



LSC TRANSPORTATION CONSULTANTS, INC.
2504 East Pikes Peak Avenue, Suite 304
Colorado Springs, CO 80909
(719) 633-2868
FAX (719) 633-5430
E-mail: lsc@lsctrans.com
Website: <http://www.lsctrans.com>

Cottages at Mesa Ridge Traffic Impact Analysis (LSC #S214580) August 18, 2021

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.



8/18/21

Date

Cottages at Mesa Ridge

Traffic Impact Analysis Report

Prepared for:
Dave Morrison
Goodwin Knight
8605 Explorer Drive, #250
Colorado Springs, CO 80920

AUGUST 18, 2021

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

LSC #S214580



CONTENTS

REPORT CONTENTS 1

SITE DEVELOPMENT AND LAND USE 1

ROADWAY AND TRAFFIC CONDITIONS..... 2

 Area Roadways..... 2

 Study Area Intersections 2

 Intersection Traffic Control and Lane Geometry 2

 Intersection Sight Distance..... 2

 Existing Traffic Volumes 3

 Short-Term Baseline Traffic Volumes 3

TRIP GENERATION 3

TRIP DISTRIBUTION AND ASSIGNMENT..... 4

 Trip Directional Distribution..... 4

 Site-Generated Traffic..... 4

SHORT-TERM TOTAL TRAFFIC 5

2041 BACKGROUND TRAFFIC 5

2041 TOTAL TRAFFIC..... 5

LEVEL OF SERVICE ANALYSIS 5

 Mesa Ridge Parkway/Sneffels Street 6

 Short Term 6

 Long Term 6

 Sneffels Street/Landover Lane 7

 Sneffels Street/Pinfeather Drive 7

VEHICLE QUEUEING ANALYSIS 7

 Queuing Analysis Terminology 7

 Analysis Assumptions..... 8

 Analysis Results 8

 Short-Term Total 8

 2041 Total 9

AUXILIARY TURN-LANE ANALYSIS..... 10

 Mesa Ridge Parkway 10

 Eastbound Left-Turn Deceleration Lane 10

| | |
|--|----|
| Southbound-to-Westbound Right-Turn Acceleration Lane | 10 |
| Westbound Right-Turn Deceleration Lane | 11 |
| Sneffels Street | 11 |
| Existing Conditions | 11 |
| Proposed Conditions | 11 |
| CONCLUSIONS AND RECOMMENDATIONS | 12 |
| Trip Generation | 12 |
| Projected Levels of Service..... | 12 |
| Queuing Analysis..... | 12 |
| Auxiliary Turn Lanes | 12 |
| Enclosures: | 13 |
| Table 3 | |
| Figure 1 - Figure 9 | |
| Traffic Count Reports | |
| SimTraffic Queue Reports | |
| Synchro Level of Service Reports | |



LSC TRANSPORTATION CONSULTANTS, INC.
2504 East Pikes Peak Avenue, Suite 304
Colorado Springs, CO 80909
(719) 633-2868
FAX (719) 633-5430
E-mail: lsc@lscctrans.com
Website: <http://www.lscctrans.com>

August 18, 2021

Mr. Dave Morrison
Goodwin Knight
8605 Explorer Drive, #250
Colorado Springs, CO 80920

RE: Cottages at Mesa Ridge
Traffic Impact Analysis Report
El Paso County, Colorado
LSC #S214580

Dear Mr. Morrison:

LSC Transportation Consultants, Inc. has prepared this traffic impact analysis report for the proposed Cottages at Mesa Ridge development. As shown on Figure 1, the site is located north of Mesa Ridge Parkway and east of Sneffels Street in unincorporated El Paso County, Colorado. Site access would be to Landover Lane, which connects to Sneffels Street just north of Mesa Ridge Parkway.

REPORT CONTENTS

This report identifies: the proposed land use, the site access points, the projected trip generation, site-generated traffic volumes, short- and long-term background traffic volumes, the projected future total traffic volumes, an assessment of the site's traffic impacts.

The report includes analysis of the current and projected traffic operations at the intersections of Mesa Ridge Parkway/Sneffels Street and Sneffels Street/Landover Lane. The report includes findings and recommendations.

SITE DEVELOPMENT AND LAND USE

Figure 2 shows the site plan. The site is located within unincorporated El Paso County. However, the adjacent development to the west and Landover Lane are located within the City of Fountain. The site is planned to be developed for 122 cottage-style residential dwelling units. Access to the site is proposed via be to Landover Lane, which intersects Sneffels Street about 388 feet north of Mesa Ridge Parkway. No direct access to Mesa Ridge Parkway (State Highway 16) is proposed.

ROADWAY AND TRAFFIC CONDITIONS

Area Roadways

Figure 1 shows the roadways in the vicinity of the site. The major roadways are identified below, followed by a brief description.

Mesa Ridge Parkway (State Highway 16) is a four-lane, median-divided Arterial adjacent to the site (CDOT Classification NR-A). Mesa Ridge Parkway extends east from Interstate-25 to Powers Boulevard. East of Quebec Street, Mesa Ridge is classified as EX- Expressway/Major bypass. The east end of Mesa Ridge Parkway and the south end of Powers Boulevard connect to form the interim south connection of Powers Boulevard to Interstate 25. The El Paso County portion of Mesa Ridge Parkway extends east from Powers Boulevard to Marksheffel Road. The County portion of Mesa Ridge Parkway extends east from Powers beginning at its intersection with Powers located about 1,955 feet northeast of the Mesa Ridge Parkway/Sneffels intersection. Adjacent to the site, the posted speed limit on Mesa Ridge Parkway is 55 miles per hour (mph). Auxiliary left- and right-turn deceleration lanes exist on both the eastbound and westbound approaches at Sneffels Street. A southbound-to-westbound right-turn acceleration lane also exists at the intersection of Mesa Ridge Parkway/Sneffels Street.

Sneffels Street is a two-lane Minor Collector that extends north and south from Mesa Ridge Parkway. Sneffels north of Mesa Ridge terminates within the Sunrise Ridge neighborhood at Red Cloud Street. Sneffels Street extends south of Mesa Ridge Parkway to its terminus at a T-intersection with Cross Creek Avenue. The posted speed limit in the vicinity of the site is 25 mph. Auxiliary left- and right-turn deceleration lanes exist on both the southbound and northbound approaches at Mesa Ridge Parkway.

Study Area Intersections

Intersection Traffic Control and Lane Geometry

The intersection traffic control & lane geometry at the following study-area intersections are shown in Figure 3.

- Mesa Ridge Parkway/Sneffels Street
- Sneffels Street/Landover Lane
- Sneffels Street/Pinfeather Drive/Pitcher Point

Intersection Sight Distance

The existing intersection of Landover/Sneffels would provide access to the site (via Landover Lane) and would remain a stop-sign-controlled, full-movement intersection. This is an existing intersection; however, public roadway intersections must meet *City of Fountain* and potentially

County *Engineering Criteria Manual (ECM)* standards for sight distance (as this project is in the County).

LSC recorded sight distance field measurements utilizing a driver's eye height of 3.5 feet and a height of 3.5 feet for a southbound vehicle approaching from the north. The minimum intersection sight distance for passenger vehicles (per *ECM* Table 2-21) is 335 feet. Per the *ECM*, Field-measured sight distances for passenger vehicles at the intersection of Landover/Sneffels are as follows:

- To the north: 745 feet
- To the south: 392 feet (unobstructed to Mesa Ridge Parkway)

Therefore, entering sight distance along Sneffels Street at Landover Lane is acceptable.

Existing Traffic Volumes

Existing traffic volumes at the following intersections are shown on Figure 3. The traffic volumes are from traffic counts conducted by LSC in July 2021. Traffic count reports are attached.

- Mesa Ridge Parkway/Sneffels Street
- Sneffels Street/Landover Lane
- Sneffels Street/Pinfeather Drive/Pitcher Point

Short-Term Baseline Traffic Volumes

Figure 4 shows estimated "short-term baseline" traffic volumes on the study-area streets and at the study-area intersections (short-term peak-hour turning-movement volumes). These estimates do not include the completion of several planned future Mesa Ridge development filings southeast of the intersection of Mesa Ridge Parkway/Sneffels Street, as those were assumed to have been completed during the long term. Previous LSC traffic counts in the study area were also referenced to establish short-term baseline traffic volumes, as those counts were not affected by changes in travel patterns due to the COVID-19 pandemic.

Additionally, a "COVID-19 adjustment factor" of approximately 2 percent per year has been applied to the July 2021 counts in order to account for growth in the study area that may be affected by remaining effects of the COVID-19 pandemic.

TRIP GENERATION

Estimates of the existing and projected vehicle trips to be generated by the site have been made using the following nationally-published average trip-generation rates land use code "220 – Multi-Family (Low-Rise) Housing" in *Trip Generation, 10th Edition, 2017* by the Institute of Transportation Engineers (ITE).

Table 1 below presents a summary of the estimated site trip generation. A detailed trip-generation estimate for the development, including ITE rates for the proposed land uses, is presented in Table 3 (attached).

Table 1: Estimated External Site Vehicle-Trip Generation

| Analysis Period | Weekday | | |
|-------------------|---------|-----|-------|
| | In | Out | Total |
| Morning Peak Hour | 23 | 68 | 91 |
| Evening Peak Hour | 76 | 45 | 121 |
| Daily/24-hour | 576 | 576 | 1,152 |

Based on the ITE estimate for the proposed Cottages at Mesa Ridge residential development, the site would generate about 1,152 external vehicle trips on the average weekday. During the weekday morning peak hour, approximately 23 vehicles would enter and 68 vehicles would exit the site. Approximately 76 entering vehicles and 45 exiting vehicles are projected for the weekday evening peak hour.

TRIP DISTRIBUTION AND ASSIGNMENT

Trip Directional Distribution

Estimating the directional distribution of site-generated vehicle trips to the study-area roads and intersections is a necessary component in determining the site's traffic impacts. Figure 5 shows the percentages of the site-generated vehicle trips projected to be oriented to and from the site's major approaches. Estimates have been based on the following factors: the proposed land use, the area street and road system serving the site, the site's geographic location relative to the Pikes Peak region, current traffic count data, and previously-conducted traffic studies in the vicinity of the site.

Site-Generated Traffic

Figure 6 shows the projected site-generated traffic volumes for the weekday morning and evening peak hours. Site-generated traffic volumes at the following intersections have been calculated by applying the directional-distribution percentages estimated by LSC (from Figure 5) to the trip-generation estimates (from Table 3):

- Mesa Ridge Parkway/Sneffels Street
- Sneffels Street/Landover Lane
- Sneffels Street/Pinfeather Drive/Pitcher Point

SHORT-TERM TOTAL TRAFFIC

Figure 7 shows the projected short-term total traffic volumes, which are the sum of short-term baseline traffic volumes (from Figure 4) plus the estimated Cottages at Mesa Ridge development site-generated traffic (from Figure 6).

2041 BACKGROUND TRAFFIC

Figure 8 shows the background traffic volumes for the year 2041. Background traffic is the traffic estimated to be on the adjacent roadway system without consideration of the proposed development. Background traffic includes the through traffic and the traffic generated by adjacent developments (existing and anticipated future), but assumes zero traffic generated by the site. The background traffic volume estimates are based on existing and previous traffic-count data, 2045 forecasts contained in the City of Fountain 2021 Transportation Master Plan, and previous work completed in the area by LSC. The background-traffic volumes for 2041 assume Mesa Ridge (SH 16) as the continued interim south connection of Powers Boulevard to Interstate 25 – i.e., the anticipated Powers Boulevard extension south not yet complete.

2041 TOTAL TRAFFIC

Figure 8 shows the total traffic volumes for the year 2041 at the study-area intersections, which are the sum of the 2041 background traffic volumes (from Figure 8) plus the site-generated traffic volumes (from Figure 6).

LEVEL OF SERVICE ANALYSIS

The following intersections have been analyzed to determine the projected intersection levels of service for short- and long-term traffic scenarios for the morning and evening peak-hour time periods:

- Mesa Ridge Parkway/Sneffels Street
- Sneffels Street/Landover Lane
- Sneffels Street/Pinfeather Drive/Pitcher Point

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 2 shows the level of service delay ranges for signalized and unsignalized intersections.

Table 2: Intersection Levels of Service Delay Ranges

| Level of Service | Signalized Intersections | Unsignalized Intersections |
|------------------|---|--|
| | Average Control Delay (Seconds Per Vehicle) | Average Control Delay (Seconds Per Vehicle) ¹ |
| A | 10.0 sec or less | 10.0 sec or less |
| B | 10.1-20.0 sec | 10.1-15.0 sec |
| C | 20.1-35.0 sec | 15.1-25.0 sec |
| D | 35.1-55.0 sec | 25.1-35.0 sec |
| E | 55.1-80.0 sec | 35.1-50.0 sec |
| F | 80.1 sec or more | 50.1 sec or more |

¹ For unsignalized intersections, if V/C ratio is greater than 1.0 the level of service is LOS F, regardless of the projected average control delay per vehicle.

Detailed Synchro reports are attached. A summary of LOS during the weekday morning and evening peak hours for the following unsignalized intersections is shown in the following figures:

- Figure 3: Existing Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 4: Short-Term Baseline Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 7: Short-Term Total Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 8: 2041 Background Traffic, Lane Geometry, Traffic Control, and LOS
- Figure 9: 2041 Background + Site Traffic, Lane Geometry, Traffic Control, and LOS

Mesa Ridge Parkway/Sneffels Street

Short Term

All individual turning movements at the Mesa Ridge Parkway/Sneffels Street intersection currently operate at and are projected to remain at LOS D or better during both short-term peak hours, with or without the addition of site-generated traffic. No modifications have been assumed to the existing lane geometry or traffic control at this intersection.

Long Term

LSC has assumed that the intersection of Mesa Ridge Parkway/Sneffels Street may need dual westbound left-turn lanes by 2041 to accommodate projected future development south of the signalized intersection (to be consistent with past reports). Additionally, LSC has assumed that the existing back-to-back northbound/southbound left-turn lanes on Sneffels Street between Mesa Ridge Parkway and Landover Lane would be modified (**through minor restriping**) to lengthen the southbound left-turn lane approaching Mesa Ridge Parkway.

Analysis results, based on LSC projections in this report, show a volume-to-capacity (v/c) ratio of over 1.00 for the eastbound-through movement during background and total long-term

afternoon traffic scenarios if Mesa Ridge Parkway were to remain a four-lane Expressway (two through lanes per direction).

Overall, the signalized intersection of Mesa Ridge Parkway/Sneffels Street is projected to operate at LOS D or better through 2041, with or without the addition of site-generated traffic. The following individual turning movements are projected to operate at LOS E or worse during at least one long-term peak hour, **with or without the addition of site-generated traffic**: southbound-through, southbound-left, westbound-left, northbound-left, and northbound-through.

Sneffels Street/Landover Lane

All approaches and individual turning movements at the Sneffels Street/Landover Lane intersection currently operate at and are projected to remain at LOS C or better through 2041 during both peak hours, with or without the addition of site-generated traffic. No modifications have been assumed to the existing lane geometry or traffic control at this intersection, except the potential restriping of the northbound left turn lane in order to provide additional stacking distance as needed for the southbound left turn lane at Mesa Ridge/Sneffels (these left turn lanes are configured back-to-back, so lengthening of one shortens the other).

Sneffels Street/Pinfeather Drive

All approaches and individual turning movements at the Sneffels Street/Pinfeather Drive intersection currently operate at and are projected to remain at LOS C or better through 2041 during both peak hours, with or without the addition of site-generated traffic. No modifications have been assumed to the existing lane geometry or traffic control at this intersection.

VEHICLE QUEUEING ANALYSIS

A SimTraffic queueing analysis was performed to estimate the maximum and average queues at the intersection of Mesa Ridge Parkway/Sneffels Street during the morning and afternoon peaks.

Queueing Analysis Terminology

“Upstream block time” represents the percent of time during the peak hour in which the entry point for a turn lane upstream of the subject intersection is blocked by a queue in the adjacent through lane. “Storage block time” is the proportion of time in which the turn lane’s queue exceeds the available storage length and left-turning vehicles overspill the turn lane in the model and into the adjacent through lane.

“Maximum queue” represents the maximum queue length observed for each individual lane during the 15-minute analysis period. SimTraffic records the maximum back of queue observed for every two-minute period. In SimTraffic, a vehicle is considered queued whenever it is behind

another vehicle traveling at less than 10 feet/second (approximately 7 mph) or at a stop bar. The maximum observed queue might not occur during the same interval in which the highest upstream block time (percent) or storage block time (percent) occurs. SimTraffic reports have reported the highest value for each metric for each turn lane/approach, regardless of whether or not they occur in the same 15-minute interval.

Reported queue length for auxiliary turn lanes in SimTraffic is generally limited by the turn-lane length. SimTraffic simply reports the maximum observed queue length during simulations. The reported 95th-percentile queue is also part of the results.

Analysis Assumptions

Analysis has been run to estimate the queue length that the southbound approach at Mesa Ridge Parkway/Sneffels Street will extend back to the intersection of Sneffels Street/Landover Lane. There are about 335 feet between the stop line on the southbound approach on Sneffels Street and the Sneffels Street/Landover Lane intersection.

However, the presence of back-to-back left-turn lanes between these intersections limits the available stacking distance on each approach. The southbound left-turn lane currently consists of 165 feet of full-width lane plus an 85-foot taper for a total of 250 feet of stacking distance. The northbound left-turn lane at Landover Lane currently consists of 75 feet of full-width lane plus a 65-foot storage for a total of 140 feet of stacking distance.

Due to the limited number of vehicles turning northbound-left from Sneffels Street onto Landover Lane, LSC has assumed that restriping of the northbound left-turn lane would be shortened to allow for the southbound left-turn lane at Mesa Ridge Parkway to be lengthened in order to accommodate longer queues. Assuming restriping, 275 feet of stacking distance would be available for the southbound left-turn lane. Queues less than 275 feet would not block vehicles turning to/from Sneffels Street from Landover Lane.

Analysis Results

Short-Term Total

SimTraffic-reported maximum queue lengths for the Short-Term Total scenario are as follows:

- AM peak hour – 0 percent upstream or storage block time for all approaches
 - Southbound-left – 81 feet
 - Southbound-through – 41 feet
 - Southbound-right – 66 feet
 - Eastbound-left – 125 feet
 - Northbound-left (at Landover Lane) – 15 feet

- PM peak hour – 0 percent upstream or storage block time for all approaches
 - Southbound-left – 157 feet
 - Southbound-through – 60 feet
 - Southbound-right – 52 feet
 - Eastbound-left – 221 feet
 - Northbound-left (at Landover Lane) – 31 feet

Results from the SimTraffic queuing reports indicate that queues extending back from the southbound approach at Mesa Ridge Parkway/Sneffels Street would be accommodated by the existing southbound stacking distance during both short-term peak hours.

2041 Total

SimTraffic-reported maximum queue lengths for the 2041 Total scenario are as follows:

- AM peak hour – 0 percent upstream or storage block time for all approaches
 - Southbound-left – 113 feet
 - Southbound-through – 58 feet
 - Southbound-right – 50 feet
 - Eastbound-left – 355 feet
 - Northbound-left (at Landover Lane) – 22 feet
- PM peak hour – 0 percent upstream or storage block time
 - Southbound-left – 182 feet
 - Southbound-through – 114 feet
 - Southbound-right – 33 feet
 - Eastbound-left – 163 feet (Synchro-reported 95th-percentile queue length)
 - Northbound-left (at Landover Lane) – 23 feet

Results from the SimTraffic queuing reports indicate that queues extending back from the **southbound** approach at Mesa Ridge Parkway/Sneffels Street would **not** extend past the proposed turn-bay stacking distances on Sneffels Street during either long-term peak hour.

The Synchro-reported 95th-percentile queue length for the eastbound left-turning movement is 163 feet. Simulation results indicated long queues for the eastbound-through movement due to high projected long-term volumes on Mesa Ridge Parkway. As such, during peak PM periods, entry to the eastbound left-turn lane may occasionally be blocked due to lengthy queues in the eastbound-through lanes. Please refer to the 95th-percentile queue lengths in the attached Synchro reports.

Please refer to the “Auxiliary Turn Lane Analysis” section for more detail regarding modifications to existing striping on Sneffels Street between Landover Lane and Mesa Ridge Parkway.

Long-term analysis assumes that the intersection of Mesa Ridge Parkway/Sneffels Street would include dual westbound left-turn lanes, which are reflected in the long-term Synchro and

SimTraffic models. SimTraffic queuing reports indicate that queues extending to the east from the westbound left-turn lane at Mesa Ridge Parkway/Sneffels Street would **not** exceed the available stacking distance during either long-term peak hour.

AUXILIARY TURN-LANE ANALYSIS

Mesa Ridge Parkway

Eastbound Left-Turn Deceleration Lane

Mesa Ridge Parkway is classified as “NR-A Non-Rural Arterial” east and west of Sneffels Street with a posted speed limit of 55 mph in the vicinity of the site. Currently, the eastbound left-turn lane on Mesa Ridge Parkway approaching Sneffels Road is 685 feet long, consisting of 460 feet of full-width lane and a 225-foot transition taper.

Per criteria in CDOT’s *State Highway Access Code*, left-turn deceleration lanes should consist of the following design:

- 800-foot total lane length
 - 378 feet of full-width lane
 - 222-foot transition taper (18.5:1 ratio)
 - 200 feet of storage length

As such, LSC recommends that the existing eastbound left-turn lane be lengthened by about 125 feet to meet the required 800-foot minimum. Alternatively, the taper could potentially be modified (abbreviated) to provide a longer lane storage length.

Southbound-to-Westbound Right-Turn Acceleration Lane

Currently, the southbound-to-westbound-right-turn acceleration lane on Mesa Ridge Parkway from Sneffels Road is 820 feet long, consisting of 680 feet of full-width lane and a 140-foot transition taper.

Per criteria in CDOT’s *State Highway Access Code*, left-turn deceleration lanes should consist of the following design:

- 960-foot total lane length
 - 738 feet of full-width lane
 - 222-foot transition taper (18.5:1 ratio)

As such, the existing eastbound right-turn acceleration lane would need to be lengthened by about 140 feet to meet the required 960-foot minimum. As the full-width portion of the lane is close to 738-feet and there is a paved shoulder downstream which could be restriped for a longer taper, potentially no new construction would be needed. Potentially, CDOT may want to maintain

the existing separation between the end of the acceleration lane and the beginning of the deceleration lane for the next intersection to the west.

Westbound Right-Turn Deceleration Lane

Currently, the westbound-right-turn deceleration lane on Mesa Ridge Parkway approaching Sneffels Road is 480 feet long, consisting of 360 feet of full-width lane and a 1250-foot transition taper.

Per criteria in CDOT's *State Highway Access Code*, left-turn deceleration lanes should consist of the following design:

- 600-foot total lane length
 - 378 feet of full-width lane
 - 222-foot transition taper (18.5:1 ratio)

As such, the existing eastbound right-turn lane would need to be lengthened by about 120 feet to meet the required 600-foot minimum. As the full-width portion of the lane is close to 378 feet and there is a paved shoulder upstream which could be restriped for a longer taper, potentially no new construction would be needed.

Sneffels Street

Existing Conditions

The existing back-to-back left-turn lanes on Sneffels Street between Mesa Ridge Parkway and Landover Lane consist of the following dimensions:

- Southbound left-turn lane at Mesa Ridge Parkway –250 feet total, consisting of 165 feet of full-width lane plus an 85-foot taper
- Northbound left-turn lane at Landover Lane – 115 feet total, consisting of 50 feet of full-width lane plus a 65-foot storage

Proposed Conditions

Due to the limited number of vehicles turning northbound-left from Sneffels Street onto Landover Lane, LSC recommends shortening, through restriping, the northbound left-turn lane at Landover Lane to allow for the southbound left-turn lane at Mesa Ridge Parkway to be lengthened with restriping in order to accommodate longer queues. The following modifications are recommended:

- Southbound left-turn lane at Mesa Ridge Parkway –lengthen by 25 feet to be 275 feet total, consisting of 200 feet of full-width lane plus a 75-foot taper
- Northbound left-turn lane at Landover Lane – shorten by 25 feet to be 140 feet total, consisting of 75 feet of full-width lane plus a 65-foot storage

CONCLUSIONS AND RECOMMENDATIONS

Based on the preceding analysis, the following conclusions and recommendations were drawn regarding the traffic impacts of the proposed minor amendment to the Mesa Ridge Overall Development Plan.

Trip Generation

- The site is projected to generate about 1,152 vehicle-trips on the average weekday, with about 576 vehicles entering and 576 vehicles exiting the site in a 24-hour period.
- During the morning peak hour, about 23 vehicles would enter and 68 vehicles would exit the site.
- Approximately 76 vehicles would enter and 45 vehicles would exit the site during the afternoon peak hour.

Projected Levels of Service

- During the short term, all study-area intersections are projected to remain at LOS D or better during both peak hours, with or without the addition of site-generated traffic.
- During the long term, overall, the signalized intersection of Mesa Ridge Parkway/Sneffels Street is projected to operate at LOS D or better through 2041, with or without the addition of site-generated traffic. The following individual turning movements are projected to operate to operate at LOS E or worse during at least one long-term peak hour, with or without the addition of site-generated traffic: southbound-through, southbound-left, westbound-section. Lower levels of service are predominantly due to high projected through (background) traffic volumes eastbound and westbound on Mesa Ridge Parkway.

Queuing Analysis

- The back-to-back left-turn lanes on Sneffels Street between Mesa Ridge Parkway and Landover Lane will provide sufficient space for the projected 95th-percentile vehicle queues during both short-term and long-term peak hours.
- Please refer to the “Queuing Analysis” section for additional detail regarding queues for the eastbound approach at Mesa Ridge Parkway/Sneffels Street.

Auxiliary Turn Lanes

- Some minimal modifications may be needed to the existing acceleration/deceleration lanes. Please refer to the “Auxiliary Turn Lane Analysis” section for more detail.

Please contact me if you have any questions regarding this report.

Respectfully Submitted,

LSC TRANSPORTATION CONSULTANTS, INC.

By: Jeffrey C. Hodsdon, P.E.
Principal

JAB:jas

Enclosures: Table 3
Figure 1 - Figure 9
Traffic Count Reports
SimTraffic Queue Reports
Synchro Level of Service Reports

Table 3

Table content is missing or blank.



Table 3: Detailed Trip Generation Estimate

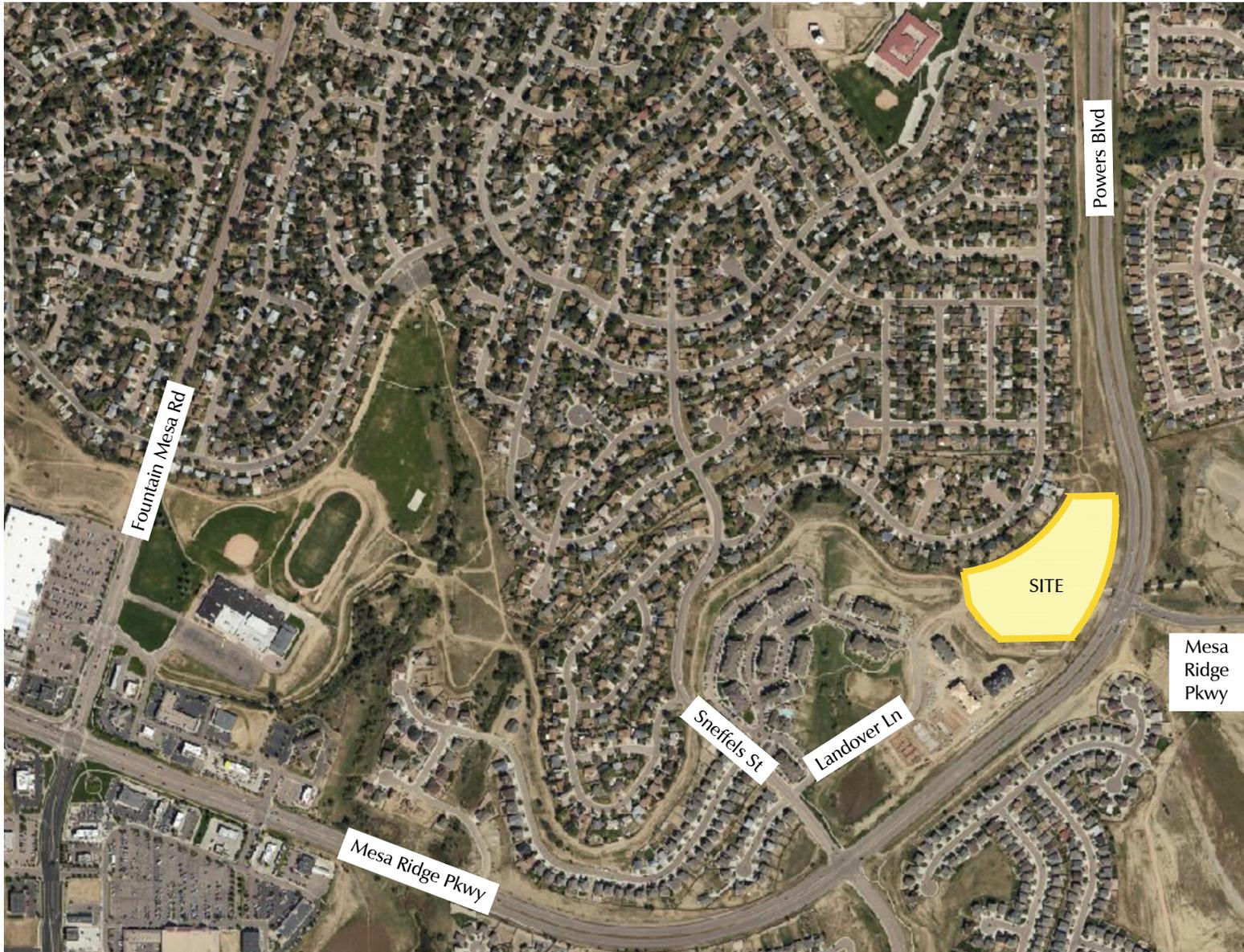
| ITE | | Value | Units ¹ | Trip Generation Rates ² | | | | | Total Trips Generated | | | | |
|------|---------------------------------|-------|--------------------|------------------------------------|------|------|------|------|-----------------------|------|----|------|----|
| Code | Description | | | Average Weekday | A.M. | | P.M. | | Average Weekday | A.M. | | P.M. | |
| | | | | In | Out | In | Out | | In | Out | In | Out | |
| 210 | Multi-Family Housing (Low-Rise) | 122 | DU | 9.44 | 0.19 | 0.56 | 0.62 | 0.37 | 1152 | 23 | 68 | 76 | 45 |

¹ DU = dwelling units

² Source: Trip Generation, 10th Edition, 2017, by the Institute of Transportation Engineers (ITE)

Figures





Not to scale

Figure 1
Vicinity
Map

Cottages at Mesa Ridge (LSC #S214580)



