# Koinonia Ranch Minor Subdivision Transportation Memorandum PCD File No.: SP-21-004 (SC \#S204710) <br> June 1, 2023 

## Traffic Engineer's Statement

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


## Developer's Statement

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


# Koinonia Ranch Minor Subdivision Transportation Memorandum 

Prepared for:
Sally Bartels
3647 Tuscanna Grove
Colorado Springs, CO 80920-2820

JUNE 1, 2022

LSC Transportation Consultants
Prepared by: Jeffrey C. Hodsdon, P.E.

PCD File No. SP-21-004
LSC \#204710

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Level of Service Reports

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June 1, 2023

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RE: Koinonia Ranch Minor Subdivision<br>Transportation Memorandum<br>El Paso County, CO<br>PCD File No. SP-21-004<br>LSC \#204710

Dear Ms. Bartels,

LSC Transportation Consultants, Inc. has prepared this transportation memorandum for the proposed Koinonia Ranch residential development located in El Paso County, Colorado. The proposed development will be located on El Paso County parcel 5219000059. The site is north of Old Ranch Road approximately 3,500 feet west of the intersection with Black Forest Road.

The parcel is proposed to be subdivided into six single-family lots. The existing home on the site will remain on one of the subdivision lots. This report presents the estimated vehicle-trip generation and roadway impacts of the proposed development. This report has been prepared for submittal to El Paso County.

## REPORT CONTENTS

The preparation of this report included the following:

- Inventory of the existing adjacent and nearby roadway system. This includes functional classifications, roadway width and surface condition, posted speed limit, intersection/access spacing, intersection sight distance, etc.;
- A review of the proposed site land use and access location;
- Crash history at the intersection of Black Forest Road/Old Ranch Road;
- Estimates of current traffic volumes on Old Ranch Road adjacent to the site;
- Estimates of the net new and total daily and peak-hour trip generation for the proposed subdivision;
- The estimated directional distribution of site-generated vehicle trips;
- Projections of additional daily trips on Old Ranch Road in the vicinity of the site;
- Projections of peak-hour site-generated turning-movement traffic volumes at the site-access intersection;
- Evaluation of the post-development traffic volumes on Old Ranch Road in the vicinity of the site and at the site-access intersection; and
- Findings and recommendations.


## RECENT TRAFFIC REPORTS

Black Forest Road Widening Project Traffic Impact Study - November 2019 (AECOM) - Prepared for the City of Colorado Springs.

## LAND USE/ACCESS

## Proposed Koinonia Minor Subdivision

Figure 1 shows the site location relative to the adjacent and nearby roadways. The site is located on the north side of Old Ranch Road approximately 3,500 feet west of the intersection with Black Forest Road. There is currently an existing driveway to the existing single-family home on the parcel located 3,575 feet west of Black Forest Road (centerline-to-centerline).

Figure 2 shows the site plan and proposed access point. As shown, the proposed subdivision road to serve the development is planned to be located approximately 190 feet west of the existing driveway. The proposed subdivision road will replace the existing residential driveway, which will be closed. This subdivision access/proposed road intersection with Old Ranch Road is proposed to be full-movement.

## OTHER AREA PARCELS ADJACENT TO OLD RANCH ROAD

- The Black Forest Saddle Club also accesses Old Ranch Road. This is an existing land use.
- The Wolf Ranch Master Plan (City of Colorado Springs) along the south side of Old Ranch Road will not add a vehicular access to Old Ranch Road.

This report also considers potential future trip generation by other area potential future land uses:

- The parcel northwest of Black Forest Road/Old Ranch Road - 10650 Black Forest Road (EDARP EA\# 21214) has the potential to add four lots which would access Old Ranch Road west of Black Forest Road.
- The vacant lot west of this site.


## ROAD AND TRAFFIC CONDITIONS

Streets adjacent to the site are identified below, followed by a brief description of each:

Old Ranch Road in the vicinity of the site, the roadway extends approximately 5,700 feet to the west from Black Forest Road where it ends at the intersection with Forest Drive. The El Paso County Road Book (2019) identifies this segment of Old Ranch Road as a County-maintained, 30-foot-wide gravel roadway with 60 feet of right-of-way. The posted speed limit is 25 mph . The functional classification as listed in the Road Book is "Urban Area - Local" and the administration classification is "Secondary Service." The MTCP 2040 classification of Old Ranch Road, according to County staff, is Rural Major Collector (and shown on Map 14 of the MTCP).

MTCP Map 7 and Map 11 (Gravel Road Analysis - existing and 2040, respectively, show this section of Old Ranch Road as "Adequate." Therefore, the roadway existing/baseline condition should not be considered "deficient" as it does not appear that significant changes have occurred, with respect to trip loading to Old Ranch Road, since the adoption of the MTCP.

Approximately one mile west of the end of Old Ranch Road, there is another segment of Old Ranch Road that extends from Milam Road to west of Voyager Parkway. This western segment of Old Ranch Road is paved. It is anticipated that the two segments of Old Ranch Road may be connected in the future, although it is not shown in any long-term plans.

