS SEASONS AND DAYS OF THE WEEK

Project traffic impacts have been evaluated during harvest conditions. Based upon more than four years of historical information from Caltrans PeMS (Performance Measurement System) count surveys along Silverado Trail in the Napa Valley, September has the highest daily volumes of the year (during harvest). Therefore, only September harvest conditions were selected for evaluation.

In regard to the peak traffic days of the week, the Napa County Travel Behavioral Study (Fehr \& Peers, December 8, 2014) shows that the highest weekday volumes in Napa Valley occur on a Friday, with the highest weekend volumes occurring on a Saturday. In addition, historical count data from the City of Napa show that Friday has the highest volumes of any weekday, while Caltrans historical counts for Silverado Trail between St. Helena and Napa also show that weekday AM and PM peak hour volumes are higher on a Friday than on either a Wednesday or Thursday. Therefore, Friday and Saturday peak traffic conditions were evaluated in this study. Napa County Public Works recent direction regarding days of the week to evaluate also dictate that harvest Friday and Saturday conditions should be evaluated in all traffic impact studies.

## 2. COUNT RESULTS

Friday 2:00 to 6:00 PM as well as Saturday Noon to 6:00 PM turn movement counts were conducted by Crane Transportation Group (CTG) for two Fridays and two Saturdays in September and October 2019 at the Silverado Trail intersections with Oak Knoll Avenue, Trancas Street and the Project driveway. The peak traffic hours for the system were determined to be $3: 15$ to $4: 15$ PM on Friday and 4:45 to 5:45 PM on Saturday. It should be noted, however, that there were many hours on both days that had similar volumes. Based upon direction from County Public Works, results from the two Friday counts were averaged and the results shown in Figure 5, while results from the two Saturday counts were also averaged and also shown in Figure 5. Peak hour counts from each count day along with daily counts, speed survey results and classification counts are presented in Appendix A.
Overall, harvest PM peak hour two-way volumes along Silverado Trail at the Project site are much higher during the Friday PM peak hour than those during the Saturday PM peak hour (about 1350 vehicles on Friday versus 1040 vehicles on Saturday).

Daily (24-hour) directional volumes were also conducted for two Fridays and two Saturdays in September and October on the Project driveway and Silverado Trail adjacent to the project site. Daily speed surveys and classification counts were also conducted on Silverado Trail on a clear weather Friday/Saturday at the end of January 2020. Count results are presented in Appendix A.

## C. ROADWAYS

Roadway descriptions are based upon the designation that Silverado Trail runs in general northsouth direction through the project area, while Oak Knoll Avenue, Trancas Street and the Project driveway run in an east-west direction. The project site is along the east side of Silverado Trail just south of Oak Knoll Avenue. Figure 4 presents existing intersection geometrics and control.

Silverado Trail provides the only major regional access to the east side of the Napa Valley. In the project vicinity it has two well-paved travel lanes, wide paved shoulders that are signed and striped as Class II bicycle lanes, and a posted speed limit of 55 miles per hour. It is level and straight. A left turn lane is in place on the northbound approach to Oak Knoll Avenue and on the southbound approach to the project driveway. A median continuous two-way left turn lane extends south of the project driveway and facilitates left turns from the project driveway. The Silverado Trail/Trancas Street T-intersection just north of the City of Napa is signalized.

The Project Driveway is a two-lane paved roadway. It is not stop sign controlled on its approach to Silverado Trail.

## D. INTERSECTION LEVEL OF SERVICE

## 1. ANALYSIS METHODOLOGY

Transportation engineers and planners commonly use a grading system called level of service (LOS) to measure and describe the operational status of the local roadway network. LOS is a description of the quality of a roadway facility's operation, ranging from LOS A (indicating free-flow traffic conditions with little or no delay) to LOS F (representing oversaturated conditions where traffic flows exceed design capacity, resulting in long queues and delays). Intersections, rather than roadway segments between intersections, are almost always the capacity controlling locations for any circulation system.

Signalized Intersections. For signalized intersections, the Year 2017 6th Edition Highway Capacity Manual (Transportation Research Board, National Research Council) methodology was utilized. With this methodology, operations are defined by the level of service and average
control delay per vehicle (measured in seconds) for the entire intersection. For a signalized intersection, control delay is the portion of the total delay attributed to traffic signal operation. This includes delay associated with deceleration, acceleration, stopping, and moving up in the queue. Table 1 summarizes the relationship between delay and LOS for signalized intersections.

Unsignalized Intersections. For unsignalized (all-way stop-controlled and side-street stopcontrolled) intersections, the Year 2017 6th Edition Highway Capacity Manual (Transportation Research Board, National Research Council) methodology for unsignalized intersections was utilized. For side-street stop-controlled intersections, operations are defined by the level of service and average control delay per vehicle (measured in seconds), with delay reported for the stop sign controlled approaches or turn movements. For all-way stop-controlled intersections, operations are defined by the average control delay for the entire intersection (measured in seconds per vehicle). The delay at an unsignalized intersection incorporates delay associated with deceleration, acceleration, stopping, and moving up in the queue. Table 2 summarizes the relationship between delay and LOS for unsignalized intersections and capacity worksheets are provided in Appendix B.

## 2. MINIMUM ACCEPTABLE OPERATION

Napa County's currently minimum acceptable operating standard for signalized intersections is Level of Service D (LOS D) for overall intersection operation, while at unsignalized intersections it is also Level of Service D for the side street stop sign controlled approaches at two-way stop intersections and for overall operation at all-way-stop intersections.

## E. ARTERIAL LEVEL OF SERVICE

## 1. ANALYSIS METHODOLOGY

The 2017 Highway Capacity Manual Version 6 arterial analysis methodology has been utilized for analysis of Silverado Trail from Trancas Street to north of Oak Knoll Avenue. Analysis results are presented as a level of service and demand capacity ratio. Input includes directional volumes, road and shoulder widths, percent trucks and RVs, terrain characteristics, percent available passing distance, etc.

## 2. MINIMUM ACCEPTABLE OPERATION

Napa County's currently minimum acceptable operating standard for arterials such as Silverado Trail is Level of Service D (LOS D).

## F. INTERSECTION SIGNAL WARRANTS

## 1. ANALYSIS METHODOLOGY

Traffic signals are used to provide an orderly flow of traffic through an intersection. Many times they are needed to offer side street traffic an opportunity to access a major road where high volumes and/or high vehicle speeds block crossing or turn movements. They do not, however, increase the capacity of an intersection (i.e., increase the overall intersection's ability to
accommodate additional vehicles) and, in fact, often slightly reduce the number of total vehicles that can pass through an intersection in a given period of time. Signals can also cause an increase in traffic accidents if installed at inappropriate locations

There are 10 possible tests for determining whether a traffic signal should be considered for installation. These tests, called "warrants", consider criteria such as actual traffic volume, pedestrian volume, presence of school children, and accident history. The intersection volume data together with the available collision histories were compared to warrants contained in the California Manual on Uniform Traffic Control Devices, 2014 Rev 5 (2014 CaMUTCD Rev 5 March 2020). It provides guidelines, or warrants, which may indicate need for a traffic signal at an unsignalized intersection. As indicated in the 2014 CaMUTCD Rev 5 - March 2020, satisfaction of one or more warrants does not necessarily require immediate installation of a traffic signal. It is merely an indication that the local jurisdiction should begin monitoring conditions at that location and that a signal may ultimately be required.

## 2. MINIMUM ACCEPTABLE OPERATION

Warrant 3, the peak hour volume warrant, is often used as an initial check of signalization needs since peak hour volume data is typically available and this warrant is usually the first one to be met. Warrant 3 is based on a logarithmic curve and takes only the hour with the highest volume of the day into account. For intersections in rural locations (with local area population less than 10,000 people or where the posted speed limit or 85 th percentile speed on the uncontrolled intersection approaches is greater than 40 miles per hour) a 70 percent warrant is applied. The regular and 70 percent warrants are typically referred to as the urban and rural peak hour warrants. Rural warrant criteria have been used for evaluation of the Silverado Trail/Oak Knoll Avenue intersection. Please see Appendix C for the existing condition warrant charts.

## G. PLANNED IMPROVEMENTS

There are no planned and funded roadway system capacity improvements at any location evaluated in this study. (Napa County Public Works Department, January 2020)

## H. ACCIDENT HISTORY

Accident records from January 2014 through October 2019 were obtained from the California Highway Patrol for Silverado Trail between and including the Oak Knoll Avenue and Trancas Street intersections. Locations of all accidents over this time span are presented in Figure 6, while year by year accident details are presented in Appendix D. As shown, there have not been any reported accidents at the Silverado Trail intersection with the Project driveway.

## I. EXISTING PEDESTRIAN AND BICYCLE FACILITIES NEAR THE PROJECT

There are no pedestrian walkways along Silverado Trail in the project area and none are planned by the project. However, there are Class II signed and striped bicycle lanes along the paved shoulders of Silverado Trail.

## J. TRANSIT SERVICE

There is no scheduled transit service along Silverado Trail north of Trancas Street.

## VI. FUTURE HORIZON TRAFFIC VOLUME PROJECTIONS

Traffic analysis has been conducted for harvest existing (2019), year 2025 and cumulative (year 2030) horizons at County request. The 2030 cumulative horizon reflects the County General Plan Buildout year. Traffic modeling for the General Plan shows the following growths in two-way traffic between 2019 and 2030 for the following roadways.

## Route

Silverado Trail (5-mile segment)
Oak Knoll Avenue
Trancas Street

2019 to 2030 Projected Growth in 2-Way Weekday PM Peak Hour Traffic

PM peak hour $=11-13 \%$
PM peak hour $=11.6 \%$
PM peak hour $=8 \%$

Projecting straight line traffic growth for analysis purposes, this translates into the following growths in two-way traffic between 2019 and 2025 for the same roadways.

## Route

Silverado Trail (5-mile segment)
Oak Knoll Avenue
Trancas Street

2019 to 2025 Projected Growth in 2-Way Weekday PM Peak Hour Traffic

PM peak hour $=6.5-7.5 \%$
PM peak hour $=6.2 \%$
PM peak hour $=4.4 \%$

Since traffic modeling projections were only available for weekday PM peak hour conditions and not for the Saturday PM peak hour, Saturday two-way PM peak hour volumes were increased by the percentages found for the weekday PM peak hour.

Resultant year 2025 harvest "Without Project" Friday and Saturday PM peak hour volumes are presented in Figure 7, while cumulative (year 2030) harvest "Without Project" Friday and Saturday PM peak hour volumes are presented in Figure 8.

## VII. OFF-SITE HARVEST CIRCULATION SYSTEM OPERATION - WITHOUT PROJECT

## A. YEAR 2019 HARVEST (WITHOUT PROJECT) OPERATING CONDITIONS

## 1. EXISTING INTERSECTION LEVEL OF SERVICE SEE TABLE 3 AND APPENDIX B FOR CAPACITY WORKSHEETS

a. SILVERADO TRAIL/OAK KNOLL AVENUE

- Friday PM Peak Hour

Unacceptable Oak Knoll Avenue stop sign controlled eastbound approach:
LOS E

- Saturday PM Peak Hour

Acceptable Oak Knoll Avenue stop sign controlled eastbound approach: LOS C
b. SILVERADO TRAIL/TRANCAS STREET (SIGNAL)

- Friday \& Saturday PM Peak Hours

Acceptable signalized operation: LOS B
c. SILVERADO TRAIL/PROJECT DRIVEWAY

- Friday \& Saturday PM Peak Hours Acceptable Project driveway approach: LOS B or C

2. EXISTING ARTERIAL SEGMENT LEVEL OF SERVICE SEE TABLE 4
a. SILVERADO TRAIL JUST NORTH OF OAK KNOLL AVENUE

- Friday PM Peak Hour

Northbound - LOS C
Southbound-LOS E

- Saturday PM Peak Hour

Northbound - LOS B
Southbound - LOS E
b. SILVERADO TRAIL JUST SOUTH OF OAK KNOLL AVENUE

- Friday PM Peak Hour

Northbound - LOS C
Southbound - LOS E

- Saturday PM Peak Hour

Northbound - LOS B
Southbound - LOS D
c. SILVERADO TRAIL JUST NORTH OF TRANCAS STREET

- Friday PM Peak Hour

Northbound - LOS C
Southbound - LOS E

- Saturday PM Peak Hour

Northbound - LOS B
Southbound - LOS D
3. EXISTING SIGNAL WARRANT EVALUATION SEE TABLE 5 \& APPENDIX C
a. SILVERADO TRAIL/OAK KNOLL AVENUE

- Friday \& Saturday PM Peak Hours

Volumes exceed peak hour signal Warrant \#3 rural criteria.