Not to scale

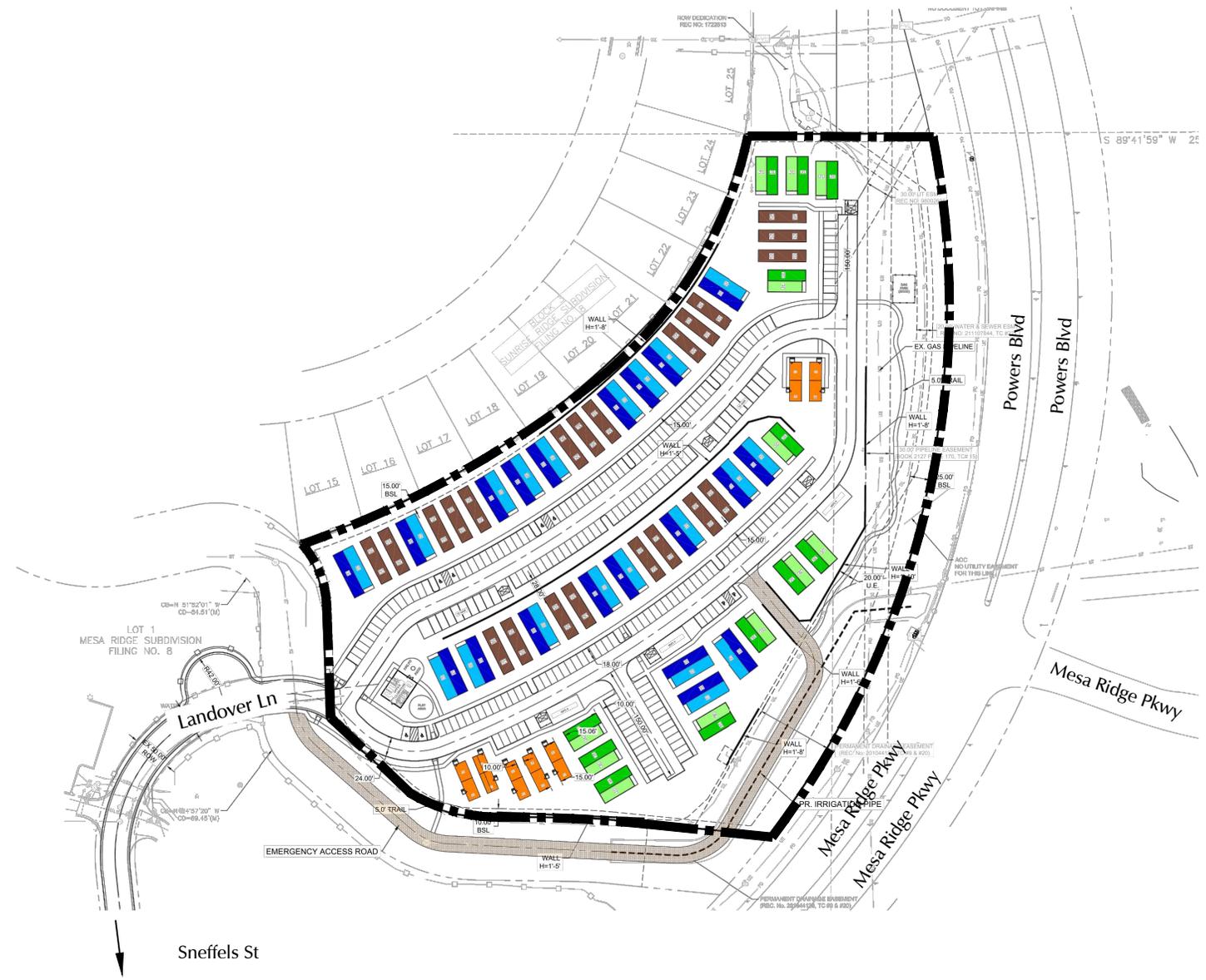
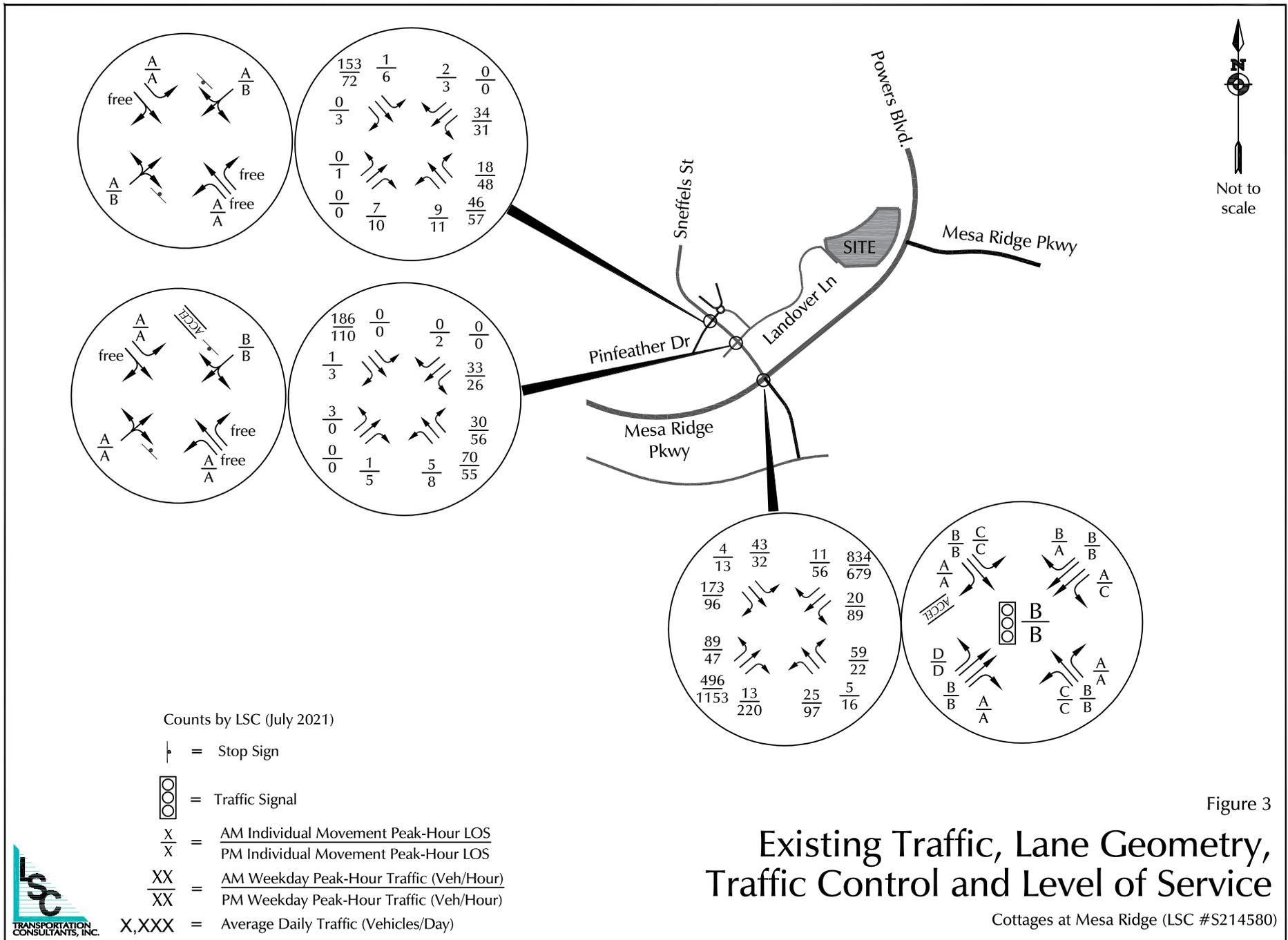


Figure 2

Site Plan

Cottages at Mesa Ridge (LSC #S214580)





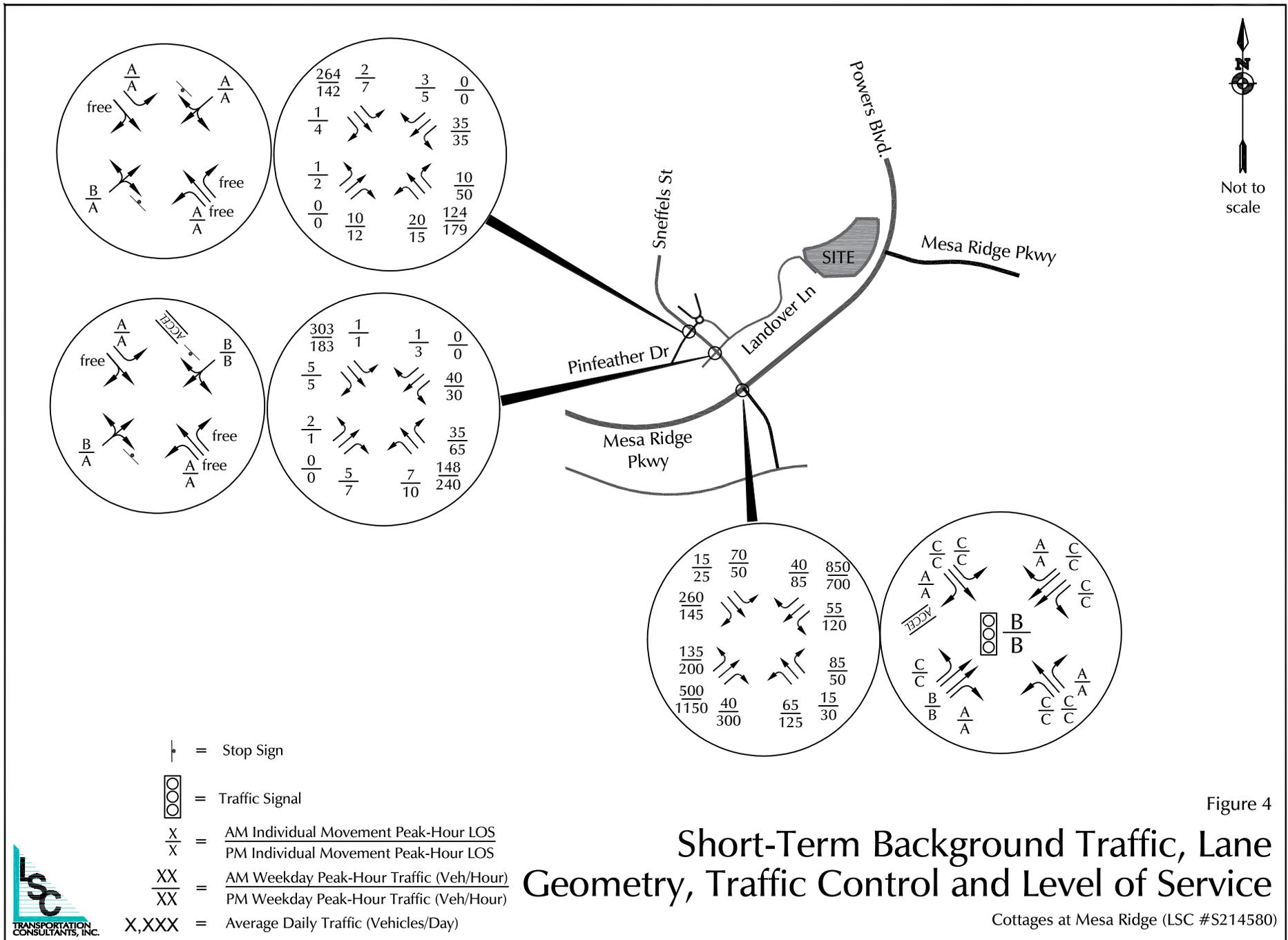


Figure 4

Short-Term Background Traffic, Lane Geometry, Traffic Control and Level of Service

Cottages at Mesa Ridge (LSC #S214580)



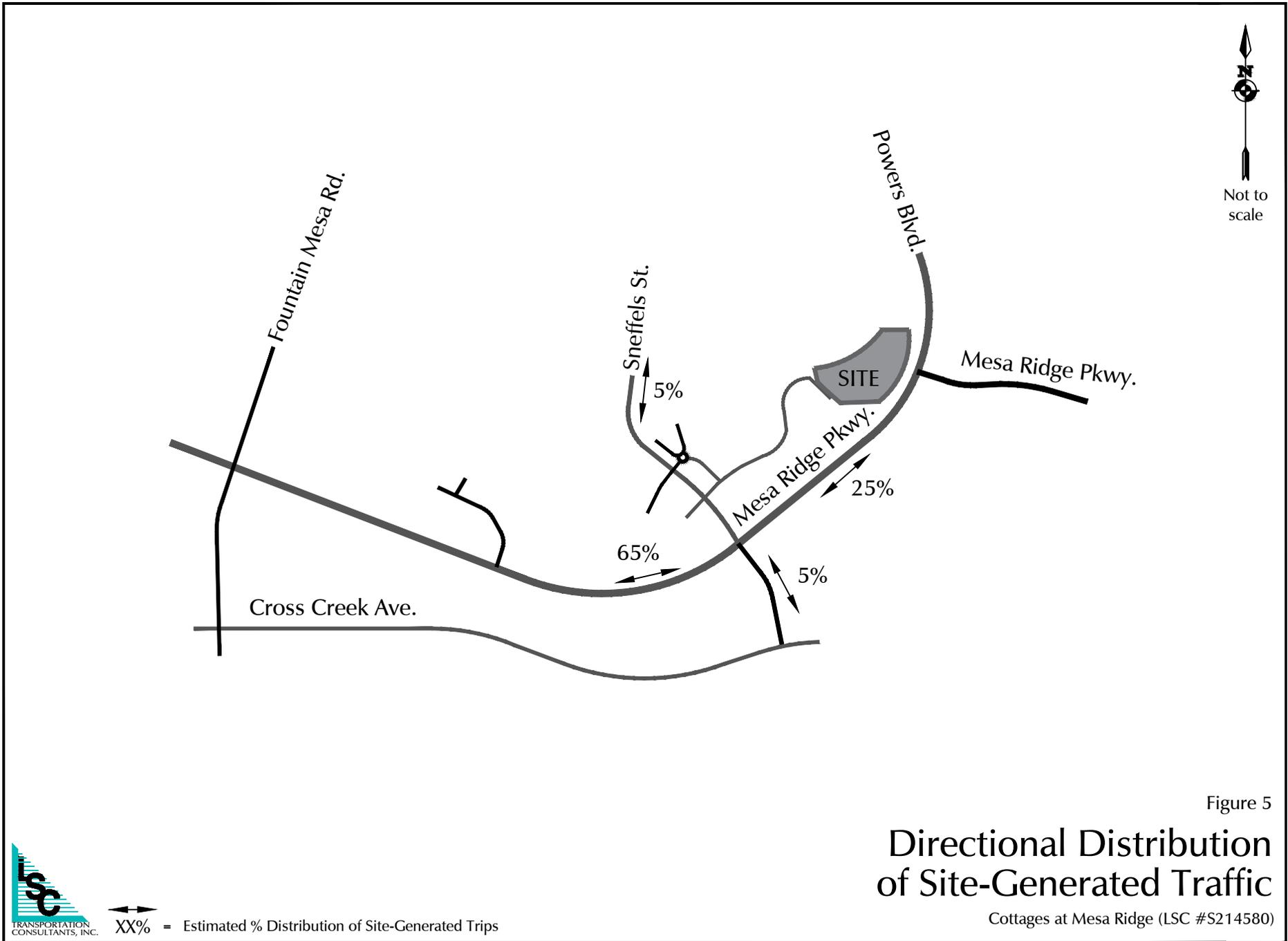
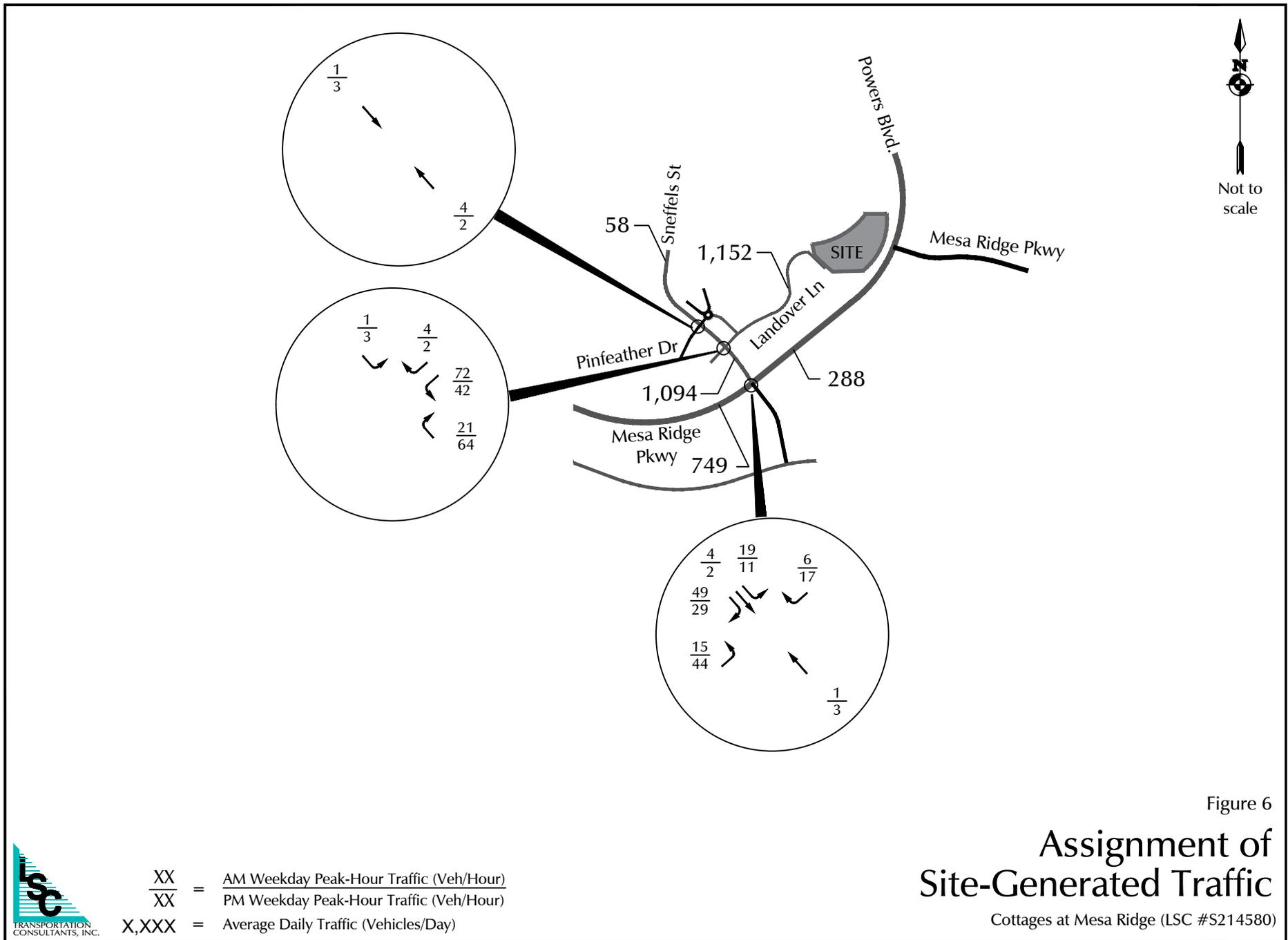


Figure 5

Directional Distribution of Site-Generated Traffic

Cottages at Mesa Ridge (LSC #S214580)



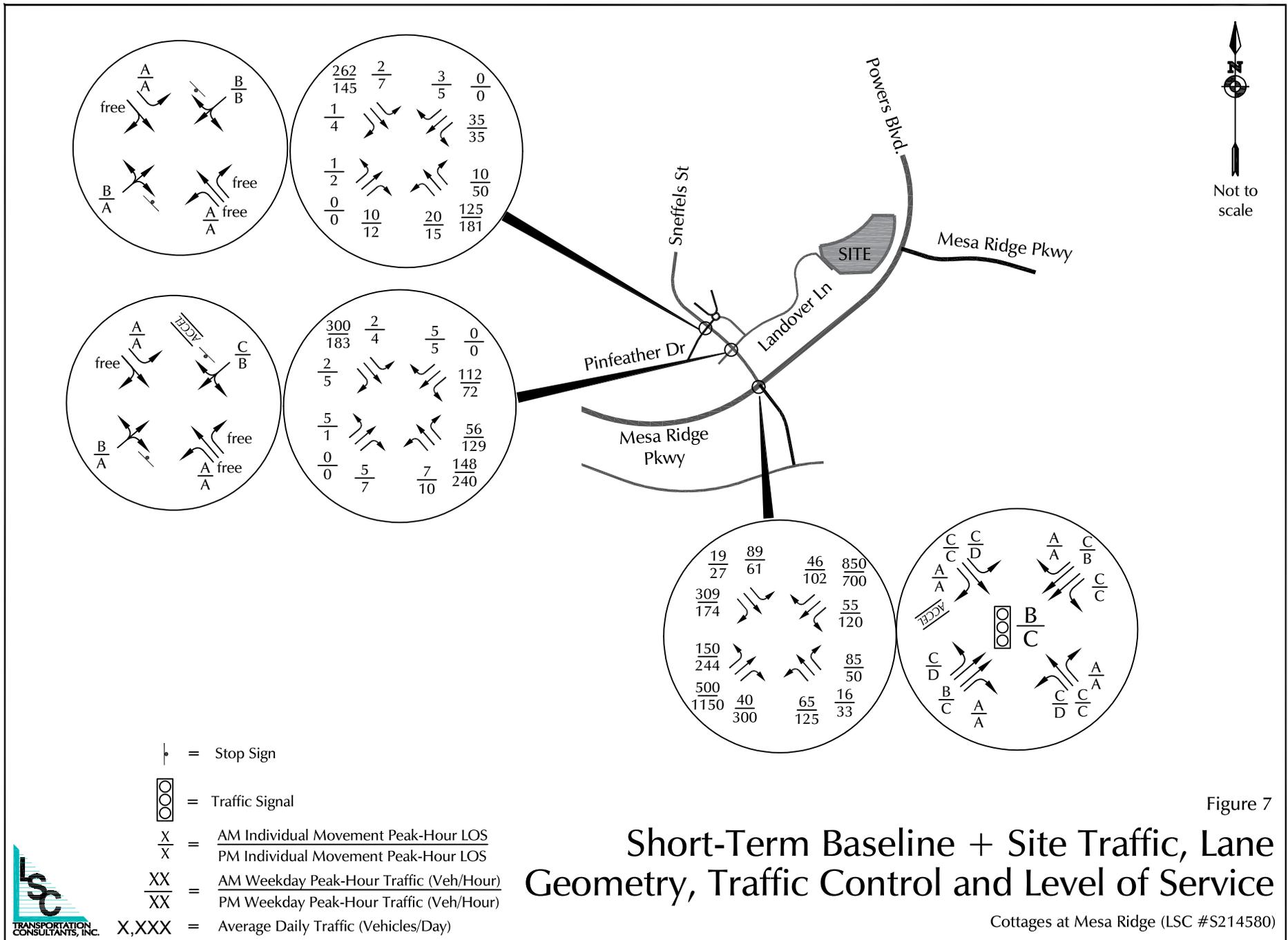
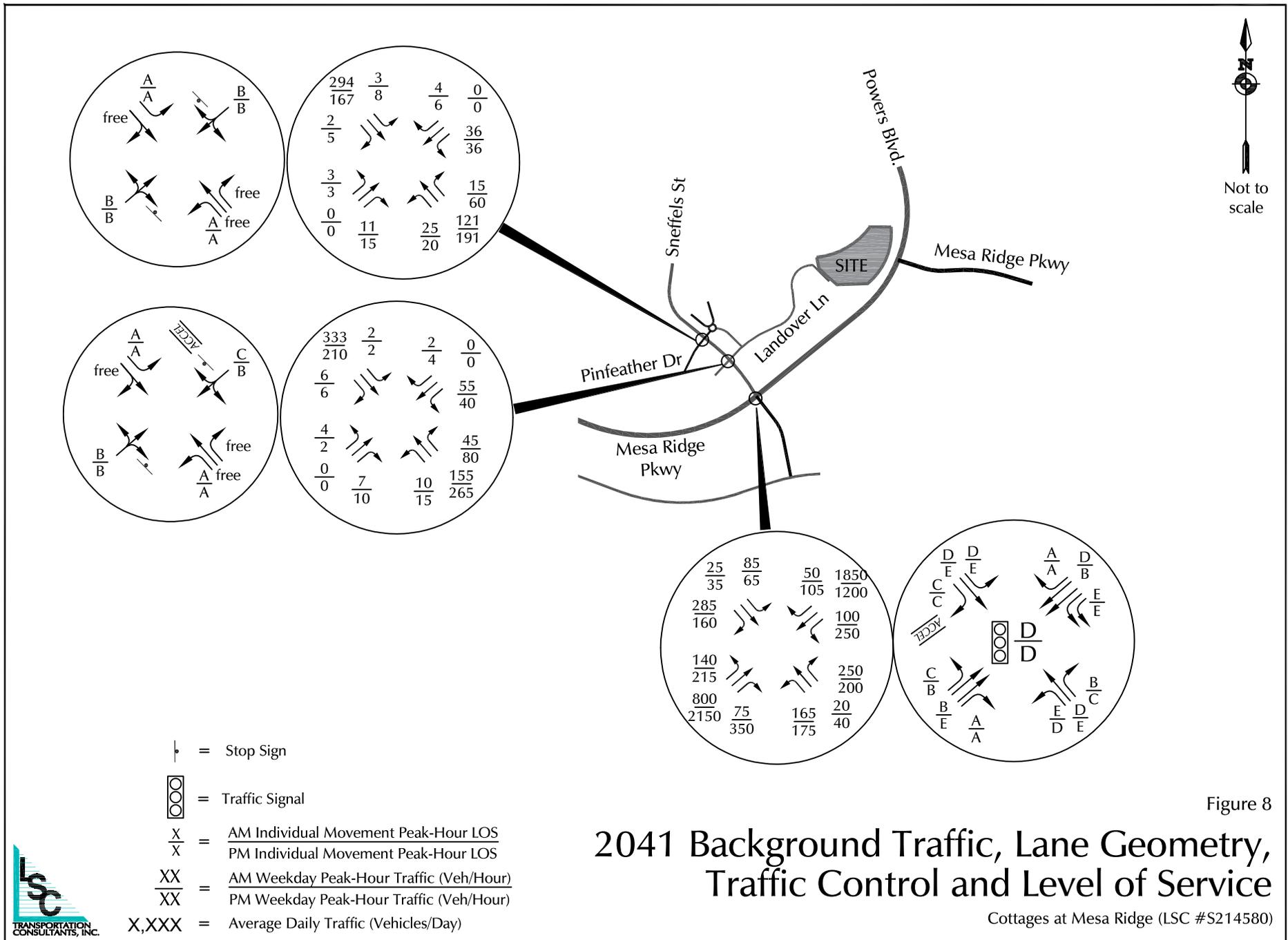


Figure 7

Short-Term Baseline + Site Traffic, Lane Geometry, Traffic Control and Level of Service

Cottages at Mesa Ridge (LSC #S214580)





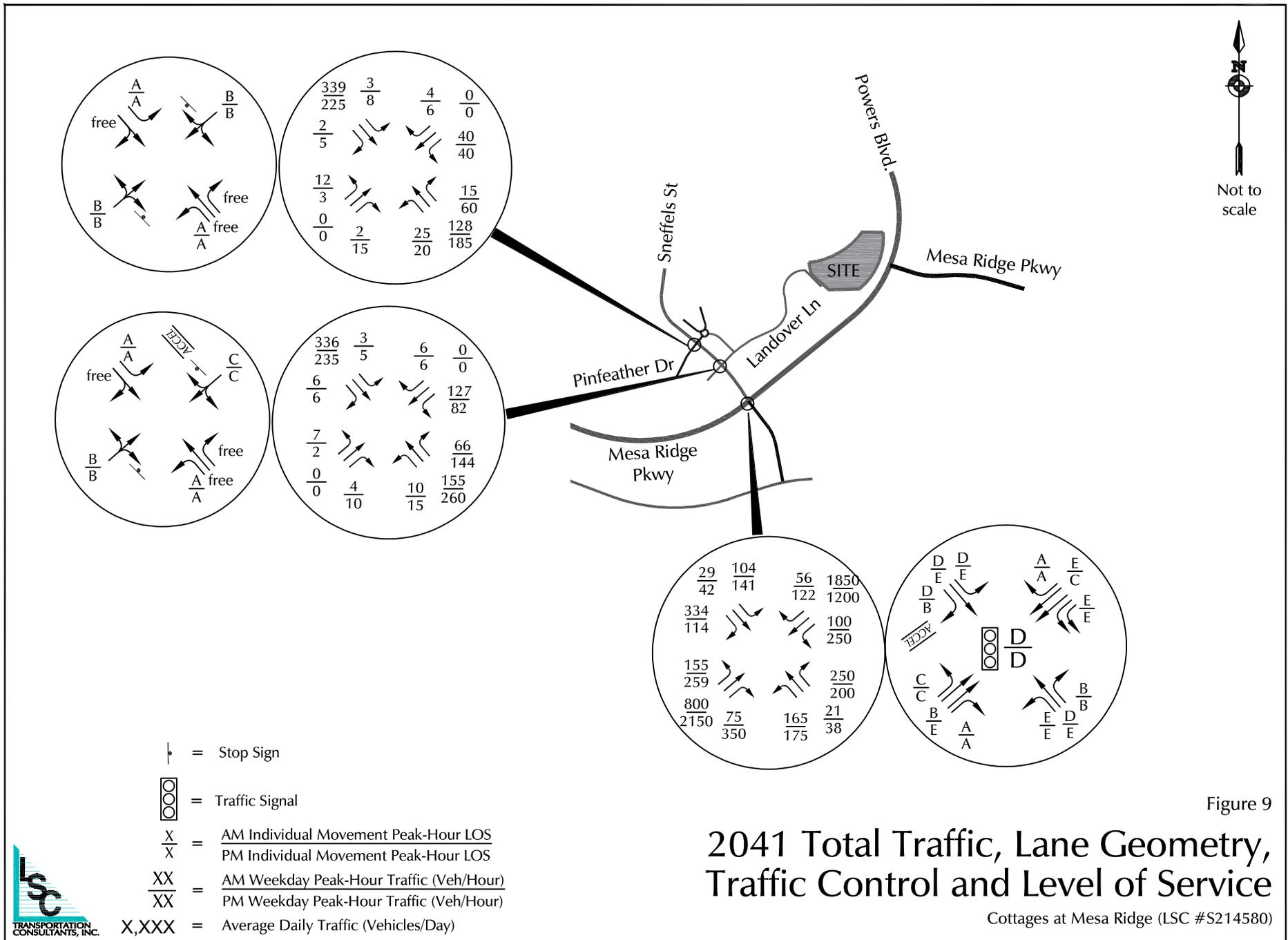


Figure 9
2041 Total Traffic, Lane Geometry, Traffic Control and Level of Service
 Cottages at Mesa Ridge (LSC #S214580)



Traffic Counts



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Mesa Ridge Pkwy - Sneffels St AM
 Site Code : S214580
 Start Date : 7/7/2021
 Page No : 1

Groups Printed- Unshifted

| Start Time | Mesa Ridge Pkwy Southbound | | | | | Sneffels St Westbound | | | | | Mesa Ridge Pkwy Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|-------------|----------------------------|------|-----|---|------------|-----------------------|-----|-----|---|------------|----------------------------|------|-----|---|------------|-----------------------|-----|------|---|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| 06:30 AM | 8 | 213 | 5 | 0 | 226 | 1 | 1 | 11 | 0 | 13 | 16 | 111 | 2 | 0 | 129 | 8 | 1 | 32 | 0 | 41 | 409 |
| 06:45 AM | 11 | 175 | 2 | 0 | 188 | 3 | 3 | 10 | 0 | 16 | 17 | 125 | 1 | 0 | 143 | 10 | 2 | 40 | 0 | 52 | 399 |
| Total | 19 | 388 | 7 | 0 | 414 | 4 | 4 | 21 | 0 | 29 | 33 | 236 | 3 | 0 | 272 | 18 | 3 | 72 | 0 | 93 | 808 |
| 07:00 AM | 4 | 197 | 1 | 0 | 202 | 9 | 1 | 14 | 0 | 24 | 16 | 121 | 0 | 0 | 137 | 12 | 1 | 46 | 0 | 59 | 422 |
| 07:15 AM | 7 | 228 | 3 | 0 | 238 | 5 | 1 | 14 | 0 | 20 | 19 | 127 | 6 | 0 | 152 | 9 | 2 | 51 | 0 | 62 | 472 |
| 07:30 AM | 4 | 203 | 3 | 0 | 210 | 9 | 2 | 17 | 0 | 28 | 28 | 123 | 2 | 0 | 153 | 14 | 1 | 42 | 0 | 57 | 448 |
| 07:45 AM | 5 | 206 | 4 | 0 | 215 | 2 | 1 | 14 | 0 | 17 | 26 | 127 | 5 | 0 | 158 | 8 | 0 | 34 | 0 | 42 | 432 |
| Total | 20 | 834 | 11 | 0 | 865 | 25 | 5 | 59 | 0 | 89 | 89 | 498 | 13 | 0 | 600 | 43 | 4 | 173 | 0 | 220 | 1774 |
| 08:00 AM | 2 | 218 | 1 | 0 | 221 | 5 | 0 | 15 | 0 | 20 | 22 | 99 | 5 | 0 | 126 | 7 | 0 | 39 | 0 | 46 | 413 |
| 08:15 AM | 11 | 252 | 10 | 0 | 273 | 6 | 0 | 14 | 0 | 20 | 7 | 100 | 2 | 0 | 109 | 8 | 0 | 52 | 0 | 60 | 462 |
| Grand Total | 52 | 1692 | 29 | 0 | 1773 | 40 | 9 | 109 | 0 | 158 | 151 | 933 | 23 | 0 | 1107 | 76 | 7 | 336 | 0 | 419 | 3457 |
| Apprch % | 2.9 | 95.4 | 1.6 | 0 | | 25.3 | 5.7 | 69 | 0 | | 13.6 | 84.3 | 2.1 | 0 | | 18.1 | 1.7 | 80.2 | 0 | | |
| Total % | 1.5 | 48.9 | 0.8 | 0 | 51.3 | 1.2 | 0.3 | 3.2 | 0 | 4.6 | 4.4 | 27 | 0.7 | 0 | 32 | 2.2 | 0.2 | 9.7 | 0 | 12.1 | |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