Black Forest Road is a two-lane minor arterial. The roadway extends from just south of Woodmen Road north to the county line. The intersection with Old Ranch Road is stop-controlled. The roadway is planned for improvements between Hodgen Road and Stapleton Drive per the 2016 Major Transportation Corridors Plan (MTCP). The posted speed limit is 55 miles per hour (mph) approaching Old Ranch Road in the northbound direction and drops to 40 mph immediately prior to the intersection. In the southbound direction the speed limit is 40 mph .

## Existing Traffic Volumes

Figure 3 shows the traffic volumes on Old Ranch Road and at the intersection of Old Ranch Road and Black Forest Road. The traffic volumes at the Old Ranch Road/Black Forest Road are based on turning-movement count data and the daily volume shown for Old Ranch Road just west of the Black Forest Road intersection has been based on actual counts for most of a 24 -hour period. LSC has estimated existing traffic volumes on Old Ranch Road adjacent to the site and for the existing property access driveway.

## Crash History

Three years of crash history were analyzed at the intersection of Old Ranch Road/Black Forest Road. Only one crash was recorded during the study period, which was a rear-end crash that did not result in any injuries.

## SITE ACCESS

Per the El Paso County Engineering Criteria Manual, intersections on a collector are required to have a minimum spacing of $1 / 4$ mile. The proposed access location will meet this minimum in both directions.

The intersection will have a required sight distance of 335 feet assuming a posted speed limit of 25 mph . The proposed subdivision road/access intersection with Old Ranch Road is anticipated to meet the required minimum sight distance in both directions. The required intersection line-of-sight "triangles" should be maintained and free of site improvements (that would limit the line of sight needed to maintain prescribed sight distance). Examples of site improvements include site grading, structures, landscaping, monument signs, parking areas, berms, etc.

## OLD RANCH ROAD CONNECTION SCENARIO

As mentioned previously, there is a potential for the two segments of Old Ranch Road to be connected in the future. An analysis was completed to determine the long-term impacts of the proposed development, should such a connection occur in the future. To forecast the volume of traffic traveling on Old Ranch Road, the Pikes Peak Area Council of Government (PPACG) travel demand model was modified (by LSC) with the connection. Based on LSC model projections, it is estimated that Old Ranch Road will carry 4,500 vehicles per day. Historical count data on the west segment of Old Ranch Road was used to estimate the peak-hour directional traffic.

## TRIP GENERATION ESTIMATE

Estimates of the vehicle trips projected to be generated by the proposed site have been made using the nationally-published average trip-generation rates in Trip Generation, 11th Edition, 2021 by the Institute of Transportation Engineers (ITE). The land use code 210 Single-Family Housing was used to calculate site-generated traffic.

Table 1 below presents a summary of the estimated site trip generation for the proposed development. A detailed trip-generation estimate for the site, including ITE rates, is presented in Table 2 (attached).

Table 1: Estimated New Trip-Generation Summary

| Analysis Period |  | Weekday |  |
| :--- | :---: | :---: | :---: |
|  | In | Out | Total |
| Morning peak hour (vehicle trips/hour) | 1 | 3 | 4 |
| Evening peak hour (vehicle trips/hour) | 3 | 2 | 5 |
| Weekday - 24-hour total (vehicle trips/day) | 24 | 24 | 47 |

Based on the ITE estimate for the proposed development, the site would generate approximately 47 net new vehicle trips on the average weekday, with half entering and half exiting the site. Approximately 1 entering vehicles and 3 exiting vehicles are projected for the weekday morning peak hour and 3 entering vehicles and 2 exiting vehicles are projected for the weekday evening peak hour.

## TRIP DIRECTIONAL DISTRIBUTION \& SITE-GENERATED TRAFFIC

## Site-Generated Traffic Volumes Prior to the Potential Future Old Ranch Connection

Figure 4 shows the directional-distribution estimate for the proposed development. This assumes almost all trips oriented to/from the east.

Site-generated traffic volumes at the access intersection and at the intersection of Black Forest Road/Old Ranch Road have been calculated by applying the directional-distribution percentages estimated by LSC to the trip-generation estimates (from Table 2). Figure 5 shows estimates of the new site-generated traffic to be added by the proposed subdivision (net new trips from the five additional lots).

## Site-Generated Traffic Volumes with Potential Future Old Ranch Connection

Appendix Figure 1 shows (for reference) the projected directional-distribution estimate and the site-generated traffic volumes at the access intersection if and when Old Ranch is extended west to Milam Road. Trip-distribution estimates for this scenario have been based on the following factors: the area roadway system and the Pikes Peak Area Council of Governments (PPACG) travel demand model. As shown, it has been assumed that 66 percent of site-generated traffic would travel to/from the west via Old Ranch Road.

## FUTURE TOTAL TRAFFIC VOLUMES

## Short-Term Total Traffic Volumes

Figure 6 shows the estimated short-term total traffic (existing traffic plus the projected new post-development ("build") traffic volumes from Figure 5). These volumes assume Old Ranch Road prior to a possible future extension to Milam Road.

