

Appendix H:
Traffic Supporting Information

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H.1 - Traffic Analysis



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MAPES & SHERMAN COMMERCE CENTER (DEV2022-003)

TRAFFIC ANALYSIS

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| Reference Number | Agency | Date |
|--------------------|-----------------|----------------|
| 14804-09 TA Report | City of Menifee | April 24, 2023 |

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LIST OF ABBREVIATED TERMS

| | |
|----------|--|
| (1) | Reference |
| ADT | Average Daily Traffic |
| CA MUTCD | California Manual on Uniform Traffic Control Devices |
| Caltrans | California Department of Transportation |
| CEQA | California Environmental Quality Act |
| CMP | Congestion Management Program |
| DIF | Development Impact Fee |
| E+P | Existing Plus Project |
| HCM | Highway Capacity Manual |
| ITE | Institute of Transportation Engineers |
| LOS | Level of Service |
| NP | No (Without) Project |
| OPR | Office of Planning and Research |
| PHF | Peak Hour Factor |
| Project | Mapes & Sherman Commerce Center |
| RTA | Riverside Transit Authority |
| SHS | State Highway System |
| TA | Traffic Analysis |
| TSF | Thousand Square Feet |
| v/c | Volume to Capacity |
| VMT | Vehicle Miles Traveled |
| vphgpl | Vehicles per Hour Green per Lane |
| WP | With Project |
| WRCOG | Western Riverside Council of Governments |

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1 INTRODUCTION

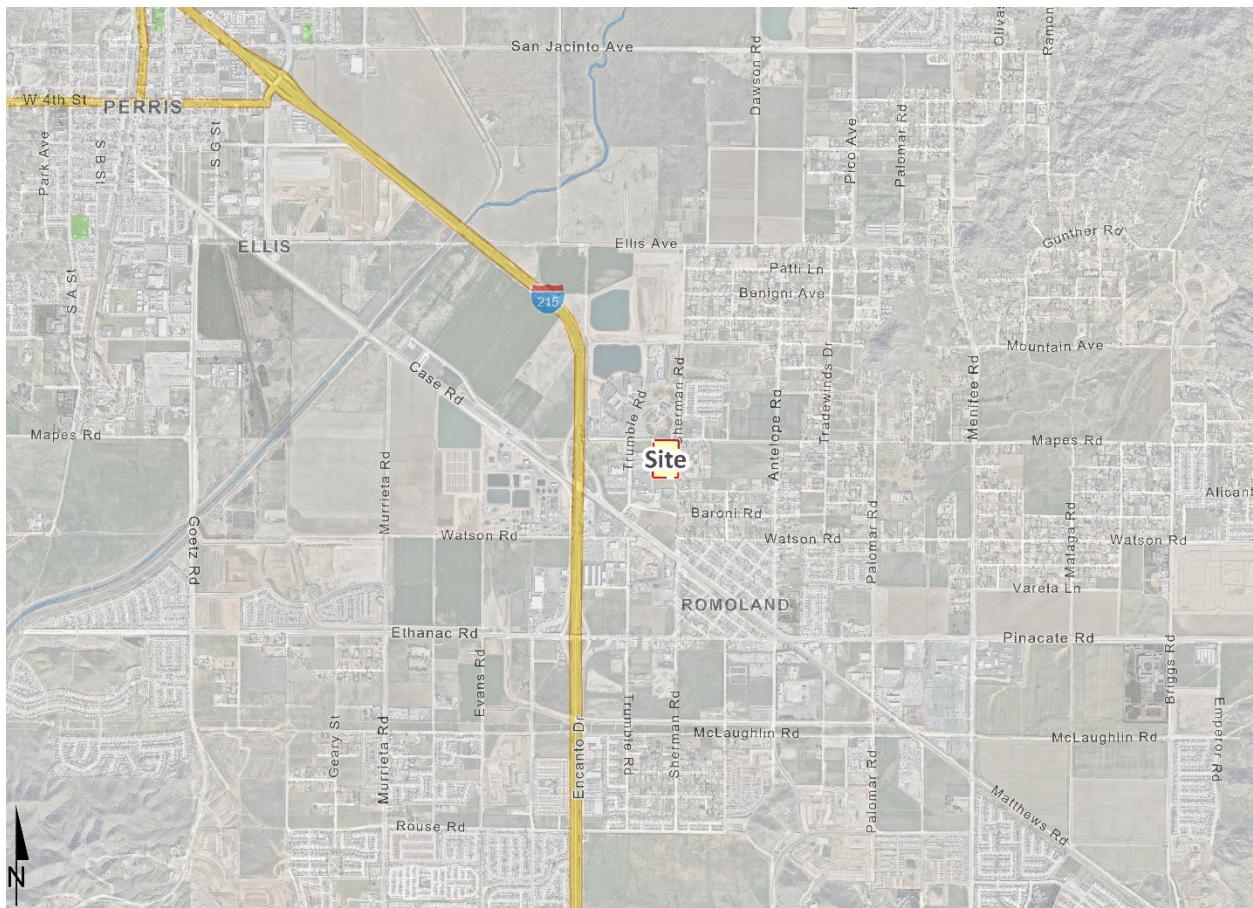
This report presents the results of the Traffic Analysis (TA) for Mapes & Sherman Commerce Center (“Project”), which is located on the southwest corner of Sherman Road and Mapes Road, in the City of Menifee, as shown on Exhibit 1-1. The purpose of this TA is to evaluate the potential circulation system deficiencies that may result from the development of the proposed Project, and where necessary recommend improvements to achieve acceptable operations consistent with General Plan level of service goals and policies. This traffic study has been prepared in accordance with the City’s Traffic Impact Analysis Guidelines for Vehicle Miles Traveled (updated January 2022), City’s LOS Traffic Study Guidelines (revised October 2020), and consultation with City staff during the traffic study scoping process. (1) (2) The approved Project Traffic Study Scoping agreement is provided in Appendix 1.1 of this TA.