## B. YEAR 2025 HARVEST (WITHOUT PROJECT) OPERATING CONDITIONS

1. 2025 INTERSECTION LEVEL OF SERVICE - SEE TABLE 3
a. SILVERADO TRAIL/OAK KNOLL AVENUE

- Friday PM Peak Hour Unacceptable Oak Knoll Avenue stop sign controlled eastbound approach: LOS E
- Saturday PM Peak Hour

Acceptable Oak Knoll Avenue stop sign controlled eastbound approach: LOS C
b. SILVERADO TRAIL/TRANCAS STREET (SIGNAL)

- Friday \& Saturday PM Peak Hours

Acceptable signalized operation: LOS B

## c. SILVERADO TRAIL/PROJECT DRIVEWAY

- Friday \& Saturday PM Peak Hours

Acceptable Project driveway approach: LOS B or C
2. 2025 ARTERIAL SEGMENT LEVEL OF SERVICE SEE TABLE 4
a. SILVERADO TRAIL JUST NORTH OF OAK KNOLL AVENUE

- Friday PM Peak Hour

Northbound - LOS C
Southbound - LOS E

- Saturday PM Peak Hour

Northbound - LOS B
Southbound - LOS E
b. SILVERADO TRAIL JUST SOUTH OF OAK KNOLL AVENUE

- Friday PM Peak Hour

Northbound - LOS C
Southbound - LOS E

- Saturday PM Peak Hour

Northbound - LOS B
Southbound - LOS D
c. SILVERADO TRAIL JUST NORTH OF TRANCAS STREET

- Friday PM Peak Hour

Northbound - LOS C
Southbound - LOS E

- Saturday PM Peak Hour

Northbound - LOS B
Southbound - LOS D

## 3. 2025 SIGNAL WARRANT EVALUATION - SEE TABLE 5

a. SILVERADO TRAIL/OAK KNOLL AVENUE

- Friday \& Saturday PM Peak Hours

Volumes would exceed peak hour signal Warrant \#3 rural criteria.

## C. CUMULATIVE (YEAR 2030) HARVEST (WITHOUT PROJECT) OPERATING CONDITIONS

1. 2030 INTERSECTION LEVEL OF SERVICE - SEE TABLE 3
a. SILVERADO TRAIL/OAK KNOLL AVENUE

- Friday PM Peak Hour Unacceptable Oak Knoll Avenue stop sign controlled eastbound approach: LOS F
- Saturday PM Peak Hour

Acceptable Oak Knoll Avenue stop sign controlled eastbound approach: LOS D
b. SILVERADO TRAIL/TRANCAS STREET (SIGNAL)

- Friday \& Saturday PM Peak Hours Acceptable signalized operation: LOS B
c. SILVERADO TRAIL/PROJECT DRIVEWAY
- Friday \& Saturday PM Peak Hours

Acceptable Project driveway approach: LOS B or C

## 2. 2030 ARTERIAL SEGMENT LEVEL OF SERVICE SEE TABLE 4

a. SILVERADO TRAIL JUST NORTH OF OAK KNOLL AVENUE

- Friday PM Peak Hour

Northbound - LOS C
Southbound - LOS E

- Saturday PM Peak Hour

Northbound - LOS B
Southbound - LOS E
b. SILVERADO TRAIL JUST SOUTH OF OAK KNOLL AVENUE

- Friday PM Peak Hour

Northbound - LOS C
Southbound - LOS E

- Saturday PM Peak Hour

Northbound - LOS B
Southbound - LOS E
c. SILVERADO TRAIL JUST NORTH OF TRANCAS STREET

- Friday PM Peak Hour

Northbound - LOS C
Southbound - LOS E

- Saturday PM Peak Hour

Northbound - LOS B
Southbound - LOS D

## 3. 2030 SIGNAL WARRANT EVALUATION - SEE TABLE 5

a. SILVERADO TRAIL/OAK KNOLL AVENUE

- Friday \& Saturday PM Peak Hours

Volumes would exceed peak hour signal Warrant \#3 rural criteria.

## VIII. SIGNIFICANCE CRITERIA

## A. COUNTY OF NAPA

The following criteria have recently been developed for traffic impact analyses in Napa County.

## EXISTING + PROJECT CONDITIONS

## 1. ARTERIAL SEGMENTS

A project would cause a significant impact requiring mitigation if:
a. An arterial segment operates at $\mathrm{LOS} \mathrm{A}, \mathrm{B}, \mathrm{C}$ or D during the selected peak hours without project trips, and deteriorates to LOS E or F with the addition of project trips, or
b. An arterial segment operates at LOS E or F during the selected peak hours without project trips, and the addition of project trips increases the total segment volume by one percent or more.

For the second criteria, the following equation should be used if the arterial operates at LOS E or F without the project:

Project Contribution \% = Project Trips $\div$ Existing Volumes

## 2. SIGNALIZED INTERSECTIONS

A project would cause a significant impact requiring mitigation if:
a. A signalized intersection operates at LOS A, B, C or D during the selected peak hours without project trips, and deteriorates to LOS E or F with the addition of project trips, or
b. A signalized intersection operates at LOS E or F during the selected peak hours without project trips, and the addition of project trips increases the total entering volume by one percent or more.

For the second criteria, the following equation should be used if the signalized intersection operates at LOS E or F without the project:

Project Contribution \% = Project Trips $\div$ Existing Volumes
Maintaining LOS D or better at all signalized intersections would sometimes require expanding the physical footprint of an intersection. In some locations around the County, expanding physical transportation infrastructure could be in direct conflict with the County's goals of preserving the area's rural character, improving safety, and sustaining the agricultural industry, making these potential improvements infeasible. The County's Circulation Element lists intersections that are slated for improvement or expansion in unincorporated Napa County. ${ }^{1}$

Transportation studies should individually consider the feasibility of potential mitigation measures with respect to right-of-way acquisition, regardless of the intersection's place in the Circulation Element's identified improvement lists, and present potential alternative mitigation measures that do not require right-of-way acquisition. County staff would then review that information and make the decision about the feasibility of the identified potential mitigations.

For intersections that cannot be improved without substantial additional right-of-way according to both the Circulation Element and the individual transportation impact study, and where other mitigations such as updating signal timing, signal phasing and operations, and/or signing and striping improvements do not improve the LOS, LOS E or F will be considered acceptable and the one percent threshold would not apply. Analysis of signalized intersection LOS should still be presented for informational purposes, and there should still be an evaluation of effects on safety and local access, per Policy CIR18.

[^0]
## 3. UNSIGNALIZED INTERSECTIONS (ALL WAY STOP AND SIDE STREET STOP SIGN CONTROLLED)

LOS for all way stop controlled intersections is defined as an average of the delay at all approaches. LOS for side street stop controlled intersections is defined by the delay and LOS for the worst case approach. The recommended interpretation of Policy CIR-16 regarding unsignalized intersection significance criteria is as follows:
a. An unsignalized intersection operates at LOS $\mathrm{A}, \mathrm{B}, \mathrm{C}$ or D during the selected peak hours without project trips, the LOS deteriorates to LOS E or F with the addition of project traffic, and the peak hour traffic signal warrant criteria should also be evaluated and presented for information purposes, or
b. An unsignalized intersection operates at LOS E or F during the selected peak hours without project trips and the project increases stop sign controlled delay by 5 seconds or greater. The peak hour traffic signal warrant criteria should also be evaluated and presented for informational purposes.

## Project Contribution \% = Project Trips $\div$ Existing Volumes

## CUMULATIVE + PROJECT CONDITIONS

## 1. ARTERIAL SEGMENTS, SIGNALIZED INTERSECTIONS AND UNSIGNALIZED INTERSECTIONS

A project would cause a significant cumulative impact requiring mitigation if:
a. The overall amount of expected traffic growth causes conditions to deteriorate such that any of the significance criteria described above for existing conditions are met, and
b. The project's contribution to a significant cumulative impact for arterials or signalized intersections would be equal to or greater than five percent of the growth in traffic from existing to cumulative conditions.
c. The project's contribution to a cumulative significant impact at an unsignalized intersection would result with an increase in stop sign controlled delay of 5 seconds or greater.

A project's contribution to a cumulative condition would be calculated as the project's percentage contribution to the total growth in traffic from existing conditions.

```
Project Contribution \% = Project Trips \(\div\) (Cumulative Volumes - Existing Volumes)
```

- If projected daily volumes on the project driveway in combination with volumes on the roadway providing access to the project driveway meet County warrant criteria for provision of a left turn lane on the approach to the project entrance.
- If sight lines at project access driveways do not meet Caltrans stopping sight distance criteria based upon prevailing vehicle speeds.


## IX. PROJECT IMPACT EVALUATION

## A. TRIP GENERATION

## 1. METHODOLOGY

Project trip generation was determined using one of the three possible methodologies recently approved by Napa County Public Works for transportation impact study analysis. As detailed from Public Works, perform a site-specific analysis by first conducting actual daily trip counts at the driveway of the project on two Fridays and two Saturdays (for winery use permit modifications). Next, determine the increment of net new daily traffic due to the use permit modification proposed project using trip rates from the use permit Winery Traffic Information/Trip Generation sheets. Based upon the two Friday and two Saturday 24-hour winery driveway counts, determine which hour on each day had the highest combined inbound + outbound traffic and determine the percent of total traffic occurring during those hours in relation to the daily counts. Apply these percentages to the net new Friday and Saturday daily traffic increments for the project to determine the amount of project traffic that would be expected to occur during the winery's peak traffic hour. Finally, assume that the winery's peak hourly traffic will occur at the time as the ambient peak traffic time on the adjacent roadway system.

Table 6 shows that the proposed use permit modification 2020 would be expected to generate 7 inbound and 7 outbound trips during a harvest Friday PM peak hour (3:15-4:15), with 4 inbound and 11 outbound trips during a harvest Saturday PM peak hour (4:45-5:45). Winery Traffic Information/Trip Generation sheets are presented in Appendix E.

## B. TRIP DISTRIBUTION

Project traffic was distributed to Silverado Trail in a pattern reflective of existing PM peak hour distribution patterns at the Silverado Trail/Project driveway intersection. Likewise, project traffic distribution at the Silverado Trail intersections with Trancas Street and Oak Knoll Avenue was based upon existing turn patterns. For the Friday PM peak hour inbound traffic would be expected to come about equally from the north and south, while the majority of outbound traffic would be expected to turn left to the south on Silverado Trail. For the Saturday PM peak hour inbound traffic would be expected to come about equally from the north and south, while the majority of outbound traffic would be expected to turn left to go southbound on Silverado Trail.

The harvest Friday and Saturday project traffic increments expected on Silverado Trail during the times of ambient peak traffic flows are presented in Figure 9. Friday and Saturday "With Project" PM peak hour harvest volumes for year 2019 are presented in Figure 10; "With Project" PM peak hour harvest volumes for year 2025 conditions are presented in Figure 11, and "With Project" PM peak hour harvest volumes for cumulative (year 2030) conditions are presented in Figure 12.

## C. OFF-SITE IMPACTS

## 1. EXISTING (2019) HARVEST + PROJECT CONDITIONS

## a. SUMMARY

Project traffic would not result in any significant level of service impacts along Silverado Trail or at the Silverado Trail intersections with Oak Knoll Avenue, Trancas Street or the Project driveway during either Friday or Saturday PM peak traffic hours. Less than significant.

## b. 2019 INTERSECTION LEVEL OF SERVICE IMPACTS SEE TABLE 3

1) Silverado Trail/Oak Knoll Avenue

- Friday PM Peak Hour

Operation of the stop sign controlled Oak Knoll Avenue intersection approach would remain an unacceptable LOS E with the addition of project traffic. However, delay would increase by less than 5 seconds ( 0.6 seconds), the County significance limit. Less than significant.

- Saturday PM Peak Hour Operation of the Oak Knoll Avenue approach would remain an acceptable LOS C with the addition of project traffic. Less than significant.

2) Silverado Trail/Trancas Street

## - Friday \& Saturday PM Peak Hours

Operation of the signalized Trancas Street intersection would remain an acceptable LOS B with the addition of project traffic. Less than significant.

## 3) Silverado Trail/Project Driveway

- Friday \& Saturday PM Peak Hours

Operation of the Project driveway approach to Silverado Trail would remain an acceptable LOS B or C with the addition of project traffic. Less than significant.
c. 2019 ARTERIAL SEGMENT IMPACTS - SEE TABLE 4

1) Silverado Trail North of Oak Knoll Avenue

- Friday PM Peak Hour

Operation would remain LOS C northbound and LOS E southbound.
The project would not increase total segment volumes by 1 percent or more (0.3\%). Less than significant.

- Saturday PM Peak Hour

Operation would remain LOS B northbound and LOS E southbound.
The project would not increase total segment volumes by 1 percent or more (0.4\%). Less than significant.
2) Silverado Trail South of the Project Site

- Friday PM Peak Hour

Operation would remain LOS C northbound and LOS E southbound. The project would not increase total segment volumes by 1 percent or more (0.7\%). Less than significant.

- Saturday PM Peak Hour

Operation would remain LOS B northbound and LOS D southbound. Less than significant.
3) Silverado Trail North of Trancas Street

- Friday PM Peak Hour

Operation would remain LOS C northbound and LOS E southbound. The project would not increase total segment volumes by 1 percent or more (0.7\%). Less than significant.