## 2043 Projected Background Traffic Volumes

Figure 7 shows the estimated long-term background traffic volumes. These volumes assume Old Ranch Road prior to a possible future extension to Milam Road. Future background traffic volumes are based, in part, on projections contained in the Black Forest Road Widening Project Traffic Impact Study - November 2019 (AECOM) - Prepared for the City of Colorado Springs.

These volumes also include potential additional trips from the Black Forest Subdivision and one additional vacant lot along Old Ranch Road.

## 2043 Projected Total Traffic Volumes

Figure 8 shows the estimated long-term total traffic (2043 background traffic plus the projected new post-development ("build") traffic volumes from Figure 5). These volumes assume Old Ranch Road prior to a possible future extension to Milam Road.

## Post-Development Projected Total Volumes with Potential Future Old Ranch Connection

Appendix Figure 2 shows the projected long-term total volumes at the site access if and when Old Ranch is extended west to Milam Road.

## INTERSECTION LEVEL OF SERVICE ANALYSIS

Level of service (LOS) is a quantitative measure of the level of congestion or delay at an intersection and is indicated on a scale from "A" to "F." LOS A is indicative of little congestion or delay. LOS F indicates a high level of congestion or delay. Table 3 shows the level of service delay ranges for signalized and unsignalized intersections. Figure 6 and Figure 8 provides the levels of service for the projected post-development ("build")/total traffic scenarios.

Table 3: Intersection Levels of Service Delay Ranges

|  | Signalized Intersections | Unsignalized Intersections |
| :---: | :---: | :---: |
| Level of Service | Average Control Delay <br> (seconds per vehicle) | Average Control Delay (seconds per <br> vehicle) ${ }^{(\mathbf{1})}$ |
| A | 10.0 sec or less | 10.0 sec or less |
| B | $10.1-20.0 \mathrm{sec}$ | $10.1-15.0 \mathrm{sec}$ |
| C | $20.1-35.0 \mathrm{sec}$ | $15.1-25.0 \mathrm{sec}$ |
| D | $35.1-55.0 \mathrm{sec}$ | $25.1-35.0 \mathrm{sec}$ |
| E | $55.1-80.0 \mathrm{sec}$ | $35.1-50.0 \mathrm{sec}$ |
| F | 80.1 sec or more | 50.1 sec or more |

(1) For unsignalized intersections if $\mathrm{V} / \mathrm{C}$ ratio is greater than 1.0 the level of service is LOS F regardless of the projected average control delay per vehicle.

## Old Ranch Road/Site Access

The site access intersection has been analyzed to determine the projected control delay and corresponding levels of service for turning movements. The level of service would be " $A$ " in the short- and long-term scenarios.

## Old Ranch Road/Black Forest Road

The Old Ranch Road/Black Forest Road intersection is projected to operate at LOS B or better in the short term and LOS C or better based on the long-term scenario shown in Figure 8.

## Post-Development Projected Long-Term LOS with Potential Future Old Ranch Connection

As shown in Appendix Figure 2, all yielding turning movements at the site access are projected to operate at LOS B or better during both peak hours in the long term, assuming the future Old Ranch Road connection.

## OLD RANCH ROAD FUTURE PROJECTED VOLUMES AND "LINK LOS"

As mentioned previously, there is not a current project planned to connect the two segments of Old Ranch Road. Prior to this connection, all site-generated traffic, as well as all traffic generated by parcels accessing Old Ranch Road, will use the Old Ranch Road/Black Forest intersection. Note: These volumes are included in the volumes shown in Figure 8.

The attached Appendix Figure 3 shows the combined total projected new traffic on Old Ranch Road (prior to a possible future extension to Milam Road). This estimate includes total traffic for 10 new lots on Old Ranch Road: 5 lots within Koinonia Ranch, 4 lots for Black Forest Subdivision, and development of on additional currently-undeveloped residential lot.

The projected total ADT adjacent to and just east of the site is not anticipated to exceed the design ADT of a Rural Gravel Roadway. Based on estimated ADT (based on ITE rates) just west of Black Forest Road (but east of the easternmost residential driveway), both the existing (estimated) and post-development (build) ADT would be over 200 vpd , but less than 300 vpd . This is based on ITE trip generation for ten single-family homes to the east with access to Old Ranch between the site and Black Forest Road (about 100 background trips generated). However, as the projected ADT on the east near Black Forest Road is projected to exceed 200 vpd , a deviation request is required to keep the roadway gravel. This deviation has been prepared and is included with this submittal.

## AUXILIARY TURN LANES

No additional auxiliary lanes are necessary with this proposed development.
As shown, all parcels with access to Old Ranch Road, including the proposed development, are projected to generate less than 25 vehicles inbound or outbound during the peak hours. This indicates that with the current configuration of Old Ranch Road, no thresholds for auxiliary lanes would be met at the intersection of Old Ranch Road/Black Forest Road, with or without the proposed development. As indicated above, three years of crash history were analyzed at the
intersection of Old Ranch Road/Black Forest Road. Only one crash was recorded during the study period, which was a rear-end crash that did not result in any injuries.