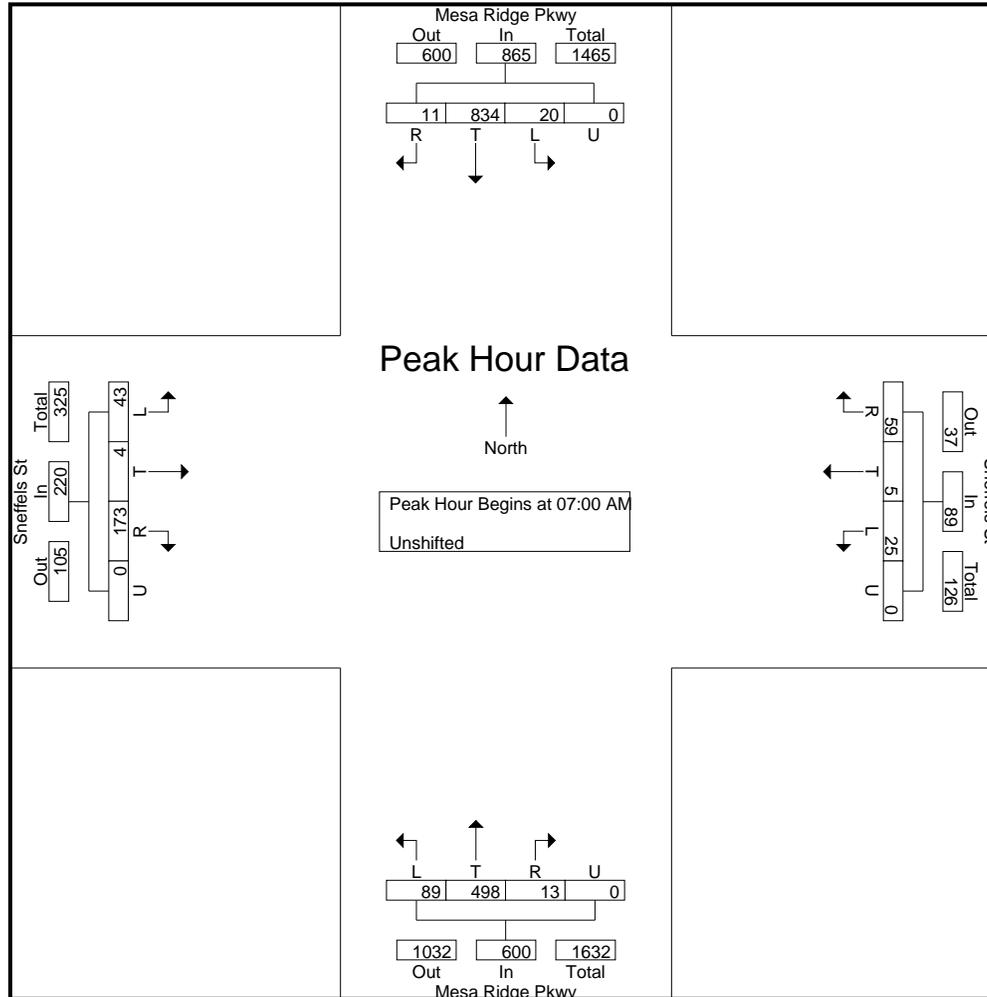
File Name : Mesa Ridge Pkwy - Sneffels St AM
 Site Code : S214580
 Start Date : 7/7/2021
 Page No : 2

| Start Time | Mesa Ridge Pkwy Southbound | | | | | Sneffels St Westbound | | | | | Mesa Ridge Pkwy Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|---|----------------------------|------------|----------|------|------------|-----------------------|----------|-----------|------|------------|----------------------------|------------|----------|------|------------|-----------------------|----------|-----------|------|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| Peak Hour Analysis From 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 7:00:00 AM | | | | | | | | | | | | | | | | | | | | | |
| 7:00:00 AM | 4 | 197 | 1 | 0 | 202 | 9 | 1 | 14 | 0 | 24 | 16 | 121 | 0 | 0 | 137 | 12 | 1 | 46 | 0 | 59 | 422 |
| 7:15:00 AM | 7 | 228 | 3 | 0 | 238 | 5 | 1 | 14 | 0 | 20 | 19 | 127 | 6 | 0 | 152 | 9 | 2 | 51 | 0 | 62 | 472 |
| 7:30:00 AM | 4 | 203 | 3 | 0 | 210 | 9 | 2 | 17 | 0 | 28 | 28 | 123 | 2 | 0 | 153 | 14 | 1 | 42 | 0 | 57 | 448 |
| 7:45:00 AM | 5 | 206 | 4 | 0 | 215 | 2 | 1 | 14 | 0 | 17 | 26 | 127 | 5 | 0 | 158 | 8 | 0 | 34 | 0 | 42 | 432 |
| Total Volume | 20 | 834 | 11 | 0 | 865 | 25 | 5 | 59 | 0 | 89 | 89 | 498 | 13 | 0 | 600 | 43 | 4 | 173 | 0 | 220 | 1774 |
| % App. Total | 2.3 | 96.4 | 1.3 | 0 | | 28.1 | 5.6 | 66.3 | 0 | | 14.8 | 83 | 2.2 | 0 | | 19.5 | 1.8 | 78.6 | 0 | | |
| PHF | .714 | .914 | .688 | .000 | .909 | .694 | .625 | .868 | .000 | .795 | .795 | .980 | .542 | .000 | .949 | .768 | .500 | .848 | .000 | .887 | .940 |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Mesa Ridge Pkwy - Sneffels St AM
 Site Code : S214580
 Start Date : 7/7/2021
 Page No : 3



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Mesa Ridge Pkwy - Sneffels St AM
 Site Code : S214580
 Start Date : 7/7/2021
 Page No : 4

| Start Time | Mesa Ridge Pkwy Southbound | | | | | Sneffels St Westbound | | | | | Mesa Ridge Pkwy Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|------------|----------------------------|---|---|---|------------|-----------------------|---|---|---|------------|----------------------------|---|---|---|------------|-----------------------|---|---|---|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |

Peak Hour Analysis From 6:30:00 AM to 8:15:00 AM - Peak 1 of 1

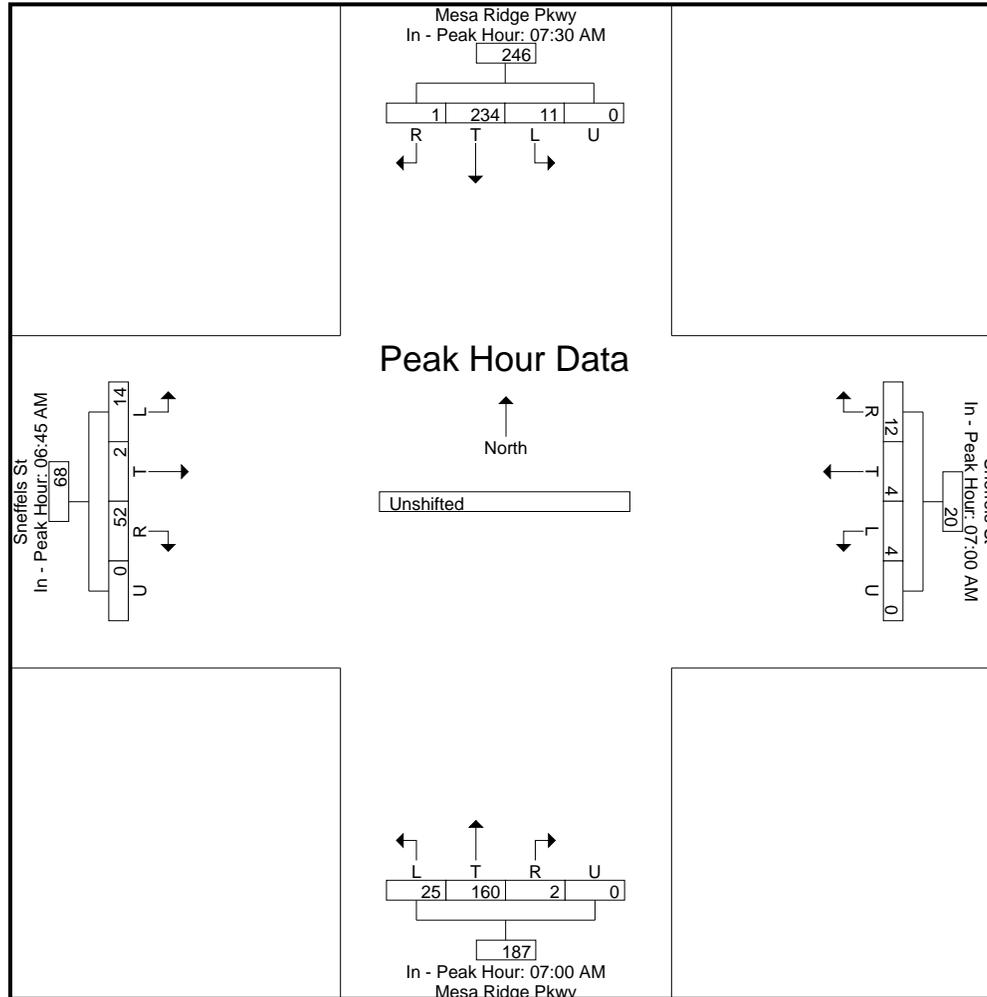
Peak Hour for Each Approach Begins at:

| | 7:30:00 AM | | | | | 7:00:00 AM | | | | | 7:00:00 AM | | | | | 6:45:00 AM | | | | |
|--------------|------------|------------|-----------|------|------------|------------|----------|-----------|------|-----------|------------|------------|----------|------|------------|------------|----------|-----------|------|-----------|
| +0 mins. | 4 | 203 | 3 | 0 | 210 | 9 | 1 | 14 | 0 | 24 | 16 | 121 | 0 | 0 | 137 | 10 | 2 | 40 | 0 | 52 |
| +5 mins. | 5 | 206 | 4 | 0 | 215 | 5 | 1 | 14 | 0 | 20 | 19 | 127 | 6 | 0 | 152 | 12 | 1 | 46 | 0 | 59 |
| +10 mins. | 2 | 218 | 1 | 0 | 221 | 9 | 2 | 17 | 0 | 28 | 28 | 123 | 2 | 0 | 153 | 9 | 2 | 51 | 0 | 62 |
| +15 mins. | 11 | 252 | 10 | 0 | 273 | 2 | 1 | 14 | 0 | 17 | 26 | 127 | 5 | 0 | 158 | 14 | 1 | 42 | 0 | 57 |
| Total Volume | 22 | 879 | 18 | 0 | 919 | 25 | 5 | 59 | 0 | 89 | 89 | 498 | 13 | 0 | 600 | 45 | 6 | 179 | 0 | 230 |
| % App. Total | 2.4 | 95.6 | 2 | 0 | | 28.1 | 5.6 | 66.3 | 0 | | 14.8 | 83 | 2.2 | 0 | | 19.6 | 2.6 | 77.8 | 0 | |
| PHF | .500 | .872 | .450 | .000 | .842 | .694 | .625 | .868 | .000 | .795 | .795 | .980 | .542 | .000 | .949 | .804 | .750 | .877 | .000 | .927 |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Mesa Ridge Pkwy - Sneffels St AM
 Site Code : S214580
 Start Date : 7/7/2021
 Page No : 5



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Mesa Ridge Pkwy - Sneffels St PM
 Site Code : S214580
 Start Date : 7/7/2021
 Page No : 1

Groups Printed- Unshifted

| Start Time | Mesa Ridge Pkwy Southbound | | | | | Sneffels St Westbound | | | | | Mesa Ridge Pkwy Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|-------------|----------------------------|------|-----|-----|------------|-----------------------|-----|------|---|------------|----------------------------|------|-----|---|------------|-----------------------|-----|------|-----|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| 04:00 PM | 15 | 159 | 9 | 0 | 183 | 2 | 4 | 22 | 0 | 28 | 51 | 261 | 8 | 0 | 320 | 7 | 3 | 30 | 0 | 40 | 571 |
| 04:15 PM | 31 | 171 | 12 | 1 | 215 | 2 | 3 | 15 | 0 | 20 | 45 | 283 | 8 | 0 | 336 | 6 | 5 | 24 | 0 | 35 | 606 |
| 04:30 PM | 19 | 178 | 10 | 0 | 207 | 7 | 3 | 29 | 0 | 39 | 57 | 312 | 13 | 0 | 382 | 10 | 3 | 27 | 0 | 40 | 668 |
| 04:45 PM | 21 | 168 | 18 | 0 | 207 | 4 | 5 | 26 | 0 | 35 | 53 | 260 | 12 | 0 | 325 | 12 | 3 | 21 | 0 | 36 | 603 |
| Total | 86 | 676 | 49 | 1 | 812 | 15 | 15 | 92 | 0 | 122 | 206 | 1116 | 41 | 0 | 1363 | 35 | 14 | 102 | 0 | 151 | 2448 |
| 05:00 PM | 22 | 152 | 12 | 0 | 186 | 8 | 2 | 20 | 0 | 30 | 70 | 256 | 11 | 0 | 337 | 3 | 6 | 22 | 0 | 31 | 584 |
| 05:15 PM | 27 | 181 | 16 | 0 | 224 | 3 | 6 | 22 | 0 | 31 | 40 | 325 | 11 | 0 | 376 | 7 | 1 | 26 | 0 | 34 | 665 |
| 05:30 PM | 18 | 168 | 16 | 0 | 202 | 2 | 9 | 13 | 0 | 24 | 47 | 248 | 10 | 0 | 305 | 7 | 0 | 20 | 0 | 27 | 558 |
| 05:45 PM | 39 | 189 | 13 | 0 | 241 | 1 | 6 | 24 | 0 | 31 | 50 | 221 | 18 | 0 | 289 | 7 | 4 | 29 | 1 | 41 | 602 |
| Total | 106 | 690 | 57 | 0 | 853 | 14 | 23 | 79 | 0 | 116 | 207 | 1050 | 50 | 0 | 1307 | 24 | 11 | 97 | 1 | 133 | 2409 |
| Grand Total | 192 | 1366 | 106 | 1 | 1665 | 29 | 38 | 171 | 0 | 238 | 413 | 2166 | 91 | 0 | 2670 | 59 | 25 | 199 | 1 | 284 | 4857 |
| Apprch % | 11.5 | 82 | 6.4 | 0.1 | | 12.2 | 16 | 71.8 | 0 | | 15.5 | 81.1 | 3.4 | 0 | | 20.8 | 8.8 | 70.1 | 0.4 | | |
| Total % | 4 | 28.1 | 2.2 | 0 | 34.3 | 0.6 | 0.8 | 3.5 | 0 | 4.9 | 8.5 | 44.6 | 1.9 | 0 | 55 | 1.2 | 0.5 | 4.1 | 0 | 5.8 | |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

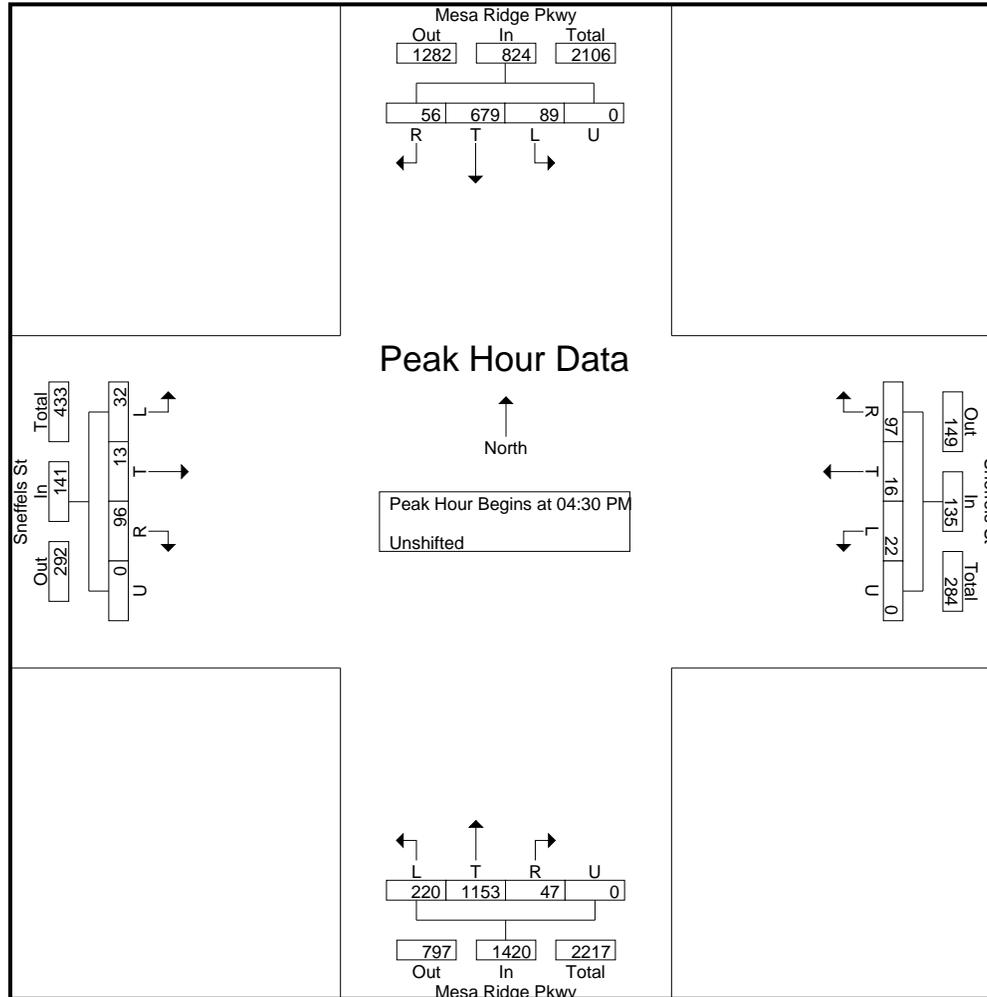
File Name : Mesa Ridge Pkwy - Sneffels St PM
 Site Code : S214580
 Start Date : 7/7/2021
 Page No : 2

| Start Time | Mesa Ridge Pkwy Southbound | | | | | Sneffels St Westbound | | | | | Mesa Ridge Pkwy Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|---|----------------------------|------------|-----------|------|------------|-----------------------|----------|-----------|------|------------|----------------------------|------------|-----------|------|------------|-----------------------|----------|-----------|------|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 4:30:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 4:30:00 PM | 19 | 178 | 10 | 0 | 207 | 7 | 3 | 29 | 0 | 39 | 57 | 312 | 13 | 0 | 382 | 10 | 3 | 27 | 0 | 40 | 668 |
| 4:45:00 PM | 21 | 168 | 18 | 0 | 207 | 4 | 5 | 26 | 0 | 35 | 53 | 260 | 12 | 0 | 325 | 12 | 3 | 21 | 0 | 36 | 603 |
| 5:00:00 PM | 22 | 152 | 12 | 0 | 186 | 8 | 2 | 20 | 0 | 30 | 70 | 256 | 11 | 0 | 337 | 3 | 6 | 22 | 0 | 31 | 584 |
| 5:15:00 PM | 27 | 181 | 16 | 0 | 224 | 3 | 6 | 22 | 0 | 31 | 40 | 325 | 11 | 0 | 376 | 7 | 1 | 26 | 0 | 34 | 665 |
| Total Volume | 89 | 679 | 56 | 0 | 824 | 22 | 16 | 97 | 0 | 135 | 220 | 1153 | 47 | 0 | 1420 | 32 | 13 | 96 | 0 | 141 | 2520 |
| % App. Total | 10.8 | 82.4 | 6.8 | 0 | | 16.3 | 11.9 | 71.9 | 0 | | 15.5 | 81.2 | 3.3 | 0 | | 22.7 | 9.2 | 68.1 | 0 | | |
| PHF | .824 | .938 | .778 | .000 | .920 | .688 | .667 | .836 | .000 | .865 | .786 | .887 | .904 | .000 | .929 | .667 | .542 | .889 | .000 | .881 | .943 |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Mesa Ridge Pkwy - Sneffels St PM
 Site Code : S214580
 Start Date : 7/7/2021
 Page No : 3



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

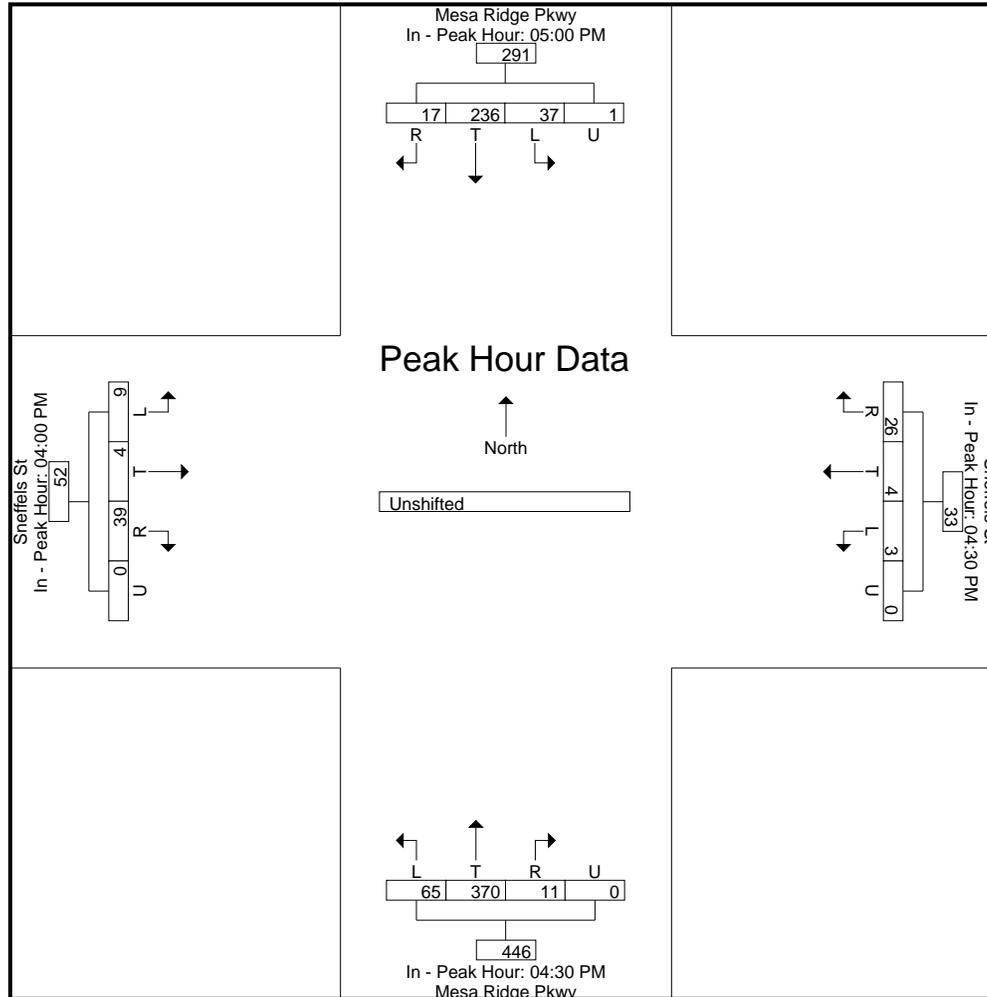
File Name : Mesa Ridge Pkwy - Sneffels St PM
 Site Code : S214580
 Start Date : 7/7/2021
 Page No : 4

| Start Time | Mesa Ridge Pkwy Southbound | | | | | Sneffels St Westbound | | | | | Mesa Ridge Pkwy Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|---|----------------------------|------------|-----------|------|------------|-----------------------|----------|-----------|------|------------|----------------------------|------------|-----------|------|------------|-----------------------|----------|-----------|------|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | | | |
| | 5:00:00 PM | | | | | 4:30:00 PM | | | | | 4:30:00 PM | | | | | 4:00:00 PM | | | | | |
| +0 mins. | 22 | 152 | 12 | 0 | 186 | 7 | 3 | 29 | 0 | 39 | 57 | 312 | 13 | 0 | 382 | 7 | 3 | 30 | 0 | 40 | |
| +5 mins. | 27 | 181 | 16 | 0 | 224 | 4 | 5 | 26 | 0 | 35 | 53 | 260 | 12 | 0 | 325 | 6 | 5 | 24 | 0 | 35 | |
| +10 mins. | 18 | 168 | 16 | 0 | 202 | 8 | 2 | 20 | 0 | 30 | 70 | 256 | 11 | 0 | 337 | 10 | 3 | 27 | 0 | 40 | |
| +15 mins. | 39 | 189 | 13 | 0 | 241 | 3 | 6 | 22 | 0 | 31 | 40 | 325 | 11 | 0 | 376 | 12 | 3 | 21 | 0 | 36 | |
| Total Volume | 106 | 690 | 57 | 0 | 853 | 22 | 16 | 97 | 0 | 135 | 220 | 1153 | 47 | 0 | 1420 | 35 | 14 | 102 | 0 | 151 | |
| % App. Total | 12.4 | 80.9 | 6.7 | 0 | | 16.3 | 11.9 | 71.9 | 0 | | 15.5 | 81.2 | 3.3 | 0 | | 23.2 | 9.3 | 67.5 | 0 | | |
| PHF | .679 | .913 | .891 | .000 | .885 | .688 | .667 | .836 | .000 | .865 | .786 | .887 | .904 | .000 | .929 | .729 | .700 | .850 | .000 | .944 | |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Mesa Ridge Pkwy - Sneffels St PM
 Site Code : S214580
 Start Date : 7/7/2021
 Page No : 5



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Landover Ln - Sneffels St AM
 Site Code : S214580
 Start Date : 7/8/2021
 Page No : 1

Groups Printed- Bank 1

| Start Time | Landover Ln Southbound | | | | | Sneffels St Westbound | | | | | Landover Ln Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total | |
|-------------|------------------------|---|---|---|------------|-----------------------|---|------|---|------------|------------------------|---|------|---|------------|-----------------------|---|-----|---|------------|------------|-----|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | | |
| 06:30 AM | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 06:45 AM | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total | 11 | 0 | 0 | 0 | 11 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 07:00 AM | 6 | 0 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 07:15 AM | 7 | 0 | 0 | 0 | 7 | 3 | 0 | 6 | 0 | 9 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 07:30 AM | 7 | 0 | 0 | 0 | 7 | 1 | 0 | 14 | 0 | 15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 07:45 AM | 13 | 0 | 0 | 0 | 13 | 1 | 0 | 7 | 0 | 8 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 23 |
| Total | 33 | 0 | 0 | 0 | 33 | 5 | 0 | 30 | 0 | 35 | 3 | 0 | 1 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 1 | 73 |
| 08:00 AM | 17 | 0 | 0 | 0 | 17 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 08:15 AM | 16 | 0 | 0 | 0 | 16 | 2 | 0 | 7 | 0 | 9 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Grand Total | 77 | 0 | 0 | 0 | 77 | 7 | 0 | 49 | 0 | 56 | 4 | 0 | 8 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 1 | 146 |
| Apprch % | 100 | 0 | 0 | 0 | | 12.5 | 0 | 87.5 | 0 | | 33.3 | 0 | 66.7 | 0 | | 0 | 0 | 100 | 0 | | | |
| Total % | 52.7 | 0 | 0 | 0 | 52.7 | 4.8 | 0 | 33.6 | 0 | 38.4 | 2.7 | 0 | 5.5 | 0 | 8.2 | 0 | 0 | 0.7 | 0 | 0.7 | | |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

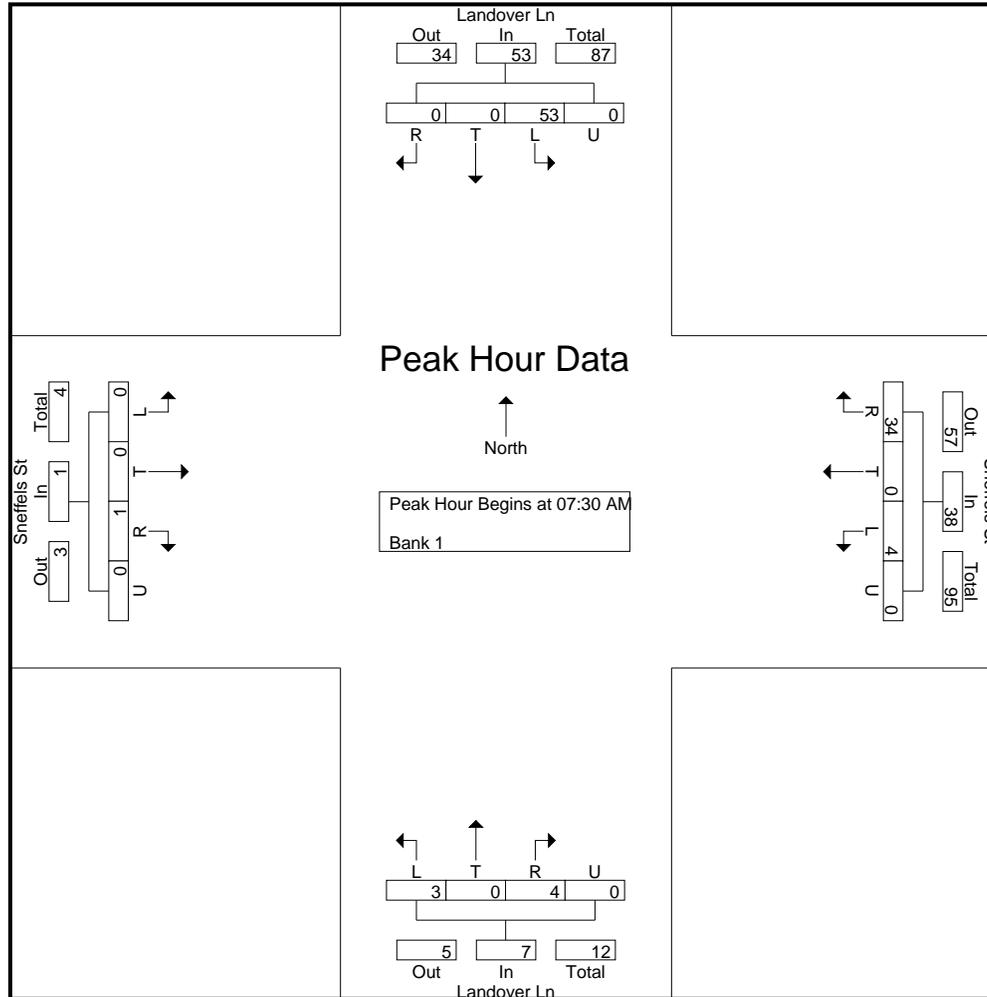
File Name : Landover Ln - Sneffels St AM
 Site Code : S214580
 Start Date : 7/8/2021
 Page No : 2

| Start Time | Landover Ln Southbound | | | | | Sneffels St Westbound | | | | | Landover Ln Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|---|------------------------|------|------|------|------------|-----------------------|------|------|------|------------|------------------------|------|------|------|------------|-----------------------|------|------|------|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| Peak Hour Analysis From 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 7:30:00 AM | | | | | | | | | | | | | | | | | | | | | |
| 7:30:00 AM | 7 | 0 | 0 | 0 | 7 | 1 | 0 | 14 | 0 | 15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 23 |
| 7:45:00 AM | 13 | 0 | 0 | 0 | 13 | 1 | 0 | 7 | 0 | 8 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 23 |
| 8:00:00 AM | 17 | 0 | 0 | 0 | 17 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 24 |
| 8:15:00 AM | 16 | 0 | 0 | 0 | 16 | 2 | 0 | 7 | 0 | 9 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 29 |
| Total Volume | 53 | 0 | 0 | 0 | 53 | 4 | 0 | 34 | 0 | 38 | 3 | 0 | 4 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 99 |
| % App. Total | 100 | 0 | 0 | 0 | | 10.5 | 0 | 89.5 | 0 | | 42.9 | 0 | 57.1 | 0 | | 0 | 0 | 100 | 0 | | |
| PHF | .779 | .000 | .000 | .000 | .779 | .500 | .000 | .607 | .000 | .633 | .750 | .000 | .333 | .000 | .438 | .000 | .000 | .250 | .000 | .250 | .853 |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Landover Ln - Sneffels St AM
 Site Code : S214580
 Start Date : 7/8/2021
 Page No : 3



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Landover Ln - Sneffels St AM
 Site Code : S214580
 Start Date : 7/8/2021
 Page No : 4

| Start Time | Landover Ln Southbound | | | | | Sneffels St Westbound | | | | | Landover Ln Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|------------|------------------------|---|---|---|------------|-----------------------|---|---|---|------------|------------------------|---|---|---|------------|-----------------------|---|---|---|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |

Peak Hour Analysis From 6:30:00 AM to 8:15:00 AM - Peak 1 of 1

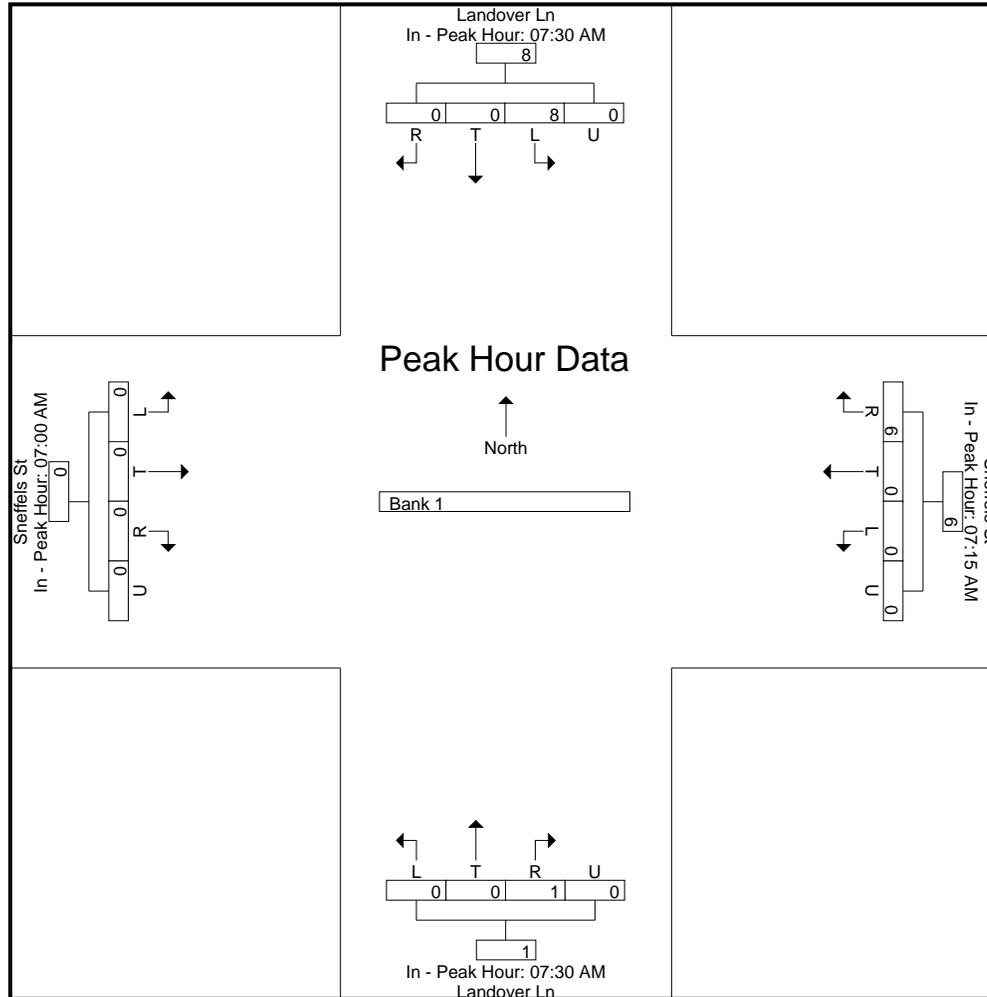
Peak Hour for Each Approach Begins at:

| | 7:30:00 AM | | | | | 7:15:00 AM | | | | | 7:30:00 AM | | | | | 7:00:00 AM | | | | |
|--------------|------------|------|------|------|------|------------|------|------|------|------|------------|------|------|------|------|------------|------|------|------|------|
| +0 mins. | 7 | 0 | 0 | 0 | 7 | 3 | 0 | 6 | 0 | 9 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| +5 mins. | 13 | 0 | 0 | 0 | 13 | 1 | 0 | 14 | 0 | 15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| +10 mins. | 17 | 0 | 0 | 0 | 17 | 1 | 0 | 7 | 0 | 8 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 16 | 0 | 0 | 0 | 16 | 0 | 0 | 6 | 0 | 6 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 1 | 0 | 1 |
| Total Volume | 53 | 0 | 0 | 0 | 53 | 5 | 0 | 33 | 0 | 38 | 3 | 0 | 4 | 0 | 7 | 0 | 0 | 1 | 0 | 1 |
| % App. Total | 100 | 0 | 0 | 0 | | 13.2 | 0 | 86.8 | 0 | | 42.9 | 0 | 57.1 | 0 | | 0 | 0 | 100 | 0 | |
| PHF | .779 | .000 | .000 | .000 | .779 | .417 | .000 | .589 | .000 | .633 | .750 | .000 | .333 | .000 | .438 | .000 | .000 | .250 | .000 | .250 |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Landover Ln - Sneffels St AM
 Site Code : S214580
 Start Date : 7/8/2021
 Page No : 5