- Saturday PM Peak Hour

Operation would remain LOS B northbound and LOS D southbound. Less than significant.

## d. 2019 SIGNAL WARRANT EVALUATION - SEE TABLE 5

Signal warrant information is provided for informational purposes only per County significance criteria.

1) Silverado Trail/Oak Knoll Avenue

- Friday \& Saturday PM Peak Hours

Volumes would be exceeding rural peak hour signal warrant criteria with or without project traffic. Less than significant.

## 2. YEAR 2025 HARVEST + PROJECT CONDITIONS

## a. SUMMARY

Project traffic would not result in any significant level of service impacts along Silverado Trail or at the Silverado Trail intersections with Oak Knoll Avenue, Trancas Street or the Project driveway during either Friday or Saturday PM peak traffic hours. Less than significant.
b. 2025 INTERSECTION LEVEL OF SERVICE IMPACTS SEE TABLE 3

1) Silverado Trail/Oak Knoll Avenue

## - Friday PM Peak Hour

Operation of the stop sign controlled Oak Knoll Avenue intersection approach would remain an unacceptable LOS E with the addition of project traffic. However, delay would increase by less than 5 seconds ( 1.5 seconds), the County significance limit. Less than significant.

- Saturday PM Peak Hour Operation of the Oak Knoll Avenue approach would remain an acceptable LOS C with the addition of project traffic. Less than significant.

2) Silverado Trail/Trancas Street

## - Friday \& Saturday PM Peak Hours

Operation of the signalized Trancas Street intersection would remain an acceptable LOS B with the addition of project traffic. Less than significant.

## 3) Silverado Trail/Project Driveway

- Friday \& Saturday PM Peak Hours

Operation of the Project driveway approach to Silverado Trail would remain an acceptable LOS B or C with the addition of project traffic. Less than significant.
c. 2025 ARTERIAL SEGMENT IMPACTS - SEE TABLE 4

1) Silverado Trail North of Oak Knoll Avenue

- Friday PM Peak Hour

Operation would remain LOS C northbound and LOS E southbound. The project would not increase total segment volumes by 1 percent or more ( $0.3 \%$ ). Less than significant.

- Saturday PM Peak Hour

Operation would remain LOS B northbound and LOS E southbound. The project would not increase total segment volumes by 1 percent or more ( $0.4 \%$ ). Less than significant.
2) Silverado Trail South of the Project Site

- Friday PM Peak Hour

Operation would remain LOS C northbound and LOS E southbound. The project would not increase total segment volumes by 1 percent or more ( $0.7 \%$ ). Less than significant.

- Saturday PM Peak Hour

Operation would remain LOS B northbound and LOS D southbound. Less than significant.
3) Silverado Trail North of Trancas Street

- Friday PM Peak Hour

Operation would remain LOS C northbound and LOS E southbound. The project would not increase total segment volumes by 1 percent or more (0.7\%). Less than significant.

- Saturday PM Peak Hour

Operation would remain LOS B northbound and LOS D southbound. Less than significant.

## d. 2025 SIGNAL WARRANT EVALUATION - SEE TABLE 5

Signal warrant information is provided for informational purposes only per County significance criteria.

## 1) Silverado Trail/Oak Knoll Avenue

- Friday \& Saturday PM Peak Hours

Volumes would be exceeding rural peak hour signal warrant criteria with or without project traffic.

## 3. CUMULATIVE (YEAR 2030) HARVEST + PROJECT CONDITIONS

## a. SUMMARY

Project traffic, with one exception would not result in any significant level of service impacts along Silverado Trail or at the Silverado Trail intersections with Oak Knoll Avenue, Trancas Street or the Project Driveway either the Friday or Saturday PM peak traffic hours. The exception is a significant impact to arterial operation along Silverado Trail south of the project for the cumulative (2030) horizon. Potentially significant.

## b. 2030 INTERSECTION LEVEL OF SERVICE IMPACTS SEE TABLE 3

1) Silverado Trail/Oak Knoll Avenue

## - Friday PM Peak Hour

Operation of the stop sign controlled Oak Knoll Avenue intersection approach would remain an unacceptable LOS F with the addition of project traffic. However, delay would increase by less than 5 seconds ( 2.6 seconds), the County significance limit. Less than significant.

- Saturday PM Peak Hour Operation of the Oak Knoll Avenue approach would remain an acceptable LOS D with the addition of project traffic.
Less than significant.

2) Silverado Trail/Trancas Street

- Friday \& Saturday PM Peak Hours

Operation of the signalized Trancas Street intersection would remain an acceptable LOS B with the addition of project traffic.
Less than significant.

## 3) Silverado Trail/Project Driveway

- Friday \& Saturday PM Peak Hours

Operation of the Project driveway approach to Silverado Trail would remain an acceptable LOS B or C with the addition of project traffic. Less than significant.

## c. 2030 ARTERIAL SEGMENT IMPACTS - SEE TABLE 4

1) Silverado Trail North of Oak Knoll Avenue

- Friday PM Peak Hour

Operation would remain LOS C northbound and LOS E southbound. The project would not increase the change in two-way segment volumes between 2019 and 2030 by 5 percent or more ( $2.6 \%$ ). Less than significant.

- Saturday PM Peak Hour

Operation would remain LOS B northbound and LOS E southbound. The project would not increase the change in two-way segment volumes between 2019 and 2030 by 5 percent or more (3.1\%). Less than significant.

## 2) Silverado Trail South of Project Site

- Friday PM Peak Hour

Operation would remain LOS C northbound and LOS E southbound. The project would increase the change in two-way segment volumes
between 2019 and 2030 by more than 5 percent (5.3\%). Potentially significant.

## - Saturday PM Peak Hour

Operation would remain LOS B northbound and LOS E southbound. The project would increase the change in two-way segment volumes between 2019 and 2030 by 5 percent or more ( $6.8 \%$ ). Potentially significant.

## 3) Silverado Trail North of Trancas Street

- Friday PM Peak Hour

Operation would remain LOS C northbound and LOS E southbound. The project would increase the change in two-way segment volumes between 2019 and 2030 by more than 5 percent (5.3\%). Potentially significant.

- Saturday PM Peak Hour

Operation would remain LOS B northbound and LOS D southbound, acceptable operation. Less than significant.

## d. 2030 SIGNAL WARRANT EVALUATION - SEE TABLE 5

Signal warrant information is provided for informational purposes only per County significance criteria.

1) Silverado Trail/Oak Knoll Avenue

- Friday \& Saturday PM Peak Hours

Volumes would be exceeding rural peak hour signal warrant criteria with or without project traffic.

## X. OTHER POTENTIAL PROJECT IMPACTS

## A. SIGHT LINE ADEQUACY AT THE SILVERADO TRAIL/PROJECT DRIVEWAY INTERSECTION

Sight lines at the Silverado Trail/Project driveway intersection are currently acceptable to the north and south along Silverado Trail.

Sight line to the north along Silverado Trail (to see southbound vehicles) 1000+ feet Sight line to the south along Silverado Trail (to see northbound vehicles) 1000+ feet

The Caltrans Highway Design Manual (July 2018) states that stopping sight distance is the corner sight distance criteria to be utilized at private road connections to arterial roadways. The minimum required stopping sight distances based upon various vehicle speeds are as follows.

| SPEED | MINIMUM REQUIRED STOPPING <br> SIGHT DISTANCE |
| :--- | :---: |
| 55 mph | 500 feet |
| 60 mph | 580 feet |
| 65 mph | 660 feet |

The posted speed limit at the project entrance is 55 miles per hour, and some vehicles were observed traveling higher than the posted limit during two field surveys by Crane Transportation Group. Based upon the 65 mile per hour criteria, resultant sight lines to the north and south along Silverado Trail from the Project Driveway would be acceptable. Less than significant.

## B. NEED FOR LEFT TURN LANE AT THE SILVERADO TRAIL/PROJECT DRIVEWAY INTERSECTION

A left turn lane is already provided on the southbound Silverado Trail approach to the Project driveway. Less than significant.

## C. MARKETING EVENTS

There are no changes in the marketing event program. In addition, for all medium size events being held 2 or more times per month, daily visitors by appointment will be reduced by at least the same number of guests at the marketing event. Less than significant.

## D. PEDESTRIAN, BICYCLE AND TRANSIT IMPACTS

No pedestrians or transit riders would be expected at the winery as there are no pedestrian facilities or transit routes along Silverado Trail. Bike racks will be provided for any bicyclists accessing the winery via the Class II bicycle lanes along Silverado Trail. Less than significant.

## E. ON-SITE PARKING \& INTERNAL CIRCULATION

A total of 19 parking spaces will be provided, including 3 ADA and 3 electric vehicle charging spaces. Twenty spaces are allowed under the current use permit. Visitation will be by appointment only, which allows spreading the guest parking demand throughout the day. Valet parking will be provided for major events along with shuttle buses and vans.

Internal circulation and parking stall layout has been designed to meet County and CAL FIRE criteria. Ingress and egress for visitors, employees and production is via the commercial driveway entrance along Silverado Trail. ADA accessible, standard parking and electric vehicle charging stalls are provided at both the winery/hospitality building and the fermentation building. Employees will park in the southern stalls near the fermentation building as well as in the winery garage. Fire truck turnarounds are provided at each of these buildings. A circular loop in front of the fermentation building allows adequate space for large production trucks to access the fermentation building. This loop also allows for valet parking services during events. See Figure 3b. Less than significant.

## F. TRANSPORTATION DEMAND MANAGEMENT (TDM) PLAN \& VEHICLE MILES TRAVELED (VMT) REDUCTION

It is an upcoming requirement of all jurisdictions in the state to reduce the Vehicle Miles Traveled (VMT) of traffic associated with new developments to lower levels than would have resulted with comparable projects in the past (per State Senate Bill 743, which will take effect in July 2020). This will help reduce greenhouse gas emissions and vehicle congestion. Specific quantitative reduction guidelines have not yet been set for wineries in Napa County, but all are expected to develop ongoing programs that will provide incentives to reduce daily and commute period employee traffic as well as measures that will entice guests to use travel modes other than the automobile or to travel at times other than peak congestion periods. Towards this end, the Signorello Winery will develop a Transportation Demand Management (TDM) plan that will help accomplish these goals.

A TDM coordinator will be appointed to reduce traffic generation potential for daily employee traffic as well as to promote shuttle buses for all medium and large size marketing events. See Appendix F for the proposed TDM plan. Less than significant.

## G. YEARLY TRIP GENERATION

Based upon County formula, the Signorello Winery is currently generating 10,193 yearly trips, while with the use permit modification 2020 yearly trip generation would increase to 33,993 yearly trips, for an increase of 23,800 yearly trips. See Appendix E.

## XI. RECOMMENDED IMPROVEMENTS

The project should pay the County's off-site traffic impact fee, currently in development, as there are no realistic capacity improvement measures for Silverado Trail that could be the responsibility of a single project.

## XII. CONCLUSIONS \& RECOMMENDATIONS

- The project will result in no significant off-site circulation system operational impacts to the Silverado Trail intersections with Oak Knoll Avenue, Trancas Street or the Project driveway. In addition, there will be no significant impacts to Silverado Trail for existing or 2025 conditions. However, project traffic will result in a significant impact along Silverado Trail south of the project during the cumulative (2030) horizon.
- A left turn lane is already provided on the southbound approach to the Project driveway and sight lines are acceptable and meet Caltrans stopping sight distance criteria at this location. Bicycle racks will be provided for all guests using the Class II bicycle lanes along Silverado Trail for access.
- No new marketing events are being proposed and on days with recurring moderate size attendance daily visitation by appointment will be reduced by the same number of guests attending the event. Finally, a TDM coordinator will be appointed to institute measures to reduce daily employee traffic as well as increase limousine and shuttle bus service for major marketing events.
- The project will pay the County's upcoming traffic impact fee to offset its cumulative impact along Silverado Trail.


## Tables

## Table 1

## SIGNALIZED INTERSECTION LOS CRITERIA

| Level of <br> Service | Description | Average Control Delay <br> (Seconds Per Vehicle) |
| :---: | :--- | :---: |
| A | Operations with very low delay occurring with favorable progression <br> and/or short cycle lengths. | $\leq 10.0$ |
| B | Operations with low delay occurring with good progression and/or <br> short cycle lengths. | 10.0 to 20.0 |
| C | Operations with average delays resulting from fair progression and/or <br> longer cycle lengths. Individual cycle failures begin to appear. | 20.0 to 35.0 |
| D | Operations with longer delays due to a combination of unfavorable <br> progression, long cycle lengths, and/or high volume-to-capacity <br> (V/C) ratios. Many vehicles stop and individual cycle failures are <br> noticeable. | 35.0 to 55.0 |
| E | Operations with high delay values indicating poor progression, long <br> cycle lengths, and high V/C ratios. Individual cycle failures are <br> frequent occurrences. This is considered to be the limit of acceptable <br> delay. | 55.0 to 80.0 |
| F | Operation with delays unacceptable to most drivers occurring due to <br> oversaturation, poor progression, or very long cycle lengths. | $>80.0$ |

Source: Year 2017 6th Edition Highway Capacity Manual (Transportation Research Board).