## MTCP ROADWAY IMPROVEMENTS

The 2016 El Paso County Major Transportation Corridor Plan (MTCP) shows that Black Forest Road between Hodgen Road and Stapleton Drive is identified for "rural road upgrade" - - MTCP project ID U11.

## PEDESTRIAN AND BICYCLE ACCOMMODATION

There are currently no sidewalks, bike lanes, or trails in the vicinity of the site. The subdivision road will be a rural gravel road and sidewalks are not required.

## COUNTY ROAD IMPROVEMENT FEE PROGRAM

This subdivision will be required to participate in the Countywide Road Impact Fee program. The applicant has selected the "opt-out" option. The fee obligation per residential dwelling unit will be payable at the time of the building permit. This fee amount per dwelling unit is $\$ 3,830.00$. Based on 5 new homes, the total building permit fee would be $\$ 19,150$. Note: program fees are subject to change.

## REIMBURSABLE MTCP IMPROVEMENTS

A potentially reimbursable road improvement in the vicinity is the Black Forest Road rural upgrade - MTCP project ID U11. Old Ranch Road is shown as a "Collector" on the MTCP and could potentially be added to the MTCP reimbursable project list in the future.

## DEVIATIONS

Two deviations have been prepared for inclusion with this application. Please refer to the separate deviation request forms.

- A deviation for length of cul-de-sac.
- A deviation to keep Old Ranch Road as a gravel roadway.


## FINDINGS AND CONCLUSIONS

## Trip Generation

- The development is expected to generate approximately 47 net new vehicle trips on the average weekday, with approximately 4 trips occurring during the morning peak hour and 6 trips during the evening peak hour.


## Auxiliary Turn Lanes

- No additional auxiliary lanes or other improvements are required for the proposed development.


## Old Ranch Road

- The projected total ADT adjacent to and just east of the site is not anticipated to exceed the design ADT of a Rural Gravel Roadway. Based on estimated ADT (based on ITE rates) just west of Black Forest Road (but east of the easternmost residential driveway), both the existing (estimated) and post-development (build) ADT would be over 200 vpd, but less than 300 vpd .

Please contact me if you have any questions.
Respectfully Submitted,

LSC TRANSPORTATION CONSULTANTS, INC.

By Jeffrey C. Hodsdon, P.E.
Principal

JCH:jas

Enclosures: Table 2
Figures 1-8
Appendix Figures 1-3
Level of Service Reports

## References:

Trip Generation, $11^{\text {th }}$ Edition, 2021, Institute of Transportation Engineers
El Paso County Major Transportation Corridors Plan, 2016
Engineering Criteria Manual, 2016, El Paso County
Black Forest Road Widening Project Traffic Impact Study - November 2019 (AECOM) - Prepared for the City of Colorado Springs.

Table 2

Table 2: Detailed Trip Generation Estimate - Koinonia Ranch Minor Subdivision


Figures 1-8










## Appendix Figures 1-3





## Traffic Counts

File Name : black forest rd - old ranch rd am
Site Code : OS24340
Start Date : 6/22/2022
Page No : 1

Groups Printed- Unshifted


File Name : black forest rd - old ranch rd am
Site Code : OS24340
Start Date : 6/22/2022
Page No :2

|  | Black Forest Rd Southbound |  |  |  |  | Westbound |  |  |  |  | Black Forest Rd Northbound |  |  |  |  | Old Ranch Rd Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 06:30 AM to 08:25 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:30 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:30 AM | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 26 |
| 07:35 AM | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 30 |
| 07:40 AM | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 1 | 0 | 0 | 0 | 1 | 25 |
| 07:45 AM | 0 | 22 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 16 | 1 | 0 | 0 | 0 | 1 | 39 |
| 07:50 AM | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 1 | 0 | 1 | 39 |
| 07:55 AM | 0 | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 29 |
| 08:00 AM | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 1 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 31 |
| 08:05 AM | 0 | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 24 |
| 08:10 AM | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 37 |
| 08:15 AM | 0 | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 1 | 0 | 0 | 0 | 1 | 45 |
| 08:20 AM | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 2 | 0 | 0 | 0 | 2 | 34 |
| 08:25 AM | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 32 |
| Total Volume | 0 | 213 | 0 | 0 | 213 | 0 | 0 | 0 | 0 | 0 | 0 | 169 | 3 | 0 | 172 | 5 | 0 | 1 | 0 | 6 | 391 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 98.3 | 1.7 | 0 |  | 83.3 | 0 | 16.7 | 0 |  |  |
| PHF | . 000 | . 592 | . 000 | . 000 | . 592 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 612 | . 125 | . 000 | . 623 | . 208 | . 000 | . 083 | . 000 | . 250 | . 724 |



File Name : Black Forest Rd - Old Ranch Rd PM
Site Code : S224340
Start Date : 6/16/2022
Page No : 1