1.1 SUMMARY OF FINDINGS

The Project is to construct the following improvements as design features in conjunction with development of the site:

- The proposed driveways on Mapes Road and Sherman Road will be stop controlled for exiting (egress) traffic and will allow for full access. All driveways should accommodate a minimum of 50-foot left turn storage within the painted median with the exception of Driveway 1 on Mapes Road which should accommodate a minimum of 100-feet of storage.
- Project to construct Mapes Road at its ultimate half-section-width as a Major Highway (118-foot right-of-way) from the Project’s western boundary to Sherman Road consistent with the City’s standards. The roadway improvements should include the construction of a raised median consistent with City Standard No. 110 (although a break in the median will allow for full access at Driveway 1). Through lanes along the Project’s frontage will be striped in the interim to transition down to the existing lanes west of the Project, until such time in the future when Mapes Road is widened to its ultimate cross-section to the west.
- Project to construct Sherman Road at its ultimate half-section width as an Industrial Collector (78-foot right-of-way, 56-foot curb-to-curb) from Mapes Road to the Project’s southern boundary consistent with the City’s standards. The roadway will be striped along the Project’s frontage to provide the appropriate lanes and transitions between the existing lanes to the south of the Project.
- The eastbound approach at the intersection of Sherman Road and Mapes Road should be improved to accommodate an eastbound left turn lane with a minimum of 100-feet of storage, an eastbound through lane, and an eastbound right turn lane (trap lane with no specified storage length).

Additional details and intersection lane geometrics are provided in Section 1.6 *Recommendations* of this report. The proposed Project is not anticipated to require the construction of any off-site improvements. However, the Project would contribute to improvement needs identified at off-site intersections for future near-term cumulative traffic study scenarios. The Project Applicant’s responsibility (proportional share) towards deficient off-site intersections is fulfilled through a combination of construction, payment of fair share, and/or payment into pre-existing fee programs (if applicable) that would be assigned to the future construction of the identified recommended improvements. The Project Applicant would be required to pay requisite fees and/or fair share contributions consistent with the City’s requirements (see Section 7 *Local and Regional Funding Mechanisms*).

EXHIBIT 1-1: LOCATION MAP

1.2 PROJECT OVERVIEW

A preliminary site plan for the proposed Project is shown on Exhibit 1-2. The Project is proposed to consist of the development of 277,578 square feet of high-cube fulfillment center warehouse use within a single building. As indicated on Exhibit 1-2, vehicular access will be accommodated via Mapes Road and Sherman Road for both passenger cars and trucks (with primary truck access on Mapes Road and secondary truck access on Sherman Road). Driveway 2 on Mapes Road will be restricted to right-in/right-out access only (controlled by the raised median) and all other driveways will allow for full access. Regional access to the Project site is accommodated from the I-215 Freeway via SR-74. The Project is anticipated to have an Opening Year of 2024. Trip-generation statistics published in the [High Cube Warehouse Trip Generation Study](#) (WSP, January 2019) and the Institute of Transportation Engineers (ITE) [Trip Generation Manual](#) (11th Edition, 2021) have been used to develop the traffic characteristics of the proposed Project. (3) (4) The Project is anticipated to generate a net total of 592 two-way trips per day with 35 AM peak hour trips and 46 PM peak hour trips (actual vehicles). The assumptions and methods used to estimate the Project's trip generation characteristics are discussed in greater detail in Section 4.1 *Project Trip Generation* of this report.

1.3 ANALYSIS SCENARIOS

For the purposes of this traffic study, potential deficiencies to traffic and circulation have been assessed for each of the following conditions:

- Existing (2022) Conditions
- Existing plus Project (E+P) Conditions
- Opening Year Cumulative (2024) Without Project Conditions
- Opening Year Cumulative (2024) With Project Conditions