## Table 2

UNSIGNALIZED INTERSECTION LOS CRITERIA

| Level of <br> Service | Description | Average Control Delay <br> (Seconds Per Vehicle) |
| :---: | :--- | :---: |
| A | Little or no delays | $\leq 10.0$ |
| B | Short traffic delays | 10.0 to 15.0 |
| C | Average traffic delays | 15.0 to 25.0 |
| D | Long traffic delays | 25.0 to 35.0 |
| E | Very long traffic delays | 35.0 to 50.0 |
| F | Extreme traffic delays with intersection capacity exceeded <br> (for an all-way stop), or with approach/turn movement <br> capacity exceeded (for a side street stop controlled <br> intersection) | $>50.0$ |

Source: Year 2017 6th Edition Highway Capacity Manual (Transportation Research Board).

## Table 3

## INTERSECTION LEVEL OF SERVICE

YEAR 2019 HARVEST

| LOCATION | FRIDAY PM PEAK HOUR |  | SATURDAY PM PEAK HOUR |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { W/O } \\ \text { PROJECT } \\ \hline \end{gathered}$ | $\begin{gathered} \text { WITH } \\ \text { PROJECT } \\ \hline \end{gathered}$ | $\begin{gathered} \text { W/O } \\ \text { PROJECT } \\ \hline \end{gathered}$ | $\begin{gathered} \text { WITH } \\ \text { PROJECT } \\ \hline \end{gathered}$ |
| Silverado Trail/Trancas St | B-17.0 ${ }^{(1)}$ | B-17.0 | B-13.9 | B-13.9 |
| Silverado Trail/Project Driveway | C-15.9 ${ }^{(2)}$ | C-16.5 | B-13.6 | B-13.7 |
| Silverado Trail/Oak Knoll Ave | E-47.9 ${ }^{(3)}$ | E-48.5 | C-22.3 | C-22.6 |

YEAR 2025 HARVEST

| LOCATION | FRIDAY PM PEAK HOUR |  | SATURDAY PM PEAK HOUR |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { W/O } \\ \text { PROJECT } \\ \hline \end{gathered}$ | $\begin{gathered} \text { WITH } \\ \text { PROJECT } \end{gathered}$ | $\begin{gathered} \text { W/O } \\ \text { PROJECT } \\ \hline \end{gathered}$ | $\begin{gathered} \text { WITH } \\ \text { PROJECT } \\ \hline \end{gathered}$ |
| Silverado Trail/Trancas St | B-17.7 ${ }^{(1)}$ | B-17.8 | B-14.2 | B-14.2 |
| Silverado Trail/Project Driveway | C-16.9 ${ }^{(2)}$ | C-17.6 | B-14.2 | B-14.4 |
| Silverado Trail/Oak Knoll Ave | E-76.3 ${ }^{(3)}$ | E-77.8 | D-25.9 | D-26.3 |

CUMULATIVE (YEAR 2030) HARVEST

|  | FRIDAY PM PEAK HOUR |  | SATURDAY PM PEAK HOUR |  |
| :--- | :---: | :---: | :---: | :---: |
|  | WOCATION | W/O | WITH | W/O |
|  | PROJECT | PROJECT | PROJECT |  |
| Silverado Trail/Trancas St | B-18.6 ${ }^{(1)}$ | B-18.7 | B-14.6 | B-14.7 |
| Silverado Trail/Project Driveway | C-17.5 |  |  |  |
| Silverado Trail/Oak Knoll Ave | F-116.7 | C-18 | F-119.3 | B-14.7 |
| C-14.9 |  |  |  |  |

${ }^{(1)}$ Signalized level of service - control delay in seconds
${ }^{(2)}$ Unsignalized level of service - control delay in seconds: Project Driveway approach to Silverado Trail
${ }^{(3)}$ Unsignalized level of service - control delay in seconds: Oak Knoll Ave approach to Silverado Trail

6th Edition Highway Capacity Manual (HCM) Analysis Methodology for unsignalized intersections (2017)
Source: Crane Transportation Group

Table 4 (Page 1 of 2)

## ARTERIAL LEVEL OF SERVICE

YEAR 2019 HARVEST

| LOCATION | $\begin{gathered} \text { FRIDAY PM PEAK HOUR } \\ \text { (2:45-3:45 PM) } \end{gathered}$ |  |  |  |  | $\begin{gathered} \hline \text { SATURDAY PM PEAK HOUR } \\ (2: 00-3: 00 ~ P M) \end{gathered}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { W/O } \\ \text { PROJECT } \end{gathered}$ |  | $\begin{gathered} \text { WITH } \\ \text { PROJECT } \end{gathered}$ |  | \% Increase in 2way Volume due to Project (where applicable) | W/O PROJECT |  | WITH PROJECT |  | \% Increase in 2way Volume due to Project (where applicable) |
|  | NB | SB | NB | SB |  | NB | SB | NB | SB |  |
| Silverado Trail north of Oak Knoll Ave | C-. 30 | E-. 81 | C-. 30 | E-. 81 | . 29 | B-. 18 | E-. 65 | B-. 19 | E-. 65 | . 39 |
| Silverado Trail south of Project Driveway | C-. 28 | E-. 62 | C-. 28 | E-. 62 | . 66 | B-. 17 | D-. 48 | B-. 17 | D-. 49 |  |
| Silverado Trail north of Trancas Street | C-. 29 | E-. 58 | C-. 29 | E-. 58 | . 68 | B-. 18 | D-. 47 | B-. 18 | D-. 47 |  |

YEAR 2025 HARVEST

| LOCATION | FRIDAY PM PEAK HOUR (2:45-3:45 PM) |  |  |  |  | SATURDAY PM PEAK HOUR$(2: 00-3: 00 ~ P M)$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { W/O } \\ \text { PROJECT } \end{gathered}$ |  | $\begin{aligned} & \text { WITH } \\ & \text { PROJECT } \end{aligned}$ |  | \% Increase in 2way Volume due to Project (where applicable) | $\begin{gathered} \text { W/O } \\ \text { PROJECT } \end{gathered}$ |  | $\begin{gathered} \text { WITH } \\ \text { PROJECT } \end{gathered}$ |  | \% Increase in 2way Volume due to Project (where applicable) |
|  | NB | SB | NB | SB |  | NB | SB | NB | SB |  |
| Silverado Trail north of Oak Knoll Ave | C-. 32 | E-. 86 | C-. 32 | E-. 86 | . 27 | B-. 19 | E-. 70 | B-. 20 | E-. 70 | . 36 |
| Silverado Trail south of Project Driveway | C-. 30 | E-. 64 | C-. 30 | E-. 65 | . 62 | B-. 18 | D-. 54 | B-. 18 | D-. 54 |  |
| Silverado Trail north of Trancas Street | C-. 30 | E-. 63 | C-. 30 | E-. 63 | . 64 | B-. 19 | D-. 51 | B-. 19 | D-. 51 |  |

Table 4 (Page 2 of 2)

## ARTERIAL LEVEL OF SERVICE

## CUMULATIVE (YEAR 2030) HARVEST

| LOCATION | $\begin{aligned} & \text { FRIDAY PM PEAK HOUR } \\ & \text { (2:45-3:45 PM) } \end{aligned}$ |  |  |  |  | $\begin{gathered} \text { SATURDAY PM PEAK HOUR } \\ (2: 00-3: 00 ~ P M) \end{gathered}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { W/O } \\ \text { PROJECT } \end{gathered}$ |  | WITH PROJECT |  | \% Volume due to Project in relation to growth in traffic from 2019 to 2030 (where applicable) | $\begin{gathered} \text { W/O } \\ \text { PROJECT } \end{gathered}$ |  | $\begin{gathered} \text { WITH } \\ \text { PROJECT } \end{gathered}$ |  | \% Volume due to Project in relation to growth in traffic from 2019 to 2030 (where applicable) |
|  | NB | SB | NB | SB |  | NB | SB | NB | SB |  |
| Silverado Trail north of Oak Knoll Ave | C-. 33 | E-. 89 | C-. 33 | E-. 89 | 2.63 | B-. 20 | E-. 72 | B-. 20 | E-. 73 | 3.09 |
| Silverado Trail south of Project Driveway | C-. 31 | E-. 67 | C-. 31 | E-. 68 | 5.29 | B-. 19 | E-. 57 | B-. 19 | E-. 58 | 6.76 |
| Silverado Trail north of Trancas Street | C-. 31 | E-. 65 | C-. 31 | E-. 65 | 5.33 | B-. 20 | D-. 54 | B-. 20 | D-. 54 |  |

${ }^{(1)}$ Level of service - demand/capacity
Highway Capacity Manual, $6^{\text {th }}$ Edition (2017) analysis methodology.
Compiled by: Crane Transportation Group

Table 5

## RURAL SIGNAL WARRANT EVALUATION

## Silverado Trail/Oak Knoll Avenue

## Do Harvest Volumes meet Caltrans Rural Warrant \#3 Volume Criteria?

YEAR 2019 (EXISITNG)

| FRIDAY PM PEAK HOUR |  | SATURDAY PM PEAK HOUR |  |
| :---: | :---: | :---: | :---: |
| WITHOUT <br> PROJECT | WITH <br> PROJECT | WITHOUT <br> PROJECT | WITH |
| PROJECT |  |  |  |$|$| Yes | Yes | Yes |
| :---: | :---: | :---: |

YEAR 2025

| FRIDAY PM PEAK HOUR |  | SATURDAY PM PEAK HOUR |  |
| :---: | :---: | :---: | :---: |
| WITHOUT <br> PROJECT | WITH | PROJECT | WITHOUT |
| PROJECT | WITH |  |  |
| PROJECT |  |  |  |$|$| Yes | Yes | Yes | Yes |
| :---: | :---: | :---: | :---: |

CUMULATIVE (YEAR 2030)

| FRIDAY PM PEAK HOUR |  | SATURDAY PM PEAK HOUR |  |
| :---: | :---: | :---: | :---: |
| WITHOUT <br> PROJECT | WITH <br> PROJECT | WITHOUT <br> PROJECT | WITH <br> PROJECT |
| Yes | Yes | Yes | Yes |

Compiled by: Crane Transportation Group

## Table 6

## PROJECT TRIP GENERATION

|  | Daily Trips |  |  | Maximum PM <br> Hourly \% of Daily | Resultant Project <br> PM Peak Hour <br> 2-Way Trip <br> Generation |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Existing** | Existing* <br> + Project | Increase <br> Due to <br> Project | Way Traffic** | 14 <br> Friday <br> Saturday$\quad 29$ |
| 107 | 78 | $18 \%$ | 15 |  |  |

*Source: Napa County Winery Trip Generation Worksheets
**Source: 2 Friday and 2 Saturday 24-hour Traffic Counts of the Winery driveway - Harvest 2019
Compiled by: Crane Transportation Group

Figures


Figure 1




## Not To Scale



2019 (Existing) Harvest without Project sounjon dnoH reed Wd Kepanłes pue Keplds




Figure 10
2019 (Existing) Harvest with Project



## Appendices

## Appendix A



NORTH



NORTH


Figure A-2

NORTH


Figure A-3


NORTH


Figure A-4


Location: Silverado Trail, S/O Signorello Dwy
Count Direction: Northbound / Southbound

## Date Range: <br> $1 / 31 / 2020$ to $2 / 1 / 2020$

Site Code:
01

|  | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| Study Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northbound | 0 | 4 | 28 | 19 | 9 | 23 | 53 | 174 | 790 | 2,127 | 3,247 | 2,372 | 738 | 149 | 33 | 14 | 8 | 9,788 |
| Percent | 0.0\% | 0.0\% | 0.3\% | 0.2\% | 0.1\% | 0.2\% | 0.5\% | 1.8\% | 8.1\% | 21.7\% | 33.2\% | 24.2\% | 7.5\% | 1.5\% | 0.3\% | 0.1\% | 0.1\% | 100\% |
| Southbound | 6 | 32 | 27 | 4 | 6 | 21 | 101 | 415 | 1,670 | 3,337 | 2,830 | 1,114 | 245 | 53 | 15 | 7 | 6 | 9,889 |
| Percent | 0.1\% | 0.3\% | 0.3\% | 0.0\% | 0.1\% | 0.2\% | 1.0\% | 4.2\% | 16.9\% | 33.7\% | 28.6\% | 11.3\% | 2.5\% | 0.5\% | 0.2\% | 0.1\% | 0.1\% | 100\% |
| Total | 6 | 36 | 55 | 23 | 15 | 44 | 154 | 589 | 2,460 | 5,464 | 6,077 | 3,486 | 983 | 202 | 48 | 21 | 14 | 19,677 |
| Percent | 0.0\% | 0.2\% | 0.3\% | 0.1\% | 0.1\% | 0.2\% | 0.8\% | 3.0\% | 12.5\% | 27.8\% | 30.9\% | 17.7\% | 5.0\% | 1.0\% | 0.2\% | 0.1\% | 0.1\% | 100\% |


| Total Study Percentile Speed Summary | Total Study Speed Statistics |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: | :---: |
| Northbound |  |  | Northbound |  |  |
| 50th Percentile (Median) | 57.6 | mph | Mean (Average) Speed | 57.2 | mph |
| 85th Percentile | 63.4 | mph | 10 mph Pace | $52.9-62.9$ | mph |
| 95th Percentile | 67.0 | mph | Percent in Pace | 60.6 | $\%$ |
| Southbound |  |  | Southbound |  |  |
| 50th Percentile (Median) | 54.1 | mph | Mean (Average) Speed | 53.9 | mph |
| 85th Percentile | 59.8 | mph | 10 mph Pace | $48.5-58.5$ | mph |
| 95th Percentile | 63.8 | mph | Percent in Pace | 63.2 | $\%$ |


| Location: | Silverado Trail, S/O Signorello Dwy |
| :--- | :--- |
| Date Range: | $1 / 31 / 2020$ to $2 / 1 / 2020$ |
| Site Code: | 01 |