Groups Printed- Unshifted

|  | Black Forest Rd Southbound |  |  |  |  | Westbound |  |  |  |  | Black Forest Rd Northbound |  |  |  |  | Old Ranch Rd Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:00 PM | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 30 |
| 04:05 PM | 2 | 12 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 38 |
| 04:10 PM | 0 | 25 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 39 |
| 04:15 PM | 1 | 26 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 1 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 45 |
| 04:20 PM | 1 | 14 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 32 |
| 04:25 PM | 0 | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 1 | 0 | 0 | 0 | 1 | 34 |
| 04:30 PM | 0 | 24 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 16 | 1 | 0 | 0 | 0 | 1 | 41 |
| 04:35 PM | 2 | 25 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 45 |
| 04:40 PM | 1 | 23 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 44 |
| 04:45 PM | 1 | 26 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 45 |
| 04:50 PM | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 1 | 0 | 19 | 1 | 0 | 0 | 0 | 1 | 32 |
| 04:55 PM | 0 | 23 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 45 |
| Total | 8 | 238 | 0 | 0 | 246 | 0 | 0 | 0 | 0 | 0 | 0 | 219 | 2 | 0 | 221 | 3 | 0 | 0 | 0 | 3 | 470 |
| 05:00 PM | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 1 | 0 | 1 | 0 | 2 | 34 |
| 05:05 PM | 1 | 20 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 1 | 0 | 27 | 2 | 0 | 3 | 0 | 5 | 53 |
| 05:10 PM | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 45 |
| 05:15 PM | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 28 |
| 05:20 PM | 1 | 18 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 1 | 0 | 1 | 39 |
| 05:25 PM | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 | 1 | 0 | 0 | 0 | 1 | 31 |
| 05:30 PM | 0 | 20 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 2 | 0 | 15 | 2 | 0 | 0 | 0 | 2 | 37 |
| 05:35 PM | 0 | 22 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 1 | 0 | 28 | 0 | 0 | 1 | 0 | 1 | 51 |
| 05:40 PM | 0 | 21 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 1 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 49 |
| 05:45 PM | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 26 |
| 05:50 PM | 0 | 24 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 1 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 39 |
| 05:55 PM | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 29 |
| Total | 2 | 209 | 0 | 0 | 211 | 0 | 0 | 0 | 0 | 0 | 0 | 232 | 6 | 0 | 238 | 6 | 0 | 6 | 0 | 12 | 461 |
| Grand Total | 10 | 447 | 0 | 0 | 457 | 0 | 0 | 0 | 0 | 0 | 0 | 451 | 8 | 0 | 459 | 9 | 0 | 6 | 0 | 15 | 931 |
| Apprch \% | 2.2 | 97.8 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 98.3 | 1.7 | 0 |  | 60 | 0 | 40 | 0 |  |  |
| Total \% | 1.1 | 48 | 0 | 0 | 49.1 | 0 | 0 | 0 | 0 | 0 | 0 | 48.4 | 0.9 | 0 | 49.3 | 1 | 0 | 0.6 | 0 | 1.6 |  |

File Name : Black Forest Rd - Old Ranch Rd PM
Site Code : S224340
Start Date : 6/16/2022
Page No : 2

|  | Black Forest Rd Southbound |  |  |  |  | Westbound |  |  |  |  | Black Forest Rd Northbound |  |  |  |  | Old Ranch Rd Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:55 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:15 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:15 PM | 1 | 26 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 1 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 45 |
| 04:20 PM | 1 | 14 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 32 |
| 04:25 PM | 0 | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 1 | 0 | 0 | 0 | 1 | 34 |
| 04:30 PM | 0 | 24 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 16 | 1 | 0 | 0 | 0 | 1 | 41 |
| 04:35 PM | 2 | 25 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 45 |
| 04:40 PM | 1 | 23 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 44 |
| 04:45 PM | 1 | 26 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 45 |
| 04:50 PM | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 1 | 0 | 19 | 1 | 0 | 0 | 0 | 1 | 32 |
| 04:55 PM | 0 | 23 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 45 |
| 05:00 PM | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 1 | 0 | 1 | 0 | 2 | 34 |
| 05:05 PM | 1 | 20 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 1 | 0 | 27 | 2 | 0 | 3 | 0 | 5 | 53 |
| 05:10 PM | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 45 |
| Total Volume | 7 | 243 | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 232 | 3 | 0 | 235 | 6 | 0 | 4 | 0 | 10 | 495 |
| \% App. Total | 2.8 | 97.2 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 98.7 | 1.3 | 0 |  | 60 | 0 | 40 | 0 |  |  |
| PHF | . 292 | . 779 | . 000 | . 000 | . 772 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 744 | . 250 | . 000 | . 725 | . 250 | . 000 | . 111 | . 000 | . 167 | . 778 |



# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Old Ranch Rd AM V 10-19-22
Site Code : 224340
Start Date : 10/19/2022
Page No : 1