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Landover Ln - Sneffels St PM
 Site Code : S214580
 Start Date : 7/15/2021
 Page No : 1

Groups Printed- Bank 1

| Start Time | Landover Ln Southbound | | | | | Sneffels St Westbound | | | | | Landover Ln Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total | |
|-------------|------------------------|---|-----|---|------------|-----------------------|---|------|---|------------|------------------------|---|------|---|------------|-----------------------|---|-----|---|------------|------------|-----|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | | |
| 04:00 PM | 9 | 0 | 0 | 0 | 9 | 3 | 0 | 10 | 0 | 13 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 04:15 PM | 6 | 0 | 0 | 0 | 6 | 0 | 0 | 14 | 0 | 14 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 04:30 PM | 6 | 0 | 1 | 0 | 7 | 3 | 0 | 10 | 0 | 13 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 22 |
| 04:45 PM | 9 | 0 | 1 | 0 | 10 | 2 | 0 | 16 | 0 | 18 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Total | 30 | 0 | 2 | 0 | 32 | 8 | 0 | 50 | 0 | 58 | 1 | 0 | 5 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 1 | 97 |
| 05:00 PM | 5 | 0 | 0 | 0 | 5 | 2 | 0 | 14 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 22 |
| 05:15 PM | 6 | 0 | 0 | 0 | 6 | 1 | 0 | 16 | 0 | 17 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 26 |
| 05:30 PM | 7 | 0 | 0 | 0 | 7 | 1 | 0 | 17 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 05:45 PM | 5 | 0 | 0 | 0 | 5 | 1 | 0 | 8 | 0 | 9 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 16 |
| Total | 23 | 0 | 0 | 0 | 23 | 5 | 0 | 55 | 0 | 60 | 1 | 0 | 2 | 0 | 3 | 1 | 0 | 2 | 0 | 0 | 3 | 89 |
| Grand Total | 53 | 0 | 2 | 0 | 55 | 13 | 0 | 105 | 0 | 118 | 2 | 0 | 7 | 0 | 9 | 1 | 0 | 3 | 0 | 0 | 4 | 186 |
| Apprch % | 96.4 | 0 | 3.6 | 0 | | 11 | 0 | 89 | 0 | | 22.2 | 0 | 77.8 | 0 | | 25 | 0 | 75 | 0 | 0 | | |
| Total % | 28.5 | 0 | 1.1 | 0 | 29.6 | 7 | 0 | 56.5 | 0 | 63.4 | 1.1 | 0 | 3.8 | 0 | 4.8 | 0.5 | 0 | 1.6 | 0 | 0 | 2.2 | |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

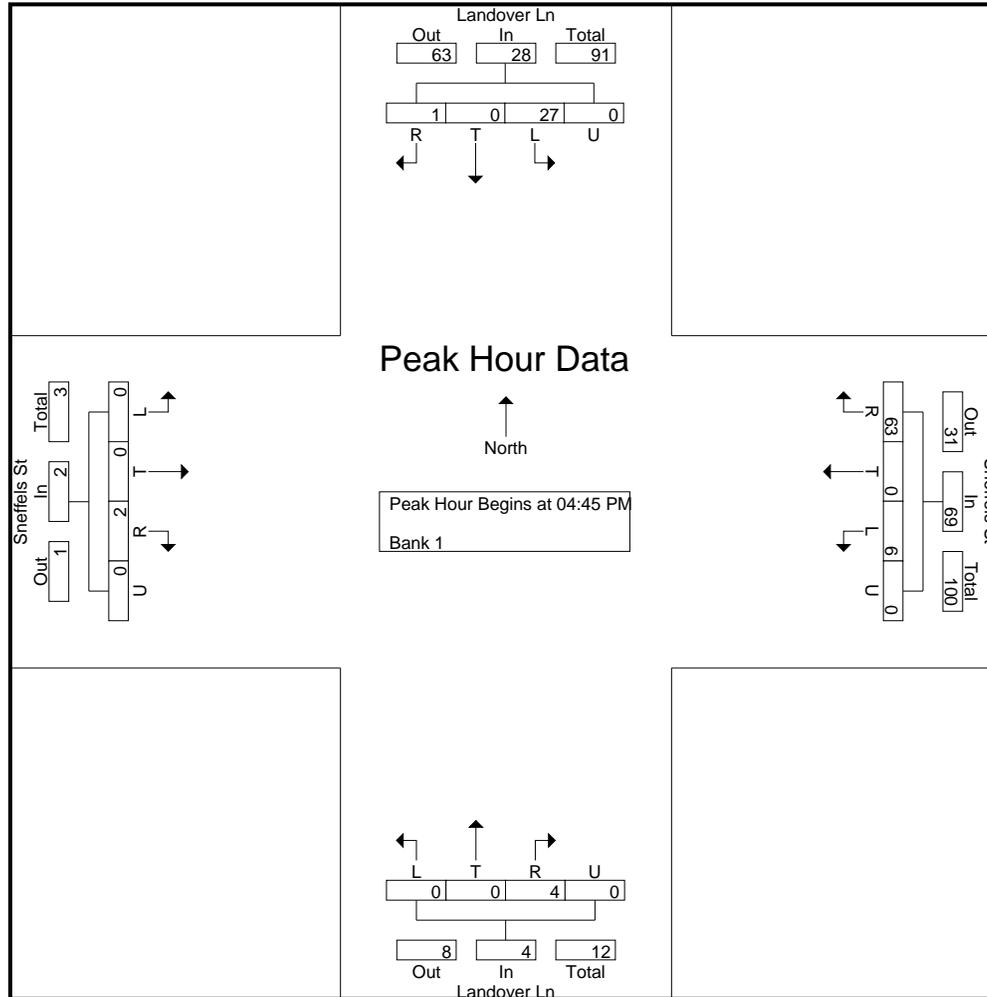
File Name : Landover Ln - Sneffels St PM
 Site Code : S214580
 Start Date : 7/15/2021
 Page No : 2

| Start Time | Landover Ln Southbound | | | | | Sneffels St Westbound | | | | | Landover Ln Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|---|------------------------|------|------|------|------------|-----------------------|------|------|------|------------|------------------------|------|------|------|------------|-----------------------|------|------|------|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 4:45:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 4:45:00 PM | 9 | 0 | 1 | 0 | 10 | 2 | 0 | 16 | 0 | 18 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 30 |
| 5:00:00 PM | 5 | 0 | 0 | 0 | 5 | 2 | 0 | 14 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 22 |
| 5:15:00 PM | 6 | 0 | 0 | 0 | 6 | 1 | 0 | 16 | 0 | 17 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 26 |
| 5:30:00 PM | 7 | 0 | 0 | 0 | 7 | 1 | 0 | 17 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| Total Volume | 27 | 0 | 1 | 0 | 28 | 6 | 0 | 63 | 0 | 69 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 2 | 0 | 2 | 103 |
| % App. Total | 96.4 | 0 | 3.6 | 0 | | 8.7 | 0 | 91.3 | 0 | | 0 | 0 | 100 | 0 | | 0 | 0 | 100 | 0 | | |
| PHF | .750 | .000 | .250 | .000 | .700 | .750 | .000 | .926 | .000 | .958 | .000 | .000 | .500 | .000 | .500 | .000 | .000 | .500 | .000 | .500 | .858 |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Landover Ln - Sneffels St PM
 Site Code : S214580
 Start Date : 7/15/2021
 Page No : 3



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Landover Ln - Sneffels St PM
 Site Code : S214580
 Start Date : 7/15/2021
 Page No : 4

| Start Time | Landover Ln Southbound | | | | | Sneffels St Westbound | | | | | Landover Ln Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|------------|------------------------|---|---|---|------------|-----------------------|---|---|---|------------|------------------------|---|---|---|------------|-----------------------|---|---|---|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |

Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1

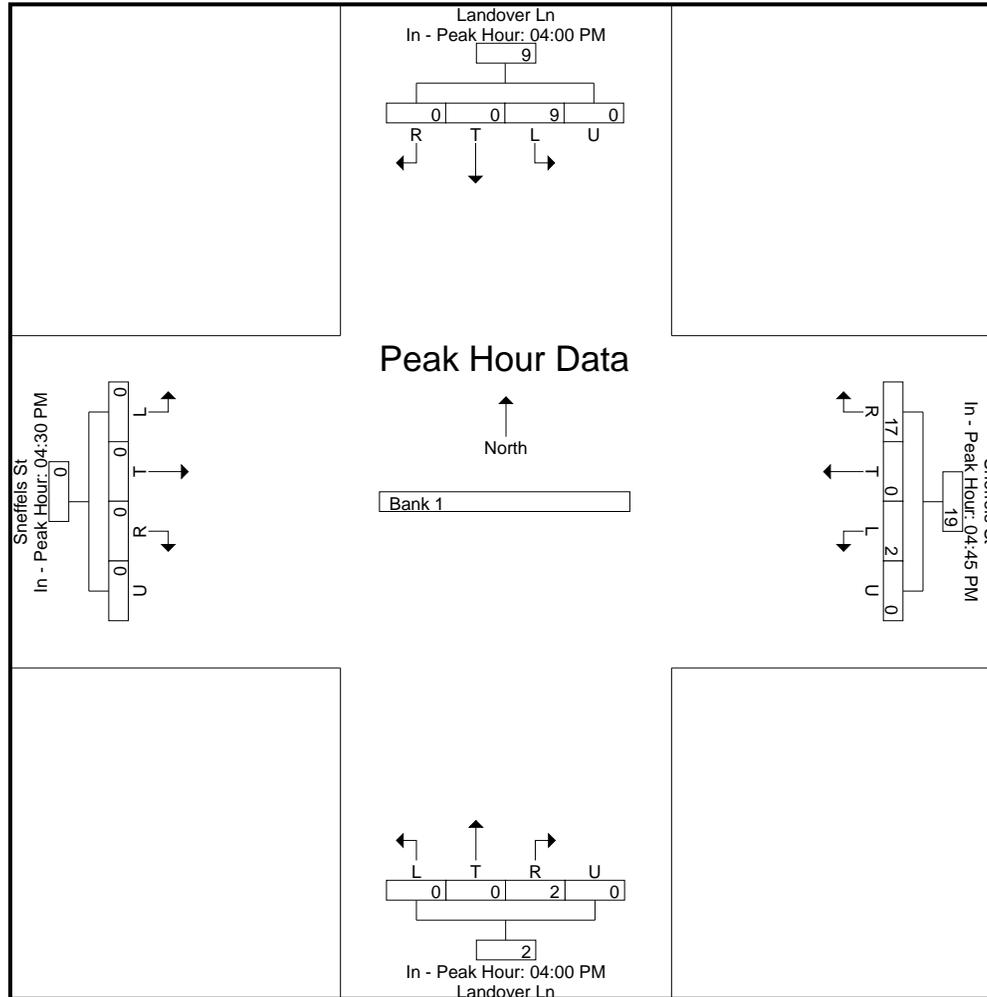
Peak Hour for Each Approach Begins at:

| | 4:00:00 PM | | | | | 4:45:00 PM | | | | | 4:00:00 PM | | | | | 4:30:00 PM | | | | |
|--------------|------------|------|------|------|------|------------|------|------|------|------|------------|------|------|------|------|------------|------|------|------|------|
| +0 mins. | 9 | 0 | 0 | 0 | 9 | 2 | 0 | 16 | 0 | 18 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 |
| +5 mins. | 6 | 0 | 0 | 0 | 6 | 2 | 0 | 14 | 0 | 16 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| +10 mins. | 6 | 0 | 1 | 0 | 7 | 1 | 0 | 16 | 0 | 17 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| +15 mins. | 9 | 0 | 1 | 0 | 10 | 1 | 0 | 17 | 0 | 18 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 |
| Total Volume | 30 | 0 | 2 | 0 | 32 | 6 | 0 | 63 | 0 | 69 | 1 | 0 | 5 | 0 | 6 | 0 | 0 | 3 | 0 | 3 |
| % App. Total | 93.8 | 0 | 6.2 | 0 | | 8.7 | 0 | 91.3 | 0 | | 16.7 | 0 | 83.3 | 0 | | 0 | 0 | 100 | 0 | |
| PHF | .833 | .000 | .500 | .000 | .800 | .750 | .000 | .926 | .000 | .958 | .250 | .000 | .625 | .000 | .750 | .000 | .000 | .750 | .000 | .750 |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Landover Ln - Sneffels St PM
 Site Code : S214580
 Start Date : 7/15/2021
 Page No : 5



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Pinefeather Dr - Sneffels St AM
 Site Code : S214580
 Start Date : 7/8/2021
 Page No : 1

Groups Printed- Unshifted

| Start Time | Pinefeather Dr Southbound | | | | | Sneffels St Westbound | | | | | Pinefeather Dr Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|-------------|---------------------------|---|-----|---|------------|-----------------------|------|------|---|------------|---------------------------|---|-----|---|------------|-----------------------|------|-----|---|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| 06:30 AM | 6 | 0 | 0 | 0 | 6 | 0 | 3 | 4 | 0 | 7 | 0 | 0 | 5 | 0 | 5 | 0 | 34 | 1 | 0 | 35 | 53 |
| 06:45 AM | 9 | 0 | 0 | 0 | 9 | 0 | 6 | 5 | 0 | 11 | 0 | 0 | 5 | 0 | 5 | 0 | 25 | 0 | 0 | 25 | 50 |
| Total | 15 | 0 | 0 | 0 | 15 | 0 | 9 | 9 | 0 | 18 | 0 | 0 | 10 | 0 | 10 | 0 | 59 | 1 | 0 | 60 | 103 |
| 07:00 AM | 10 | 0 | 1 | 0 | 11 | 2 | 7 | 5 | 0 | 14 | 0 | 0 | 1 | 0 | 1 | 0 | 32 | 0 | 0 | 32 | 58 |
| 07:15 AM | 8 | 0 | 0 | 0 | 8 | 1 | 11 | 3 | 0 | 15 | 0 | 0 | 1 | 0 | 1 | 0 | 34 | 0 | 0 | 34 | 58 |
| 07:30 AM | 8 | 0 | 0 | 0 | 8 | 2 | 6 | 6 | 0 | 14 | 0 | 0 | 3 | 0 | 3 | 1 | 37 | 0 | 0 | 38 | 63 |
| 07:45 AM | 8 | 0 | 1 | 0 | 9 | 4 | 10 | 4 | 0 | 18 | 0 | 0 | 2 | 0 | 2 | 0 | 26 | 0 | 0 | 26 | 55 |
| Total | 34 | 0 | 2 | 0 | 36 | 9 | 34 | 18 | 0 | 61 | 0 | 0 | 7 | 0 | 7 | 1 | 129 | 0 | 0 | 130 | 234 |
| 08:00 AM | 7 | 0 | 0 | 0 | 7 | 1 | 10 | 8 | 0 | 19 | 0 | 0 | 4 | 0 | 4 | 0 | 22 | 0 | 0 | 22 | 52 |
| 08:15 AM | 10 | 0 | 1 | 0 | 11 | 1 | 13 | 1 | 0 | 15 | 0 | 0 | 3 | 0 | 3 | 1 | 38 | 0 | 0 | 39 | 68 |
| Grand Total | 66 | 0 | 3 | 0 | 69 | 11 | 66 | 36 | 0 | 113 | 0 | 0 | 24 | 0 | 24 | 2 | 248 | 1 | 0 | 251 | 457 |
| Apprch % | 95.7 | 0 | 4.3 | 0 | | 9.7 | 58.4 | 31.9 | 0 | | 0 | 0 | 100 | 0 | | 0.8 | 98.8 | 0.4 | 0 | | |
| Total % | 14.4 | 0 | 0.7 | 0 | 15.1 | 2.4 | 14.4 | 7.9 | 0 | 24.7 | 0 | 0 | 5.3 | 0 | 5.3 | 0.4 | 54.3 | 0.2 | 0 | 54.9 | |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

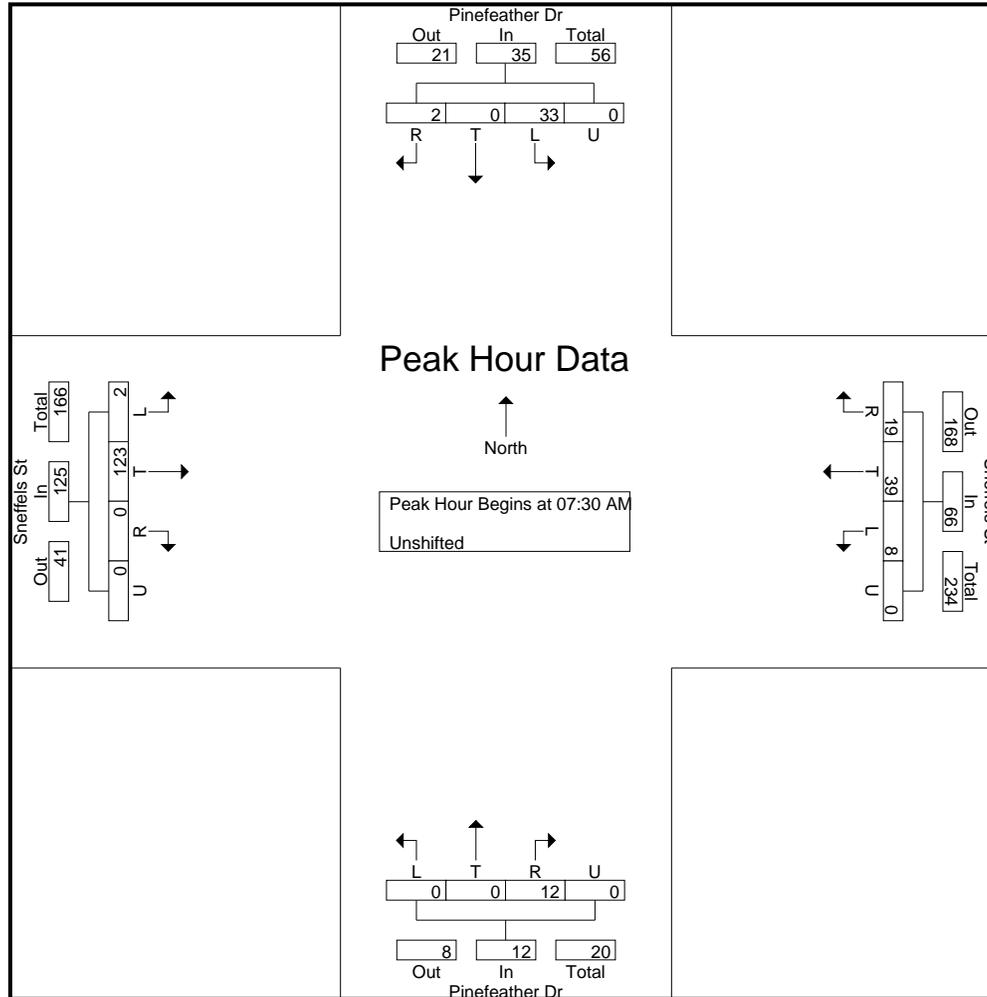
File Name : Pinefeather Dr - Sneffels St AM
 Site Code : S214580
 Start Date : 7/8/2021
 Page No : 2

| Start Time | Pinefeather Dr Southbound | | | | | Sneffels St Westbound | | | | | Pinefeather Dr Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|---|---------------------------|------|------|------|------------|-----------------------|------|------|------|------------|---------------------------|------|------|------|------------|-----------------------|------|------|------|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| Peak Hour Analysis From 6:30:00 AM to 8:15:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 7:30:00 AM | | | | | | | | | | | | | | | | | | | | | |
| 7:30:00 AM | 8 | 0 | 0 | 0 | 8 | 2 | 6 | 6 | 0 | 14 | 0 | 0 | 3 | 0 | 3 | 1 | 37 | 0 | 0 | 38 | 63 |
| 7:45:00 AM | 8 | 0 | 1 | 0 | 9 | 4 | 10 | 4 | 0 | 18 | 0 | 0 | 2 | 0 | 2 | 0 | 26 | 0 | 0 | 26 | 55 |
| 8:00:00 AM | 7 | 0 | 0 | 0 | 7 | 1 | 10 | 8 | 0 | 19 | 0 | 0 | 4 | 0 | 4 | 0 | 22 | 0 | 0 | 22 | 52 |
| 8:15:00 AM | 10 | 0 | 1 | 0 | 11 | 1 | 13 | 1 | 0 | 15 | 0 | 0 | 3 | 0 | 3 | 1 | 38 | 0 | 0 | 39 | 68 |
| Total Volume | 33 | 0 | 2 | 0 | 35 | 8 | 39 | 19 | 0 | 66 | 0 | 0 | 12 | 0 | 12 | 2 | 123 | 0 | 0 | 125 | 238 |
| % App. Total | 94.3 | 0 | 5.7 | 0 | | 12.1 | 59.1 | 28.8 | 0 | | 0 | 0 | 100 | 0 | | 1.6 | 98.4 | 0 | 0 | | |
| PHF | .825 | .000 | .500 | .000 | .795 | .500 | .750 | .594 | .000 | .868 | .000 | .000 | .750 | .000 | .750 | .500 | .809 | .000 | .000 | .801 | .875 |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Pinefeather Dr - Sneffels St AM
 Site Code : S214580
 Start Date : 7/8/2021
 Page No : 3



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Pinefeather Dr - Sneffels St AM
 Site Code : S214580
 Start Date : 7/8/2021
 Page No : 4

| Start Time | Pinefeather Dr Southbound | | | | | Sneffels St Westbound | | | | | Pinefeather Dr Northbound | | | | | Sneffels St Eastbound | | | | | Int. Total |
|------------|---------------------------|---|---|---|------------|-----------------------|---|---|---|------------|---------------------------|---|---|---|------------|-----------------------|---|---|---|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |

Peak Hour Analysis From 6:30:00 AM to 8:15:00 AM - Peak 1 of 1

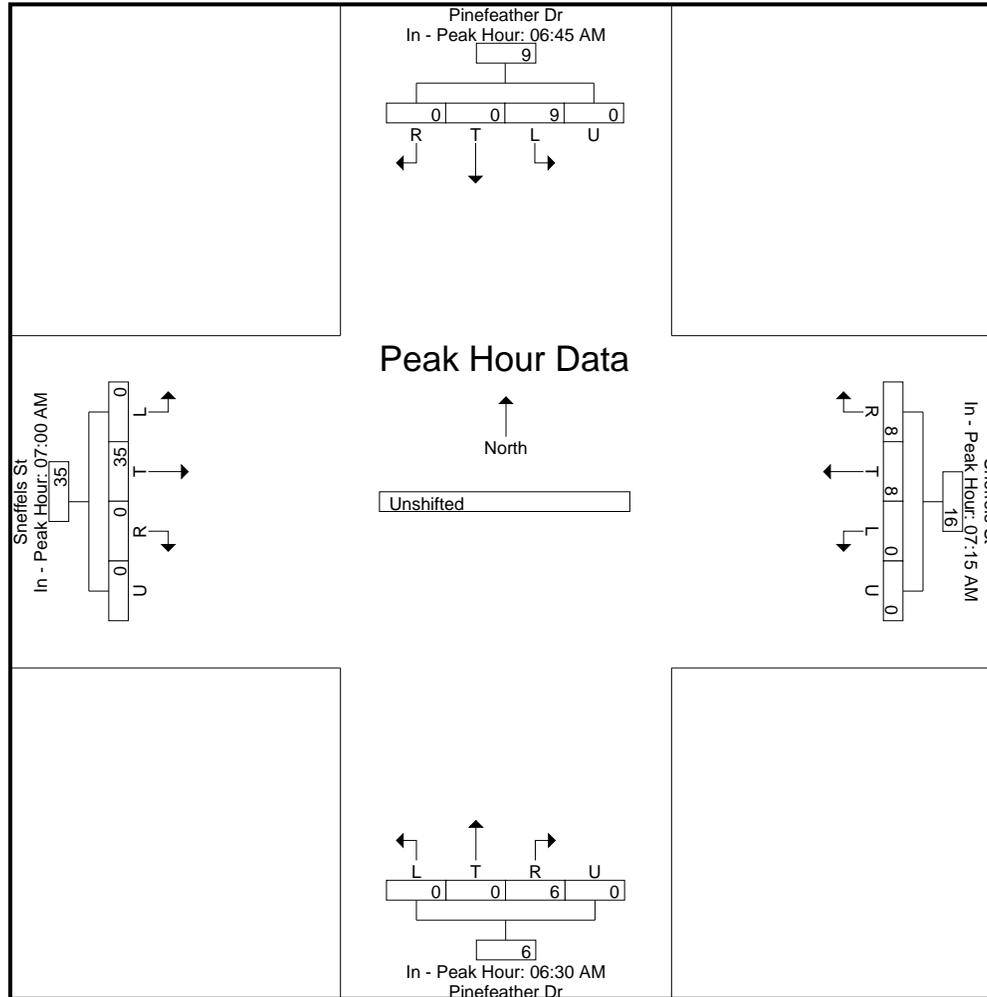
Peak Hour for Each Approach Begins at:

| | 6:45:00 AM | | | | | 7:15:00 AM | | | | | 6:30:00 AM | | | | | 7:00:00 AM | | | | |
|--------------|------------|------|----------|------|-----------|------------|-----------|----------|------|-----------|------------|------|----------|------|----------|------------|-----------|------|------|-----------|
| +0 mins. | 9 | 0 | 0 | 0 | 9 | 1 | 11 | 3 | 0 | 15 | 0 | 0 | 5 | 0 | 5 | 0 | 32 | 0 | 0 | 32 |
| +5 mins. | 10 | 0 | 1 | 0 | 11 | 2 | 6 | 6 | 0 | 14 | 0 | 0 | 5 | 0 | 5 | 0 | 34 | 0 | 0 | 34 |
| +10 mins. | 8 | 0 | 0 | 0 | 8 | 4 | 10 | 4 | 0 | 18 | 0 | 0 | 1 | 0 | 1 | 1 | 37 | 0 | 0 | 38 |
| +15 mins. | 8 | 0 | 0 | 0 | 8 | 1 | 10 | 8 | 0 | 19 | 0 | 0 | 1 | 0 | 1 | 0 | 26 | 0 | 0 | 26 |
| Total Volume | 35 | 0 | 1 | 0 | 36 | 8 | 37 | 21 | 0 | 66 | 0 | 0 | 12 | 0 | 12 | 1 | 129 | 0 | 0 | 130 |
| % App. Total | 97.2 | 0 | 2.8 | 0 | | 12.1 | 56.1 | 31.8 | 0 | | 0 | 0 | 100 | 0 | | 0.8 | 99.2 | 0 | 0 | |
| PHF | .875 | .000 | .250 | .000 | .818 | .500 | .841 | .656 | .000 | .868 | .000 | .000 | .600 | .000 | .600 | .250 | .872 | .000 | .000 | .855 |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Pinefeather Dr - Sneffels St AM
 Site Code : S214580
 Start Date : 7/8/2021
 Page No : 5



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Pinefeather Dr - Sneffels St PM
 Site Code : S214580
 Start Date : 7/15/2021
 Page No : 1

Groups Printed- Unshifted

| Start Time | Pinefeather Dr Southbound | | | | | Pinefeather Dr Westbound | | | | | Landover Ln Northbound | | | | | Pinefeather Dr Eastbound | | | | | Int. Total |
|-------------|---------------------------|---|-----|---|------------|--------------------------|------|------|---|------------|------------------------|---|-----|---|------------|--------------------------|------|-----|---|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| 04:00 PM | 7 | 0 | 0 | 0 | 7 | 2 | 31 | 9 | 0 | 42 | 1 | 0 | 2 | 0 | 3 | 0 | 18 | 0 | 0 | 18 | 70 |
| 04:15 PM | 12 | 0 | 0 | 0 | 12 | 1 | 38 | 13 | 0 | 52 | 1 | 0 | 3 | 0 | 4 | 3 | 19 | 0 | 0 | 22 | 90 |
| 04:30 PM | 8 | 0 | 2 | 0 | 10 | 2 | 43 | 11 | 0 | 56 | 0 | 0 | 2 | 0 | 2 | 2 | 24 | 1 | 0 | 27 | 95 |
| 04:45 PM | 9 | 0 | 1 | 0 | 10 | 6 | 39 | 13 | 0 | 58 | 0 | 0 | 2 | 0 | 2 | 1 | 32 | 0 | 0 | 33 | 103 |
| Total | 36 | 0 | 3 | 0 | 39 | 11 | 151 | 46 | 0 | 208 | 2 | 0 | 9 | 0 | 11 | 6 | 93 | 1 | 0 | 100 | 358 |
| 05:00 PM | 5 | 0 | 0 | 0 | 5 | 0 | 44 | 13 | 0 | 57 | 0 | 0 | 5 | 0 | 5 | 2 | 30 | 1 | 0 | 33 | 100 |
| 05:15 PM | 9 | 0 | 0 | 0 | 9 | 3 | 49 | 11 | 0 | 63 | 1 | 0 | 1 | 0 | 2 | 1 | 22 | 1 | 0 | 24 | 98 |
| 05:30 PM | 12 | 0 | 0 | 0 | 12 | 6 | 52 | 10 | 0 | 68 | 0 | 0 | 3 | 0 | 3 | 1 | 41 | 0 | 0 | 42 | 125 |
| 05:45 PM | 11 | 0 | 1 | 0 | 12 | 4 | 41 | 10 | 0 | 55 | 0 | 0 | 2 | 0 | 2 | 1 | 23 | 0 | 0 | 24 | 93 |
| Total | 37 | 0 | 1 | 0 | 38 | 13 | 186 | 44 | 0 | 243 | 1 | 0 | 11 | 0 | 12 | 5 | 116 | 2 | 0 | 123 | 416 |
| Grand Total | 73 | 0 | 4 | 0 | 77 | 24 | 337 | 90 | 0 | 451 | 3 | 0 | 20 | 0 | 23 | 11 | 209 | 3 | 0 | 223 | 774 |
| Apprch % | 94.8 | 0 | 5.2 | 0 | | 5.3 | 74.7 | 20 | 0 | | 13 | 0 | 87 | 0 | | 4.9 | 93.7 | 1.3 | 0 | | |
| Total % | 9.4 | 0 | 0.5 | 0 | 9.9 | 3.1 | 43.5 | 11.6 | 0 | 58.3 | 0.4 | 0 | 2.6 | 0 | 3 | 1.4 | 27 | 0.4 | 0 | 28.8 | |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