## January 31, 2020

Northbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 8 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 4 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 6 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 4 | 3 | 5 | 2 | 0 | 0 | 20 |
| 5:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 3 | 6 | 33 | 43 | 28 | 17 | 2 | 0 | 2 | 139 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 12 | 69 | 285 | 297 | 109 | 23 | 0 | 0 | 0 | 0 | 798 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 10 | 50 | 173 | 182 | 80 | 13 | 0 | 2 | 2 | 518 |


| 8:00 AM | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 5 | 29 | 119 | 219 | 182 | 54 | 7 | 0 | 0 | 0 | 623 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9:00 AM | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 13 | 73 | 136 | 115 | 31 | 1 | 1 | 0 | 0 | 375 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 12 | 52 | 111 | 82 | 29 | 5 | 0 | 0 | 0 | 296 |
| 11:00 AM | 0 | 1 | 2 | 0 | 1 | 3 | 1 | 1 | 24 | 66 | 106 | 79 | 19 | 1 | 2 | 0 | 0 | 306 |
| 12:00 PM | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 3 | 30 | 77 | 140 | 73 | 10 | 6 | 1 | 0 | 0 | 345 |
| 1:00 PM | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 6 | 19 | 52 | 99 | 79 | 8 | 5 | 0 | 0 | 0 | 273 |
| 2:00 PM | 0 | 0 | 1 | 3 | 0 | 0 | 3 | 2 | 20 | 99 | 126 | 59 | 7 | 2 | 0 | 0 | 0 | 322 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 10 | 30 | 60 | 115 | 99 | 27 | 2 | 1 | 0 | 0 | 348 |
| 4:00 PM | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 12 | 59 | 111 | 103 | 32 | 4 | 0 | 0 | 0 | 323 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 9 | 53 | 86 | 73 | 24 | 1 | 0 | 0 | 0 | 261 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 16 | 45 | 58 | 52 | 4 | 0 | 0 | 0 | 0 | 181 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 12 | 9 | 33 | 34 | 13 | 3 | 0 | 0 | 1 | 110 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 15 | 21 | 16 | 13 | 7 | 3 | 1 | 0 | 0 | 79 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 9 | 22 | 24 | 5 | 2 | 2 | 0 | 0 | 66 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 10 | 16 | 13 | 10 | 1 | 2 | 0 | 0 | 53 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 8 | 8 | 5 | 2 | 0 | 0 | 0 | 33 |
| Total | 0 | 1 | 10 | 7 | 5 | 15 | 25 | 69 | 330 | 1,161 | 1,917 | 1,430 | 421 | 80 | 15 | 3 | 5 | 5,494 |
| Percent | 0.0\% | 0.0\% | 0.2\% | 0.1\% | 0.1\% | 0.3\% | 0.5\% | 1.3\% | 6.0\% | 21.1\% | 34.9\% | 26.0\% | 7.7\% | 1.5\% | 0.3\% | 0.1\% | 0.1\% |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | :--- | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 57.9 | mph | Mean (Average) Speed | 57.7 | mph |
| 85th Percentile | 63.4 | mph | 10 mph Pace | $52.9-62.9$ | mph |
| 95th Percentile | 66.8 | mph | Percent in Pace | 63.9 | $\%$ |

January 31, 2020
Southbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 4 | 1 | 1 | 0 | 0 | 0 | 15 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 1 | 2 | 0 | 0 | 0 | 8 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 3 | 1 | 2 | 0 | 0 | 1 | 13 |
| 5:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 6 | 2 | 6 | 10 | 8 | 3 | 2 | 0 | 0 | 41 |
| 6:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 8 | 38 | 47 | 24 | 3 | 0 | 0 | 0 | 0 | 128 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 42 | 79 | 44 | 11 | 0 | 1 | 0 | 0 | 189 |
| 8:00 AM | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 1 | 7 | 52 | 75 | 66 | 19 | 6 | 2 | 0 | 0 | 231 |
| 9:00 AM | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 5 | 22 | 78 | 93 | 39 | 5 | 5 | 1 | 0 | 0 | 252 |
| 10:00 AM | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 4 | 22 | 56 | 90 | 48 | 6 | 2 | 0 | 0 | 0 | 233 |
| 11:00 AM | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 5 | 29 | 75 | 110 | 34 | 5 | 1 | 1 | 0 | 0 | 265 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 12 | 38 | 95 | 104 | 48 | 7 | 1 | 0 | 0 | 1 | 308 |
| 1:00 PM | 0 | 1 | 0 | 0 | 1 | 0 | 4 | 7 | 49 | 138 | 125 | 41 | 10 | 1 | 0 | 0 | 0 | 377 |
| 2:00 PM | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 26 | 84 | 163 | 142 | 30 | 6 | 1 | 0 | 0 | 0 | 457 |
| 3:00 PM | 0 | 1 | 1 | 1 | 0 | 1 | 21 | 59 | 164 | 279 | 172 | 57 | 3 | 0 | 0 | 2 | 0 | 761 |
| 4:00 PM | 0 | 0 | 1 | 0 | 0 | 3 | 4 | 48 | 186 | 361 | 219 | 37 | 2 | 0 | 0 | 0 | 0 | 861 |
| 5:00 PM | 0 | 0 | 0 | 1 | 1 | 0 | 7 | 16 | 142 | 282 | 185 | 37 | 3 | 0 | 0 | 0 | 0 | 674 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 38 | 111 | 101 | 31 | 6 | 0 | 0 | 0 | 1 | 299 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 25 | 36 | 13 | 7 | 3 | 0 | 0 | 0 | 95 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 20 | 31 | 19 | 5 | 0 | 0 | 1 | 0 | 84 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 22 | 18 | 16 | 9 | 5 | 0 | 0 | 0 | 78 |


| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 5 | 14 | 18 | 9 | 4 | 1 | 0 | 1 | 0 | 57 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 6 | 13 | 14 | 9 | 3 | 0 | 0 | 1 | 48 |
| Total | 0 | 14 | 5 | 3 | 4 | 11 | 50 | 206 | 833 | 1,868 | 1,678 | 628 | 132 | 37 | 7 | 4 | 4 | 5,484 |
| Percent | 0.0\% | 0.3\% | 0.1\% | 0.1\% | 0.1\% | 0.2\% | 0.9\% | 3.8\% | 15.2\% | 34.1\% | 30.6\% | 11.5\% | 2.4\% | 0.7\% | 0.1\% | 0.1\% | 0.1\% |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 54.4 | mph | Mean (Average) Speed | 54.2 | mph |
| 85th Percentile | 59.9 | mph | 10 mph Pace | $49.7-59.7$ | mph |
| 95th Percentile | 63.6 | mph | Percent in Pace | 64.99 | $\%$ |

## February 1, 2020

Northbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 5 | 1 | 3 | 2 | 0 | 0 | 0 | 15 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 2 | 2 | 2 | 1 | 0 | 0 | 11 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 4 | 0 | 0 | 0 | 0 | 11 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 2 | 2 | 0 | 0 | 0 | 12 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | 7 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 9 | 17 | 14 | 3 | 0 | 0 | 1 | 45 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 8 | 50 | 113 | 75 | 28 | 6 | 0 | 2 | 0 | 286 |
| 7:00 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 12 | 37 | 53 | 38 | 6 | 6 | 3 | 1 | 163 |
| 8:00 AM | 0 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 6 | 17 | 76 | 118 | 51 | 11 | 1 | 3 | 1 | 291 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 25 | 64 | 128 | 102 | 21 | 8 | 3 | 1 | 0 | 355 |
| 10:00 AM | 0 | 1 | 7 | 3 | 0 | 1 | 4 | 12 | 50 | 84 | 120 | 59 | 11 | 3 | 0 | 0 | 0 | 355 |
| 11:00 AM | 0 | 0 | 1 | 2 | 0 | 1 | 4 | 7 | 69 | 125 | 134 | 57 | 13 | 1 | 0 | 1 | 0 | 415 |
| 12:00 PM | 0 | 1 | 3 | 2 | 1 | 2 | 5 | 21 | 82 | 135 | 89 | 41 | 8 | 3 | 1 | 1 | 0 | 395 |
| 1:00 PM | 0 | 0 | 3 | 2 | 0 | 1 | 2 | 15 | 69 | 108 | 115 | 56 | 18 | 2 | 1 | 0 | 0 | 392 |
| 2:00 PM | 0 | 0 | 1 | 0 | 2 | 2 | 0 | 4 | 39 | 114 | 114 | 42 | 11 | 2 | 0 | 0 | 0 | 331 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 15 | 30 | 59 | 81 | 68 | 20 | 4 | 0 | 0 | 0 | 279 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 16 | 42 | 82 | 78 | 21 | 5 | 1 | 0 | 0 | 254 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 19 | 65 | 61 | 26 | 11 | 1 | 1 | 0 | 0 | 192 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 11 | 27 | 45 | 27 | 4 | 0 | 0 | 0 | 0 | 124 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 23 | 22 | 25 | 5 | 3 | 0 | 0 | 0 | 89 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 21 | 33 | 26 | 7 | 0 | 1 | 0 | 0 | 100 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 8 | 25 | 29 | 13 | 1 | 1 | 0 | 0 | 80 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 6 | 26 | 18 | 7 | 3 | 0 | 0 | 0 | 64 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 8 | 11 | 5 | 1 | 0 | 0 | 0 | 28 |
| Total | 0 | 3 | 18 | 12 | 4 | 8 | 28 | 105 | 460 | 966 | 1,330 | 942 | 317 | 69 | 18 | 11 | 3 | 4,294 |
| Percent | 0.0\% | 0.1\% | 0.4\% | 0.3\% | 0.1\% | 0.2\% | 0.7\% | 2.4\% | 10.7\% | 22.5\% | 31.0\% | 21.9\% | 7.4\% | 1.6\% | 0.4\% | 0.3\% | 0.1\% |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 57.0 | mph | Mean (Average) Speed | 56.7 | mph |
| 85th Percentile | 63.4 | mph | 10 mph Pace | $51.9-61.9$ | mph |
| 95th Percentile | 67.3 | mph | Percent in Pace | 56.8 | $\%$ |