Groups Printed- Class 1

|  | Southbound |  |  |  |  | Old Ranch Rd Westbound |  |  |  |  | Northbound |  |  |  |  | Old Ranch Rd Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Toal | Right | Thru | Left | Peds | App. Toata | Int. Total |
| 06:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 |
| 06:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 4 |


| 07:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| *** BREAK *** 0 l ${ }^{\text {c* }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 4 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 7 |


| $08: 00$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 |
| ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $08: 15$ | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 6 |
| $08: 30$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| $08: 45$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 13 |


| $09: 00$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 3 |
| ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $09: 15$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| $09: 30$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| $09: 45$ | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 11 |


| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10:15 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 8 |
| 10:30 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| *** BREAK *** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 12 |


| *** BREAK *** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:15 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 3 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 7 |


| $12: 00$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $12: 15$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 3 |
| $12: 30$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 4 |
| $12: 45$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 3 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 12 |


| $13: 00$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 6 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $13: 15$ | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 5 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 45 | 77 |
| Apprch \% | 0 | 0 | 0 | 0 |  | 0 | 100 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 100 | 0 | 0 |  |  |
| Total $\%$ | 0 | 0 | 0 | 0 | 0 | 0 | 41.6 | 0 | 0 | 41.6 | 0 | 0 | 0 | 0 | 0 | 0 | 58.4 | 0 | 0 | 58.4 |  |

# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name: Old Ranch Rd PM combo
Site Code : 224340
Start Date : 11/12/2022
Page No :1

Groups Printed- Class 1

|  | Southbound |  |  |  |  | Old Ranch Rd Westbound |  |  |  |  | Northbound |  |  |  |  | Old Ranch Rd Eastbound |  |  |  |  | Int. Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Toala | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Toala | Right | Thru | Left | Peds | App. Toala |  |
| 13:30 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| *** BREAK *** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 4 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| 14:30 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| 14:45 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 14 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 5 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 12 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 4 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 7 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 7 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 22 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 7 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 6 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 17 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| *** BREAK *** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 4 |
| 18:45 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 10 |
| 19:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 19:15 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 19:30 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 5 |
| 19:45 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 11 |


| $20: 00$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $20: 15$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| $20: 30$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| $20: 45$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 9 |

*** BREAK ***
 *** BREAK **

Total
*** BREAK ***

# LSC Transportation Consultants, Inc. 

2504 E. Pikes Peak Ave, Suite 304
Colorado Springs, CO 80909
719-633-2868
File Name : Old Ranch Rd PM combo
Site Code : 224340
Start Date : 11/12/2022
Page No : 2
Groups Printed- Class 1


| 23:15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BREAK *** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |

*** BREAK ***

| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 0 | 0 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 34 | 98 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Apprch \% | 0 | 0 | 0 | 0 |  | 0 | 100 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 100 | 0 | 0 |  |  |
| Total \% | 0 | 0 | 0 | 0 | 0 | 0 | 65.3 | 0 | 0 | 65.3 | 0 | 0 | 0 | 0 | 0 | 0 | 34.7 | 0 | 0 | 34.7 |  |


| Old Ranch Road Hourly Traffic Data and Calculated ADT |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Hourly Interval |  | Link Volume |  | Total |
| Start | End | WB | EB |  |
| 00:00 | 01:00 | 0 | 0 | 0 |
| 01:00 | 02:00 | 0 | 0 | 0 |
| 02:00 | 03:00 | 0 | 0 | 0 |
| 03:00 | 04:00 | 0 | 0 | 0 |
| 04:00 | 05:00 | 0 | 0 | 0 |
| 05:00 | 06:00 | 0 | 0 | 0 |
| 06:00 | 07:00 | 0 | 4 | 4 |
| 07:00 | 08:00 | 1 | 6 | 7 |
| 08:00 | 09:00 | 6 | 7 | 13 |
| 09:00 | 10:00 | 6 | 5 | 11 |
| 10:00 | 11:00 | 4 | 8 | 12 |
| 11:00 | 12:00 | 5 | 2 | 7 |
| 12:00 | 13:00 | 4 | 8 | 12 |
| 13:00 | 14:00 | 6 | 5 | 11 |
| 14:00 | 15:00 | 8 | 6 | 14 |
| 15:00 | 16:00 | 8 | 4 | 12 |
| 16:00 | 17:00 | 10 | 6 | 16 |
| 17:00 | 18:00 | 10 | 8 | 17 |
| 18:00 | 19:00 | 7 | 3 | 10 |
| 19:00 | 20:00 | 8 | 3 | 11 |
| 20:00 | 21:00 | 6 | 3 | 9 |
| 21:00 | 22:00 | 2 | 0 | 2 |
| 22:00 | 23:00 | 0 | 0 | 0 |
| 23:00 | 00:00 | 2 | 0 | 2 |
|  Sum 171 <br> ADT w/Adj. (veh/day) 180  |  |  |  |  |
|  |  |  |  |  |  |


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



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.1 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | $\mathbf{F}$ |  | Mr |  |
| Traffic Vol, veh/h | 0 | 5 | 2 | 0 | 1 | 0 |
| Future Vol, veh/h | 0 | 5 | 2 | 0 | 1 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 5 | 2 | 0 | 1 | 0 |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Conflicting Flow All | 2 | 0 | - | 0 | 7 | 2 |
| $\quad$ Stage 1 | - | - | - | - | 2 | - |
| $\quad$ Stage 2 | - | - | - | - | 5 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | -3.518 | 3.318 |  |
| Pot Cap-1 Maneuver | 1620 | - | - | - | 1014 | 1082 |
| $\quad$ Stage 1 | - | - | - | - | 1021 | - |
| $\quad$ Stage 2 | - | - | - | - | 1018 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1620 | - | - | - | 1014 | 1082 |
| Mov Cap-2 Maneuver | - | - | - | - | 1014 | - |
| Stage 1 | - | - | - | - | 1021 | - |
| Stage 2 | - | - | - | -1018 | - |  |
|  |  |  |  |  |  |  |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0 | 0 | 8.6 |