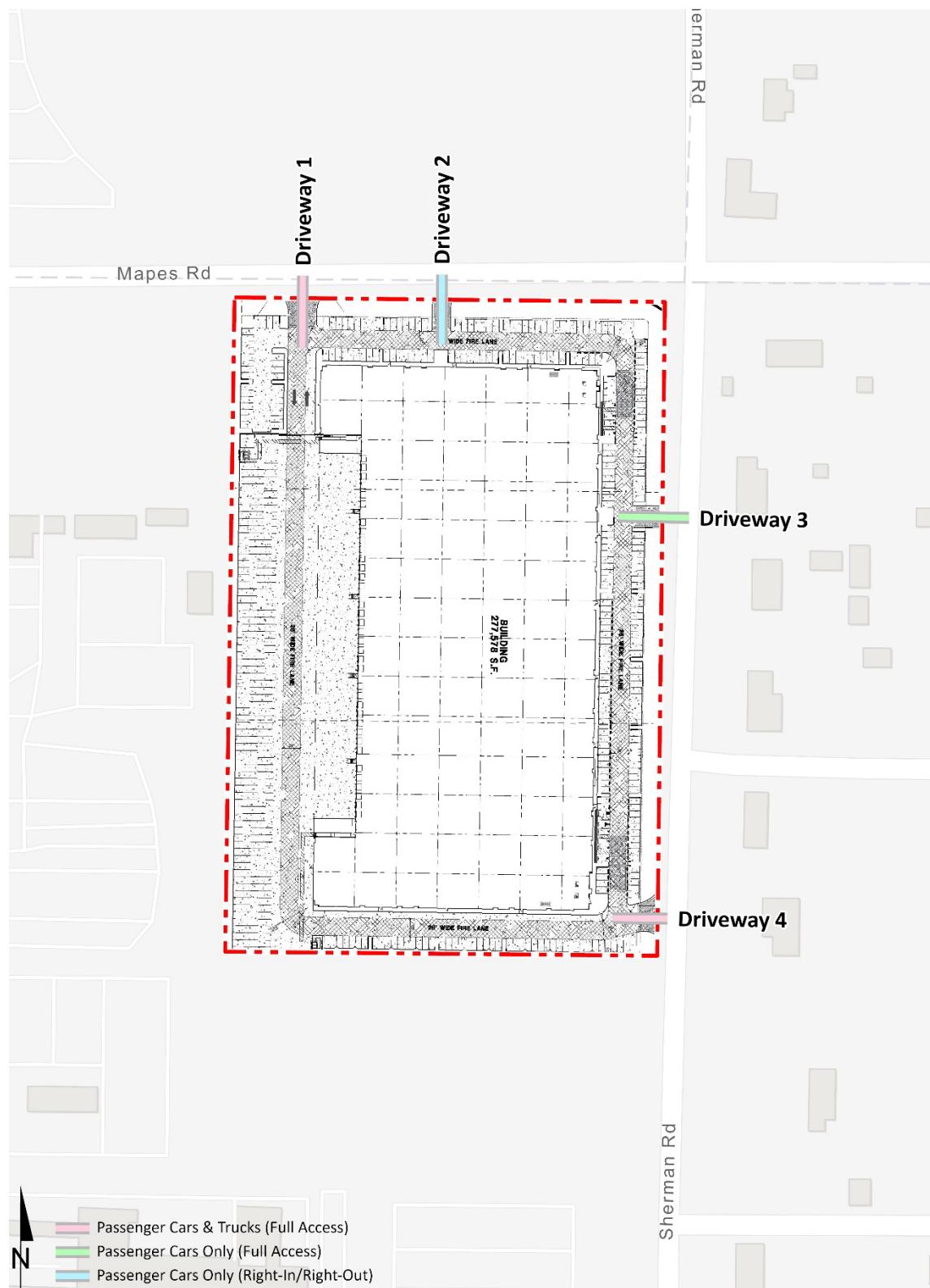
1.3.1 EXISTING (2022) CONDITIONS

Information for Existing (2022) conditions is disclosed to represent the baseline traffic conditions as they existed at the time this report was prepared. Local schools were in session with in-person instruction at the time of the traffic counts. Traffic counts were conducted in October 2021 and a 2% growth adjustment factor has been applied to reflect 2022 traffic conditions.

1.3.2 EXISING PLUS PROJECT CONDITIONS

The Existing plus Project (E+P) conditions analysis determines the potential circulation system deficiencies based on a comparison of the E+P traffic conditions to Existing conditions. The roadway network is similar to Existing conditions except for new connections to be constructed by the Project. Cumulative development projects and ambient growth are not included for E+P traffic conditions.

EXHIBIT 1-2: PRELIMINARY SITE PLAN



1.3.3 OPENING YEAR CUMULATIVE (2024) CONDITIONS

The Opening Year Cumulative (2024) traffic conditions analysis determines the potential near-term cumulative circulation system deficiencies. To account for growth in traffic between Existing (2022) traffic conditions and the Project Opening Year Cumulative (2024), a growth rate of 4.04 percent was assumed (2.0 percent per year, compounded annually over 2 years). The roadway network is similar to Existing conditions except for new connections to be constructed by the Project. Conservatively, this TA adds traffic generated by other known or probable related projects to the existing baseline condition, although it may not be feasible that these projects would be completed by Year 2024. The resulting traffic growth utilized in the TA (traffic generated by related projects) will therefore tend to overstate rather than understate background cumulative traffic deficiencies under 2024 traffic conditions.