February 1, 2020
Southbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |


| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 8 | 3 | 3 | 1 | 0 | 0 | 0 | 23 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 6 | 3 | 0 | 1 | 0 | 0 | 0 | 16 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 9 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 4 | 2 | 0 | 0 | 0 | 0 | 11 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 2 | 9 | 6 | 3 | 0 | 1 | 0 | 0 | 24 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 17 | 27 | 15 | 6 | 0 | 0 | 1 | 0 | 67 |
| 7:00 AM | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 2 | 15 | 19 | 38 | 16 | 1 | 2 | 0 | 0 | 98 |
| 8:00 AM | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 4 | 29 | 46 | 31 | 10 | 5 | 1 | 1 | 0 | 131 |
| 9:00 AM | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 11 | 37 | 62 | 39 | 12 | 1 | 1 | 0 | 1 | 169 |
| 10:00 AM | 0 | 1 | 2 | 0 | 0 | 2 | 6 | 13 | 22 | 39 | 59 | 36 | 18 | 1 | 0 | 0 | 0 | 199 |
| 11:00 AM | 2 | 3 | 2 | 0 | 0 | 1 | 2 | 5 | 32 | 106 | 91 | 23 | 3 | 0 | 0 | 0 | 0 | 270 |
| 12:00 PM | 1 | 2 | 4 | 0 | 0 | 0 | 3 | 33 | 50 | 100 | 101 | 38 | 3 | 0 | 0 | 0 | 0 | 335 |
| 1:00 PM | 0 | 1 | 1 | 0 | 0 | 1 | 5 | 3 | 44 | 111 | 95 | 31 | 5 | 0 | 0 | 0 | 0 | 297 |
| 2:00 PM | 1 | 1 | 1 | 0 | 2 | 2 | 7 | 35 | 87 | 138 | 101 | 17 | 1 | 0 | 0 | 1 | 0 | 394 |
| 3:00 PM | 0 | 4 | 3 | 1 | 0 | 1 | 4 | 33 | 127 | 199 | 99 | 27 | 2 | 1 | 1 | 0 | 0 | 502 |
| 4:00 PM | 1 | 1 | 2 | 0 | 0 | 2 | 4 | 32 | 206 | 259 | 123 | 15 | 4 | 1 | 0 | 0 | 1 | 651 |
| 5:00 PM | 1 | 4 | 0 | 0 | 0 | 0 | 12 | 28 | 150 | 209 | 91 | 25 | 4 | 1 | 1 | 0 | 0 | 526 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 8 | 51 | 91 | 76 | 28 | 4 | 2 | 0 | 0 | 0 | 262 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 20 | 30 | 33 | 27 | 2 | 0 | 0 | 0 | 0 | 116 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 7 | 21 | 31 | 18 | 3 | 0 | 0 | 0 | 0 | 83 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 10 | 21 | 25 | 9 | 4 | 0 | 0 | 0 | 0 | 75 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 6 | 20 | 22 | 21 | 2 | 1 | 1 | 0 | 0 | 76 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 9 | 23 | 31 | 3 | 0 | 0 | 0 | 0 | 69 |
| Total | 6 | 18 | 22 | 1 | 2 | 10 | 51 | 209 | 837 | 1,469 | 1,152 | 486 | 113 | 16 | 8 | 3 | 2 | 4,405 |
| Percent | 0.1\% | 0.4\% | 0.5\% | 0.0\% | 0.0\% | 0.2\% | 1.2\% | 4.7\% | 19.0\% | 33.3\% | 26.2\% | 11.0\% | 2.6\% | 0.4\% | 0.2\% | 0.1\% | 0.0\% |  |
| Daily Percentile Speed Summary |  |  |  |  | Speed Statistics |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 50th } \mathrm{Pe} \\ & \text { 85th } \mathrm{Pe} \\ & \text { 95th } \mathrm{Pe} \end{aligned}$ | Media |  | $\begin{aligned} & 53.7 \\ & 59.7 \\ & 63.9 \end{aligned}$ | mph mph mph | Mea 10 m Perc | Averag | Spee |  | $\begin{array}{r} 53.4 \\ .5-58.5 \\ 61.61 \end{array}$ | mph mph \% |  |  |  |  |  |  |  |  |

February 2, 2020
Northbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | :--- | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0.0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0.0 | $\%$ |

February 2, 2020
Southbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0 | mph |
| :--- | :--- | :--- | :--- | ---: | :---: |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0 | $\%$ |

February 3, 2020
Northbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | :--- | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0.0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0.0 | $\%$ |

February 3, 2020
Southbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - |  | - | - | - | - | - |  | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0 | $\%$ |

February 4, 2020
Northbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | :--- | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0.0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0.0 | $\%$ |

## February 4, 2020

 Southbound| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { Total } \\ \text { Volume } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0 | $\%$ |

## February 5, 2020 <br> Northbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | TotalVolume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0.0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0.0 | $\%$ |

February 5, 2020

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0 | $\%$ |

February 6, 2020
Northbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |
| :--- | ---: | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0.0 |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ |
| mph |  |  |  |  |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0.0 |

## February 6, 2020

Southbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0 | $\%$ |

February 7, 2020
Northbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



February 7, 2020
Southbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0 | $\%$ |

## February 8, 2020

## Northbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0.0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0.0 | $\%$ |

February 8, 2020

## Southbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Daily Percentile Speed Summary |  | Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 0.0 | mph | Mean (Average) Speed | 0 | mph |
| 85th Percentile | 0.0 | mph | 10 mph Pace | $.0-10.0$ | mph |
| 95th Percentile | 0.0 | mph | Percent in Pace | 0 | $\%$ |

Total Study Average
Northbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 4 | 2 | 2 | 1 | 1 | 0 | 0 | 14 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 11 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 3 | 0 | 0 | 1 | 0 | 10 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 2 | 1 | 0 | 0 | 0 | 10 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 3 | 2 | 3 | 2 | 0 | 0 | 16 |
| 5:00 AM | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 21 | 30 | 21 | 10 | 1 | 0 | 2 | 94 |
| 6:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 8 | 39 | 168 | 205 | 92 | 26 | 3 | 0 | 1 | 0 | 545 |
| 7:00 AM | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 1 | 8 | 31 | 105 | 118 | 59 | 10 | 3 | 3 | 2 | 344 |
| 8:00 AM | 0 | 1 | 1 | 2 | 1 | 4 | 0 | 3 | 18 | 68 | 148 | 150 | 53 | 9 | 1 | 2 | 1 | 462 |
| 9:00 AM | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 19 | 69 | 132 | 109 | 26 | 5 | 2 | 1 | 0 | 368 |


| 10:00 AM | 0 | 1 | 4 | 2 | 0 | 1 | 3 | 8 | 31 | 68 | 116 | 71 | 20 | 4 | 0 | 0 | 0 | 329 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:00 AM | 0 | 1 | 2 | 1 | 1 | 2 | 3 | 4 | 47 | 96 | 120 | 68 | 16 | 1 | 1 | 1 | 0 | 364 |
| 12:00 PM | 0 | 1 | 4 | 2 | 1 | 1 | 3 | 12 | 56 | 106 | 115 | 57 | 9 | 5 | 1 | 1 | 0 | 374 |
| 1:00 PM | 0 | 0 | 2 | 2 | 1 | 1 | 1 | 11 | 44 | 80 | 107 | 68 | 13 | 4 | 1 | 0 | 0 | 335 |
| 2:00 PM | 0 | 0 | 1 | 2 | 1 | 1 | 2 | 3 | 30 | 107 | 120 | 51 | 9 | 2 | 0 | 0 | 0 | 329 |
| 3:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 13 | 30 | 60 | 98 | 84 | 24 | 3 | 1 | 0 | 0 | 316 |
| 4:00 PM | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 4 | 14 | 51 | 97 | 91 | 27 | 5 | 1 | 0 | 0 | 293 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9 | 14 | 59 | 74 | 50 | 18 | 1 | 1 | 0 | 0 | 229 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 14 | 36 | 52 | 40 | 4 | 0 | 0 | 0 | 0 | 155 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 11 | 16 | 28 | 30 | 9 | 3 | 0 | 0 | 1 | 102 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 13 | 21 | 25 | 20 | 7 | 2 | 1 | 0 | 0 | 92 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 9 | 24 | 27 | 9 | 2 | 2 | 0 | 0 | 76 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 8 | 21 | 16 | 9 | 2 | 1 | 0 | 0 | 61 |
| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 8 | 10 | 5 | 2 | 0 | 0 | 0 | 32 |
| Total | 0 | 4 | 17 | 13 | 6 | 14 | 32 | 93 | 400 | 1,068 | 1,630 | 1,194 | 374 | 79 | 21 | 10 | 6 | 4,961 |
| Percent | 0.0\% | 0.1\% | 0.3\% | 0.3\% | 0.1\% | 0.3\% | 0.6\% | 1.9\% | 8.1\% | 21.5\% | 32.9\% | 24.1\% | 7.5\% | 1.6\% | 0.4\% | 0.2\% | 0.1\% |  |

Note: Average only condsidered on days with 24 -hours of data.

| Total Study Percentile Speed Summary |  | Total Study Speed Statistics |  |  |  |
| :--- | :--- | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 57.6 | mph | Mean (Average) Speed | 57.2 | mph |
| 85th Percentile | 63.4 | mph | 10 mph Pace | $52.9-62.9$ | mph |
| 95th Percentile | 67.0 | mph | Percent in Pace | 60.6 | $\%$ |

Total Study Average
Southbound

| Time | Speed Range (mph) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85 + |  |
| 12:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 6 | 4 | 2 | 1 | 0 | 0 | 0 | 20 |
| 1:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 4 | 3 | 0 | 1 | 0 | 0 | 0 | 13 |
| 2:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 8 |
| 3:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 6 |
| 4:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 4 | 2 | 1 | 0 | 0 | 1 | 14 |
| 5:00 AM | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 4 | 2 | 8 | 8 | 6 | 2 | 2 | 0 | 0 | 36 |
| 6:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 2 | 5 | 28 | 37 | 20 | 5 | 0 | 0 | 1 | 0 | 101 |
| 7:00 AM | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 7 | 29 | 49 | 41 | 14 | 1 | 2 | 0 | 0 | 147 |
| 8:00 AM | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 2 | 6 | 41 | 61 | 49 | 15 | 6 | 2 | 1 | 0 | 186 |
| 9:00 AM | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 4 | 17 | 58 | 78 | 39 | 9 | 3 | 1 | 0 | 1 | 214 |
| 10:00 AM | 0 | 2 | 2 | 0 | 0 | 2 | 3 | 9 | 22 | 48 | 75 | 42 | 12 | 2 | 0 | 0 | 0 | 219 |
| 11:00 AM | 1 | 4 | 1 | 0 | 1 | 1 | 1 | 5 | 31 | 91 | 101 | 29 | 4 | 1 | 1 | 0 | 0 | 272 |
| 12:00 PM | 1 | 1 | 2 | 0 | 0 | 1 | 2 | 23 | 44 | 98 | 103 | 43 | 5 | 1 | 0 | 0 | 1 | 325 |
| 1:00 PM | 0 | 1 | 1 | 0 | 1 | 1 | 5 | 5 | 47 | 125 | 110 | 36 | 8 | 1 | 0 | 0 | 0 | 341 |
| 2:00 PM | 1 | 3 | 1 | 0 | 1 | 1 | 4 | 31 | 86 | 151 | 122 | 24 | 4 | 1 | 0 | 1 | 0 | 431 |
| 3:00 PM | 0 | 3 | 2 | 1 | 0 | 1 | 13 | 46 | 146 | 239 | 136 | 42 | 3 | 1 | 1 | 1 | 0 | 635 |
| 4:00 PM | 1 | 1 | 2 | 0 | 0 | 3 | 4 | 40 | 196 | 310 | 171 | 26 | 3 | 1 | 0 | 0 | 1 | 759 |
| 5:00 PM | 1 | 2 | 0 | 1 | 1 | 0 | 10 | 22 | 146 | 246 | 138 | 31 | 4 | 1 | 1 | 0 | 0 | 604 |
| 6:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 8 | 45 | 101 | 89 | 30 | 5 | 1 | 0 | 0 | 1 | 283 |
| 7:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 14 | 28 | 35 | 20 | 5 | 2 | 0 | 0 | 0 | 108 |
| 8:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 7 | 21 | 31 | 19 | 4 | 0 | 0 | 1 | 0 | 86 |
| 9:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 8 | 22 | 22 | 13 | 7 | 3 | 0 | 0 | 0 | 79 |
| 10:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 6 | 17 | 20 | 15 | 3 | 1 | 1 | 1 | 0 | 68 |


| 11:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 8 | 18 | 23 | 6 | 2 | 0 | 0 | 1 | 62 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 5 | 18 | 16 | 3 | 5 | 14 | 55 | 212 | 842 | 1,676 | 1,422 | 563 | 129 | 34 | 11 | 6 | 6 | 5,017 |
| Percent | 0.1\% | 0.4\% | 0.3\% | 0.1\% | 0.1\% | 0.3\% | 1.1\% | 4.2\% | 16.8\% | 33.4\% | 28.3\% | 11.2\% | 2.6\% | 0.7\% | 0.2\% | 0.1\% | 0.1\% |  |

Note: Average only condsidered on days with 24 -hours of data.