HCM LOS A

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1620 | - | - | -1014 |
| HCM Lane V/C Ratio | - | - | - | -0.001 |
| HCM Control Delay (s) | 0 | - | - | -8.6 |
| HCM Lane LOS | A | - | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |


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



| Approach | EB | NB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 10.8 | 0.1 | 0 |
| HCM LOS | B |  |  |


| Minor Lane/Major Mvmt | NBL | NBT EBLn1 | SBT | SBR |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1291 | -634 | - | - |  |
| HCM Lane V/C Ratio | 0.003 | - | 0.02 | - | - |
| HCM Control Delay (s) | 7.8 | 0 | 10.8 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | 0.1 | - | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  |  | $\uparrow$ |  | rin |  |
| Traffic Vol, veh/h | 0 |  | 6 | 1 | 0 | 0 |
| Future Vol, veh/h | 0 | 3 | 6 | 1 | 0 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 3 | 7 | 1 | 0 | 0 |


| Major/Minor | Major1 | Major2 |  |  | Minor2 |  |  |
| :--- | ---: | :--- | :--- | :--- | ---: | ---: | :---: |
| Conflicting Flow All | 8 | 0 | - | 0 | 11 | 8 |  |
| $\quad$ Stage 1 | - | - | - | - | 8 | - |  |
| $\quad$ Stage 2 | - | - | - | - | 3 | - |  |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |  |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |  |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |  |
| Follow-up Hdwy | 2.218 | - | - | -3.518 | 3.318 |  |  |
| Pot Cap-1 Maneuver | 1612 | - | - | - | 1009 | 1074 |  |
| $\quad$ Stage 1 | - | - | - | - | 1015 | - |  |
| Stage 2 | - | - | - | - | 1020 | - |  |
| Platoon blocked, \% |  | - | - | - |  |  |  |
| Mov Cap-1 Maneuver | 1612 | - | - | - | 1009 | 1074 |  |
| Mov Cap-2 Maneuver | - | - | - | - | 1009 | - |  |
| Stage 1 | - | - | - | - | 1015 | - |  |
| Stage 2 | - | - | - | - | 1020 | - |  |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0 | 0 | 0 |
| HCM LOS |  | A |  |


| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1612 | - | - | - | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s) | 0 | - | - | - | 0 |
| HCM Lane LOS | A | - | - | - | A |
| HCM 95th \%tile Q(veh) | 0 | - | - | - | - |


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



| Intersection |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 2.3 |  |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |  |
| Lane Configurations |  | $\uparrow$ | $\hat{\square}$ |  | M |  |  |
| Trafic Vol, veh/h | 0 | , | 2 | 1 | 3 | 0 |  |
| Future Vol, veh/h | 0 | 5 | 2 | 1 | 3 | 0 |  |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Sign Control | Free | Free | Free | Free | Stop | Stop |  |
| RT Channelized | - | None | - | None | - | None |  |
| Storage Length | - | - | - | - | 0 | - |  |
| Veh in Median Storage, \# | \# - | 0 | 0 | - | 0 | - |  |
| Grade, \% | - | 0 | 0 | - | 0 | - |  |
| Peak Hour Factor | 78 | 78 | 78 | 78 | 78 | 78 |  |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |  |
| Mumt Flow | 0 | 6 | 3 | 1 | 4 | 0 |  |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Conflicting Flow All | 4 | 0 | - | 0 | 10 |
| $\quad$ Stage 1 | - | - | - | - | 4 |
| $\quad$ Stage 2 | - | - | - | - | 6 |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0 | 0 | 8.6 |

HCM LOS A

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1618 | - | - | -1010 |
| HCM Lane V/C Ratio | - | - | - | -0.004 |
| HCM Control Delay (s) | 0 | - | - | -8.6 |
| HCM Lane LOS | A | - | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |
| H | 0 |  |  |  |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.3 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | M |  |  | -1 | $\uparrow$ |  |
| Traffic Vol, veh/h | 5 | 7 | 5 | 375 | 435 | 8 |
| Future Vol, veh/h | 5 | 7 | 5 | 375 | 435 | 8 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 78 | 78 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 6 | 9 | 5 | 408 | 473 | 9 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.1 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | 1 |  | Y |  |
| Traffic Vol, veh/h | 0 | 3 | 6 | 5 | 2 | 0 |
| Future Vol, veh/h | 0 | 3 | 6 | 5 | 2 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 4 | 8 | 6 | 3 | 0 |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Conflicting Flow All | 14 | 0 | - | 0 | 15 | 11 |
| $\quad$ Stage 1 | - | - | - | - | 11 | - |
| $\quad$ Stage 2 | - | - | - | - | 4 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | -3.518 | 3.318 |  |
| Pot Cap-1 Maneuver | 1604 | - | - | - | 1004 | 1070 |
| $\quad$ Stage 1 | - | - | - | - | 1012 | - |
| $\quad$ Stage 2 | - | - | - | - | 1019 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1604 | - | - | - | 1004 | 1070 |
| Mov Cap-2 Maneuver | - | - | - | - | 1004 | - |
| Stage 1 | - | - | - | - | 1012 | - |
| Stage 2 | - | - | - | -1019 | - |  |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0 | 0 | 8.6 |