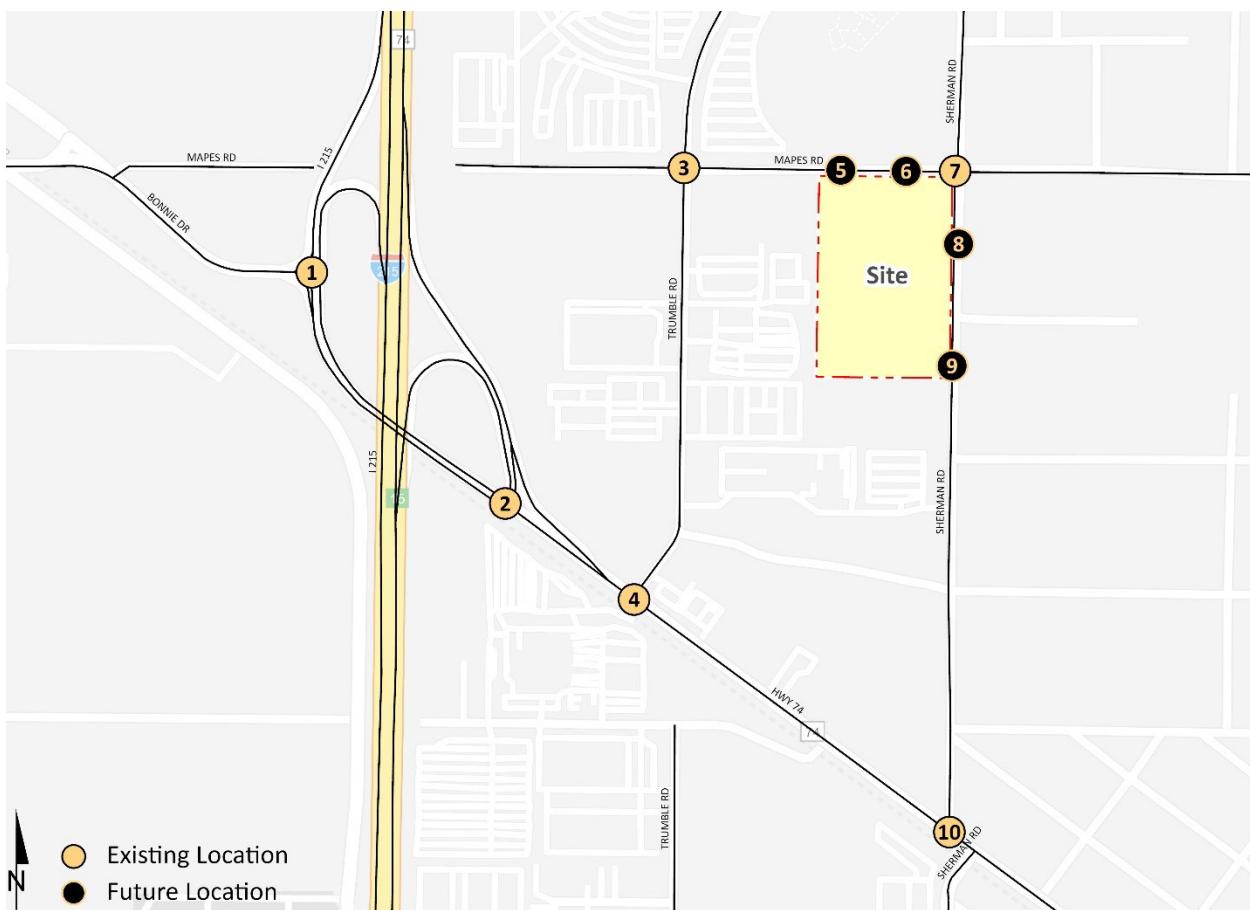
1.4 STUDY AREA

To ensure that this TA satisfies the City of Menifee's traffic study requirements, Urban Crossroads, Inc. prepared a Project traffic study scoping package for review by City of Menifee staff prior to the preparation of this report. This agreement provides an outline of the Project study area, trip generation, trip distribution, and analysis methodology. The scoping agreement is included in Appendix 1.1 of this TA.

The 10 study area intersections shown on Exhibit 1-3 and listed in Table 1-1 were selected for evaluation in this TA. At a minimum, the study area includes intersections where the Project is anticipated to contribute 50 or more peak hour trips per the City's traffic study guidelines. (2) The "50 peak hour trip" criterion represents a minimum number of trips at which a typical intersection would have the potential to be affected by a given development proposal. The 50 peak hour trip criterion is a traffic engineering rule of thumb that is accepted and widely used within the City for estimating a potential area of influence (i.e., study area).

TABLE 1-1: INTERSECTION ANALYSIS LOCATIONS

| ID | Intersection | Jursidiction | CMP? |
|----|-----------------------------------|------------------|------|
| 1 | I-215 SB Ramps/SR-74 & Bonnie Dr. | Caltrans/Perris | Yes |
| 2 | I-215 NB Ramps & SR-74 | Caltrans/Perris | Yes |
| 3 | Trumble Rd. & Mapes Rd. | Menifee/Perris | No |
| 4 | Trumble Rd. & SR-74 | Menifee/Caltrans | No |
| 5 | Dwy 1 & Mapes Rd. | Menifee/Perris | No |
| 6 | Dwy 2 & Mapes Rd. | Menifee/Perris | No |
| 7 | Sherman Rd. & Mapes Rd. | Menifee/Perris | No |
| 8 | Sherman Rd. & Dwy 3 | Menifee | No |
| 9 | Sherman Rd. & Dwy 4 | Menifee | No |
| 10 | Sherman Rd. & SR-74 | Menifee/Caltrans | No |

EXHIBIT 1-3: STUDY AREA

The intent of a CMP is to more link land use, transportation, and air quality, thereby prompting reasonable growth management programs that will effectively utilize new transportation funds, alleviate traffic congestion and related deficiencies, and improve air quality. The County of Riverside CMP became effective with the passage of Proposition 111 in 1990 and most recently updated in 2019 as part of the Riverside County Long Range Transportation Study. The Riverside County Transportation Commission (RCTC) adopted the 2019 CMP for the County of Riverside in December 2019. (5) The two I-215 Freeway ramps on SR-74 are identified as Riverside County CMP intersections.

1.5 DEFICIENCIES

This section provides a summary of deficiencies by analysis scenario. Section 2 *Methodologies* provides information on the methodologies used in the analysis and Section 5 *E+P Traffic Conditions* and Section 6 *Opening Year Cumulative (2024) Traffic Conditions* includes the detailed analysis. A summary of level of service (LOS) results for all analysis scenarios is presented on Table 1-2.