| Total Study Percentile Speed Summary |  | Total Study Speed Statistics |  |  |  |
| :--- | ---: | :--- | :--- | ---: | :---: |
| 50th Percentile (Median) | 54.1 | mph | Mean (Average) Speed | 53.9 | mph |
| 85th Percentile | 59.8 | mph | 10 mph Pace | $48.5-58.5$ | mph |
| 95th Percentile | 63.8 | mph | Percent in Pace | 63.2 | $\%$ |

```
Location: Silverado Trail S/O Signorello Winery Entrance
Count Direction: Northbound / Southbound
Date Range: 9/13/2019 to 9/19/2019
Site Code: 01
```



| FHWA Vehicle Classification |  |
| :--- | :--- |
| Class 1 - Motorcycles | Class 8 - Four or Fewer Axle Single-Trailer Trucks |
| Class 2 - Passenger Cars | Class 9 - Five-Axle Single-Trailer Trucks |
| Class 3 - Other Two-Axle, Four-Tire Single Unit Vehicles | Class 10 - Six or More Axle Single-Trailer Trucks |
| Class 4 - Buses | Class 11 - Five or fewer Axle Multi-Trailer Trucks |
| Class 5 - Two-Axle, Six-Tire, Single-Unit Trucks | Class 12 - Six-Axle Multi-Trailer Trucks |
| Class 6 - Three-Axle Single-Unit Trucks | Class 13 - Seven or More Axle Multi-Trailer Trucks |
| Class 7 - Four or More Axle Single-Unit Trucks |  |

```
Location: Signorello Entrance E/O Silverado Trail
Count Direction: Eastbound / Westbound
Date Range: 9/13/2019 to 9/19/2019
Site Code: 02
```



| FHWA Vehicle Classification |  |
| :--- | :--- |
| Class 1 - Motorcycles | Class 8 - Four or Fewer Axle Single-Trailer Trucks |
| Class 2 - Passenger Cars | Class 9 - Five-Axle Single-Trailer Trucks |
| Class 3 - Other Two-Axle, Four-Tire Single Unit Vehicles | Class 10 - Six or More Axle Single-Trailer Trucks |
| Class 4 - Buses | Class 11 - Five or fewer Axle Multi-Trailer Trucks |
| Class 5 - Two-Axle, Six-Tire, Single-Unit Trucks | Class 12 - Six-Axle Multi-Trailer Trucks |
| Class 6 - Three-Axle Single-Unit Trucks | Class 13 - Seven or More Axle Multi-Trailer Trucks |
| Class 7 - Four or More Axle Single-Unit Trucks |  |


| Location: | Signorello Entrance E/O Silverado Trail |
| :--- | :--- |
| Count Direction: | Eastbound / Westbound |
| Date Range: | 9/20/2019 to 9/21/2019 |
| Site Code: | 02 |


|  | FHWA Vehicle Classification |  |  |  |  |  |  |  |  |  |  |  |  | Total Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |  |
| Study Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eastbound | 5 | 23 | 15 | 0 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| Percent | 9.6\% | 44.2\% | 28.8\% | 0.0\% | 13.5\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100\% |
| Westbound | 7 | 28 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| Percent | 17.5\% | 70.0\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100\% |
| Total | 12 | 51 | 15 | 0 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92 |
| Percent | 13.0\% | 55.4\% | 16.3\% | 0.0\% | 7.6\% | 7.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100\% |


| FHWA Vehicle Classification |  |
| :--- | :--- |
| Class 1 - Motorcycles | Class 8 - Four or Fewer Axle Single-Trailer Trucks |
| Class 2 - Passenger Cars | Class 9 - Five-Axle Single-Trailer Trucks |
| Class 3 - Other Two-Axle, Four-Tire Single Unit Vehicles | Class 10 - Six or More Axle Single-Trailer Trucks |
| Class 4 - Buses | Class 11 - Five or fewer Axle Multi-Trailer Trucks |
| Class 5 - Two-Axle, Six-Tire, Single-Unit Trucks | Class 12 - Six-Axle Multi-Trailer Trucks |
| Class 6 - Three-Axle Single-Unit Trucks | Class 13 - Seven or More Axle Multi-Trailer Trucks |
| Class 7 - Four or More Axle Single-Unit Trucks |  |

```
Location: Signorello Entrance E/O Silverado Trail
Count Direction: Eastbound / Westbound
Date Range: 10/4/2019 to 10/6/2019
Site Code: 02
```



| FHWA Vehicle Classification |  |
| :--- | :--- |
| Class 1 - Motorcycles | Class 8 - Four or Fewer Axle Single-Trailer Trucks |
| Class 2 - Passenger Cars | Class 9 - Five-Axle Single-Trailer Trucks |
| Class 3 - Other Two-Axle, Four-Tire Single Unit Vehicles | Class 10 - Six or More Axle Single-Trailer Trucks |
| Class 4 - Buses | Class 11 - Five or fewer Axle Multi-Trailer Trucks |
| Class 5 - Two-Axle, Six-Tire, Single-Unit Trucks | Class 12 - Six-Axle Multi-Trailer Trucks |
| Class 6 - Three-Axle Single-Unit Trucks | Class 13 - Seven or More Axle Multi-Trailer Trucks |
| Class 7 - Four or More Axle Single-Unit Trucks |  |

```
Location: Silverado Trail, S/O Signorello Dwy
Count Direction: Northbound / Southbound
Date Range: 1/31/2020 to 2/1/2020
Site Code: 01
```



| FHWA Vehicle Classification |  |
| :--- | :--- |
| Class 1 - Motorcycles | Class 8 - Four or Fewer Axle Single-Trailer Trucks |
| Class 2 - Passenger Cars | Class 9 - Five-Axle Single-Trailer Trucks |
| Class 3 - Other Two-Axle, Four-Tire Single Unit Vehicles | Class 10 - Six or More Axle Single-Trailer Trucks |
| Class 4 - Buses | Class 11 - Five or fewer Axle Multi-Trailer Trucks |
| Class 5 - Two-Axle, Six-Tire, Single-Unit Trucks | Class 12 - Six-Axle Multi-Trailer Trucks |
| Class 6 - Three-Axle Single-Unit Trucks | Class 13 - Seven or More Axle Multi-Trailer Trucks |
| Class 7 - Four or More Axle Single-Unit Trucks |  |

## Appendix B

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |



| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBU | SBL | SBT |
| Lane Configurations | Yr |  | $\boldsymbol{F}$ |  |  | $\vdots$ | 4 |
| Traffic Vol, veh/h | 2 | 1 | 429 | 1 | 4 | 1 | 917 |
| Future Vol, veh/h | 2 | 1 | 429 | 1 | 4 | 1 | 917 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | - | None |
| Storage Length | 0 | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | 1 | - | 0 | - | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | - | 0 |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 1 | 1 | 1 |
| Mvmt Flow | 2 | 1 | 456 | 1 | 4 | 1 | 976 |




## Notes

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

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |



| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |




## Notes

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



| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBU | SBL | SBT |
| Lane Configurations | Yr |  | 1 |  |  | A | 4 |
| Traffic Vol, veh/h | 2 | 1 | 451 | 1 | 4 | 1 | 1003 |
| Future Vol, veh/h | 2 | 1 | 451 | 1 | 4 | 1 | 1003 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | - | None |
| Storage Length | 0 | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | 1 | - | 0 | - | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | - | 0 |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 1 | 480 | 1 | 4 | 1 | 1067 |




## Notes

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

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |



| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.1 |  |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBU | SBL | SBT |
| Lane Configurations | r |  | $\uparrow$ |  |  | a | 个 |
| Traffic Vol, veh/h | 4 | 2 | 277 | 1 | 1 | 0 | 838 |
| Future Vol, veh/h | 4 | 2 | 277 | 1 | 1 | 0 | 838 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | - | None |
| Storage Length | 0 | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | 1 | - | 0 | - | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | - | 0 |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, \% | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| Mvmt Flow | 4 | 2 | 295 | 1 | 1 | 0 | 891 |




## Notes

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

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |


| Major/Minor | Minor2 | Major1 | Major2 |  |  |
| :--- | ---: | ---: | ---: | ---: | :--- |
| Conflicting Flow All | 1609 | 1032 | 1480 | 0 | - |
| $\quad$ Stage 1 | 1032 | - | - | - | - |

HCM LOS F

| Minor Lane/Major Mvmt | NBL | NBT EBLn1 EBLn2 | SBT | SBR |  |
| :--- | ---: | ---: | ---: | ---: | :--- |
| Capacity (veh/h) | 455 | - | 97 | 283 | - |

## Notes

$\sim$ : Volume exceeds capacity $\quad \$$ : Delay exceeds $300 \mathrm{~s} \quad+$ : Computation Not Defined $\quad$ : All major volume in platoon

| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBU | SBL | SBT |
| Lane Configurations | Mr |  | F |  |  | A | 4 |
| Traffic Vol, veh/h | 2 | 1 | 469 | 1 | 4 | 1 | 1047 |
| Future Vol, veh/h | 2 | 1 | 469 | 1 | 4 | 1 | 1047 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | - | None |
| Storage Length | 0 | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | 1 | - | 0 | - | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | - | 0 |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 1 | 499 | 1 | 4 | 1 | 1114 |




## Notes

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



| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.1 |  |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBU | SBL | SBT |
| Lane Configurations | $\mathbf{r}$ |  | $\uparrow$ |  |  | a | 个 |
| Traffic Vol, veh/h | 4 | 2 | 292 | 1 | 1 | 0 | 892 |
| Future Vol, veh/h | 4 | 2 | 292 | 1 | 1 | 0 | 892 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | - | None |
| Storage Length | 0 | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | 1 | - | 0 | - | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | - | 0 |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, \% | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| Mvmt Flow | 4 | 2 | 311 | 1 | 1 | 0 | 949 |




## Notes

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



| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |




## Notes

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

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |




HCMLOS B

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | - | - | 430 | + |



## Notes

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

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |




HCMLOS C



## Notes

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



| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.2 |  |  |  |  |  |  |


HCMLOS B

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | - | -402 | + | - |
| HCM Lane V/C Ratio | - | -0.045 | - | - |
| HCM Control Delay (s) | - | -14.4 | - | - |
| HCM Lane LOS | - | - | $B$ | - |
| HCM 95th \%tile Q(veh) | - | - | - |  |
| Notes |  |  |  | - |
| $\because$ Volume exceeds capacity | \$: Delay exceeds 300s | $+:$ Computation Not Defined | *: All major volume in platoon |  |



## Notes

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



| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |



| Approach | WB | NB | SB |
| :--- | :---: | :---: | :---: |
| HCM Control Delay, s | 18.3 | 0 |  |

HCM LOS C

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | - | -282 | $\sim$ | - |  |
| HCM Lane V/C Ratio | - | -0.038 | $\sim$ | - |  |
| HCM Control Delay (s) | - | -18.3 | - | - |  |
| HCM Lane LOS | - | - | $C$ | - | - |
| HCM 95th \%tile Q(veh) | - | - | 0.1 | $\sim$ | - |

## Notes

$\sim$ : Volume exceeds capacity $\$$ : Delay exceeds $300 s \quad+$ : Computation Not Defined $\quad$ : All major volume in platoon


## Notes

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



| Intersection |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.2 |  |  |  |  |  |  |




## Notes

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

## Appendix C

## PEAK HOUR VOLUME WARRANT \#3

(Rural Area)
Silverado Trail/Oak Knoll Ave


- = Existing (2019) Friday without Project

O = Existing (2019) Saturday without Project
O = 2025 Friday without Project
$O=2025$ Saturday without Project
O $=2030$ Friday without Project
$O=2030$ Saturday without Project

* NOTE

100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE

Source: Year 2014 Manual on Uniform Traffic Control Devices, Federal Highway Administration

## Appendix D



Multiple Accidents - same location





Multiple Accidents - same location


## Appendix E

## SIGNORELLO WINERY DRIVEWAY

Friday Hourly Percent of Total Trips
Friday, September 20, 2019


Total In/Out - 62 Vehicles

## SIGNORELLO WINERY DRIVEWAY

Friday Hourly Percent of Total Trips
Friday, October 4, 2019


## Appendix Figure E-1

Friday Traffic Totals and Percentages

## SIGNORELLO WINERY DRIVEWAY

## Friday Hourly Percent of Total Trips

Saturday, September 21, 2019


## SIGNORELLO WINERY DRIVEWAY

Friday Hourly Percent of Total Trips
Saturday, October 5, 2019


Total In/Out - 60 Vehicles

## Appendix Figure E-2

## SIGNORELLO WINERY

## Existing Conditions Winery Traffic Information / Trip Generation

## Determine Winery Daily Trips. Complete Sections A through I below to determine your winery project's estimated baseline daily, peak hour trips, and annual trips.

| 1. | Total number of FT employees ${ }^{1}$ : | $=12.2$ daily trips |
| :---: | :---: | :---: |
| 2. | Total number of PT employees ${ }^{1}$ : $\quad 0 \times 1.90$ one-way trips per employee | 0 daily trips |
| 3. | Maximum weekday visitors ${ }^{2}$, $20 / 2.6$ visitors per vehicle $\times 2$ one-way trips | 15.4 daily trips |
| 4. | Gallons of production: $20,000 / 1,000 \times 0.009$ daily truck trips ${ }^{3} \times 2$ one-way trips | 0.4 daily trips |
| 5. | TOTAL | $=28$ daily trips |

## Section B. Maximum Daily Weekday Traffic (Friday, harvest season)



## Section C. Maximum Daily Weekend Traffic (Saturday, non-harvest season)

| 12. | Total number of FT Sat. employees ${ }^{1}: \frac{4}{2} \times 3.05$ one-way trips per employee | $=12.2$ daily trips |
| :--- | ---: | :--- |
| 13. | Total number of PT Sat. employees ${ }^{1}: 0 \times 1.90$ one-way trips per employee | $=0$ daily trips |
| 14. | Maximum Saturday visitors ${ }^{2}: 20 / 2.8$ visitors per vehicle $\times 2$ one-way trips | $=14.3$ daily trips |
| 15. | Gallons of production: $20,000 / 1,000 \times 0.009$ daily truck trips ${ }^{3} \times 2$ one-way trips | $=0.4$ daily trips |
| 16. | TOTAL | $=27$ daily trips |

## Section D. Maximum Daily Weekend Traffic (Saturday, harvest season)

17. Total number of FT Sat. employees ${ }^{1}$ : $4 \times 3.05$ one-way trips per employee
18. Total number of PT Sat. employees ${ }^{1}$ :_ $0 \times 1.90$ one-way trips per employee
19. Maximum Saturday visitors ${ }^{2}$ : $20 / 2.8$ visitors per vehicle $\times 2$ one-way trips
20. Gallons of production: $20,000 / 1,000 \times 0.009$ daily truck trips $\times 2$ one-way trips
21. 