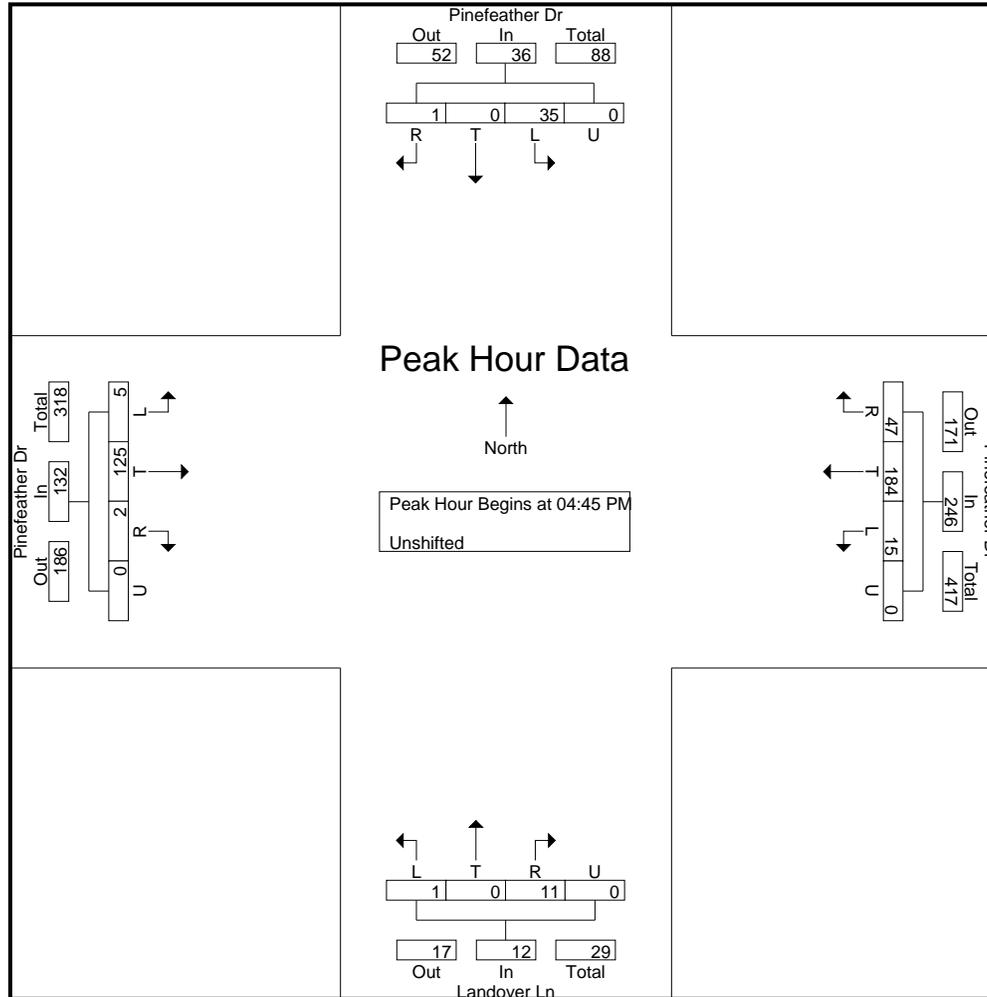
File Name : Pinefeather Dr - Sneffels St PM
 Site Code : S214580
 Start Date : 7/15/2021
 Page No : 2

| Start Time | Pinefeather Dr Southbound | | | | | Pinefeather Dr Westbound | | | | | Landover Ln Northbound | | | | | Pinefeather Dr Eastbound | | | | | Int. Total |
|---|---------------------------|------|------|------|------------|--------------------------|------|------|------|------------|------------------------|------|------|------|------------|--------------------------|------|------|------|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 4:45:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 4:45:00 PM | 9 | 0 | 1 | 0 | 10 | 6 | 39 | 13 | 0 | 58 | 0 | 0 | 2 | 0 | 2 | 1 | 32 | 0 | 0 | 33 | 103 |
| 5:00:00 PM | 5 | 0 | 0 | 0 | 5 | 0 | 44 | 13 | 0 | 57 | 0 | 0 | 5 | 0 | 5 | 2 | 30 | 1 | 0 | 33 | 100 |
| 5:15:00 PM | 9 | 0 | 0 | 0 | 9 | 3 | 49 | 11 | 0 | 63 | 1 | 0 | 1 | 0 | 2 | 1 | 22 | 1 | 0 | 24 | 98 |
| 5:30:00 PM | 12 | 0 | 0 | 0 | 12 | 6 | 52 | 10 | 0 | 68 | 0 | 0 | 3 | 0 | 3 | 1 | 41 | 0 | 0 | 42 | 125 |
| Total Volume | 35 | 0 | 1 | 0 | 36 | 15 | 184 | 47 | 0 | 246 | 1 | 0 | 11 | 0 | 12 | 5 | 125 | 2 | 0 | 132 | 426 |
| % App. Total | 97.2 | 0 | 2.8 | 0 | | 6.1 | 74.8 | 19.1 | 0 | | 8.3 | 0 | 91.7 | 0 | | 3.8 | 94.7 | 1.5 | 0 | | |
| PHF | .729 | .000 | .250 | .000 | .750 | .625 | .885 | .904 | .000 | .904 | .250 | .000 | .550 | .000 | .600 | .625 | .762 | .500 | .000 | .786 | .852 |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Pinefeather Dr - Sneffels St PM
 Site Code : S214580
 Start Date : 7/15/2021
 Page No : 3



LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

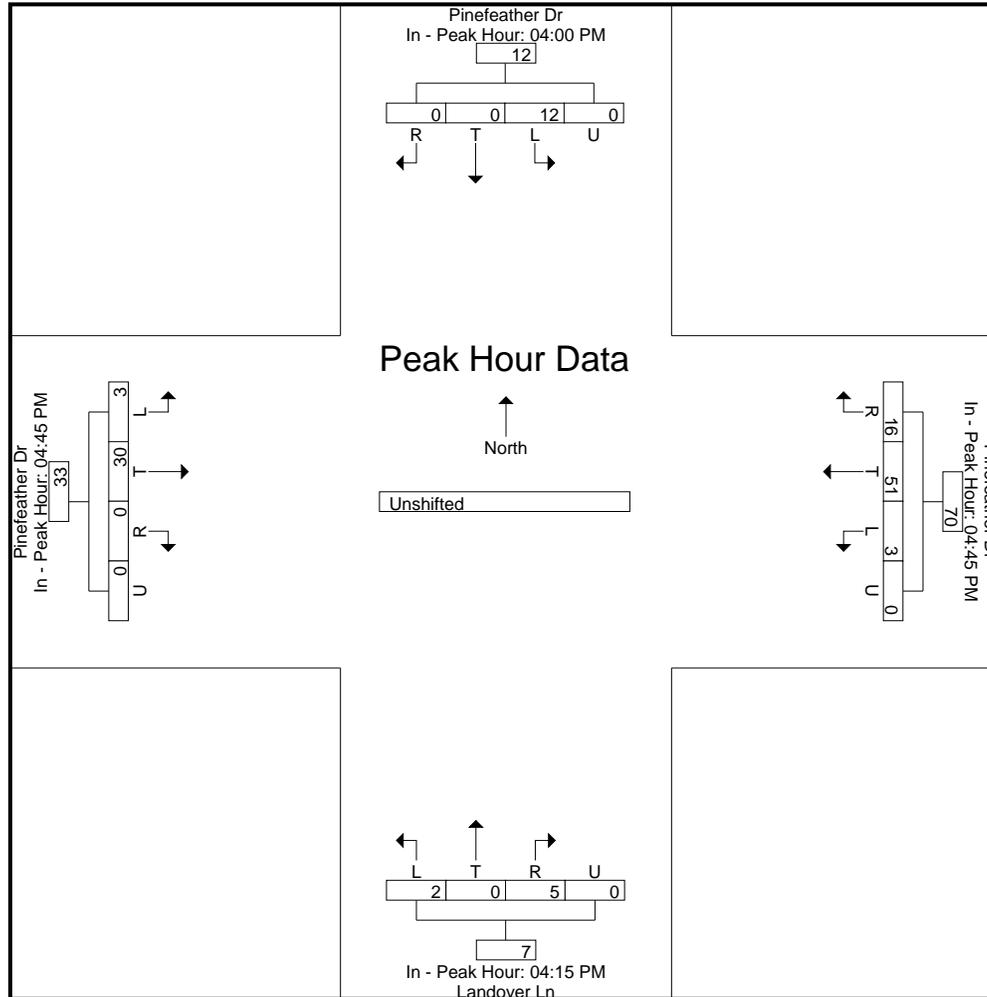
File Name : Pinefeather Dr - Sneffels St PM
 Site Code : S214580
 Start Date : 7/15/2021
 Page No : 4

| Start Time | Pinefeather Dr Southbound | | | | | Pinefeather Dr Westbound | | | | | Landover Ln Northbound | | | | | Pinefeather Dr Eastbound | | | | | Int. Total |
|---|---------------------------|------|------|------|------------|--------------------------|------|------|------|------------|------------------------|------|------|------|------------|--------------------------|------|------|------|------------|------------|
| | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | L | T | R | U | App. Total | |
| Peak Hour Analysis From 4:00:00 PM to 5:45:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | | | |
| | 4:00:00 PM | | | | | 4:45:00 PM | | | | | 4:15:00 PM | | | | | 4:45:00 PM | | | | | |
| +0 mins. | 7 | 0 | 0 | 0 | 7 | 6 | 39 | 13 | 0 | 58 | 1 | 0 | 3 | 0 | 4 | 1 | 32 | 0 | 0 | 33 | |
| +5 mins. | 12 | 0 | 0 | 0 | 12 | 0 | 44 | 13 | 0 | 57 | 0 | 0 | 2 | 0 | 2 | 2 | 30 | 1 | 0 | 33 | |
| +10 mins. | 8 | 0 | 2 | 0 | 10 | 3 | 49 | 11 | 0 | 63 | 0 | 0 | 2 | 0 | 2 | 1 | 22 | 1 | 0 | 24 | |
| +15 mins. | 9 | 0 | 1 | 0 | 10 | 6 | 52 | 10 | 0 | 68 | 0 | 0 | 5 | 0 | 5 | 1 | 41 | 0 | 0 | 42 | |
| Total Volume | 36 | 0 | 3 | 0 | 39 | 15 | 184 | 47 | 0 | 246 | 1 | 0 | 12 | 0 | 13 | 5 | 125 | 2 | 0 | 132 | |
| % App. Total | 92.3 | 0 | 7.7 | 0 | | 6.1 | 74.8 | 19.1 | 0 | | 7.7 | 0 | 92.3 | 0 | | 3.8 | 94.7 | 1.5 | 0 | | |
| PHF | .750 | .000 | .375 | .000 | .813 | .625 | .885 | .904 | .000 | .904 | .250 | .000 | .600 | .000 | .650 | .625 | .762 | .500 | .000 | .786 | |

LSC Transportation Consultants, Inc.

545 E Pikes Peak Ave, Suite 210
 Colorado Springs, CO 80905
 719-633-2868

File Name : Pinefeather Dr - Sneffels St PM
 Site Code : S214580
 Start Date : 7/15/2021
 Page No : 5



Queuing Reports



Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #1

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | SE | SE | SE | NW | |
|-----------------------|-----|-----|----|-----|----|-----|-----|-----|----|-----|-----|-----|--|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L | |
| Maximum Queue (ft) | 111 | 121 | 88 | 17 | 55 | 183 | 145 | 3 | 63 | 38 | 63 | 66 | |
| Average Queue (ft) | 68 | 59 | 39 | 6 | 20 | 114 | 80 | 0 | 43 | 13 | 34 | 40 | |
| 95th Queue (ft) | 121 | 120 | 88 | 18 | 55 | 194 | 156 | 4 | 74 | 41 | 66 | 74 | |
| Link Distance (ft) | | | | | | | | | | | 363 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 325 | | | 315 | | 510 | | 225 | | 160 | | 315 | |
| Storage Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #1

| Movement | NW | NW |
|-----------------------|----|-----|
| Directions Served | T | R |
| Maximum Queue (ft) | 25 | 105 |
| Average Queue (ft) | 10 | 70 |
| 95th Queue (ft) | 29 | 113 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #2

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | SE | SE | SE | NW | |
|-----------------------|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|--|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L | |
| Maximum Queue (ft) | 124 | 130 | 94 | 11 | 41 | 201 | 179 | 12 | 81 | 41 | 59 | 81 | |
| Average Queue (ft) | 72 | 72 | 45 | 4 | 17 | 127 | 87 | 2 | 41 | 12 | 39 | 49 | |
| 95th Queue (ft) | 124 | 144 | 100 | 13 | 47 | 212 | 179 | 16 | 79 | 40 | 62 | 87 | |
| Link Distance (ft) | | | | | | | | | | | 363 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 325 | | | 315 | | 510 | | 225 | | 160 | | 315 | |
| Storage Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #2

| Movement | NW | NW |
|-----------------------|----|-----|
| Directions Served | T | R |
| Maximum Queue (ft) | 32 | 113 |
| Average Queue (ft) | 16 | 73 |
| 95th Queue (ft) | 38 | 122 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #3

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | SE | SE | SE | NW | |
|-----------------------|-----|-----|----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L | |
| Maximum Queue (ft) | 122 | 128 | 86 | 15 | 35 | 172 | 134 | 11 | 67 | 32 | 60 | 74 | |
| Average Queue (ft) | 78 | 60 | 33 | 4 | 13 | 115 | 75 | 2 | 36 | 12 | 31 | 38 | |
| 95th Queue (ft) | 125 | 126 | 73 | 14 | 32 | 184 | 141 | 15 | 81 | 36 | 56 | 73 | |
| Link Distance (ft) | | | | | | | | | | | 363 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 325 | | | 315 | | 510 | | 225 | | 160 | | 160 | 315 |
| Storage Blk Time (%) | 0 | | | | | | | | | | | | |
| Queuing Penalty (veh) | 0 | | | | | | | | | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #3

| Movement | NW | NW |
|-----------------------|----|-----|
| Directions Served | T | R |
| Maximum Queue (ft) | 36 | 112 |
| Average Queue (ft) | 13 | 66 |
| 95th Queue (ft) | 39 | 117 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #4

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | SE | SE | SE | NW | |
|-----------------------|-----|-----|----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L | |
| Maximum Queue (ft) | 110 | 102 | 70 | 11 | 52 | 194 | 158 | 4 | 72 | 31 | 54 | 86 | |
| Average Queue (ft) | 69 | 63 | 37 | 5 | 19 | 110 | 70 | 1 | 35 | 11 | 36 | 43 | |
| 95th Queue (ft) | 116 | 109 | 76 | 12 | 50 | 199 | 151 | 5 | 77 | 34 | 62 | 82 | |
| Link Distance (ft) | | | | | | | | | | | 363 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 325 | | | 315 | | 510 | | 225 | | 160 | | 160 | 315 |
| Storage Blk Time (%) | 0 | | | | | | | | | | | | |
| Queuing Penalty (veh) | 0 | | | | | | | | | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #4

| Movement | NW | NW |
|-----------------------|----|-----|
| Directions Served | T | R |
| Maximum Queue (ft) | 32 | 106 |
| Average Queue (ft) | 13 | 62 |
| 95th Queue (ft) | 38 | 109 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, All Intervals

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | SE | SE | SE | NW | |
|-----------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|--|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L | |
| Maximum Queue (ft) | 140 | 152 | 103 | 22 | 63 | 225 | 188 | 22 | 107 | 49 | 70 | 102 | |
| Average Queue (ft) | 72 | 64 | 39 | 5 | 17 | 116 | 78 | 1 | 39 | 12 | 35 | 42 | |
| 95th Queue (ft) | 122 | 126 | 85 | 15 | 47 | 198 | 158 | 11 | 79 | 38 | 62 | 80 | |
| Link Distance (ft) | | | | | | | | | | | 363 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 325 | | | 315 | | 510 | | 225 | | 160 | | 315 | |
| Storage Blk Time (%) | 0 | | | | | | | | | | | | |
| Queuing Penalty (veh) | 0 | | | | | | | | | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, All Intervals

| Movement | NW | NW |
|-----------------------|----|-----|
| Directions Served | T | R |
| Maximum Queue (ft) | 40 | 142 |
| Average Queue (ft) | 13 | 68 |
| 95th Queue (ft) | 37 | 116 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #1

| Movement | NW | NE | SW |
|-----------------------|----|-----|-----|
| Directions Served | L | LTR | LTR |
| Maximum Queue (ft) | 19 | 26 | 78 |
| Average Queue (ft) | 2 | 7 | 40 |
| 95th Queue (ft) | 15 | 29 | 79 |
| Link Distance (ft) | | 430 | 647 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 85 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #2

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 15 | 14 | 31 | 68 |
| Average Queue (ft) | 2 | 2 | 10 | 37 |
| 95th Queue (ft) | 15 | 14 | 33 | 65 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 85 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #3

| Movement | NW | NE | SW |
|-----------------------|----|-----|-----|
| Directions Served | L | LTR | LTR |
| Maximum Queue (ft) | 15 | 21 | 54 |
| Average Queue (ft) | 2 | 6 | 32 |
| 95th Queue (ft) | 15 | 26 | 55 |
| Link Distance (ft) | | 430 | 647 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 85 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #4

| Movement | NW | NE | SW |
|-----------------------|----|-----|-----|
| Directions Served | L | LTR | LTR |
| Maximum Queue (ft) | 14 | 21 | 54 |
| Average Queue (ft) | 2 | 6 | 38 |
| 95th Queue (ft) | 14 | 25 | 64 |
| Link Distance (ft) | | 430 | 647 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 85 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 2: Landover Ln & Sneffels St, All Intervals

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 15 | 29 | 31 | 90 |
| Average Queue (ft) | 1 | 2 | 7 | 37 |
| 95th Queue (ft) | 7 | 14 | 28 | 67 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 85 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #1

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | SE | SE | SE | NW | |
|-----------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L | |
| Maximum Queue (ft) | 173 | 207 | 184 | 67 | 86 | 138 | 100 | 14 | 109 | 57 | 45 | 113 | |
| Average Queue (ft) | 118 | 138 | 112 | 32 | 47 | 78 | 36 | 2 | 77 | 21 | 28 | 65 | |
| 95th Queue (ft) | 187 | 216 | 188 | 68 | 93 | 142 | 94 | 12 | 122 | 57 | 52 | 121 | |
| Link Distance (ft) | | | | | | | | | | | 363 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 325 | | | 315 | | 510 | | 225 | | 160 | | 160 | 315 |
| Storage Blk Time (%) | | | | | | | | | | | 1 | | |
| Queuing Penalty (veh) | | | | | | | | | | | 1 | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #1

| Movement | NW | NW |
|-----------------------|----|----|
| Directions Served | T | R |
| Maximum Queue (ft) | 45 | 82 |
| Average Queue (ft) | 24 | 45 |
| 95th Queue (ft) | 55 | 85 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #2

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | SE | SE | SE | NW | | |
|-----------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L | | |
| Maximum Queue (ft) | 188 | 216 | 204 | 55 | 85 | 164 | 123 | 16 | 138 | 50 | 46 | 108 | | |
| Average Queue (ft) | 126 | 133 | 112 | 33 | 43 | 99 | 58 | 3 | 93 | 26 | 25 | 61 | | |
| 95th Queue (ft) | 197 | 214 | 194 | 61 | 83 | 166 | 128 | 16 | 157 | 60 | 50 | 113 | | |
| Link Distance (ft) | | | | | | | | | | | 363 | | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 325 | | | 315 | | 510 | | 225 | | 160 | | 315 | | |
| Storage Blk Time (%) | | | | | | | 0 | | 2 | | | | | |
| Queuing Penalty (veh) | | | | | | | 0 | | 2 | | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #2

| Movement | NW | NW |
|-----------------------|----|----|
| Directions Served | T | R |
| Maximum Queue (ft) | 60 | 82 |
| Average Queue (ft) | 30 | 52 |
| 95th Queue (ft) | 66 | 90 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #3

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | SE | SE | SE | NW | |
|-----------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|---------|--|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L | |
| Maximum Queue (ft) | 201 | 200 | 164 | 45 | 80 | 130 | 117 | 14 | 129 | 42 | 42 | 102 | |
| Average Queue (ft) | 131 | 130 | 104 | 26 | 40 | 78 | 50 | 2 | 88 | 23 | 23 | 59 | |
| 95th Queue (ft) | 221 | 210 | 175 | 50 | 83 | 133 | 119 | 13 | 138 | 48 | 49 | 111 | |
| Link Distance (ft) | | | | | | | | | | | 363 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 325 | | | 315 | | 510 | | 225 | | 160 | | 160 315 | |
| Storage Blk Time (%) | | | | | | | | | | | 0 | | |
| Queuing Penalty (veh) | | | | | | | | | | | 0 | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #3

| Movement | NW | NW |
|-----------------------|----|----|
| Directions Served | T | R |
| Maximum Queue (ft) | 42 | 68 |
| Average Queue (ft) | 21 | 42 |
| 95th Queue (ft) | 51 | 75 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #4

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | SE | SE | SE | NW | |
|-----------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|--|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L | |
| Maximum Queue (ft) | 160 | 189 | 160 | 47 | 86 | 128 | 105 | 17 | 113 | 45 | 39 | 104 | |
| Average Queue (ft) | 96 | 132 | 100 | 26 | 46 | 77 | 47 | 3 | 71 | 22 | 21 | 57 | |
| 95th Queue (ft) | 168 | 198 | 172 | 50 | 97 | 133 | 107 | 16 | 114 | 50 | 47 | 111 | |
| Link Distance (ft) | | | | | | | | | | | 363 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 325 | | | 315 | | 510 | | 225 | | 160 | | 315 | |
| Storage Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #4

| Movement | NW | NW |
|-----------------------|----|----|
| Directions Served | T | R |
| Maximum Queue (ft) | 71 | 96 |
| Average Queue (ft) | 27 | 49 |
| 95th Queue (ft) | 70 | 93 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, All Intervals

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | SE | SE | SE | NW | | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Directions Served | L | T | T | R | L | T | T | R | L | T | R | L | | |
| Maximum Queue (ft) | 225 | 236 | 219 | 73 | 107 | 172 | 151 | 26 | 153 | 68 | 50 | 136 | | |
| Average Queue (ft) | 118 | 133 | 107 | 29 | 44 | 83 | 48 | 3 | 82 | 23 | 24 | 60 | | |
| 95th Queue (ft) | 197 | 210 | 183 | 58 | 89 | 146 | 114 | 14 | 135 | 54 | 50 | 114 | | |
| Link Distance (ft) | | | | | | | | | | | 363 | | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 325 | | | 315 | | 510 | | 225 | | 160 | | 315 | | |
| Storage Blk Time (%) | | | | | | | 0 | | 1 | | | | | |
| Queuing Penalty (veh) | | | | | | | 0 | | 1 | | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, All Intervals

| Movement | NW | NW |
|-----------------------|----|-----|
| Directions Served | T | R |
| Maximum Queue (ft) | 82 | 107 |
| Average Queue (ft) | 25 | 47 |
| 95th Queue (ft) | 61 | 87 |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #1

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 5 | 10 | 16 | 47 |
| Average Queue (ft) | 1 | 1 | 4 | 26 |
| 95th Queue (ft) | 8 | 12 | 21 | 50 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 85 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #2

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 5 | 24 | 34 | 51 |
| Average Queue (ft) | 1 | 3 | 9 | 29 |
| 95th Queue (ft) | 8 | 19 | 31 | 54 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 85 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #3

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 5 | 20 | 26 | 52 |
| Average Queue (ft) | 1 | 3 | 7 | 27 |
| 95th Queue (ft) | 8 | 17 | 29 | 52 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 85 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #4

| Movement | NE | SW |
|-----------------------|-----|-----|
| Directions Served | LTR | LTR |
| Maximum Queue (ft) | 30 | 46 |
| Average Queue (ft) | 7 | 29 |
| 95th Queue (ft) | 30 | 49 |
| Link Distance (ft) | 430 | 647 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 2: Landover Ln & Sneffels St, All Intervals

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 10 | 30 | 38 | 63 |
| Average Queue (ft) | 1 | 2 | 7 | 28 |
| 95th Queue (ft) | 7 | 14 | 28 | 52 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 85 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #1

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | WB | SE | SE | SE | |
|-----------------------|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | L | T | T | R | L | T | R | |
| Maximum Queue (ft) | 286 | 540 | 510 | 40 | 52 | 679 | 690 | 706 | 505 | 114 | 49 | 50 | |
| Average Queue (ft) | 192 | 403 | 370 | 17 | 13 | 305 | 682 | 684 | 86 | 39 | 19 | 15 | |
| 95th Queue (ft) | 333 | 554 | 527 | 42 | 46 | 840 | 690 | 702 | 432 | 113 | 56 | 50 | |
| Link Distance (ft) | | | | | | | | | | | | 357 | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 578 | | | | 315 | 510 | 510 | | | | 378 | 200 | 160 |
| Storage Blk Time (%) | | | 1 | 21 | | | | 77 | 77 | | | | |
| Queuing Penalty (veh) | | | 1 | 15 | | | | 76 | 42 | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #1

| Movement | NW | NW | NW |
|-----------------------|-----|----|-----|
| Directions Served | L | T | R |
| Maximum Queue (ft) | 148 | 49 | 135 |
| Average Queue (ft) | 69 | 13 | 68 |
| 95th Queue (ft) | 164 | 45 | 151 |
| Link Distance (ft) | | | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 315 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #2

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | WB | SE | SE | SE | |
|-----------------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | L | T | T | R | L | T | R | |
| Maximum Queue (ft) | 287 | 565 | 535 | 112 | 34 | 679 | 692 | 687 | 600 | 107 | 58 | 52 | |
| Average Queue (ft) | 205 | 375 | 324 | 34 | 11 | 195 | 681 | 681 | 143 | 52 | 21 | 19 | |
| 95th Queue (ft) | 355 | 627 | 587 | 162 | 48 | 672 | 694 | 687 | 564 | 112 | 58 | 51 | |
| Link Distance (ft) | | | | | | | | | | | 357 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 578 | | | 315 | | 510 | | 510 | | 378 | | 200 | 160 |
| Storage Blk Time (%) | | | 1 | 21 | | | | 78 | 76 | | | | |
| Queuing Penalty (veh) | | | 2 | 17 | | | | 81 | 45 | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #2

| Movement | NW | NW | NW |
|-----------------------|-----|----|-----|
| Directions Served | L | T | R |
| Maximum Queue (ft) | 152 | 36 | 255 |
| Average Queue (ft) | 74 | 12 | 106 |
| 95th Queue (ft) | 151 | 36 | 234 |
| Link Distance (ft) | | | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 315 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #3

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | WB | SE | SE | SE | |
|-----------------------|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| Directions Served | L | T | T | R | L | L | T | T | R | L | T | R | |
| Maximum Queue (ft) | 273 | 522 | 489 | 48 | 60 | 577 | 688 | 689 | 600 | 79 | 39 | 42 | |
| Average Queue (ft) | 197 | 401 | 373 | 21 | 11 | 217 | 682 | 682 | 185 | 30 | 15 | 13 | |
| 95th Queue (ft) | 309 | 547 | 517 | 48 | 58 | 702 | 689 | 692 | 643 | 86 | 41 | 46 | |
| Link Distance (ft) | | | | | | | | | | | | 357 | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 578 | | | | 315 | 510 | 510 | | | | 378 | 200 | 160 |
| Storage Blk Time (%) | | | 0 | 25 | | | | 80 | 79 | | | | |
| Queuing Penalty (veh) | | | 0 | 18 | | | | 78 | 44 | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #3

| Movement | NW | NW | NW |
|-----------------------|-----|----|-----|
| Directions Served | L | T | R |
| Maximum Queue (ft) | 162 | 24 | 186 |
| Average Queue (ft) | 84 | 6 | 83 |
| 95th Queue (ft) | 173 | 25 | 196 |
| Link Distance (ft) | | | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 315 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #4

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | WB | SE | SE | SE | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | L | T | T | R | L | T | R | |
| Maximum Queue (ft) | 245 | 569 | 512 | 123 | 53 | 677 | 698 | 688 | 600 | 113 | 51 | 40 | |
| Average Queue (ft) | 133 | 363 | 306 | 34 | 15 | 294 | 684 | 682 | 200 | 49 | 17 | 17 | |
| 95th Queue (ft) | 244 | 618 | 557 | 163 | 55 | 818 | 697 | 690 | 666 | 108 | 54 | 46 | |
| Link Distance (ft) | | | | | | | | | | | | 357 | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 578 | | | | 315 | 510 | 510 | | | | 378 | 200 | 160 |
| Storage Blk Time (%) | | | 1 | 20 | | | | 75 | 74 | | | | 0 |
| Queuing Penalty (veh) | | | 2 | 14 | | | | 74 | 41 | | | | 0 |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #4

| Movement | NW | NW | NW |
|-----------------------|-----|----|-----|
| Directions Served | L | T | R |
| Maximum Queue (ft) | 153 | 19 | 159 |
| Average Queue (ft) | 59 | 5 | 87 |
| 95th Queue (ft) | 136 | 26 | 161 |
| Link Distance (ft) | | | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 315 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, All Intervals

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | WB | SE | SE | SE | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | L | T | T | R | L | T | R | |
| Maximum Queue (ft) | 330 | 605 | 582 | 214 | 79 | 679 | 699 | 712 | 600 | 142 | 68 | 67 | |
| Average Queue (ft) | 182 | 385 | 343 | 27 | 12 | 253 | 682 | 682 | 154 | 43 | 18 | 16 | |
| 95th Queue (ft) | 320 | 595 | 560 | 120 | 52 | 764 | 693 | 694 | 585 | 107 | 53 | 49 | |
| Link Distance (ft) | | | | | | | | | | | | 357 | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 578 | | | | 315 | 510 | 510 | | | | 378 | 200 | 160 |
| Storage Blk Time (%) | | | 1 | 22 | | | | 78 | 77 | | | | 0 |
| Queuing Penalty (veh) | | | 1 | 16 | | | | 77 | 43 | | | | 0 |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, All Intervals

| Movement | NW | NW | NW |
|-----------------------|-----|----|-----|
| Directions Served | L | T | R |
| Maximum Queue (ft) | 199 | 53 | 264 |
| Average Queue (ft) | 72 | 9 | 86 |
| 95th Queue (ft) | 158 | 34 | 190 |
| Link Distance (ft) | | | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 315 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #1

| Movement | NE | SW |
|-----------------------|-----|-----|
| Directions Served | LTR | LTR |
| Maximum Queue (ft) | 21 | 63 |
| Average Queue (ft) | 4 | 36 |
| 95th Queue (ft) | 22 | 66 |
| Link Distance (ft) | 430 | 647 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #2

| Movement | NW | NE | SW |
|-----------------------|----|-----|-----|
| Directions Served | L | LTR | LTR |
| Maximum Queue (ft) | 15 | 31 | 66 |
| Average Queue (ft) | 2 | 12 | 42 |
| 95th Queue (ft) | 15 | 37 | 72 |
| Link Distance (ft) | | 430 | 647 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 50 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #3

| Movement | NW | NE | SW |
|-----------------------|----|-----|-----|
| Directions Served | L | LTR | LTR |
| Maximum Queue (ft) | 9 | 31 | 54 |
| Average Queue (ft) | 1 | 9 | 30 |
| 95th Queue (ft) | 11 | 32 | 46 |
| Link Distance (ft) | | 430 | 647 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 50 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #4

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 5 | 10 | 30 | 73 |
| Average Queue (ft) | 1 | 1 | 12 | 40 |
| 95th Queue (ft) | 8 | 12 | 37 | 74 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 50 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 2: Landover Ln & Sneffels St, All Intervals

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 5 | 20 | 31 | 81 |
| Average Queue (ft) | 0 | 1 | 9 | 37 |
| 95th Queue (ft) | 4 | 11 | 33 | 66 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 50 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #1

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | WB | SE | SE | SE | |
|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | L | T | T | R | L | T | R | |
| Maximum Queue (ft) | 800 | 977 | 980 | 525 | 153 | 186 | 239 | 210 | 15 | 145 | 65 | 30 | |
| Average Queue (ft) | 697 | 953 | 955 | 480 | 103 | 138 | 163 | 142 | 3 | 86 | 34 | 6 | |
| 95th Queue (ft) | 1108 | 998 | 994 | 704 | 174 | 206 | 250 | 215 | 16 | 148 | 74 | 29 | |
| Link Distance (ft) | | | | | | | | | | | 357 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 578 | | | | 315 | 510 | 510 | | | | 378 | 200 | 160 |
| Storage Blk Time (%) | 0 | 41 | 46 | | | | | | | | | | |
| Queuing Penalty (veh) | 0 | 105 | 157 | | | | | | | | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #1

| Movement | NW | NW | NW |
|-----------------------|-----|----|-----|
| Directions Served | L | T | R |
| Maximum Queue (ft) | 184 | 76 | 167 |
| Average Queue (ft) | 122 | 37 | 119 |
| 95th Queue (ft) | 214 | 82 | 218 |
| Link Distance (ft) | | | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 315 | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #2

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | WB | SE | SE | SE | | |
|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|
| Directions Served | L | T | T | R | L | L | T | T | R | L | T | R | | |
| Maximum Queue (ft) | 800 | 975 | 979 | 525 | 150 | 183 | 272 | 256 | 17 | 171 | 88 | 20 | | |
| Average Queue (ft) | 681 | 957 | 960 | 444 | 100 | 130 | 184 | 162 | 3 | 103 | 52 | 3 | | |
| 95th Queue (ft) | 1117 | 973 | 981 | 722 | 158 | 190 | 282 | 258 | 17 | 182 | 104 | 19 | | |
| Link Distance (ft) | | | | | | | | | | | 357 | | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 578 | | | 315 | | | 510 | | | 378 | | | 200 | 160 |
| Storage Blk Time (%) | 37 | | 40 | | | | | | | | | | 1 | |
| Queuing Penalty (veh) | 102 | | 146 | | | | | | | | | | 2 | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #2

| Movement | NW | NW | NW |
|-----------------------|-----|----|-----|
| Directions Served | L | T | R |
| Maximum Queue (ft) | 290 | 66 | 261 |
| Average Queue (ft) | 207 | 33 | 162 |
| 95th Queue (ft) | 326 | 74 | 291 |
| Link Distance (ft) | | | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 315 | | |
| Storage Blk Time (%) | 4 | | |
| Queuing Penalty (veh) | 2 | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #3