TABLE 1-2: SUMMARY OF LOS

| # Intersection | Existing | | E+P | | 2024 Without Project | | 2024 With Project | |
|-------------------------------------|----------|-----|-----|----|----------------------|-----|-------------------|----|
| | AM | PM | AM | PM | AM | PM | AM | PM |
| 1 I-215 SB Ramps/SR-74 & Bonnie Dr. | ● | ● | ● | ● | ● | ● | ● | ● |
| 2 I-215 NB Ramps & SR-74 | ● | ● | ● | ● | ● | ● | ● | ● |
| 3 Trumble Rd. & Mapes Rd. | ● | ● | ● | ● | ● | ● | ● | ● |
| 4 Trumble Rd. & SR-74 | ● | ● | ● | ● | ● | ● | ● | ● |
| 5 Dwy 1 & Mapes Rd. | N/A | N/A | ● | ● | N/A | N/A | ● | ● |
| 6 Dwy 2 & Mapes Rd. | N/A | N/A | ● | ● | N/A | N/A | ● | ● |
| 7 Sherman Rd. & Mapes Rd. | ● | ● | ● | ● | ● | ● | ● | ● |
| 8 Sherman Rd. & Dwy 3 | N/A | N/A | ● | ● | N/A | N/A | ● | ● |
| 9 Sherman Rd. & Dwy 4 | N/A | N/A | ● | ● | N/A | N/A | ● | ● |
| 10 Sherman Rd. & SR-74 | ● | ● | ● | ● | ● | ● | ● | ● |

● = A - D ○ = E ● = F

1.5.1 EXISTING (2022) CONDITIONS

Intersections

The study area intersections are currently operating at an acceptable LOS during the peak hours.

Freeway Off-Ramp Queues

There are no movements that are currently experiencing queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows.

1.5.2 E+P CONDITIONS

Intersections

The study area intersections are anticipated to continue to operate at an acceptable LOS during the peak hours with the addition of Project traffic under E+P traffic conditions.

Freeway Off-Ramp Queues

There are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows with the addition of Project traffic for E+P traffic conditions.

1.5.3 OPENING YEAR CUMULATIVE (2024) CONDITIONS

Intersections

The following study area intersections are anticipated to operate at an unacceptable LOS under Opening Year Cumulative (2024) Without Project traffic conditions:

- I-215 Southbound Ramps/SR-74 & Bonnie Dr. (#1) – LOS E PM peak hour only
- Trumble Road & Mapes Road (#3) – LOS F PM peak hour only
- Sherman Road & SR-74 (#4) – LOS F AM and PM peak hour

There are no additional intersections anticipated to operate at a deficient LOS with the addition of Project traffic.

Freeway Off-Ramp Queues

There are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows for Opening Year Cumulative (2024) Without and With Project traffic conditions.

1.6 RECOMMENDATIONS

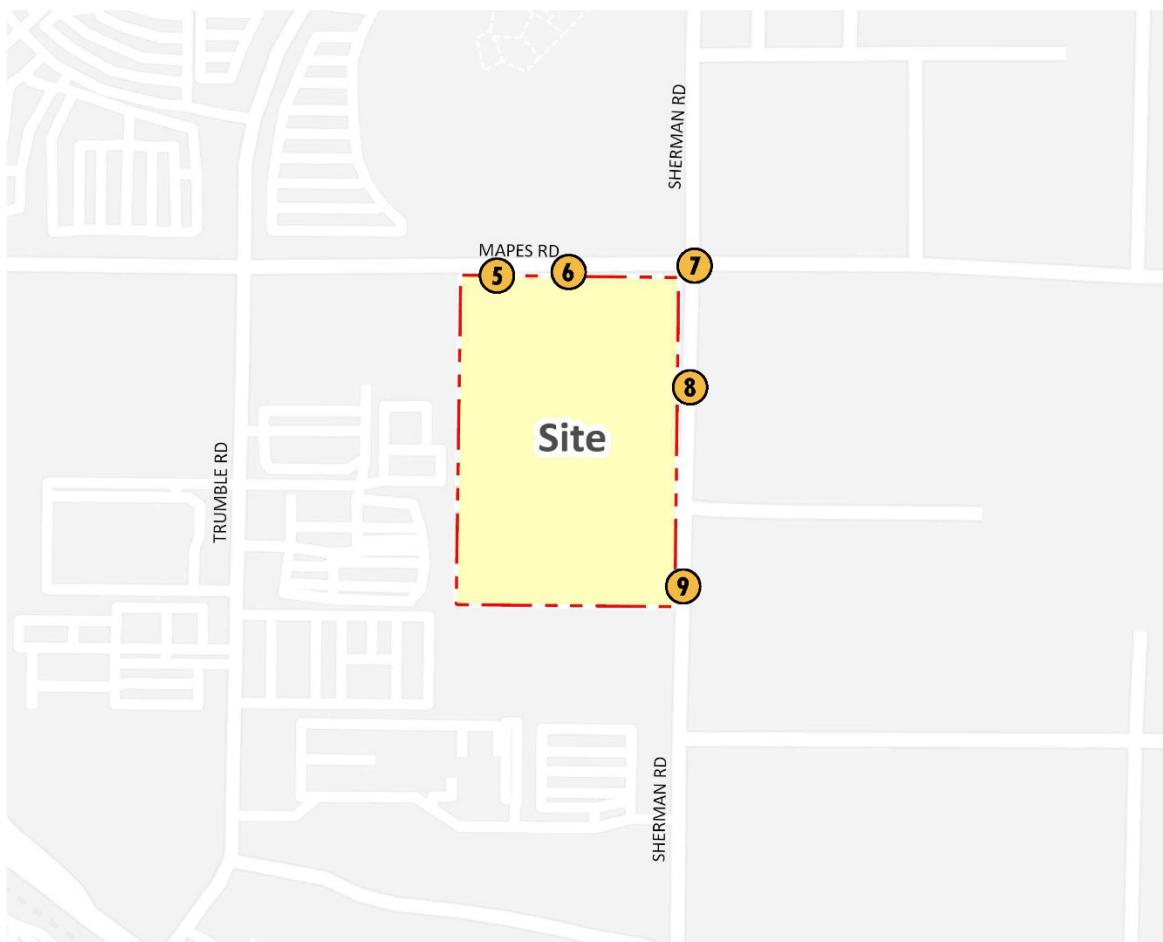
1.6.1 SITE ADJACENT AND SITE ACCESS RECOMMENDATIONS

The following recommendations are based on the minimum improvements needed to accommodate site access and maintain acceptable peak hour operations for the proposed Project. The site adjacent recommendations are shown on Exhibits 1-4.