HCM LOS A

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1604 | - | - | -1004 |
| HCM Lane V/C Ratio | - | - | - | -0.003 |
| HCM Control Delay (s) | 0 | - | - | -8.6 |
| HCM Lane LOS | A | - | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |


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




| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 3 | 0 | - | 0 | 11 | 3 |
| Stage 1 |  |  |  |  | 3 |  |
| Stage 2 |  |  |  |  | 8 |  |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 |  |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 |  |
| Follow-up Hdwy | 2.218 | - | - |  | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1619 | - |  | - | 1009 | 1081 |
| Stage 1 |  | - | - | - | 1020 |  |
| Stage 2 |  | - |  | - | 1015 |  |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1619 | - | - |  | 1009 | 1081 |
| Mov Cap-2 Maneuver |  | - | - |  | 1009 |  |
| Stage 1 |  | - | - |  |  |  |
| Stage 2 | - | - | - | - | 1015 |  |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0 | 0 | 8.6 |

HCMLOS A

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1619 | - | - | -1009 |
| HCM Lane V/C Ratio | - | - | - | -0.001 |
| HCM Control Delay (s) | 0 | - | - | -8.6 |
| HCM Lane LOS | A | - | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |
| HC |  |  |  |  |


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



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.7 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | $\mathbf{T}$ |  | Mr |  |
| Traffic Vol, veh/h | 0 | 4 | 6 | 1 | 1 | 0 |
| Future Vol, veh/h | 0 | 4 | 6 | 1 | 1 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 5 | 8 | 1 | 1 | 0 |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :--- | ---: | :--- | :--- | :--- | ---: | ---: |
| Conflicting Flow All | 9 | 0 | - | 0 | 14 | 9 |
| $\quad$ Stage 1 | - | - | - | - | 9 | - |
| $\quad$ Stage 2 | - | - | - | - | 5 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | -3.518 | 3.318 |  |
| Pot Cap-1 Maneuver | 1611 | - | - | - | 1005 | 1073 |
| $\quad$ Stage 1 | - | - | - | - | 1014 | - |
| Stage 2 | - | - | - | - | 1018 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1611 | - | - | - | 1005 | 1073 |
| Mov Cap-2 Maneuver | - | - | - | - | 1005 | - |
| Stage 1 | - | - | - | - | 1014 | - |
| Stage 2 | - | - | - | - | 1018 | - |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0 | 0 | 8.6 |

HCM LOS A

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1611 | - | - | -1005 |
| HCM Lane V/C Ratio | - | - | - | -0.001 |
| HCM Control Delay (s) | 0 | - | - | - |
| HCM Lane LOS | A | - | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |


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




| Major/Minor | Major1 | Major2 |  | Minor2 |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Conflicting Flow All | 4 | 0 | - | 0 | 12 |
| $\quad$ Stage 1 | - | - | - | - | 4 |
| $\quad$ Stage 2 | - | - | - | - | 8 |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0 | 0 | 8.6 |

HCM LOS A

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1618 | - | - | -1008 |
| HCM Lane V/C Ratio | - | - | - | -0.004 |
| HCM Control Delay (s) | 0 | - | - | -8.6 |
| HCM Lane LOS | A | - | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |
| HC |  |  |  |  |


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



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.1 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | 1 |  | Y |  |
| Traffic Vol, veh/h | 0 | 4 | 6 | 4 | 2 | 0 |
| Future Vol, veh/h | 0 | 4 | 6 | 4 | 2 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 5 | 8 | 5 | 3 | 0 |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Conflicting Flow All | 13 | 0 | - | 0 | 16 | 11 |
| $\quad$ Stage 1 | - | - | - | - | 11 | - |
| $\quad$ Stage 2 | - | - | - | - | 5 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | -3.518 | 3.318 |  |
| Pot Cap-1 Maneuver | 1606 | - | - | - | 1002 | 1070 |
| $\quad$ Stage 1 | - | - | - | - | 1012 | - |
| $\quad$ Stage 2 | - | - | - | - | 1018 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1606 | - | - | - | 1002 | 1070 |
| Mov Cap-2 Maneuver | - | - | - | - | 1002 | - |
| Stage 1 | - | - | - | - | 1012 | - |
| Stage 2 | - | - | - | -1018 | - |  |
|  |  |  |  |  |  |  |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0 | 0 | 8.6 |

HCM LOS A

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1606 | - | - | -1002 |
| HCM Lane V/C Ratio | - | - | - | -0.003 |
| HCM Control Delay (s) | 0 | - | - | -8.6 |
| HCM Lane LOS | A | - | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |