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | WB | SE | SE | SE | |
|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | L | T | T | R | L | T | R | |
| Maximum Queue (ft) | 800 | 965 | 970 | 525 | 145 | 182 | 258 | 232 | 13 | 150 | 78 | 25 | |
| Average Queue (ft) | 731 | 949 | 959 | 493 | 95 | 133 | 171 | 145 | 2 | 92 | 41 | 5 | |
| 95th Queue (ft) | 1074 | 997 | 976 | 678 | 156 | 186 | 270 | 243 | 13 | 170 | 84 | 23 | |
| Link Distance (ft) | | | | | | | | | | | 357 | | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 578 | | | 315 | | 510 | | 510 | | 378 | | 200 | 160 |
| Storage Blk Time (%) | | | 42 | 46 | | | | | | | | | 0 |
| Queuing Penalty (veh) | | | 106 | 158 | | | | | | | | | 1 |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #3

| Movement | NW | NW | NW |
|-----------------------|-----|-----|-----|
| Directions Served | L | T | R |
| Maximum Queue (ft) | 232 | 94 | 215 |
| Average Queue (ft) | 142 | 32 | 127 |
| 95th Queue (ft) | 272 | 110 | 235 |
| Link Distance (ft) | | | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 315 | | |
| Storage Blk Time (%) | 2 | 0 | |
| Queuing Penalty (veh) | 1 | 0 | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #4

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | WB | SE | SE | SE |
|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | L | T | T | R | L | T | R |
| Maximum Queue (ft) | 800 | 970 | 964 | 525 | 136 | 190 | 258 | 253 | 12 | 162 | 112 | 32 |
| Average Queue (ft) | 714 | 957 | 956 | 457 | 84 | 122 | 172 | 151 | 2 | 108 | 46 | 6 |
| 95th Queue (ft) | 1093 | 970 | 967 | 732 | 151 | 196 | 277 | 268 | 13 | 181 | 114 | 33 |
| Link Distance (ft) | | | | | | | | | | | | 357 |
| Upstream Blk Time (%) | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 578 | | | 315 | 510 | 510 | | | 378 | 200 | | 160 |
| Storage Blk Time (%) | | 39 | 41 | | | | | | | 1 | | |
| Queuing Penalty (veh) | | 99 | 140 | | | | | | | 1 | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, Interval #4

| Movement | NW | NW | NW |
|-----------------------|-----|----|-----|
| Directions Served | L | T | R |
| Maximum Queue (ft) | 228 | 64 | 213 |
| Average Queue (ft) | 113 | 26 | 134 |
| 95th Queue (ft) | 226 | 63 | 241 |
| Link Distance (ft) | | | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 315 | | |
| Storage Blk Time (%) | 0 | | |
| Queuing Penalty (veh) | 0 | | |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, All Intervals

| Movement | EB | EB | EB | EB | WB | WB | WB | WB | WB | SE | SE | SE | |
|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Directions Served | L | T | T | R | L | L | T | T | R | L | T | R | |
| Maximum Queue (ft) | 800 | 987 | 991 | 525 | 176 | 228 | 296 | 280 | 28 | 187 | 127 | 46 | |
| Average Queue (ft) | 706 | 954 | 958 | 469 | 95 | 131 | 172 | 150 | 3 | 97 | 43 | 5 | |
| 95th Queue (ft) | 1101 | 989 | 982 | 714 | 161 | 196 | 271 | 248 | 15 | 172 | 96 | 26 | |
| Link Distance (ft) | | | | | | | | | | | | 357 | |
| Upstream Blk Time (%) | | | | | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | | | | | |
| Storage Bay Dist (ft) | 578 | | | | 315 | 510 | 510 | | | | 378 | 200 | 160 |
| Storage Blk Time (%) | 0 | 40 | 43 | | | | | | | | | | 1 |
| Queuing Penalty (veh) | 0 | 103 | 150 | | | | | | | | | | 1 |

Intersection: 1: Sneffels St & Mesa Ridge Pkwy, All Intervals

| Movement | NW | NW | NW |
|-----------------------|-----|-----|-----|
| Directions Served | L | T | R |
| Maximum Queue (ft) | 300 | 120 | 284 |
| Average Queue (ft) | 146 | 32 | 136 |
| 95th Queue (ft) | 276 | 85 | 250 |
| Link Distance (ft) | | | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | 315 | | |
| Storage Blk Time (%) | 2 | 0 | |
| Queuing Penalty (veh) | 1 | 0 | |

Intersection: 2: Landover Ln & Sneffels St, Interval #1

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 15 | 20 | 31 | 57 |
| Average Queue (ft) | 4 | 3 | 6 | 31 |
| 95th Queue (ft) | 20 | 19 | 26 | 58 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 50 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #2

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 15 | 10 | 31 | 53 |
| Average Queue (ft) | 2 | 1 | 14 | 32 |
| 95th Queue (ft) | 15 | 12 | 39 | 55 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 50 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #3

| Movement | SE | NW | NE | SW |
|-----------------------|----|----|-----|-----|
| Directions Served | L | L | LTR | LTR |
| Maximum Queue (ft) | 15 | 15 | 29 | 51 |
| Average Queue (ft) | 3 | 2 | 9 | 32 |
| 95th Queue (ft) | 17 | 15 | 33 | 56 |
| Link Distance (ft) | | | 430 | 647 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 50 | 50 | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 2: Landover Ln & Sneffels St, Interval #4

| Movement | SE | NW | NW | NE | SW |
|-----------------------|----|----|-----|-----|-----|
| Directions Served | L | L | R | LTR | LTR |
| Maximum Queue (ft) | 10 | 19 | 3 | 31 | 49 |
| Average Queue (ft) | 1 | 3 | 0 | 14 | 27 |
| 95th Queue (ft) | 12 | 17 | 5 | 39 | 51 |
| Link Distance (ft) | | | | 430 | 647 |
| Upstream Blk Time (%) | | | | | |
| Queuing Penalty (veh) | | | | | |
| Storage Bay Dist (ft) | 50 | 50 | 190 | | |
| Storage Blk Time (%) | | | | | |
| Queuing Penalty (veh) | | | | | |

Intersection: 2: Landover Ln & Sneffels St, All Intervals

| Movement | SE | NW | NW | NE | SW |
|-----------------------|----|----|-----|-----|-----|
| Directions Served | L | L | R | LTR | LTR |
| Maximum Queue (ft) | 20 | 29 | 3 | 35 | 70 |
| Average Queue (ft) | 3 | 2 | 0 | 11 | 31 |
| 95th Queue (ft) | 16 | 16 | 2 | 35 | 55 |
| Link Distance (ft) | | | | 430 | 647 |
| Upstream Blk Time (%) | | | | | |
| Queuing Penalty (veh) | | | | | |
| Storage Bay Dist (ft) | 50 | 50 | 190 | | |
| Storage Blk Time (%) | 0 | | | | |
| Queuing Penalty (veh) | 0 | | | | |

Levels of Service



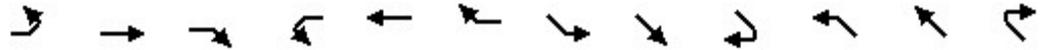
Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

Existing
PM

| |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|---|
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR | |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph) | 47 | 1153 | 220 | 89 | 679 | 56 | 32 | 13 | 96 | 97 | 16 | 22 | |
| Future Volume (vph) | 47 | 1153 | 220 | 89 | 679 | 56 | 32 | 13 | 96 | 97 | 16 | 22 | |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | |
| Storage Length (ft) | 325 | | 315 | 510 | | 225 | 160 | | 160 | 315 | | 0 | |
| Storage Lanes | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | |
| Taper Length (ft) | 160 | | | 170 | | | 75 | | | 120 | | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 | |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 1770 | 1863 | 1583 | 1770 | 1863 | 1583 | |
| Flt Permitted | 0.950 | | | 0.950 | | | 0.745 | | | 0.747 | | | |
| Satd. Flow (perm) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 1388 | 1863 | 1583 | 1391 | 1863 | 1583 | |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes | |
| Satd. Flow (RTOR) | | | 232 | | | 118 | | | 155 | | | 155 | |
| Link Speed (mph) | | 55 | | | 55 | | | 25 | | | 25 | | |
| Link Distance (ft) | | 1962 | | | 1437 | | | 447 | | | 886 | | |
| Travel Time (s) | | 24.3 | | | 17.8 | | | 12.2 | | | 24.2 | | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.93 | 0.93 | 0.93 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | |
| Adj. Flow (vph) | 49 | 1214 | 232 | 96 | 730 | 60 | 39 | 16 | 116 | 117 | 19 | 27 | |
| Shared Lane Traffic (%) | | | | | | | | | | | | | |
| Lane Group Flow (vph) | 49 | 1214 | 232 | 96 | 730 | 60 | 39 | 16 | 116 | 117 | 19 | 27 | |
| Enter Blocked Intersection | No | No | No | No | No | No | |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right | |
| Median Width(ft) | | 12 | | | 12 | | | 12 | | | 12 | | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | | |
| Two way Left Turn Lane | | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 | |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | |
| Detector 1 Channel | | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | 94 | | |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | 6 | | |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | |
| Detector 2 Channel | | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm | |
| Protected Phases | 7 | 4 | | 3 | 8 | | | 6 | | | 2 | | |
| Permitted Phases | | | 4 | | | 8 | 6 | | 6 | 2 | | 2 | |

Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

Existing
PM



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Detector Phase | 7 | 4 | 4 | 3 | 8 | 8 | 6 | 6 | 6 | 2 | 2 | 2 |
| Switch Phase | | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 25.0 | 25.0 | 9.5 | 25.0 | 25.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
| Total Split (s) | 10.0 | 36.0 | 36.0 | 10.0 | 36.0 | 36.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| Total Split (%) | 16.7% | 60.0% | 60.0% | 16.7% | 60.0% | 60.0% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% |
| Maximum Green (s) | 5.5 | 29.0 | 29.0 | 5.5 | 29.0 | 29.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| Yellow Time (s) | 3.5 | 5.0 | 5.0 | 3.5 | 5.0 | 5.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.5 | 7.0 | 7.0 | 4.5 | 7.0 | 7.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Recall Mode | None | None | None | None | None | None | C-Max | C-Max | C-Max | C-Max | C-Max | C-Max |
| Act Effct Green (s) | 5.5 | 27.0 | 27.0 | 5.5 | 29.0 | 29.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| Actuated g/C Ratio | 0.09 | 0.45 | 0.45 | 0.09 | 0.48 | 0.48 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| v/c Ratio | 0.30 | 0.76 | 0.28 | 0.59 | 0.43 | 0.07 | 0.13 | 0.04 | 0.25 | 0.39 | 0.05 | 0.06 |
| Control Delay | 30.7 | 17.2 | 2.4 | 43.7 | 11.0 | 0.7 | 23.6 | 22.3 | 4.1 | 28.6 | 22.4 | 0.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 30.7 | 17.2 | 2.4 | 43.7 | 11.0 | 0.7 | 23.6 | 22.3 | 4.1 | 28.6 | 22.4 | 0.2 |
| LOS | C | B | A | D | B | A | C | C | A | C | C | A |
| Approach Delay | | 15.4 | | | 13.8 | | | 10.3 | | | 23.2 | |
| Approach LOS | | B | | | B | | | B | | | C | |
| Queue Length 50th (ft) | 17 | 168 | 0 | 34 | 84 | 0 | 13 | 5 | 0 | 40 | 6 | 0 |
| Queue Length 95th (ft) | 45 | 235 | 29 | #92 | 121 | 4 | 33 | 18 | 18 | #80 | 20 | 0 |
| Internal Link Dist (ft) | | 1882 | | | 1357 | | | 367 | | | 806 | |
| Turn Bay Length (ft) | 325 | | 315 | 510 | | 225 | 160 | | 160 | 315 | | |
| Base Capacity (vph) | 162 | 1710 | 884 | 162 | 1795 | 861 | 300 | 403 | 464 | 301 | 403 | 464 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.30 | 0.71 | 0.26 | 0.59 | 0.41 | 0.07 | 0.13 | 0.04 | 0.25 | 0.39 | 0.05 | 0.06 |

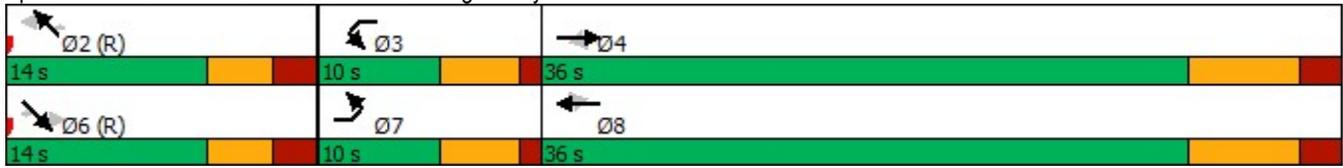
Intersection Summary

Area Type: Other
 Cycle Length: 60
 Actuated Cycle Length: 60
 Offset: 0 (0%), Referenced to phase 2:NWTL and 6:SETL, Start of Green
 Natural Cycle: 65
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.76
 Intersection Signal Delay: 15.0 Intersection LOS: B
 Intersection Capacity Utilization 62.6% ICU Level of Service B
 Analysis Period (min) 15
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

Lanes, Volumes, Timings
 1: Sneffels St & Mesa Ridge Pkwy

Existing
 PM

Splits and Phases: 1: Sneffels St & Mesa Ridge Pkwy



HCM 6th TWSC
2: Landover Ln & Sneffels St

Existing
AM

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.5 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↔ | ↔ | | ↔ | ↑ | ↔ | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 0 | 186 | 1 | 5 | 70 | 30 | 3 | 0 | 1 | 33 | 0 | 0 |
| Future Vol, veh/h | 0 | 186 | 1 | 5 | 70 | 30 | 3 | 0 | 1 | 33 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | Stop |
| Storage Length | 50 | - | - | 85 | - | 190 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 83 | 83 | 83 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 214 | 1 | 6 | 84 | 36 | 4 | 0 | 1 | 42 | 0 | 0 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 120 | 0 | 0 | 215 | 0 | 0 | 329 | 347 | 215 | 311 | 311 | 84 |
| Stage 1 | - | - | - | - | - | - | 215 | 215 | - | 96 | 96 | - |
| Stage 2 | - | - | - | - | - | - | 114 | 132 | - | 215 | 215 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1468 | - | - | 1355 | - | - | 624 | 576 | 825 | 642 | 604 | 975 |
| Stage 1 | - | - | - | - | - | - | 787 | 725 | - | 911 | 815 | - |
| Stage 2 | - | - | - | - | - | - | 891 | 787 | - | 787 | 725 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1468 | - | - | 1355 | - | - | 622 | 574 | 825 | 639 | 602 | 975 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 622 | 574 | - | 639 | 602 | - |
| Stage 1 | - | - | - | - | - | - | 787 | 725 | - | 911 | 812 | - |
| Stage 2 | - | - | - | - | - | - | 887 | 784 | - | 786 | 725 | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|-----|------|----|
| HCM Control Delay, s | 0 | 0.4 | 10.5 | 11 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|------|-----|----------|
| Capacity (veh/h) | 663 | 1355 | - | - | 1468 | - | 639 |
| HCM Lane V/C Ratio | 0.008 | 0.004 | - | - | - | - | 0.066 |
| HCM Control Delay (s) | 10.5 | 7.7 | - | - | 0 | - | 11 |
| HCM Lane LOS | B | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | 0.2 |

HCM 6th TWSC
 3: Pinfeather Dr/Pitcher Pt & Sneffels St

Existing
 AM

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 153 | 1 | 9 | 46 | 18 | 7 | 0 | 0 | 34 | 0 | 2 |
| Future Vol, veh/h | 0 | 153 | 1 | 9 | 46 | 18 | 7 | 0 | 0 | 34 | 0 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | 50 | - | - | 50 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 83 | 83 | 83 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 176 | 1 | 11 | 55 | 22 | 9 | 0 | 0 | 44 | 0 | 3 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 77 | 0 | 0 | 177 | 0 | 0 | 267 | 276 | 177 | 254 | 254 | 55 |
| Stage 1 | - | - | - | - | - | - | 177 | 177 | - | 77 | 77 | - |
| Stage 2 | - | - | - | - | - | - | 90 | 99 | - | 177 | 177 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1522 | - | - | 1399 | - | - | 686 | 632 | 866 | 699 | 650 | 1012 |
| Stage 1 | - | - | - | - | - | - | 825 | 753 | - | 932 | 831 | - |
| Stage 2 | - | - | - | - | - | - | 917 | 813 | - | 825 | 753 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1522 | - | - | 1399 | - | - | 680 | 627 | 866 | 695 | 645 | 1012 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 680 | 627 | - | 695 | 645 | - |
| Stage 1 | - | - | - | - | - | - | 825 | 753 | - | 932 | 824 | - |
| Stage 2 | - | - | - | - | - | - | 907 | 806 | - | 825 | 753 | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|-----|------|------|
| HCM Control Delay, s | 0 | 0.9 | 10.4 | 10.4 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|------|-----|----------|
| Capacity (veh/h) | 680 | 1399 | - | - | 1522 | - | 707 |
| HCM Lane V/C Ratio | 0.013 | 0.008 | - | - | - | - | 0.065 |
| HCM Control Delay (s) | 10.4 | 7.6 | - | - | 0 | - | 10.4 |
| HCM Lane LOS | B | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | 0.2 |

Lanes, Volumes, Timings
2: Landover Ln & Sneffels St

Existing
PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations |  |  | |  |  |  | |  | | |  |  |
| Traffic Volume (vph) | 1 | 110 | 3 | 8 | 55 | 56 | 0 | 0 | 5 | 26 | 0 | 2 |
| Future Volume (vph) | 1 | 110 | 3 | 8 | 55 | 56 | 0 | 0 | 5 | 26 | 0 | 2 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 50 | | 0 | 85 | | 190 | 0 | | 0 | 0 | | 0 |
| Storage Lanes | 1 | | 0 | 1 | | 1 | 0 | | 0 | 0 | | 0 |
| Taper Length (ft) | 50 | | | 65 | | | 25 | | | 25 | | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 0.996 | | | | 0.850 | | 0.865 | | | | 0.989 |
| Flt Protected | 0.950 | | | 0.950 | | | | | | | | 0.956 |
| Satd. Flow (prot) | 1770 | 1855 | 0 | 1770 | 1863 | 1583 | 0 | 1611 | 0 | 0 | 1761 | 0 |
| Flt Permitted | 0.950 | | | 0.950 | | | | | | | | 0.956 |
| Satd. Flow (perm) | 1770 | 1855 | 0 | 1770 | 1863 | 1583 | 0 | 1611 | 0 | 0 | 1761 | 0 |
| Link Speed (mph) | | 25 | | | 25 | | | 25 | | | | 25 |
| Link Distance (ft) | | 314 | | | 447 | | | 464 | | | | 693 |
| Travel Time (s) | | 8.6 | | | 12.2 | | | 12.7 | | | | 18.9 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 |
| Adj. Flow (vph) | 1 | 133 | 4 | 10 | 66 | 67 | 0 | 0 | 6 | 33 | 0 | 3 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 1 | 137 | 0 | 10 | 66 | 67 | 0 | 6 | 0 | 0 | 36 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 12 | | | 12 | | | 0 | | | | 0 |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | | 0 |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | | 16 |
| Two way Left Turn Lane | | Yes | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Sign Control | | Free | | | Free | | | Stop | | | | Stop |

Intersection Summary

| | |
|-----------------------------------|--------------|
| Area Type: | Other |
| Control Type: | Unsignalized |
| Intersection Capacity Utilization | 21.5% |
| ICU Level of Service | A |
| Analysis Period (min) | 15 |

Lanes, Volumes, Timings
3: Pinfeather Dr/Pitcher Pt & Sneffels St

Existing
PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations |  |  | |  |  |  | |  | | |  |  |
| Traffic Volume (vph) | 6 | 72 | 3 | 11 | 57 | 48 | 1 | 0 | 10 | 31 | 0 | 3 |
| Future Volume (vph) | 6 | 72 | 3 | 11 | 57 | 48 | 1 | 0 | 10 | 31 | 0 | 3 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 50 | | 0 | 50 | | 0 | 0 | | 0 | 0 | | 0 |
| Storage Lanes | 1 | | 0 | 1 | | 1 | 0 | | 0 | 0 | | 0 |
| Taper Length (ft) | 50 | | | 50 | | | 25 | | | 25 | | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 0.995 | | | | 0.850 | | 0.875 | | | | 0.988 |
| Flt Protected | 0.950 | | | 0.950 | | | | 0.996 | | | | 0.957 |
| Satd. Flow (prot) | 1770 | 1853 | 0 | 1770 | 1863 | 1583 | 0 | 1623 | 0 | 0 | 1761 | 0 |
| Flt Permitted | 0.950 | | | 0.950 | | | | 0.996 | | | | 0.957 |
| Satd. Flow (perm) | 1770 | 1853 | 0 | 1770 | 1863 | 1583 | 0 | 1623 | 0 | 0 | 1761 | 0 |
| Link Speed (mph) | | 25 | | | 25 | | | 25 | | | | 25 |
| Link Distance (ft) | | 506 | | | 314 | | | 468 | | | | 206 |
| Travel Time (s) | | 13.8 | | | 8.6 | | | 12.8 | | | | 5.6 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 |
| Adj. Flow (vph) | 7 | 83 | 3 | 13 | 66 | 55 | 1 | 0 | 13 | 40 | 0 | 4 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 7 | 86 | 0 | 13 | 66 | 55 | 0 | 14 | 0 | 0 | 44 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 12 | | | 12 | | | 0 | | | | 0 |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | | 0 |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | | 16 |
| Two way Left Turn Lane | | Yes | | | Yes | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Sign Control | | Free | | | Free | | | Stop | | | | Stop |

Intersection Summary

| | |
|-----------------------------------|--------------|
| Area Type: | Other |
| Control Type: | Unsignalized |
| Intersection Capacity Utilization | 22.5% |
| ICU Level of Service | A |
| Analysis Period (min) | 15 |

HCM 6th TWSC
2: Landover Ln & Sneffels St

Existing
PM

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.6 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 110 | 3 | 8 | 55 | 56 | 0 | 0 | 5 | 26 | 0 | 2 |
| Future Vol, veh/h | 1 | 110 | 3 | 8 | 55 | 56 | 0 | 0 | 5 | 26 | 0 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | Stop |
| Storage Length | 50 | - | - | 85 | - | 190 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 83 | 83 | 83 | 83 | 83 | 83 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 133 | 4 | 10 | 66 | 67 | 0 | 0 | 6 | 33 | 0 | 3 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 133 | 0 | 0 | 137 | 0 | 0 | 257 | 290 | 135 | 226 | 225 | 66 |
| Stage 1 | - | - | - | - | - | - | 137 | 137 | - | 86 | 86 | - |
| Stage 2 | - | - | - | - | - | - | 120 | 153 | - | 140 | 139 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1452 | - | - | 1447 | - | - | 696 | 620 | 914 | 729 | 674 | 998 |
| Stage 1 | - | - | - | - | - | - | 866 | 783 | - | 922 | 824 | - |
| Stage 2 | - | - | - | - | - | - | 884 | 771 | - | 863 | 782 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1452 | - | - | 1447 | - | - | 690 | 615 | 914 | 720 | 669 | 998 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 690 | 615 | - | 720 | 669 | - |
| Stage 1 | - | - | - | - | - | - | 865 | 782 | - | 921 | 818 | - |
| Stage 2 | - | - | - | - | - | - | 876 | 766 | - | 856 | 781 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|-----|--|--|-----|--|--|----|--|--|------|--|--|
| HCM Control Delay, s | 0.1 | | | 0.5 | | | 9 | | | 10.1 | | |
| HCM LOS | | | | | | | A | | | B | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 914 | 1447 | - | - | 1452 | - | 735 |
| HCM Lane V/C Ratio | 0.007 | 0.007 | - | - | 0.001 | - | 0.049 |
| HCM Control Delay (s) | 9 | 7.5 | - | - | 7.5 | - | 10.1 |
| HCM Lane LOS | A | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | 0.2 |

HCM 6th TWSC
 3: Pinfeather Dr/Pitcher Pt & Sneffels St

Existing
 PM

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2.5 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 6 | 72 | 3 | 11 | 57 | 48 | 1 | 0 | 10 | 31 | 0 | 3 |
| Future Vol, veh/h | 6 | 72 | 3 | 11 | 57 | 48 | 1 | 0 | 10 | 31 | 0 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | 50 | - | - | 50 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 83 | 3 | 13 | 66 | 55 | 1 | 0 | 13 | 40 | 0 | 4 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 121 | 0 | 0 | 86 | 0 | 0 | 221 | 246 | 85 | 197 | 192 | 66 |
| Stage 1 | - | - | - | - | - | - | 99 | 99 | - | 92 | 92 | - |
| Stage 2 | - | - | - | - | - | - | 122 | 147 | - | 105 | 100 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1467 | - | - | 1510 | - | - | 735 | 656 | 974 | 762 | 703 | 998 |
| Stage 1 | - | - | - | - | - | - | 907 | 813 | - | 915 | 819 | - |
| Stage 2 | - | - | - | - | - | - | 882 | 775 | - | 901 | 812 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1467 | - | - | 1510 | - | - | 725 | 647 | 974 | 744 | 693 | 998 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 725 | 647 | - | 744 | 693 | - |
| Stage 1 | - | - | - | - | - | - | 902 | 809 | - | 910 | 812 | - |
| Stage 2 | - | - | - | - | - | - | 871 | 768 | - | 885 | 808 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|-----|--|--|-----|--|--|-----|--|--|----|--|--|
| HCM Control Delay, s | 0.6 | | | 0.7 | | | 8.9 | | | 10 | | |
| HCM LOS | | | | | | | A | | | B | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 945 | 1510 | - | - | 1467 | - | 761 |
| HCM Lane V/C Ratio | 0.015 | 0.008 | - | - | 0.005 | - | 0.057 |
| HCM Control Delay (s) | 8.9 | 7.4 | - | - | 7.5 | - | 10 |
| HCM Lane LOS | A | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | 0.2 |

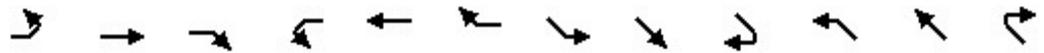
Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

Short-Term Baseline
AM

| |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|---|
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR | |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph) | 135 | 500 | 40 | 55 | 850 | 40 | 70 | 15 | 260 | 65 | 15 | 85 | |
| Future Volume (vph) | 135 | 500 | 40 | 55 | 850 | 40 | 70 | 15 | 260 | 65 | 15 | 85 | |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | |
| Storage Length (ft) | 325 | | 315 | 510 | | 225 | 160 | | 160 | 315 | | 0 | |
| Storage Lanes | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | |
| Taper Length (ft) | 160 | | | 170 | | | 75 | | | 120 | | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 | |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 1770 | 1863 | 1583 | 1770 | 1863 | 1583 | |
| Flt Permitted | 0.950 | | | 0.950 | | | 0.746 | | | 0.747 | | | |
| Satd. Flow (perm) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 1390 | 1863 | 1583 | 1391 | 1863 | 1583 | |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes | |
| Satd. Flow (RTOR) | | | 118 | | | 118 | | | 283 | | | 155 | |
| Link Speed (mph) | | 55 | | | 55 | | | 25 | | | 25 | | |
| Link Distance (ft) | | 1962 | | | 1437 | | | 447 | | | 886 | | |
| Travel Time (s) | | 24.3 | | | 17.8 | | | 12.2 | | | 24.2 | | |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | 0.92 | 0.87 | 0.87 | 0.87 | |
| Adj. Flow (vph) | 145 | 538 | 43 | 59 | 914 | 43 | 76 | 16 | 283 | 75 | 17 | 98 | |
| Shared Lane Traffic (%) | | | | | | | | | | | | | |
| Lane Group Flow (vph) | 145 | 538 | 43 | 59 | 914 | 43 | 76 | 16 | 283 | 75 | 17 | 98 | |
| Enter Blocked Intersection | No | No | No | No | No | No | |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right | |
| Median Width(ft) | | 12 | | | 12 | | | 12 | | | 12 | | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | | |
| Two way Left Turn Lane | | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 | |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | |
| Detector 1 Channel | | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | 94 | | |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | 6 | | |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | |
| Detector 2 Channel | | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm | |
| Protected Phases | 7 | 4 | | 3 | 8 | | | 6 | | | 2 | | |
| Permitted Phases | | | 4 | | | 8 | 6 | | 6 | 2 | | 2 | |

Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

Short-Term Baseline
AM

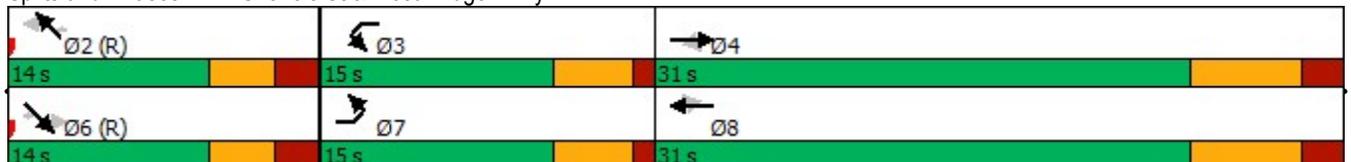


| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Detector Phase | 7 | 4 | 4 | 3 | 8 | 8 | 6 | 6 | 6 | 2 | 2 | 2 |
| Switch Phase | | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 25.0 | 25.0 | 9.5 | 25.0 | 25.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
| Total Split (s) | 15.0 | 31.0 | 31.0 | 15.0 | 31.0 | 31.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| Total Split (%) | 25.0% | 51.7% | 51.7% | 25.0% | 51.7% | 51.7% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% |
| Maximum Green (s) | 10.5 | 24.0 | 24.0 | 10.5 | 24.0 | 24.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| Yellow Time (s) | 3.5 | 5.0 | 5.0 | 3.5 | 5.0 | 5.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.5 | 7.0 | 7.0 | 4.5 | 7.0 | 7.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Recall Mode | None | None | None | None | None | None | C-Max | C-Max | C-Max | C-Max | C-Max | C-Max |
| Act Effect Green (s) | 9.2 | 24.9 | 24.9 | 7.5 | 21.2 | 21.2 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 |
| Actuated g/C Ratio | 0.15 | 0.42 | 0.42 | 0.12 | 0.35 | 0.35 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 |
| v/c Ratio | 0.54 | 0.37 | 0.06 | 0.27 | 0.73 | 0.07 | 0.21 | 0.03 | 0.46 | 0.21 | 0.04 | 0.19 |
| Control Delay | 30.8 | 12.8 | 0.1 | 26.2 | 20.5 | 0.2 | 24.1 | 21.9 | 6.5 | 24.0 | 22.0 | 2.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 30.8 | 12.8 | 0.1 | 26.2 | 20.5 | 0.2 | 24.1 | 21.9 | 6.5 | 24.0 | 22.0 | 2.7 |
| LOS | C | B | A | C | C | A | C | C | A | C | C | A |
| Approach Delay | | 15.7 | | | 20.0 | | | 10.7 | | | 12.8 | |
| Approach LOS | | B | | | C | | | B | | | B | |
| Queue Length 50th (ft) | 48 | 67 | 0 | 20 | 144 | 0 | 24 | 5 | 0 | 23 | 5 | 0 |
| Queue Length 95th (ft) | 95 | 102 | 0 | 47 | 191 | 0 | 60 | 19 | 57 | 57 | 20 | 13 |
| Internal Link Dist (ft) | | 1882 | | | 1357 | | | 367 | | | 806 | |
| Turn Bay Length (ft) | 325 | | 315 | 510 | | 225 | 160 | | 160 | 315 | | |
| Base Capacity (vph) | 309 | 1555 | 762 | 309 | 1415 | 704 | 354 | 475 | 614 | 354 | 475 | 519 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.47 | 0.35 | 0.06 | 0.19 | 0.65 | 0.06 | 0.21 | 0.03 | 0.46 | 0.21 | 0.04 | 0.19 |

Intersection Summary

Area Type: Other
 Cycle Length: 60
 Actuated Cycle Length: 60
 Offset: 0 (0%), Referenced to phase 2:NWTL and 6:SETL, Start of Green
 Natural Cycle: 60
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.73
 Intersection Signal Delay: 16.5
 Intersection LOS: B
 Intersection Capacity Utilization 57.9%
 ICU Level of Service B
 Analysis Period (min) 15