Recommendation 1 – Driveway 1 & Mapes Road (#5) – The following improvements are necessary to accommodate site access:

- Project will install a stop control on the northbound approach.
- Improvement will include accommodating a minimum 100-foot westbound left turn lane.
- Project will install truck turn restriction signage to restrict trucks from making right turns out of Driveway 1.

EXHIBIT 1-4: SITE ACCESS RECOMMENDATIONS



| 5 See Note A | Dwy. 1 & Mapes Rd. | 6 | Dwy. 2 & Mapes Rd. | 7 | Sherman Rd. & Mapes Rd. | 8 See Note A | Sherman Rd. & Dwy. 3 | 9 | Sherman Rd. & Dwy. 4 |
|-----------------|-----------------------|---|-----------------------|---|----------------------------|-----------------|-------------------------|---|-------------------------|
| | | | | | | | | | |

- = Stop Sign Improvement
- = Existing Lane
- = Lane Improvement
- = Recommended Turn Pocket Length
- = Defacto Right Turn

Note A: The Project will install truck turn restriction signage to restrict trucks from making right turns out of the driveway.

Recommendation 2 –Driveway 2 & Mapes Road (#6) – The following improvements are necessary to accommodate site access:

- Project will install a stop control on the northbound approach. This driveway will be restricted to right-in/right-out access only via the raised median.
- Half-section roadway improvement will accommodate a 2nd eastbound shared through-right turn lane.

Recommendation 3 – Sherman Road & Mapes Road (#7) – The following improvements are recommended to accommodate 95th percentile queues and site adjacent roadway improvements:

- Project will improve the intersection to accommodate a 100-foot eastbound left turn pocket and the half-section roadway improvement on Mapes Road will accommodate a dedicated eastbound right turn pocket (trap lane with no pocket length).

Recommendation 4 –Sherman Road & Driveway 3 (#8) – The following improvements are necessary to accommodate site access:

- Project will install a stop control on the eastbound approach.
- Improvement will include accommodating a minimum 50-foot northbound left turn lane.

Recommendation 5 –Sherman Road & Driveway 4 (#9) – The following improvement is necessary to accommodate site access:

- Project will install a stop control on the eastbound approach.
- Improvement will include accommodating a minimum 50-foot northbound left turn lane.
- Project will install truck turn restriction signage to restrict trucks from making right turns out of Driveway 4.

Recommendation 6 – Mapes Road – Mapes Road is an east-west roadway located along the Project's northern boundary. Project to construct Mapes Road at its ultimate half-section-width as a Major Highway (118-foot right-of-way) from the Project's western boundary to Sherman Road consistent with the City's standards. The roadway improvements should include the construction of a raised median consistent with City Standard No. 110 (although a break in the median will allow for full access at Driveway 1 only). Through lanes along the Project's frontage will be striped in the interim to transition down to the existing lanes west of the Project, until such time in the future when Mapes Road is widened to its ultimate cross-section to the west.

Recommendation 7 – Sherman Road – Sherman Road is a north-south roadway located along the Project's eastern boundary. Project to construct Sherman Road at its ultimate half-section width as an Industrial Collector (78-foot right-of-way, 56-foot curb-to-curb) from Mapes Road to the Project's southern boundary consistent with the City's standards. The roadway will be striped along the Project's frontage to provide the appropriate lanes and transitions between the existing lanes to the south of the Project.

On-site traffic signing and striping will be implemented agreeable with the provisions of the California Manual on Uniform Traffic Control Devices (CA MUTCD) and in conjunction with detailed construction plans for the Project site.

Sight distance at each project access point will be reviewed with respect to standard Caltrans and City of Menifee sight distance standards at the time of preparation of final grading, landscape, and street improvement plans.

1.6.2 QUEUING ANALYSIS AT THE PROJECT DRIVEWAYS

A queuing analysis was conducted at the study area intersections for Opening Year Cumulative (2024) With Project traffic conditions to determine the turn pocket lengths necessary to accommodate 95th percentile queues. The analysis was conducted for the weekday AM and weekday PM peak hours. The results have been provided in Appendix 1.2.

SimTraffic is designed to model networks of signalized and unsignalized intersections, with the primary purpose of checking and fine-tuning signal operations. SimTraffic uses the input parameters from Synchro to generate random simulations. The 95th percentile queue is derived from the average queue plus 1.65 standard deviations. A vehicle is considered queued whenever it is traveling at less than 10 feet/second. The random simulations generated by SimTraffic have been utilized to determine the 95th percentile queue lengths observed for each turn movement. A SimTraffic simulation has been recorded five (5) times, during the weekday AM and weekday PM peak hours, and has been seeded for 15-minute periods with 60-minute recording intervals.