Avg. annual tons of grape on-haul:_ 46.6 / 144 truck trips $\times 2$ one-way trips
$=12.2$ daily trips
$=0 \quad 0$ daily trips
$=14.3$ daily trips
$=0.0$ daily trips
$=\quad 0.6$ daily trips
$=\quad \mathbf{2 8}$ daily trips

[^1]
## SIGNORELLO WINERY

## Existing Conditions Winery Traffic Information / Trip Generation (continued)

Section E. PM Peak Hour Trip Generation (Friday, non-harvest season)


Section F. PM Peak Hour Trip Generation (Friday, harvest season)
(Sum of daily trips, Sec. B, lines $8,9,10) \times 0.38+($ No. of $F T E)+($ line $7 / 2)=11 \quad$ PM peak trips
$7+4$
Section G. PM Peak Hour Trip Generation (Saturday, non-harvest season)
(Sum of daily trips from Sec. C, line 14 and 15) $\times 0.57+($ No. of FTE) $+($ line $13 / 2$ )
$=13$ PM peak trips

9
$+\quad 4$
Section H. PM Peak Hour Trip Generation (Saturday, harvest season)
(Sum of daily trips Sec. D, lines 19, 20, and 21) $\times 0.57$ + (No. of FTE) + (line 18/2)
$=13$ PM peak trips
$9+4$
Section I. Maximum Annual Trips


## SIGNORELLO WINERY

## Proposed Project Winery Traffic Information / Trip Generation

## Determine Winery Daily Trips. Complete Sections J through R below to determine your winery project's estimated future daily, peak hour trips, and annual trips.

## Section J. Maximum Daily Weekday Traffic (Friday, non-harvest season)

1. Total number of FT employees ${ }^{1}: \quad 16 \times 3.05$ one-way trips per employee
2. Total number of PT employees ${ }^{1}: \quad 0 \times 1.90$ one-way trips per employee
=

$$
\text { Maximum weekday visitors }{ }^{2} \text { : } \quad 60 / 2.6 \text { visitors per vehicle } \times 2 \text { one-way trips }
$$

Gallons of production: $50,000 / 1,000 \times 0.009$ daily truck trips ${ }^{3} \times 2$ one-way trips
$=48.8$ daily trips
$=0$ daily trips
$=46.2$ daily trips
$=0.9$ daily trips
$=96$ daily trips
5.

TOTAL $\qquad$ daily trips

## Section K. Maximum Daily Weekday Traffic (Friday, harvest season)

6. Total number of FT employees ${ }^{1}$ : $16 \times 3.05$ one-way trips per employee
7. Total number of PT employees ${ }^{1}: \quad 4 \times 1.90$ one-way trips per employee
8. Maximum weekday visitors ${ }^{2}$ : $60 / 2.6$ visitors per vehicle $\times 2$ one-way trips
9. Gallons of production: $50,000 / 1,000 \times 0.009$ daily truck trips $\times 2$ one-way trips
10. Avg. annual tons of grape on-haul:_213.3/144 truck trips $\times 2$ one-way trips
11. 

TOTAL


Section L. Maximum Daily Weekend Traffic (Saturday, non-harvest season)
12. Total number of FT Sat. employees ${ }^{1}$ : $11 \times 3.05$ one-way trips per employee
13. Total number of PT Sat. employees ${ }^{1}$ : $\quad 0 \times 1.90$ one-way trips per employee
14. Maximum Saturday visitors ${ }^{2}$ : $60 / 2.8$ visitors per vehicle $\times 2$ one-way trips
15. Gallons of production: $50,000 / 1,000 \times 0.009$ daily truck trips ${ }^{3} \times 2$ one-way trips
$=33.6$ daily trips
$=0 \quad 0$ daily trips
$=42.9$ daily trips
$=0.9$ daily trips
$=78$ daily trips

TOTAL
$=48.8$ daily trips
$=7.6$ daily trips
$=46.2$ daily trips
$=0.9$ daily trips
$=3.0$ daily trips
$=107$ daily trips
16.

## Section M. Maximum Daily Weekend Traffic (Saturday, harvest season)

17. 

Total number of FT Sat. employees ${ }^{1}$ : $11 \times 3.05$ one-way trips per employee Total number of PT Sat. employees ${ }^{1}: \quad 4 \times 1.90$ one-way trips per employee Maximum Saturday visitors ${ }^{2}$ : $\quad 60 / 2.8$ visitors per vehicle $\times 2$ one-way trips Gallons of production: $50,000 / 1,000 \times 0.009$ daily truck trips $\times 2$ one-way trips Avg. annual tons of grape on-haul:_ 213.3 / 144 truck trips $\times 2$ one-way trips
$=33.6$ daily trips
$=7.6$ daily trips
$=42.9$ daily trips
$=0.9$ daily trips
$=3.0$ daily trips
$=\mathbf{8 8}$ daily trips

[^2]
# SIGNORELLO WINERY 

## Proposed Project Winery Traffic Information / Trip Generation (continued)

Determine Winery Peak Hour Trips. If the number of daily trips on either Section K, line 11, or Section M, line 21, is greater than 20, or Public Works Director determines that other circumstances such as access safety or other potential network impacts warrant further analysis, then the potential transportation impacts of your project must be evaluated in a traffic impact study (TIS) prepared in accordance with Napa County Public Works TIS Guidelines. Follow the direction outlined in Traffic Impact Study Analysis, below. If the number of daily trips on either Section $K$, line 11, or Section $M$, line 22, is equal to or less than 20, complete Sections $N$ through $R$ below to determine your project's estimated peak hour trips and annual trips. In lieu of completing Sections $\mathbf{N}$ through $R$, you may opt to prepare a project-specific traffic impact analysis if you anticipate the number of peak hour trips from your proposal is different from that estimated here.

Section N. PM Peak Hour Trip Generation (Friday, non-harvest season) (Sum of daily trips from Sec. J, lines 3 and 4) x $0.38+($ No. of FTE) + (line $2 / 2$ ) $\qquad$
$18+16$
Section O. PM Peak Hour Trip Generation (Friday, harvest season)
(Sum of daily trips from Sec. K, lines $8,9,10) \times 0.38+($ No. of FTE) $+($ line $7 / 2)$ $\qquad$ $19+18$

Section P. PM Peak Hour Trip Generation (Saturday, non-harvest season)
(Sum of daily trips from Sec. L, line 14 and 15) x 0.57 + (No. of FTE) + (line 13/ 2)
$25+11$
Section Q. PM Peak Hour Trip Generation (Saturday, harvest season)
(Sum of daily trips, Sec. M, lines 19, 20, and 21) $\times 0.57$ + (No. of FTE) + (line $18 / 2$ )
$\qquad$ _PM peak trips
$\qquad$

Section R. Maximum Annual Trips
(Sec. J, line $5 \times 206)+($ Sec. K, line $11 \times 55)+($ Sec. L, line $16 \times 82)+($ Sec. $M$, line $22 \times 22)=33,993$ Annual trips

$$
19,776+5,885+6,396+1,936
$$

Traffic Impact Study Analysis. If the number of daily trips on either Section K, line 11, or Section M, line 22, is greater than 20, then the potential transportation impacts of your project must be evaluated in a traffic impact study (TIS) prepared in accordance with Napa County Public Works TIS Guidelines. Existing trip counts on the transportation network should be collected during the harvest season (August 16 - October 31). If collected outside of the harvest season, during the months of November through February, counts shall be adjusted upward by 15 percent to estimate harvest season network volumes. If collected during the weeks between March 1 and August 15, counts shall be adjusted upward by seven percent.

## SIGNORELLO WINERY

For peak hour analysis in the TIS, the County will allow any one of the following methodologies:
a) Use the peak hour factors in Sections E through I, above, to estimate the peak hour trips and annual trips generated by the project. To determine the potential peak hour impacts of the project, apply the harvest season estimated peak hour project trips (Sections $F$ and $H$ for the existing condition, and Sections $O$ and $Q$ for the proposed project) to roadway volumes during the hour between 3:00 p.m. and 4:00 p.m. on Fridays and Saturdays; or
b) For New Wineries use peak hour trip counts as projected using the Institute for Transportation Engineers' (ITE) peak hour factors for winery land uses from the most current version of ITE Trip Generation. To determine the potential peak hour impacts of the project, apply the estimated peak hour project trips from ITE to roadway volumes during the hour between 4:00 p.m. and 5:00 p.m. on a Friday and 1:45 p.m. and 2:45 p.m. on a Saturday; or
c) Conduct a site-specific analysis informed by actual trip counts at the driveway of the project (for winery use permit modifications) or at the driveway of a project with comparable operating characteristics to that proposed (for new winery use permits). To determine the potential peak hour impacts of the project, apply the site-specific peak hour of generator to the peak hour of the network on a Friday and the peak hour of the roadway on a Saturday, based on the assembled trip count data.

For Average Daily Traffic (ADT) analysis in the TIS, the County will utilize one of the following methodologies:
a) Average of the Maximum Daily Weekday Traffic and the Maximum Daily Weekend Traffic during the harvest season, as given in the Winery Traffic Information / Trip Generation worksheet.
b) A site specific analysis which at a minimum 24-hour vehicle counts shall be collected during a continuous week period (7-days) for which traffic count data is collected for each day of the week. Existing trip counts should be collected during the harvest season (August 16 - October 31). If collected outside of the harvest season, during the months of November through February, counts shall be adjusted upward by 15 percent to estimate harvest season network volumes. If collected during the weeks between March 1 and August 15, counts shall be adjusted upward by seven percent. Projected daily trip counts shall be based on total number of full-time employee, part-time employees, daily visitors, gallons of production, grape on-haul and the factors identified in the Proposed Winery Traffic Information and Trip Generation worksheet, respectively.
c) For land uses other than wineries, the ADT shall be determined using the most current version of ITE Trip Generation.

## Appendix F

# APPENDIX F <br> <br> Signorello Winery <br> <br> Signorello Winery <br> <br> Transportation Demand Management (TDM) Plan 

 <br> <br> Transportation Demand Management (TDM) Plan}

1. A Signorello administrative employee will be appointed TDM manager
2. Financial incentives will be provided for employees to participate in carpools \& vanpools
3. Electric car charging facilities will be provided for employees and guests
4. Bike racks and storage areas will be provided for employees and guests
5. High occupancy vehicle use (vans and shuttle buses) will be encouraged for large marketing events
6. Employee work hours will be staggered to the greatest extent possible to avoid congestion during the peak traffic hours along Silverado Trail
7. Work at home or at remote location opportunities (telecommuting) will be offered when possible
8. Guest appointments will be scheduled, to the extent possible, to avoid travel during the peak traffic hours along Silverado Trail
9. The Winery will enroll in "Napa Valley Forward", a program aimed at reducing traffic along major roads in the Napa Valley by promoting carpooling, vanpooling, bike riding, and use of transit
10. The winery will enroll in the "Bay Area Commuter Benefits Program" whereby employees report their carpooling activities and receive company paid subsidies

[^0]:    ${ }^{1}$ According to the Circulation Element dated June 8, 2008, the following intersections can be altered or expanded as a mitigation measure: SR-12/Airport Boulevard/SR-29, SR-221/SR-12/Highway 29, and several intersections along SR-29 and SR-128 north of Napa. The significance criteria shown above should apply to facilities where appropriate based upon the most recent Circulation Element chapter of the General Plan.

[^1]:    ${ }^{1}$ Full-Time and part-time employees that staff the largest of any event that is proposed to occur two or more times in a month, on average.
    ${ }^{2}$ The number of weekday visitors shall include guests of the largest of any event that is proposed to occur two or more times in a month, on average.
    ${ }^{3}$ Assumes 1.47 materials and supplies trips +0.8 case goods trips per 1,000 gallons of production / 250 days per year

[^2]:    ${ }^{1}$ Full-Time and part-time employees that staff the largest of any event that is proposed to occur two or more times in a month, on average.
    ${ }^{2}$ The number of weekday visitors shall include guests of the largest of any event that is proposed to occur two or more times in a month, on average.
    ${ }^{3}$ Assumes 1.47 materials and supplies trips +0.8 case goods trips per 1,000 gallons of production $/ 250$ days per year