Splits and Phases: 1: Sneffels St & Mesa Ridge Pkwy



| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.4 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 303 | 5 | 7 | 148 | 35 | 2 | 0 | 5 | 40 | 0 | 1 |
| Future Vol, veh/h | 1 | 303 | 5 | 7 | 148 | 35 | 2 | 0 | 5 | 40 | 0 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | Stop |
| Storage Length | 50 | - | - | 85 | - | 190 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 87 | 87 | 87 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 329 | 5 | 8 | 170 | 40 | 3 | 0 | 6 | 51 | 0 | 1 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 210 | 0 | 0 | 334 | 0 | 0 | 540 | 560 | 332 | 523 | 522 | 170 |
| Stage 1 | - | - | - | - | - | - | 334 | 334 | - | 186 | 186 | - |
| Stage 2 | - | - | - | - | - | - | 206 | 226 | - | 337 | 336 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1361 | - | - | 1225 | - | - | 453 | 437 | 710 | 465 | 459 | 874 |
| Stage 1 | - | - | - | - | - | - | 680 | 643 | - | 816 | 746 | - |
| Stage 2 | - | - | - | - | - | - | 796 | 717 | - | 677 | 642 | - |
| Platoon blocked, % | | - | - | - | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1361 | - | - | 1225 | - | - | 450 | 434 | 710 | 458 | 455 | 874 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 450 | 434 | - | 458 | 455 | - |
| Stage 1 | - | - | - | - | - | - | 679 | 642 | - | 815 | 741 | - |
| Stage 2 | - | - | - | - | - | - | 790 | 712 | - | 670 | 641 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|----|--|--|-----|--|--|----|--|--|------|--|--|
| HCM Control Delay, s | 0 | | | 0.3 | | | 11 | | | 13.8 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 609 | 1225 | - | - | 1361 | - | 463 |
| HCM Lane V/C Ratio | 0.015 | 0.007 | - | - | 0.001 | - | 0.114 |
| HCM Control Delay (s) | 11 | 8 | - | - | 7.6 | - | 13.8 |
| HCM Lane LOS | B | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | 0.4 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.9 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 2 | 273 | 1 | 20 | 124 | 10 | 10 | 0 | 1 | 35 | 0 | 3 |
| Future Vol, veh/h | 2 | 273 | 1 | 20 | 124 | 10 | 10 | 0 | 1 | 35 | 0 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | 50 | - | - | 50 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 87 | 87 | 87 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 297 | 1 | 23 | 143 | 11 | 13 | 0 | 1 | 45 | 0 | 4 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 154 | 0 | 0 | 298 | 0 | 0 | 499 | 502 | 298 | 491 | 491 | 143 |
| Stage 1 | - | - | - | - | - | - | 302 | 302 | - | 189 | 189 | - |
| Stage 2 | - | - | - | - | - | - | 197 | 200 | - | 302 | 302 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1426 | - | - | 1263 | - | - | 482 | 471 | 741 | 488 | 478 | 905 |
| Stage 1 | - | - | - | - | - | - | 707 | 664 | - | 813 | 744 | - |
| Stage 2 | - | - | - | - | - | - | 805 | 736 | - | 707 | 664 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1426 | - | - | 1263 | - | - | 473 | 462 | 741 | 480 | 469 | 905 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 473 | 462 | - | 480 | 469 | - |
| Stage 1 | - | - | - | - | - | - | 706 | 663 | - | 812 | 731 | - |
| Stage 2 | - | - | - | - | - | - | 787 | 723 | - | 705 | 663 | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|----|------|----|
| HCM Control Delay, s | 0.1 | 1 | 12.6 | 13 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 489 | 1263 | - | - | 1426 | - | 498 |
| HCM Lane V/C Ratio | 0.029 | 0.018 | - | - | 0.002 | - | 0.098 |
| HCM Control Delay (s) | 12.6 | 7.9 | - | - | 7.5 | - | 13 |
| HCM Lane LOS | B | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | 0 | - | 0.3 |

Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

Short-Term Baseline
PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph) | 200 | 1150 | 300 | 120 | 700 | 85 | 50 | 25 | 145 | 125 | 30 | 50 |
| Future Volume (vph) | 200 | 1150 | 300 | 120 | 700 | 85 | 50 | 25 | 145 | 125 | 30 | 50 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 325 | | 315 | 510 | | 225 | 160 | | 160 | 315 | | 0 |
| Storage Lanes | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 |
| Taper Length (ft) | 160 | | | 170 | | | 75 | | | 120 | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 1770 | 1863 | 1583 | 1770 | 1863 | 1583 |
| Flt Permitted | 0.950 | | | 0.950 | | | 0.735 | | | 0.738 | | |
| Satd. Flow (perm) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 1369 | 1863 | 1583 | 1375 | 1863 | 1583 |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes |
| Satd. Flow (RTOR) | | | 316 | | | 118 | | | 167 | | | 155 |
| Link Speed (mph) | | 55 | | | 55 | | | 25 | | | | 25 |
| Link Distance (ft) | | 1962 | | | 1437 | | | 447 | | | | 886 |
| Travel Time (s) | | 24.3 | | | 17.8 | | | 12.2 | | | | 24.2 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.93 | 0.93 | 0.93 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Adj. Flow (vph) | 211 | 1211 | 316 | 129 | 753 | 91 | 57 | 29 | 167 | 144 | 34 | 57 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 211 | 1211 | 316 | 129 | 753 | 91 | 57 | 29 | 167 | 144 | 34 | 57 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 12 | | | 12 | | | 12 | | | | 12 |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | | 0 |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | | 16 |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | | 94 |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | | 6 |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | | Cl+Ex |
| Detector 2 Channel | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | | 0.0 |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 7 | 4 | | 3 | 8 | | | 6 | | | | 2 |
| Permitted Phases | | | 4 | | | 8 | 6 | | 6 | 2 | | 2 |

Splits and Phases: 1: Sneffels St & Mesa Ridge Pkwy

| | | |
|--------|------|------|
| Ø2 (R) | Ø3 | Ø4 |
| 14 s | 15 s | 31 s |
| Ø6 (R) | Ø7 | Ø8 |
| 14 s | 15 s | 31 s |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.1 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 183 | 5 | 10 | 240 | 65 | 1 | 0 | 7 | 30 | 0 | 3 |
| Future Vol, veh/h | 1 | 183 | 5 | 10 | 240 | 65 | 1 | 0 | 7 | 30 | 0 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | Stop |
| Storage Length | 50 | - | - | 85 | - | 190 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 92 | 92 | 92 | 78 | 78 | 78 | 83 | 83 | 83 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 210 | 6 | 11 | 261 | 71 | 1 | 0 | 9 | 36 | 0 | 4 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 332 | 0 | 0 | 216 | 0 | 0 | 534 | 569 | 213 | 503 | 501 | 261 |
| Stage 1 | - | - | - | - | - | - | 215 | 215 | - | 283 | 283 | - |
| Stage 2 | - | - | - | - | - | - | 319 | 354 | - | 220 | 218 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1227 | - | - | 1354 | - | - | 457 | 432 | 827 | 479 | 472 | 778 |
| Stage 1 | - | - | - | - | - | - | 787 | 725 | - | 724 | 677 | - |
| Stage 2 | - | - | - | - | - | - | 693 | 630 | - | 782 | 723 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1227 | - | - | 1354 | - | - | 452 | 428 | 827 | 470 | 468 | 778 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 452 | 428 | - | 470 | 468 | - |
| Stage 1 | - | - | - | - | - | - | 786 | 724 | - | 723 | 672 | - |
| Stage 2 | - | - | - | - | - | - | 684 | 625 | - | 773 | 722 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|----|--|--|-----|--|--|-----|--|--|----|--|--|
| HCM Control Delay, s | 0 | | | 0.2 | | | 9.9 | | | 13 | | |
| HCM LOS | | | | | | | A | | | B | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 749 | 1354 | - | - | 1227 | - | 488 |
| HCM Lane V/C Ratio | 0.014 | 0.008 | - | - | 0.001 | - | 0.081 |
| HCM Control Delay (s) | 9.9 | 7.7 | - | - | 7.9 | - | 13 |
| HCM Lane LOS | A | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | 0.3 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.9 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 7 | 142 | 4 | 15 | 179 | 50 | 2 | 0 | 12 | 35 | 0 | 5 |
| Future Vol, veh/h | 7 | 142 | 4 | 15 | 179 | 50 | 2 | 0 | 12 | 35 | 0 | 5 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | 50 | - | - | 50 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 8 | 163 | 5 | 17 | 206 | 57 | 3 | 0 | 15 | 45 | 0 | 6 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 263 | 0 | 0 | 168 | 0 | 0 | 454 | 479 | 166 | 429 | 424 | 206 |
| Stage 1 | - | - | - | - | - | - | 182 | 182 | - | 240 | 240 | - |
| Stage 2 | - | - | - | - | - | - | 272 | 297 | - | 189 | 184 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1301 | - | - | 1410 | - | - | 516 | 486 | 878 | 536 | 522 | 835 |
| Stage 1 | - | - | - | - | - | - | 820 | 749 | - | 763 | 707 | - |
| Stage 2 | - | - | - | - | - | - | 734 | 668 | - | 813 | 747 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1301 | - | - | 1410 | - | - | 505 | 477 | 878 | 519 | 513 | 835 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 505 | 477 | - | 519 | 513 | - |
| Stage 1 | - | - | - | - | - | - | 815 | 745 | - | 758 | 699 | - |
| Stage 2 | - | - | - | - | - | - | 720 | 660 | - | 794 | 743 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|-----|--|--|-----|--|--|-----|--|--|------|--|--|
| HCM Control Delay, s | 0.4 | | | 0.5 | | | 9.6 | | | 12.3 | | |
| HCM LOS | | | | | | | A | | | B | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 794 | 1410 | - | - | 1301 | - | 545 |
| HCM Lane V/C Ratio | 0.023 | 0.012 | - | - | 0.006 | - | 0.094 |
| HCM Control Delay (s) | 9.6 | 7.6 | - | - | 7.8 | - | 12.3 |
| HCM Lane LOS | A | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | 0.3 |

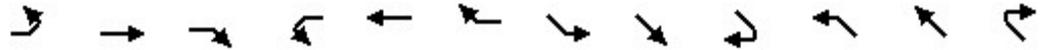
Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

Short-Term Baseline + Site
AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph) | 150 | 500 | 40 | 55 | 850 | 46 | 89 | 19 | 309 | 65 | 16 | 85 |
| Future Volume (vph) | 150 | 500 | 40 | 55 | 850 | 46 | 89 | 19 | 309 | 65 | 16 | 85 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 578 | | 315 | 510 | | 378 | 160 | | 160 | 315 | | 0 |
| Storage Lanes | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 |
| Taper Length (ft) | 222 | | | 170 | | | 75 | | | 120 | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 1770 | 1863 | 1583 | 1770 | 1863 | 1583 |
| Flt Permitted | 0.950 | | | 0.950 | | | 0.746 | | | 0.744 | | |
| Satd. Flow (perm) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 1390 | 1863 | 1583 | 1386 | 1863 | 1583 |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes |
| Satd. Flow (RTOR) | | | 118 | | | 118 | | | 336 | | | 155 |
| Link Speed (mph) | | 55 | | | 55 | | | 25 | | | 25 | |
| Link Distance (ft) | | 1962 | | | 1437 | | | 447 | | | 886 | |
| Travel Time (s) | | 24.3 | | | 17.8 | | | 12.2 | | | 24.2 | |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | 0.92 | 0.87 | 0.87 | 0.87 |
| Adj. Flow (vph) | 161 | 538 | 43 | 59 | 914 | 49 | 97 | 21 | 336 | 75 | 18 | 98 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 161 | 538 | 43 | 59 | 914 | 49 | 97 | 21 | 336 | 75 | 18 | 98 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 12 | | | 12 | | | 12 | | | 12 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | 94 | |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | 6 | |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | |
| Detector 2 Channel | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 7 | 4 | | 3 | 8 | | | 6 | | | 2 | |
| Permitted Phases | | | 4 | | | 8 | 6 | | 6 | 2 | | 2 |

Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

Short-Term Baseline + Site
AM

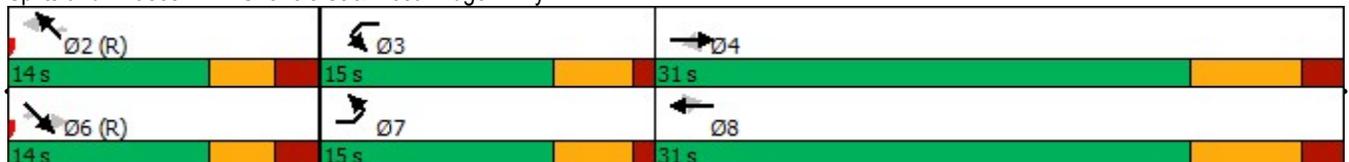


| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Detector Phase | 7 | 4 | 4 | 3 | 8 | 8 | 6 | 6 | 6 | 2 | 2 | 2 |
| Switch Phase | | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 25.0 | 25.0 | 9.5 | 25.0 | 25.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
| Total Split (s) | 15.0 | 31.0 | 31.0 | 15.0 | 31.0 | 31.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| Total Split (%) | 25.0% | 51.7% | 51.7% | 25.0% | 51.7% | 51.7% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% | 23.3% |
| Maximum Green (s) | 10.5 | 24.0 | 24.0 | 10.5 | 24.0 | 24.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| Yellow Time (s) | 3.5 | 5.0 | 5.0 | 3.5 | 5.0 | 5.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.5 | 7.0 | 7.0 | 4.5 | 7.0 | 7.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lag | | | | | | |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | | | | | | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Recall Mode | None | None | None | None | None | None | C-Max | C-Max | C-Max | C-Max | C-Max | C-Max |
| Act Effct Green (s) | 9.4 | 25.2 | 25.2 | 7.5 | 21.3 | 21.3 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Actuated g/C Ratio | 0.16 | 0.42 | 0.42 | 0.12 | 0.36 | 0.36 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| v/c Ratio | 0.58 | 0.36 | 0.06 | 0.27 | 0.73 | 0.08 | 0.28 | 0.05 | 0.52 | 0.22 | 0.04 | 0.19 |
| Control Delay | 32.1 | 12.7 | 0.1 | 26.2 | 20.3 | 0.3 | 25.3 | 22.1 | 6.7 | 24.3 | 22.0 | 2.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 32.1 | 12.7 | 0.1 | 26.2 | 20.3 | 0.3 | 25.3 | 22.1 | 6.7 | 24.3 | 22.0 | 2.7 |
| LOS | C | B | A | C | C | A | C | C | A | C | C | A |
| Approach Delay | | 16.2 | | | 19.7 | | | 11.4 | | | 13.0 | |
| Approach LOS | | B | | | B | | | B | | | B | |
| Queue Length 50th (ft) | 54 | 67 | 0 | 20 | 144 | 0 | 31 | 6 | 0 | 24 | 5 | 0 |
| Queue Length 95th (ft) | 105 | 102 | 0 | 47 | 191 | 1 | 73 | 23 | 62 | 57 | 20 | 13 |
| Internal Link Dist (ft) | | 1882 | | | 1357 | | | 367 | | | 806 | |
| Turn Bay Length (ft) | 578 | | 315 | 510 | | 378 | 160 | | 160 | 315 | | |
| Base Capacity (vph) | 309 | 1573 | 769 | 309 | 1415 | 704 | 347 | 465 | 647 | 346 | 465 | 512 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.52 | 0.34 | 0.06 | 0.19 | 0.65 | 0.07 | 0.28 | 0.05 | 0.52 | 0.22 | 0.04 | 0.19 |

Intersection Summary

Area Type: Other
 Cycle Length: 60
 Actuated Cycle Length: 60
 Offset: 0 (0%), Referenced to phase 2:NWTL and 6:SETL, Start of Green
 Natural Cycle: 60
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.73
 Intersection Signal Delay: 16.5
 Intersection LOS: B
 Intersection Capacity Utilization 61.0%
 ICU Level of Service B
 Analysis Period (min) 15

Splits and Phases: 1: Sneffels St & Mesa Ridge Pkwy



| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 3.3 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 2 | 303 | 5 | 7 | 148 | 56 | 5 | 0 | 2 | 112 | 0 | 5 |
| Future Vol, veh/h | 2 | 303 | 5 | 7 | 148 | 56 | 5 | 0 | 2 | 112 | 0 | 5 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | Stop |
| Storage Length | 50 | - | - | 85 | - | 190 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 87 | 87 | 87 | 78 | 78 | 78 | 83 | 83 | 83 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 329 | 5 | 8 | 170 | 64 | 6 | 0 | 3 | 135 | 0 | 6 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 234 | 0 | 0 | 334 | 0 | 0 | 554 | 586 | 332 | 523 | 524 | 170 |
| Stage 1 | - | - | - | - | - | - | 336 | 336 | - | 186 | 186 | - |
| Stage 2 | - | - | - | - | - | - | 218 | 250 | - | 337 | 338 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1333 | - | - | 1225 | - | - | 443 | 422 | 710 | 465 | 458 | 874 |
| Stage 1 | - | - | - | - | - | - | 678 | 642 | - | 816 | 746 | - |
| Stage 2 | - | - | - | - | - | - | 784 | 700 | - | 677 | 641 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1333 | - | - | 1225 | - | - | 437 | 418 | 710 | 460 | 454 | 874 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 437 | 418 | - | 460 | 454 | - |
| Stage 1 | - | - | - | - | - | - | 677 | 641 | - | 814 | 741 | - |
| Stage 2 | - | - | - | - | - | - | 774 | 695 | - | 674 | 640 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 0 | | | 0.3 | | | 12.5 | | | 15.9 | | |
| HCM LOS | | | | | | | B | | | C | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 491 | 1225 | - | - | 1333 | - | 470 |
| HCM Lane V/C Ratio | 0.018 | 0.007 | - | - | 0.002 | - | 0.3 |
| HCM Control Delay (s) | 12.5 | 8 | - | - | 7.7 | - | 15.9 |
| HCM Lane LOS | B | A | - | - | A | - | C |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | 1.2 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.8 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 2 | 306 | 1 | 20 | 128 | 10 | 10 | 0 | 1 | 35 | 0 | 3 |
| Future Vol, veh/h | 2 | 306 | 1 | 20 | 128 | 10 | 10 | 0 | 1 | 35 | 0 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | 50 | - | - | 50 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 87 | 87 | 87 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 333 | 1 | 23 | 147 | 11 | 13 | 0 | 1 | 45 | 0 | 4 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 158 | 0 | 0 | 334 | 0 | 0 | 539 | 542 | 334 | 531 | 531 | 147 |
| Stage 1 | - | - | - | - | - | - | 338 | 338 | - | 193 | 193 | - |
| Stage 2 | - | - | - | - | - | - | 201 | 204 | - | 338 | 338 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1422 | - | - | 1225 | - | - | 453 | 447 | 708 | 459 | 454 | 900 |
| Stage 1 | - | - | - | - | - | - | 676 | 641 | - | 809 | 741 | - |
| Stage 2 | - | - | - | - | - | - | 801 | 733 | - | 676 | 641 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1422 | - | - | 1225 | - | - | 444 | 438 | 708 | 451 | 445 | 900 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 444 | 438 | - | 451 | 445 | - |
| Stage 1 | - | - | - | - | - | - | 675 | 640 | - | 808 | 727 | - |
| Stage 2 | - | - | - | - | - | - | 783 | 719 | - | 674 | 640 | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|----|------|------|
| HCM Control Delay, s | 0 | 1 | 13.1 | 13.6 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 460 | 1225 | - | - | 1422 | - | 469 |
| HCM Lane V/C Ratio | 0.031 | 0.019 | - | - | 0.002 | - | 0.104 |
| HCM Control Delay (s) | 13.1 | 8 | - | - | 7.5 | - | 13.6 |
| HCM Lane LOS | B | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | 0 | - | 0.3 |

Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

Short-Term Baseline + Site
PM

| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 244 | 1150 | 300 | 120 | 700 | 102 | 61 | 27 | 174 | 125 | 33 | 50 |
| Future Volume (vph) | 244 | 1150 | 300 | 120 | 700 | 102 | 61 | 27 | 174 | 125 | 33 | 50 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 578 | | 315 | 510 | | 378 | 160 | | 160 | 315 | | 0 |
| Storage Lanes | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 |
| Taper Length (ft) | 222 | | | 170 | | | 75 | | | 120 | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 1770 | 1863 | 1583 | 1770 | 1863 | 1583 |
| Flt Permitted | 0.950 | | | 0.950 | | | 0.732 | | | 0.738 | | |
| Satd. Flow (perm) | 1770 | 3539 | 1583 | 1770 | 3539 | 1583 | 1364 | 1863 | 1583 | 1375 | 1863 | 1583 |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes |
| Satd. Flow (RTOR) | | | 316 | | | 118 | | | 189 | | | 155 |
| Link Speed (mph) | | 55 | | | 55 | | | 25 | | | 25 | |
| Link Distance (ft) | | 1962 | | | 1437 | | | 447 | | | 886 | |
| Travel Time (s) | | 24.3 | | | 17.8 | | | 12.2 | | | 24.2 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | 0.92 | 0.87 | 0.87 | 0.87 |
| Adj. Flow (vph) | 257 | 1211 | 316 | 129 | 753 | 110 | 66 | 29 | 189 | 144 | 38 | 57 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 257 | 1211 | 316 | 129 | 753 | 110 | 66 | 29 | 189 | 144 | 38 | 57 |
| Enter Blocked Intersection | No |
| Lane Alignment | Left | Left | Right |
| Median Width(ft) | | 12 | | | 12 | | | 12 | | | 12 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Detector Template | Left | Thru | Right |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 |
| Detector 1 Type | Cl+Ex |
| Detector 1 Channel | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | 94 | |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | 6 | |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | |
| Detector 2 Channel | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases | 7 | 4 | | 3 | 8 | | | 6 | | | 2 | |
| Permitted Phases | | | 4 | | | 8 | 6 | | 6 | 2 | | 2 |

Splits and Phases: 1: Sneffels St & Mesa Ridge Pkwy

| | | |
|--|--|--|
|  Ø2 (R) |  Ø3 |  Ø4 |
| 14 s | 15 s | 31 s |
|  Ø6 (R) |  Ø7 |  Ø8 |
| 14 s | 15 s | 31 s |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2.1 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 4 | 183 | 5 | 10 | 240 | 129 | 1 | 0 | 7 | 72 | 0 | 5 |
| Future Vol, veh/h | 4 | 183 | 5 | 10 | 240 | 129 | 1 | 0 | 7 | 72 | 0 | 5 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | Stop |
| Storage Length | 50 | - | - | 85 | - | 190 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 92 | 92 | 92 | 78 | 78 | 78 | 83 | 83 | 83 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 5 | 210 | 6 | 11 | 261 | 140 | 1 | 0 | 9 | 87 | 0 | 6 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 401 | 0 | 0 | 216 | 0 | 0 | 576 | 646 | 213 | 511 | 509 | 261 |
| Stage 1 | - | - | - | - | - | - | 223 | 223 | - | 283 | 283 | - |
| Stage 2 | - | - | - | - | - | - | 353 | 423 | - | 228 | 226 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1158 | - | - | 1354 | - | - | 428 | 390 | 827 | 473 | 467 | 778 |
| Stage 1 | - | - | - | - | - | - | 780 | 719 | - | 724 | 677 | - |
| Stage 2 | - | - | - | - | - | - | 664 | 588 | - | 775 | 717 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1158 | - | - | 1354 | - | - | 421 | 385 | 827 | 464 | 461 | 778 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 421 | 385 | - | 464 | 461 | - |
| Stage 1 | - | - | - | - | - | - | 777 | 716 | - | 721 | 672 | - |
| Stage 2 | - | - | - | - | - | - | 654 | 583 | - | 763 | 714 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|-----|--|--|-----|--|--|-----|--|--|------|--|--|
| HCM Control Delay, s | 0.2 | | | 0.2 | | | 9.9 | | | 14.4 | | |
| HCM LOS | | | | | | | A | | | B | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 738 | 1354 | - | - | 1158 | - | 476 |
| HCM Lane V/C Ratio | 0.014 | 0.008 | - | - | 0.004 | - | 0.195 |
| HCM Control Delay (s) | 9.9 | 7.7 | - | - | 8.1 | - | 14.4 |
| HCM Lane LOS | A | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | 0.7 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.9 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 7 | 145 | 4 | 15 | 181 | 50 | 2 | 0 | 12 | 35 | 0 | 5 |
| Future Vol, veh/h | 7 | 145 | 4 | 15 | 181 | 50 | 2 | 0 | 12 | 35 | 0 | 5 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | 50 | - | - | 50 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 8 | 167 | 5 | 17 | 208 | 57 | 3 | 0 | 15 | 45 | 0 | 6 |

| Major/Minor | Major1 | | Major2 | | | Minor1 | | | Minor2 | | | |
|----------------------|--------|---|--------|-------|---|--------|-------|-------|--------|-------|-------|-------|
| Conflicting Flow All | 265 | 0 | 0 | 172 | 0 | 0 | 460 | 485 | 170 | 435 | 430 | 208 |
| Stage 1 | - | - | - | - | - | - | 186 | 186 | - | 242 | 242 | - |
| Stage 2 | - | - | - | - | - | - | 274 | 299 | - | 193 | 188 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1299 | - | - | 1405 | - | - | 512 | 482 | 874 | 531 | 518 | 832 |
| Stage 1 | - | - | - | - | - | - | 816 | 746 | - | 762 | 705 | - |
| Stage 2 | - | - | - | - | - | - | 732 | 666 | - | 809 | 745 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1299 | - | - | 1405 | - | - | 501 | 473 | 874 | 515 | 509 | 832 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 501 | 473 | - | 515 | 509 | - |
| Stage 1 | - | - | - | - | - | - | 811 | 742 | - | 757 | 697 | - |
| Stage 2 | - | - | - | - | - | - | 718 | 658 | - | 790 | 741 | - |

| Approach | SE | | NW | | | NE | | SW | | |
|----------------------|-----|--|-----|--|--|-----|--|------|--|--|
| HCM Control Delay, s | 0.3 | | 0.5 | | | 9.7 | | 12.4 | | |
| HCM LOS | | | | | | A | | B | | |

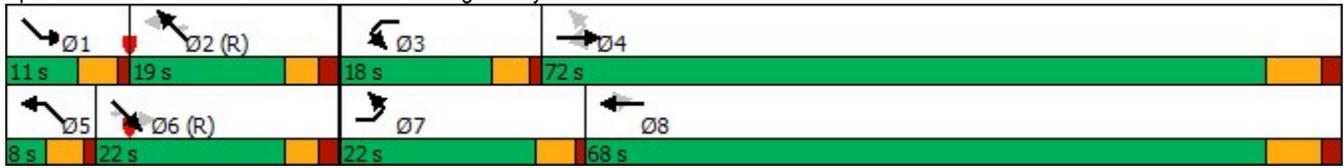
| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 790 | 1405 | - | - | 1299 | - | 541 |
| HCM Lane V/C Ratio | 0.023 | 0.012 | - | - | 0.006 | - | 0.095 |
| HCM Control Delay (s) | 9.7 | 7.6 | - | - | 7.8 | - | 12.4 |
| HCM Lane LOS | A | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | 0.3 |

Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

2041 Background
AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph) | 140 | 800 | 75 | 100 | 1850 | 50 | 85 | 25 | 285 | 165 | 20 | 250 |
| Future Volume (vph) | 140 | 800 | 75 | 100 | 1850 | 50 | 85 | 25 | 285 | 165 | 20 | 250 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 325 | | 315 | 510 | | 225 | 200 | | 160 | 315 | | 0 |
| Storage Lanes | 1 | | 1 | 2 | | 1 | 1 | | 1 | 1 | | 1 |
| Taper Length (ft) | 160 | | | 170 | | | 75 | | | 120 | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 1863 | 1583 | 1770 | 1863 | 1583 |
| Flt Permitted | 0.058 | | | 0.950 | | | 0.612 | | | 0.740 | | |
| Satd. Flow (perm) | 108 | 3539 | 1583 | 3433 | 3539 | 1583 | 1140 | 1863 | 1583 | 1378 | 1863 | 1583 |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes |
| Satd. Flow (RTOR) | | | 100 | | | 100 | | | 200 | | | 272 |
| Link Speed (mph) | | 55 | | | 55 | | | 25 | | | | 25 |
| Link Distance (ft) | | 1962 | | | 1437 | | | 447 | | | | 886 |
| Travel Time (s) | | 24.3 | | | 17.8 | | | 12.2 | | | | 24.2 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.95 | 0.95 | 0.95 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 151 | 860 | 81 | 105 | 1947 | 53 | 92 | 27 | 310 | 179 | 22 | 272 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 151 | 860 | 81 | 105 | 1947 | 53 | 92 | 27 | 310 | 179 | 22 | 272 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 24 | | | 24 | | | 12 | | | | 12 |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | | 0 |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | | 16 |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | | 94 |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | | 6 |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | | Cl+Ex |
| Detector 2 Channel | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | | 0.0 |
| Turn Type | pm+pt | NA | Perm | Prot | NA | Perm | pm+pt | NA | Perm | pm+pt | NA | Perm |
| Protected Phases | 7 | 4 | | 3 | 8 | | 1 | 6 | | 5 | 2 | |
| Permitted Phases | 4 | | 4 | | | 8 | 6 | | 6 | 2 | | 2 |

Splits and Phases: 1: Sneffels St & Mesa Ridge Pkwy



| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.9 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 2 | 333 | 6 | 10 | 155 | 45 | 4 | 0 | 7 | 55 | 0 | 2 |
| Future Vol, veh/h | 2 | 333 | 6 | 10 | 155 | 45 | 4 | 0 | 7 | 55 | 0 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | Stop |
| Storage Length | 50 | - | - | 50 | - | 190 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 87 | 87 | 87 | 78 | 78 | 78 | 83 | 83 | 83 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 362 | 7 | 11 | 178 | 52 | 5 | 0 | 9 | 66 | 0 | 2 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 230 | 0 | 0 | 369 | 0 | 0 | 596 | 622 | 366 | 574 | 573 | 178 |
| Stage 1 | - | - | - | - | - | - | 370 | 370 | - | 200 | 200 | - |
| Stage 2 | - | - | - | - | - | - | 226 | 252 | - | 374 | 373 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1338 | - | - | 1190 | - | - | 415 | 403 | 679 | 430 | 430 | 865 |
| Stage 1 | - | - | - | - | - | - | 650 | 620 | - | 802 | 736 | - |
| Stage 2 | - | - | - | - | - | - | 777 | 698 | - | 647 | 618 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1338 | - | - | 1190 | - | - | 410 | 399 | 679 | 421 | 426 | 865 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 410 | 399 | - | 421 | 426 | - |
| Stage 1 | - | - | - | - | - | - | 649 | 619 | - | 801 | 729 | - |
| Stage 2 | - | - | - | - | - | - | 768 | 692 | - | 637 | 617 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|----|--|--|-----|--|--|------|--|--|----|--|--|
| HCM Control Delay, s | 0 | | | 0.4 | | | 11.7 | | | 15 | | |
| HCM LOS | | | | | | | B | | | C | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 548 | 1190 | - | - | 1338 | - | 429 |
| HCM Lane V/C Ratio | 0.026 | 0.01 | - | - | 0.002 | - | 0.16 |
| HCM Control Delay (s) | 11.7 | 8.1 | - | - | 7.7 | - | 15 |
| HCM Lane LOS | B | A | - | - | A | - | C |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | 0.6 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 3 | 294 | 2 | 25 | 121 | 15 | 3 | 0 | 11 | 36 | 0 | 4 |
| Future Vol, veh/h | 3 | 294 | 2 | 25 | 121 | 15 | 3 | 0 | 11 | 36 | 0 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | 50 | - | - | 50 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 87 | 87 | 87 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 320 | 2 | 29 | 139 | 17 | 4 | 0 | 14 | 46 | 0 | 5 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 156 | 0 | 0 | 322 | 0 | 0 | 535 | 541 | 321 | 531 | 525 | 139 |
| Stage 1 | - | - | - | - | - | - | 327 | 327 | - | 197 | 197 | - |
| Stage 2 | - | - | - | - | - | - | 208 | 214 | - | 334 | 328 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1424 | - | - | 1238 | - | - | 456 | 448 | 720 | 459 | 458 | 909 |
| Stage 1 | - | - | - | - | - | - | 686 | 648 | - | 805 | 738 | - |
| Stage 2 | - | - | - | - | - | - | 794 | 725 | - | 680 | 647 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1424 | - | - | 1238 | - | - | 445 | 437 | 720 | 441 | 447 | 909 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 445 | 437 | - | 441 | 447 | - |
| Stage 1 | - | - | - | - | - | - | 685 | 647 | - | 803 | 721 | - |
| Stage 2 | - | - | - | - | - | - | 771 | 708 | - | 665 | 646 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 0.1 | | | 1.2 | | | 10.8 | | | 13.7 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 636 | 1238 | - | - | 1424 | - | 465 |
| HCM Lane V/C Ratio | 0.028 | 0.023 | - | - | 0.002 | - | 0.11 |
| HCM Control Delay (s) | 10.8 | 8 | - | - | 7.5 | - | 13.7 |
| HCM Lane LOS | B | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | 0 | - | 0.4 |

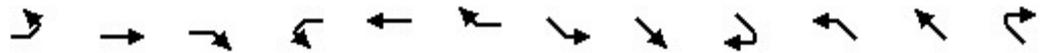
Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

2041 Background
PM

| |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|---|
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR | |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph) | 215 | 2150 | 350 | 250 | 1200 | 105 | 65 | 35 | 160 | 175 | 40 | 200 | |
| Future Volume (vph) | 215 | 2150 | 350 | 250 | 1200 | 105 | 65 | 35 | 160 | 175 | 40 | 200 | |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | |
| Storage Length (ft) | 325 | | 315 | 510 | | 225 | 200 | | 160 | 315 | | 0 | |
| Storage Lanes | 1 | | 1 | 2 | | 1 | 1 | | 1 | 1 | | 1 | |
| Taper Length (ft) | 160 | | | 170 | | | 75 | | | 120 | | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 | |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 1863 | 1583 | 1770 | 1863 | 1583 | |
| Flt Permitted | 0.147 | | | 0.950 | | | 0.727 | | | 0.431 | | | |
| Satd. Flow (perm) | 274 | 3539 | 1583 | 3433 | 3539 | 1583 | 1354 | 1863 | 1583 | 803 | 1863 | 1583 | |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes | |
| Satd. Flow (RTOR) | | | 303 | | | 141 | | | 174 | | | 205 | |
| Link Speed (mph) | | 55 | | | 55 | | | 25 | | | 25 | | |
| Link Distance (ft) | | 1962 | | | 1437 | | | 447 | | | 886 | | |
| Travel Time (s) | | 24.3 | | | 17.8 | | | 12.2 | | | 24.2 | | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.92 | 0.92 | 0.92 | 0.87 | 0.87 | 0.87 | |
| Adj. Flow (vph) | 226 | 2263 | 368 | 263 | 1263 | 111 | 71 | 38 | 174 | 201 | 46 | 230 | |
| Shared Lane Traffic (%) | | | | | | | | | | | | | |
| Lane Group Flow (vph) | 226 | 2263 | 368 | 263 | 1263 | 111 | 71 | 38 | 174 | 201 | 46 | 230 | |
| Enter Blocked Intersection | No | No | No | No | No | No | |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right | |
| Median Width(ft) | | 24 | | | 24 | | | 12 | | | 12 | | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | | |
| Two way Left Turn Lane | | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 | |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | |
| Detector 1 Channel | | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | 94 | | |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | 6 | | |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | |
| Detector 2 Channel | | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | | |
| Turn Type | pm+pt | NA | Perm | Prot | NA | Perm | pm+pt | NA | Perm | pm+pt | NA | Perm | |
| Protected Phases | 7 | 4 | | 3 | 8 | | 1 | 6 | | 5 | 2 | | |
| Permitted Phases | 4 | | 4 | | | 8 | 6 | | 6 | 2 | | 2 | |

Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

2041 Background
PM

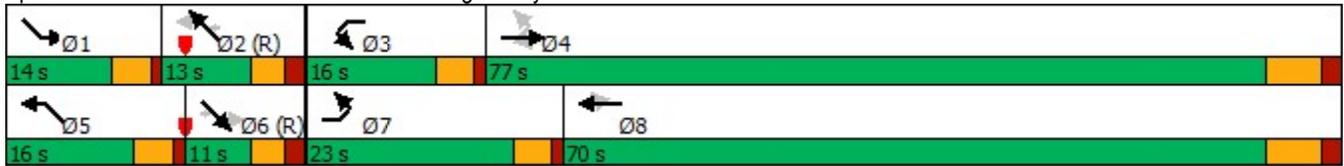


| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Detector Phase | 7 | 4 | 4 | 3 | 8 | 8 | 1 | 6 | 6 | 5 | 2 | 2 |
| Switch Phase | | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 25.0 | 25.0 | 9.5 | 25.0 | 25.0 | 9.5 | 23.0 | 23.0 | 9.5 | 23.0 | 23.0 |
| Total Split (s) | 23.0 | 77.0 | 77.0 | 16.0 | 70.0 | 70.0 | 14.0 | 11.0 | 11.0 | 16.0 | 13.0 | 13.0 |
| Total Split (%) | 19.2% | 64.2% | 64.2% | 13.3% | 58.3% | 58.3% | 11.7% | 9.2% | 9.2% | 13.3% | 10.8% | 10.8% |
| Maximum Green (s) | 18.5 | 70.0 | 70.0 | 11.5 | 63.0 | 63.0 | 9.5 | 6.0 | 6.0 | 11.5 | 8.0 | 8.0 |
| Yellow Time (s) | 3.5 | 5.0 | 5.0 | 3.5 | 5.0 | 5.0 | 3.5 | 3.0 | 3.0 | 3.5 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.5 | 7.0 | 7.0 | 4.5 | 7.0 | 7.0 | 4.5 | 5.0 | 5.0 | 4.5 | 5.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag |
| Lead-Lag Optimize? | Yes |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Recall Mode | None | C-Max | C-Max | None | C-Max | C-Max |
| Act Effct Green (s) | 84.3 | 70.1 | 70.1 | 11.4 | 69.4 | 69.4 | 15.0 | 6.0 | 6.0 | 20.8 | 11.1 | 11.1 |
| Actuated g/C Ratio | 0.70 | 0.58 | 0.58 | 0.10 | 0.58 | 0.58 | 0.12 | 0.05 | 0.05 | 0.17 | 0.09 | 0.09 |
| v/c Ratio | 0.66 | 1.09 | 0.35 | 0.81 | 0.62 | 0.11 | 0.36 | 0.41 | 0.71 | 0.87 | 0.27 | 0.69 |
| Control Delay | 17.1 | 76.7 | 3.5 | 72.7 | 18.9 | 1.3 | 47.0 | 68.7 | 24.9 | 79.6 | 57.9 | 22.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 17.1 | 76.7 | 3.5 | 72.7 | 18.9 | 1.3 | 47.0 | 68.7 | 24.9 | 79.6 | 57.9 | 22.4 |
| LOS | B | E | A | E | B | A | D | E | C | E | E | C |
| Approach Delay | | 62.5 | | | 26.3 | | | 36.3 | | | 49.9 | |
| Approach LOS | | E | | | C | | | D | | | D | |
| Queue Length 50th (ft) | 46 | ~1044 | 21 | 104 | 315 | 0 | 47 | 29 | 0 | 144 | 35 | 19 |
| Queue Length 95th (ft) | 101 | #1180 | 64 | #169 | 442 | 16 | 91 | 67 | #91 | #232 | 72 | #116 |
| Internal Link Dist (ft) | | 1882 | | | 1357 | | | 367 | | | 806 | |
| Turn Bay Length (ft) | 325 | | 315 | 510 | | 225 | 200 | | 160 | 315 | | |
| Base Capacity (vph) | 432 | 2067 | 1050 | 328 | 2046 | 974 | 213 | 93 | 244 | 231 | 172 | 331 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.52 | 1.09 | 0.35 | 0.80 | 0.62 | 0.11 | 0.33 | 0.41 | 0.71 | 0.87 | 0.27 | 0.69 |

Intersection Summary

Area Type: Other
 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 0 (0%), Referenced to phase 2:NWTL and 6:SETL, Start of Green
 Natural Cycle: 150
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 1.09
 Intersection Signal Delay: 48.7
 Intersection LOS: D
 Intersection Capacity Utilization 96.7%
 ICU Level of Service F
 Analysis Period (min) 15
 ~ Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

Splits and Phases: 1: Sneffels St & Mesa Ridge Pkwy



| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.6 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 2 | 210 | 6 | 15 | 265 | 80 | 2 | 0 | 10 | 40 | 0 | 4 |
| Future Vol, veh/h | 2 | 210 | 6 | 15 | 265 | 80 | 2 | 0 | 10 | 40 | 0 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | Stop |
| Storage Length | 50 | - | - | 50 | - | 190 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 92 | 92 | 92 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 241 | 7 | 16 | 288 | 87 | 3 | 0 | 13 | 51 | 0 | 5 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 375 | 0 | 0 | 248 | 0 | 0 | 613 | 656 | 245 | 575 | 572 | 288 |
| Stage 1 | - | - | - | - | - | - | 249 | 249 | - | 320 | 320 | - |
| Stage 2 | - | - | - | - | - | - | 364 | 407 | - | 255 | 252 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1183 | - | - | 1318 | - | - | 405 | 385 | 794 | 429 | 430 | 751 |
| Stage 1 | - | - | - | - | - | - | 755 | 701 | - | 692 | 652 | - |
| Stage 2 | - | - | - | - | - | - | 655 | 597 | - | 749 | 698 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1183 | - | - | 1318 | - | - | 398 | 380 | 794 | 417 | 424 | 751 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 398 | 380 | - | 417 | 424 | - |
| Stage 1 | - | - | - | - | - | - | 753 | 700 | - | 691 | 644 | - |
| Stage 2 | - | - | - | - | - | - | 643 | 590 | - | 736 | 697 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 0.1 | | | 0.3 | | | 10.4 | | | 14.5 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 681 | 1318 | - | - | 1183 | - | 435 |
| HCM Lane V/C Ratio | 0.023 | 0.012 | - | - | 0.002 | - | 0.13 |
| HCM Control Delay (s) | 10.4 | 7.8 | - | - | 8 | - | 14.5 |
| HCM Lane LOS | B | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | 0.4 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.8 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 8 | 167 | 5 | 20 | 191 | 60 | 3 | 0 | 15 | 6 | 0 | 36 |
| Future Vol, veh/h | 8 | 167 | 5 | 20 | 191 | 60 | 3 | 0 | 15 | 6 | 0 | 36 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | 50 | - | - | 50 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 92 | 92 | 92 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 9 | 192 | 6 | 22 | 208 | 65 | 4 | 0 | 19 | 8 | 0 | 46 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 273 | 0 | 0 | 198 | 0 | 0 | 521 | 530 | 195 | 475 | 468 | 208 |
| Stage 1 | - | - | - | - | - | - | 213 | 213 | - | 252 | 252 | - |
| Stage 2 | - | - | - | - | - | - | 308 | 317 | - | 223 | 216 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1290 | - | - | 1375 | - | - | 466 | 455 | 846 | 500 | 493 | 832 |
| Stage 1 | - | - | - | - | - | - | 789 | 726 | - | 752 | 698 | - |
| Stage 2 | - | - | - | - | - | - | 702 | 654 | - | 780 | 724 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1290 | - | - | 1375 | - | - | 432 | 445 | 846 | 480 | 482 | 832 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 432 | 445 | - | 480 | 482 | - |
| Stage 1 | - | - | - | - | - | - | 783 | 721 | - | 747 | 687 | - |
| Stage 2 | - | - | - | - | - | - | 652 | 644 | - | 757 | 719 | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|-----|------|------|
| HCM Control Delay, s | 0.3 | 0.6 | 10.1 | 10.1 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 729 | 1375 | - | - | 1290 | - | 753 |
| HCM Lane V/C Ratio | 0.032 | 0.016 | - | - | 0.007 | - | 0.072 |
| HCM Control Delay (s) | 10.1 | 7.7 | - | - | 7.8 | - | 10.1 |
| HCM Lane LOS | B | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | 0.2 |

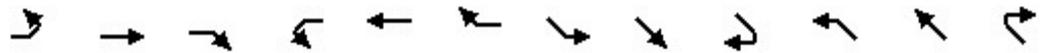
Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

2041 Background + Site
AM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph) | 155 | 800 | 75 | 100 | 1850 | 56 | 104 | 29 | 334 | 165 | 24 | 250 |
| Future Volume (vph) | 155 | 800 | 75 | 100 | 1850 | 56 | 104 | 29 | 334 | 165 | 24 | 250 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 860 | | 315 | 510 | | 660 | 200 | | 160 | 315 | | 0 |
| Storage Lanes | 1 | | 1 | 2 | | 1 | 1 | | 1 | 1 | | 1 |
| Taper Length (ft) | 222 | | | 170 | | | 75 | | | 120 | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 1863 | 1583 | 1770 | 1863 | 1583 |
| Flt Permitted | 0.058 | | | 0.950 | | | 0.610 | | | 0.736 | | |
| Satd. Flow (perm) | 108 | 3539 | 1583 | 3433 | 3539 | 1583 | 1136 | 1863 | 1583 | 1371 | 1863 | 1583 |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes |
| Satd. Flow (RTOR) | | | 100 | | | 100 | | | 200 | | | 272 |
| Link Speed (mph) | | 55 | | | 55 | | | 25 | | | 25 | |
| Link Distance (ft) | | 1962 | | | 1437 | | | 447 | | | 886 | |
| Travel Time (s) | | 24.3 | | | 17.8 | | | 12.2 | | | 24.2 | |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.95 | 0.95 | 0.95 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 167 | 860 | 81 | 105 | 1947 | 59 | 113 | 32 | 363 | 179 | 26 | 272 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 167 | 860 | 81 | 105 | 1947 | 59 | 113 | 32 | 363 | 179 | 26 | 272 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 24 | | | 24 | | | 12 | | | 12 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | 94 | |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | 6 | |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | |
| Detector 2 Channel | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | |
| Turn Type | pm+pt | NA | Perm | Prot | NA | Perm | pm+pt | NA | Perm | pm+pt | NA | Perm |
| Protected Phases | 7 | 4 | | 3 | 8 | | 1 | 6 | | 5 | 2 | |
| Permitted Phases | 4 | | 4 | | | 8 | 6 | | 6 | 2 | | 2 |

Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

2041 Background + Site
AM

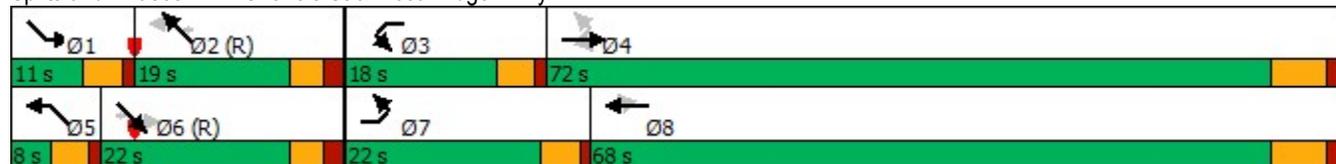


| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
|-------------------------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|
| Detector Phase | 7 | 4 | 4 | 3 | 8 | 8 | 1 | 6 | 6 | 5 | 2 | 2 |
| Switch Phase | | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.5 | 4.0 | 4.0 | 4.5 | 4.0 | 4.0 |
| Minimum Split (s) | 10.0 | 25.0 | 25.0 | 10.0 | 25.0 | 25.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| Total Split (s) | 22.0 | 72.0 | 72.0 | 18.0 | 68.0 | 68.0 | 11.0 | 22.0 | 22.0 | 8.0 | 19.0 | 19.0 |
| Total Split (%) | 18.3% | 60.0% | 60.0% | 15.0% | 56.7% | 56.7% | 9.2% | 18.3% | 18.3% | 6.7% | 15.8% | 15.8% |
| Maximum Green (s) | 17.5 | 65.0 | 65.0 | 13.5 | 61.0 | 61.0 | 6.5 | 17.0 | 17.0 | 3.5 | 14.0 | 14.0 |
| Yellow Time (s) | 3.5 | 5.0 | 5.0 | 3.5 | 5.0 | 5.0 | 3.5 | 3.0 | 3.0 | 3.5 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.5 | 7.0 | 7.0 | 4.5 | 7.0 | 7.0 | 4.5 | 5.0 | 5.0 | 4.5 | 5.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lag | Lead | Lag | Lag | Lead | Lag | Lag |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Recall Mode | None | None | None | None | None | None | None | C-Max | C-Max | None | C-Max | C-Max |
| Act Effct Green (s) | 85.2 | 69.5 | 69.5 | 9.0 | 64.1 | 64.1 | 24.0 | 17.0 | 17.0 | 18.0 | 14.0 | 14.0 |
| Actuated g/C Ratio | 0.71 | 0.58 | 0.58 | 0.08 | 0.53 | 0.53 | 0.20 | 0.14 | 0.14 | 0.15 | 0.12 | 0.12 |
| v/c Ratio | 0.61 | 0.42 | 0.08 | 0.41 | 1.03 | 0.07 | 0.43 | 0.12 | 0.92 | 0.82 | 0.12 | 0.64 |
| Control Delay | 32.2 | 15.1 | 1.7 | 57.3 | 57.4 | 0.8 | 46.0 | 46.4 | 52.1 | 76.4 | 49.1 | 13.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 32.2 | 15.1 | 1.7 | 57.3 | 57.4 | 0.8 | 46.0 | 46.4 | 52.1 | 76.4 | 49.1 | 13.3 |
| LOS | C | B | A | E | E | A | D | D | D | E | D | B |
| Approach Delay | | 16.7 | | | 55.9 | | | 50.4 | | | 38.9 | |
| Approach LOS | | B | | | E | | | D | | | D | |
| Queue Length 50th (ft) | 68 | 184 | 0 | 40 | ~858 | 0 | 74 | 22 | 132 | 122 | 18 | 0 |
| Queue Length 95th (ft) | 140 | 243 | 15 | 68 | #1027 | 6 | 129 | 53 | #317 | #245 | 47 | 83 |
| Internal Link Dist (ft) | | 1882 | | | 1357 | | | 367 | | | 806 | |
| Turn Bay Length (ft) | 860 | | 315 | 510 | | 660 | 200 | | 160 | 315 | | |
| Base Capacity (vph) | 319 | 2049 | 958 | 386 | 1890 | 892 | 261 | 263 | 395 | 217 | 217 | 424 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.52 | 0.42 | 0.08 | 0.27 | 1.03 | 0.07 | 0.43 | 0.12 | 0.92 | 0.82 | 0.12 | 0.64 |

Intersection Summary

| | |
|------------------------------------|---|
| Area Type: | Other |
| Cycle Length: | 120 |
| Actuated Cycle Length: | 120 |
| Offset: | 0 (0%), Referenced to phase 2:NWTL and 6:SETL, Start of Green |
| Natural Cycle: | 90 |
| Control Type: | Actuated-Coordinated |
| Maximum v/c Ratio: | 1.03 |
| Intersection Signal Delay: | 42.9 |
| Intersection LOS: | D |
| Intersection Capacity Utilization: | 94.7% |
| ICU Level of Service: | F |
| Analysis Period (min): | 15 |
| ~ | Volume exceeds capacity, queue is theoretically infinite. Queue shown is maximum after two cycles. |
| # | 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles. |

Splits and Phases: 1: Sneffels St & Mesa Ridge Pkwy



| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 3.8 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 3 | 333 | 6 | 10 | 155 | 66 | 4 | 0 | 7 | 127 | 0 | 6 |
| Future Vol, veh/h | 3 | 333 | 6 | 10 | 155 | 66 | 4 | 0 | 7 | 127 | 0 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | Stop |
| Storage Length | 50 | - | - | 50 | - | 190 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 87 | 87 | 87 | 78 | 78 | 78 | 87 | 87 | 87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 362 | 7 | 11 | 178 | 76 | 5 | 0 | 9 | 146 | 0 | 7 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 254 | 0 | 0 | 369 | 0 | 0 | 610 | 648 | 366 | 576 | 575 | 178 |
| Stage 1 | - | - | - | - | - | - | 372 | 372 | - | 200 | 200 | - |
| Stage 2 | - | - | - | - | - | - | 238 | 276 | - | 376 | 375 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1311 | - | - | 1190 | - | - | 407 | 389 | 679 | 428 | 429 | 865 |
| Stage 1 | - | - | - | - | - | - | 648 | 619 | - | 802 | 736 | - |
| Stage 2 | - | - | - | - | - | - | 765 | 682 | - | 645 | 617 | - |
| Platoon blocked, % | | - | - | - | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1311 | - | - | 1190 | - | - | 400 | 385 | 679 | 419 | 424 | 865 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 400 | 385 | - | 419 | 424 | - |
| Stage 1 | - | - | - | - | - | - | 647 | 618 | - | 800 | 729 | - |
| Stage 2 | - | - | - | - | - | - | 752 | 676 | - | 635 | 616 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|----|--|--|
| HCM Control Delay, s | 0.1 | | | 0.3 | | | 11.8 | | | 18 | | |
| HCM LOS | | | | | | | B | | | C | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 542 | 1190 | - | - | 1311 | - | 429 |
| HCM Lane V/C Ratio | 0.026 | 0.01 | - | - | 0.002 | - | 0.356 |
| HCM Control Delay (s) | 11.8 | 8.1 | - | - | 7.8 | - | 18 |
| HCM Lane LOS | B | A | - | - | A | - | C |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | 1.6 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2.1 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 3 | 295 | 2 | 25 | 125 | 15 | 3 | 0 | 11 | 36 | 0 | 8 |
| Future Vol, veh/h | 3 | 295 | 2 | 25 | 125 | 15 | 3 | 0 | 11 | 36 | 0 | 8 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | 50 | - | - | 50 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 87 | 87 | 87 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 321 | 2 | 29 | 144 | 17 | 4 | 0 | 14 | 46 | 0 | 10 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 161 | 0 | 0 | 323 | 0 | 0 | 544 | 547 | 322 | 537 | 531 | 144 |
| Stage 1 | - | - | - | - | - | - | 328 | 328 | - | 202 | 202 | - |
| Stage 2 | - | - | - | - | - | - | 216 | 219 | - | 335 | 329 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1418 | - | - | 1237 | - | - | 450 | 445 | 719 | 455 | 454 | 903 |
| Stage 1 | - | - | - | - | - | - | 685 | 647 | - | 800 | 734 | - |
| Stage 2 | - | - | - | - | - | - | 786 | 722 | - | 679 | 646 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1418 | - | - | 1237 | - | - | 436 | 434 | 719 | 437 | 443 | 903 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 436 | 434 | - | 437 | 443 | - |
| Stage 1 | - | - | - | - | - | - | 684 | 646 | - | 798 | 717 | - |
| Stage 2 | - | - | - | - | - | - | 759 | 705 | - | 664 | 645 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 0.1 | | | 1.2 | | | 10.9 | | | 13.5 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 631 | 1237 | - | - | 1418 | - | 482 |
| HCM Lane V/C Ratio | 0.028 | 0.023 | - | - | 0.002 | - | 0.117 |
| HCM Control Delay (s) | 10.9 | 8 | - | - | 7.5 | - | 13.5 |
| HCM Lane LOS | B | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | 0 | - | 0.4 |

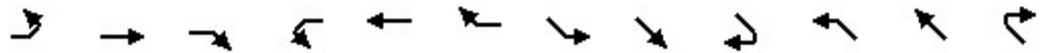
Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

2041 Background + Site
PM

| |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph) | 259 | 2150 | 350 | 250 | 1200 | 122 | 141 | 42 | 114 | 175 | 38 | 200 |
| Future Volume (vph) | 259 | 2150 | 350 | 250 | 1200 | 122 | 141 | 42 | 114 | 175 | 38 | 200 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Storage Length (ft) | 860 | | 315 | 510 | | 660 | 200 | | 160 | 315 | | 0 |
| Storage Lanes | 1 | | 1 | 2 | | 1 | 1 | | 1 | 1 | | 1 |
| Taper Length (ft) | 222 | | | 170 | | | 75 | | | 120 | | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.850 | | | 0.850 | | | 0.850 | | | 0.850 |
| Flt Protected | 0.950 | | | 0.950 | | | 0.950 | | | 0.950 | | |
| Satd. Flow (prot) | 1770 | 3539 | 1583 | 3433 | 3539 | 1583 | 1770 | 1863 | 1583 | 1770 | 1863 | 1583 |
| Flt Permitted | 0.137 | | | 0.950 | | | 0.728 | | | 0.727 | | |
| Satd. Flow (perm) | 255 | 3539 | 1583 | 3433 | 3539 | 1583 | 1356 | 1863 | 1583 | 1354 | 1863 | 1583 |
| Right Turn on Red | | | Yes | | | Yes | | | Yes | | | Yes |
| Satd. Flow (RTOR) | | | 303 | | | 141 | | | 159 | | | 176 |
| Link Speed (mph) | | 55 | | | 55 | | | 25 | | | 25 | |
| Link Distance (ft) | | 1962 | | | 1437 | | | 447 | | | 886 | |
| Travel Time (s) | | 24.3 | | | 17.8 | | | 12.2 | | | 24.2 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.92 | 0.92 | 0.92 | 0.87 | 0.87 | 0.87 |
| Adj. Flow (vph) | 273 | 2263 | 368 | 263 | 1263 | 128 | 153 | 46 | 124 | 201 | 44 | 230 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 273 | 2263 | 368 | 263 | 1263 | 128 | 153 | 46 | 124 | 201 | 44 | 230 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 24 | | | 24 | | | 12 | | | 12 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Number of Detectors | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| Detector Template | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Leading Detector (ft) | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 | 20 | 100 | 20 |
| Trailing Detector (ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Position(ft) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Detector 1 Size(ft) | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 | 20 | 6 | 20 |
| Detector 1 Type | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel | | | | | | | | | | | | |
| Detector 1 Extend (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Queue (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 1 Delay (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Detector 2 Position(ft) | | 94 | | | 94 | | | 94 | | | 94 | |
| Detector 2 Size(ft) | | 6 | | | 6 | | | 6 | | | 6 | |
| Detector 2 Type | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | | | Cl+Ex | |
| Detector 2 Channel | | | | | | | | | | | | |
| Detector 2 Extend (s) | | 0.0 | | | 0.0 | | | 0.0 | | | 0.0 | |
| Turn Type | pm+pt | NA | Perm | Prot | NA | Perm | pm+pt | NA | Perm | pm+pt | NA | Perm |
| Protected Phases | 7 | 4 | | 3 | 8 | | 1 | 6 | | 5 | 2 | |
| Permitted Phases | 4 | | 4 | | | 8 | 6 | | 6 | 2 | | 2 |

Lanes, Volumes, Timings
1: Sneffels St & Mesa Ridge Pkwy

2041 Background + Site
PM

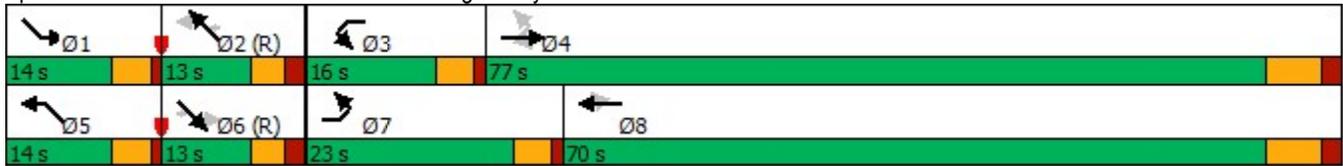


| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | SEL | SET | SER | NWL | NWT | NWR |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Detector Phase | 7 | 4 | 4 | 3 | 8 | 8 | 1 | 6 | 6 | 5 | 2 | 2 |
| Switch Phase | | | | | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 25.0 | 25.0 | 9.5 | 25.0 | 25.0 | 9.5 | 23.0 | 23.0 | 9.5 | 23.0 | 23.0 |
| Total Split (s) | 23.0 | 77.0 | 77.0 | 16.0 | 70.0 | 70.0 | 14.0 | 13.0 | 13.0 | 14.0 | 13.0 | 13.0 |
| Total Split (%) | 19.2% | 64.2% | 64.2% | 13.3% | 58.3% | 58.3% | 11.7% | 10.8% | 10.8% | 11.7% | 10.8% | 10.8% |
| Maximum Green (s) | 18.5 | 70.0 | 70.0 | 11.5 | 63.0 | 63.0 | 9.5 | 8.0 | 8.0 | 9.5 | 8.0 | 8.0 |
| Yellow Time (s) | 3.5 | 5.0 | 5.0 | 3.5 | 5.0 | 5.0 | 3.5 | 3.0 | 3.0 | 3.5 | 3.0 | 3.0 |
| All-Red Time (s) | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.5 | 7.0 | 7.0 | 4.5 | 7.0 | 7.0 | 4.5 | 5.0 | 5.0 | 4.5 | 5.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag |
| Lead-Lag Optimize? | Yes |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Recall Mode | None | C-Max | C-Max | None | C-Max | C-Max |
| Act Effct Green (s) | 85.9 | 70.1 | 70.1 | 11.4 | 67.4 | 67.4 | 18.0 | 8.0 | 8.0 | 18.0 | 8.0 | 8.0 |
| Actuated g/C Ratio | 0.72 | 0.58 | 0.58 | 0.10 | 0.56 | 0.56 | 0.15 | 0.07 | 0.07 | 0.15 | 0.07 | 0.07 |
| v/c Ratio | 0.76 | 1.09 | 0.35 | 0.81 | 0.64 | 0.13 | 0.65 | 0.37 | 0.49 | 0.85 | 0.35 | 0.85 |
| Control Delay | 26.7 | 76.7 | 3.5 | 72.7 | 20.4 | 2.2 | 58.1 | 62.6 | 10.4 | 77.0 | 61.9 | 43.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 26.7 | 76.7 | 3.5 | 72.7 | 20.4 | 2.2 | 58.1 | 62.6 | 10.4 | 77.0 | 61.9 | 43.2 |
| LOS | C | E | A | E | C | A | E | E | B | E | E | D |
| Approach Delay | | 62.7 | | | 27.3 | | | 40.4 | | | 59.2 | |
| Approach LOS | | E | | | C | | | D | | | E | |
| Queue Length 50th (ft) | 71 | ~1044 | 21 | 104 | 337 | 0 | 106 | 35 | 0 | 144 | 33 | 41 |
| Queue Length 95th (ft) | 163 | #1180 | 64 | #169 | 445 | 24 | #176 | 74 | 33 | #264 | 70 | #161 |
| Internal Link Dist (ft) | | 1882 | | | 1357 | | | 367 | | | 806 | |
| Turn Bay Length (ft) | 860 | | 315 | 510 | | 660 | 200 | | 160 | 315 | | |
| Base Capacity (vph) | 421 | 2067 | 1050 | 328 | 1988 | 951 | 236 | 124 | 253 | 236 | 125 | 270 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.65 | 1.09 | 0.35 | 0.80 | 0.64 | 0.13 | 0.65 | 0.37 | 0.49 | 0.85 | 0.35 | 0.85 |

Intersection Summary

| | |
|------------------------------------|---|
| Area Type: | Other |
| Cycle Length: | 120 |
| Actuated Cycle Length: | 120 |
| Offset: | 0 (0%), Referenced to phase 2:NWTL and 6:SETL, Start of Green |
| Natural Cycle: | 150 |
| Control Type: | Actuated-Coordinated |
| Maximum v/c Ratio: | 1.09 |
| Intersection Signal Delay: | 50.1 |
| Intersection LOS: | D |
| Intersection Capacity Utilization: | 96.7% |
| ICU Level of Service: | F |
| Analysis Period (min): | 15 |
| ~ | Volume exceeds capacity, queue is theoretically infinite. Queue shown is maximum after two cycles. |
| # | 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles. |

Splits and Phases: 1: Sneffels St & Mesa Ridge Pkwy



| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2.4 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 5 | 235 | 6 | 15 | 260 | 144 | 2 | 0 | 10 | 82 | 0 | 6 |
| Future Vol, veh/h | 5 | 235 | 6 | 15 | 260 | 144 | 2 | 0 | 10 | 82 | 0 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | Stop |
| Storage Length | 50 | - | - | 50 | - | 190 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 87 | 87 | 87 | 78 | 78 | 78 | 87 | 87 | 87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 5 | 255 | 7 | 17 | 299 | 166 | 3 | 0 | 13 | 94 | 0 | 7 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 465 | 0 | 0 | 262 | 0 | 0 | 685 | 768 | 259 | 608 | 605 | 299 |
| Stage 1 | - | - | - | - | - | - | 269 | 269 | - | 333 | 333 | - |
| Stage 2 | - | - | - | - | - | - | 416 | 499 | - | 275 | 272 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1096 | - | - | 1302 | - | - | 362 | 332 | 780 | 408 | 412 | 741 |
| Stage 1 | - | - | - | - | - | - | 737 | 687 | - | 681 | 644 | - |
| Stage 2 | - | - | - | - | - | - | 614 | 544 | - | 731 | 685 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1096 | - | - | 1302 | - | - | 354 | 326 | 780 | 396 | 405 | 741 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 354 | 326 | - | 396 | 405 | - |
| Stage 1 | - | - | - | - | - | - | 733 | 684 | - | 678 | 636 | - |
| Stage 2 | - | - | - | - | - | - | 600 | 537 | - | 716 | 682 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 0.2 | | | 0.3 | | | 10.7 | | | 16.7 | | |
| HCM LOS | | | | | | | B | | | C | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 650 | 1302 | - | - | 1096 | - | 409 |
| HCM Lane V/C Ratio | 0.024 | 0.013 | - | - | 0.005 | - | 0.247 |
| HCM Control Delay (s) | 10.7 | 7.8 | - | - | 8.3 | - | 16.7 |
| HCM Lane LOS | B | A | - | - | A | - | C |
| HCM 95th %tile Q(veh) | 0.1 | 0 | - | - | 0 | - | 1 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2 | | | | | | | | | | | |
| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | ↖ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 8 | 170 | 5 | 20 | 193 | 60 | 3 | 0 | 15 | 36 | 0 | 8 |
| Future Vol, veh/h | 8 | 170 | 5 | 20 | 193 | 60 | 3 | 0 | 15 | 36 | 0 | 8 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | 50 | - | - | 50 | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 87 | 87 | 87 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 9 | 185 | 5 | 23 | 222 | 69 | 4 | 0 | 19 | 46 | 0 | 10 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 291 | 0 | 0 | 190 | 0 | 0 | 514 | 543 | 188 | 483 | 476 | 222 |
| Stage 1 | - | - | - | - | - | - | 206 | 206 | - | 268 | 268 | - |
| Stage 2 | - | - | - | - | - | - | 308 | 337 | - | 215 | 208 | - |
| Critical Hdwy | 4.12 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1271 | - | - | 1384 | - | - | 471 | 447 | 854 | 494 | 488 | 818 |
| Stage 1 | - | - | - | - | - | - | 796 | 731 | - | 738 | 687 | - |
| Stage 2 | - | - | - | - | - | - | 702 | 641 | - | 787 | 730 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1271 | - | - | 1384 | - | - | 457 | 436 | 854 | 474 | 476 | 818 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 457 | 436 | - | 474 | 476 | - |
| Stage 1 | - | - | - | - | - | - | 790 | 726 | - | 733 | 675 | - |
| Stage 2 | - | - | - | - | - | - | 682 | 630 | - | 764 | 725 | - |

| Approach | SE | | | NW | | | NE | | | SW | | |
|----------------------|-----|--|--|-----|--|--|----|--|--|------|--|--|
| HCM Control Delay, s | 0.3 | | | 0.6 | | | 10 | | | 12.9 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NELn1 | NWL | NWT | NWR | SEL | SET | SERSWLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|----------|
| Capacity (veh/h) | 746 | 1384 | - | - | 1271 | - | 513 |
| HCM Lane V/C Ratio | 0.031 | 0.017 | - | - | 0.007 | - | 0.11 |
| HCM Control Delay (s) | 10 | 7.6 | - | - | 7.9 | - | 12.9 |
| HCM Lane LOS | B | A | - | - | A | - | B |
| HCM 95th %tile Q(veh) | 0.1 | 0.1 | - | - | 0 | - | 0.4 |