1.6.3 OFF-SITE RECOMMENDATIONS

The recommended improvements needed to address the cumulative deficiencies identified under E+P and Opening Year Cumulative (2024) traffic conditions are shown in Table 1-3. Improvements that appear under E+P traffic conditions would be the Project's responsibility to construct to maintain acceptable LOS. As shown, there are no improvements identified for E+P traffic conditions. For those improvements listed in Table 1-3 and not constructed as part of the Project, the Project Applicant's responsibility for the Project's contributions towards deficient intersections is fulfilled through a combination of participation in pre-existing fee programs such as the City's Development Impact Fees (DIF) program or payment of fair share that would be assigned to construction of the identified recommended improvements. The Project Applicant would be required to pay fair share fees consistent with the City's requirements (see Section 7 *Local and Regional Funding Mechanisms*). As an exception, if a project contributes fewer than 50 peak hour trips to a pre-project deficient intersection, then fair share contribution by the project is not applicable.

1.7 TRUCK ACCESS

Due to the typical wide turning radius of large trucks, a truck turning template has been overlaid on the site plan at each applicable Project driveway anticipated to be utilized by heavy trucks in order to determine appropriate curb radii and to verify that trucks will have sufficient space to execute turning maneuvers (see Exhibit 1-5). A WB-67 truck (53-foot trailer) has been utilized for the purposes of this analysis. As shown on Exhibit 1-5, the Project as designed is anticipated to accommodate the ingress and egress of heavy trucks. Furthermore, the curb radius proposed for the southeast corner of Driveway 1 on Mapes Road, and the southwest corner of Driveway 4 on Sherman Road are purposely reduced in order to physically prohibit trucks from making a right turn from the driveways. The trucks for the proposed Project would circulate to and from the I-215 Freeway via Trumble Road (no trucks south on Sherman Road towards SR-74).

TABLE 1-3: SUMMARY OF IMPROVEMENTS BY ANALYSIS SCENARIO

| # | Intersection Location | Jurisdiction | Analysis Scenario 2024 With Project | Improvements in DIF, TUMF, etc. ¹ | Project Responsibility ² | Project Fair Share ³ |
|---|-----------------------------------|------------------|--|---|--|------------------------------------|
| 1 | I-215 SB Ramps/SR-74 & Bonnie Dr. | Perris/Caltrans | - Add 2nd NB left turn lane | No | Not Applicable ⁴ | -- |
| 3 | Trumble Rd. & Mapes Rd. | Menifee/Perris | - Install a Traffic Signal | No | Fair Share ⁵ | 6.3% |
| 4 | Trumble Rd. & SR-74 | Menifee/Caltrans | - Add 2nd EB left turn lane | No | Not Applicable ⁴ | -- |
| 7 | Sherman Rd. & Mapes Rd. | Menifee/Perris | - Install a Traffic Signal | No | Fair Share ⁵ | 1.7% |

¹ Improvements included in WRCOG TUMF Nexus have been identified as such. Traffic signals included in the City's DIF should be verified to determine any applicable credit.

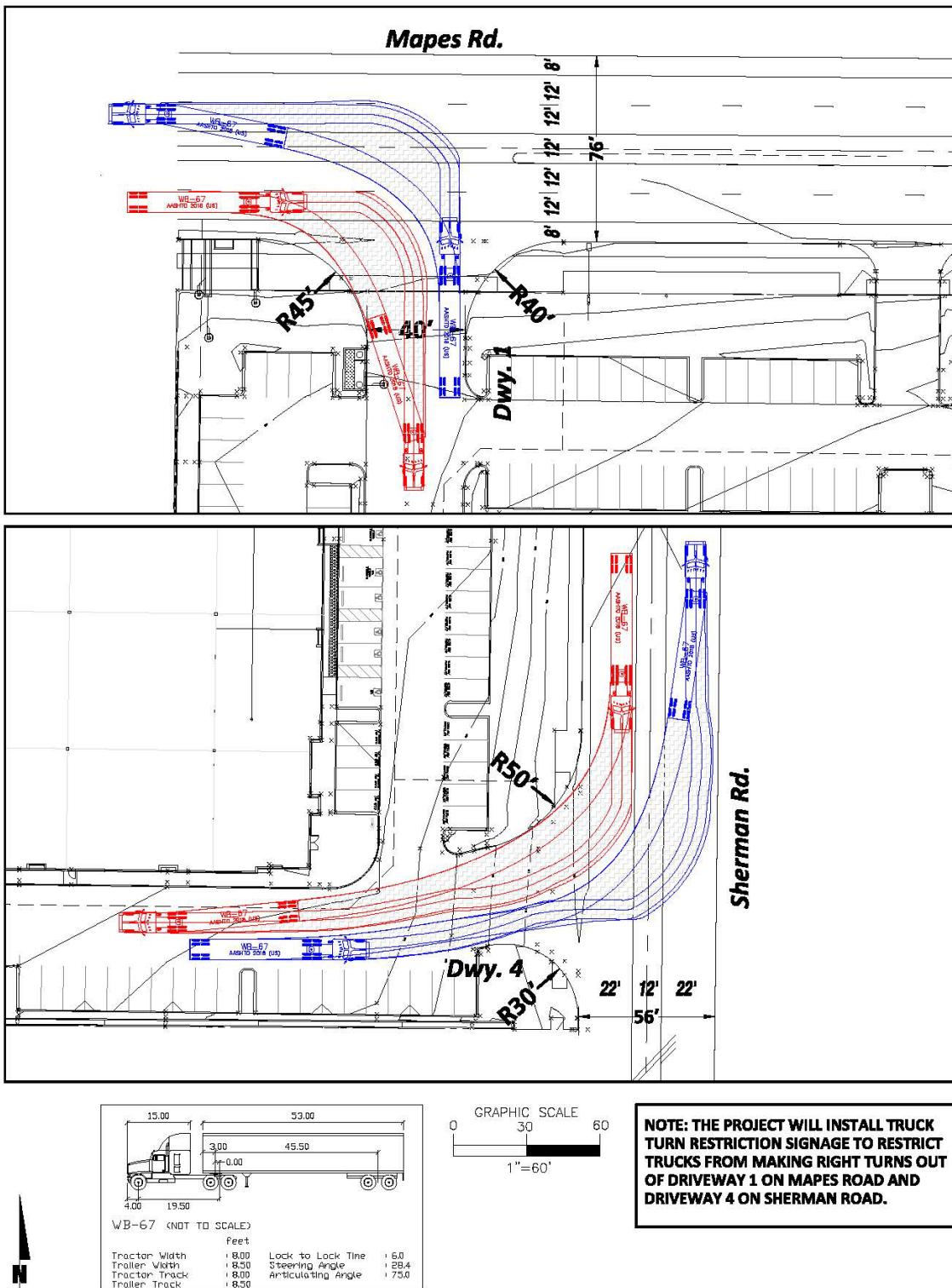
² Program improvements constructed by Project may be eligible for fee credit. In lieu fee payment is at discretion of City.

³ As shown, total project fair share is applicable to the improvements which are not already included in the City DIF/TUMF.

⁴ Project fair share is not applicable pursuant to discussions with City staff (Project contributes no more than 50 peak hour trips to the deficient intersection).

⁵ Intersection is included in the City's Traffic Signal Project List (Table 5.4 of the Nexus Study), however, only covers up to \$350,000.

EXHIBIT 1-5: TRUCK ACCESS



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2 METHODOLOGIES

This section of the report presents the methodologies used to perform the traffic analyses summarized in this report. The methodologies described are consistent with City of Menifee's Traffic Study Guidelines. (2)

2.1 LEVEL OF SERVICE

Traffic operations of roadway facilities are described using the term "Level of Service" (LOS). LOS is a qualitative description of traffic flow based on several factors, such as speed, travel time, delay, and freedom to maneuver. Six levels are typically defined ranging from LOS A, representing completely free-flow conditions, to LOS F, representing breakdown in flow resulting in stop-and-go conditions. LOS E represents operations at or near capacity, an unstable level where vehicles are operating with the minimum spacing for maintaining uniform flow.

2.2 INTERSECTION CAPACITY ANALYSIS

The definitions of LOS for interrupted traffic flow (flow restrained by the existence of traffic signals and other traffic control devices) differ slightly depending on the type of traffic control. The LOS is typically dependent on the quality of traffic flow at the intersections along a roadway. The 6th Edition Highway Capacity Manual (HCM) methodology expresses the LOS at an intersection in terms of delay time for the various intersection approaches. (6) The HCM uses different procedures depending on the type of intersection control.

2.2.1 SIGNALIZED INTERSECTIONS

The City of Menifee, City of Perris, and the California Department of Transportation (Caltrans) require signalized intersection operations analysis based on the methodology described in the HCM. (6) Intersection LOS operations are based on an intersection's average control delay. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. For signalized intersections LOS is related to the average control delay per vehicle and is correlated to a LOS designation as described on Table 2-1.

The traffic modeling and signal timing optimization software package Synchro (Version 11) is utilized to analyze signalized intersections within the study area. Synchro is a macroscopic traffic software program that is based on the signalized intersection capacity analysis as specified in the HCM. Macroscopic level models represent traffic in terms of aggregate measures for each movement at the study intersections. Equations are used to determine measures of effectiveness such as delay and queue length. The level of service and capacity analysis performed by Synchro takes into consideration optimization and coordination of signalized intersections within a network.

TABLE 2-1: SIGNALIZED INTERSECTION LOS THRESHOLDS

| Description | Average Control Delay (Seconds), V/C ≤ 1.0 | Level of Service, V/C ≤ 1.0 ¹ |
|---|---|---|
| Operations with very low delay occurring with favorable progression and/or short cycle length. | 0 to 10.00 | A |
| Operations with low delay occurring with good progression and/or short cycle lengths. | 10.01 to 20.00 | B |
| Operations with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear. | 20.01 to 35.00 | C |
| Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, or high V/C ratios. Many vehicles stop and individual cycle failures are noticeable. | 35.01 to 55.00 | D |
| Operations with high delay values indicating poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences. This is considered to be the limit of acceptable delay. | 55.01 to 80.00 | E |
| Operation with delays unacceptable to most drivers occurring due to over saturation, poor progression, or very long cycle lengths. | 80.01 and up | F |

Source: HCM, 6th Edition

¹ If V/C is greater than 1.0 then LOS is F per HCM.

The traffic modeling and signal timing optimization software package Synchro (Version 11) has been utilized to analyze signalized intersections. Synchro is a macroscopic traffic software program that is based on the signalized intersection capacity analysis as specified in the HCM. Macroscopic level models represent traffic in terms of aggregate measures for each movement at the study intersections. Equations are used to determine measures of effectiveness such as delay and queue length. The level of service and capacity analysis performed by Synchro takes into consideration optimization and coordination of signalized intersections within a network.

The peak hour traffic volumes have been adjusted using a peak hour factor (PHF) to reflect peak 15-minute volumes. Customary practice for LOS analysis is to use a peak 15-minute rate of flow. However, flow rates are typically expressed in vehicles per hour. The PHF is the relationship between the peak 15-minute flow rate and the full hourly volume (e.g., PHF = [Hourly Volume] / [4 x Peak 15-minute Flow Rate]). The use of a 15-minute PHF produces a more detailed analysis as compared to analyzing vehicles per hour. Existing PHFs have been used for all analysis scenarios. Per the HCM, PHF values over 0.95 often are indicative of high traffic volumes with capacity constraints on peak hour flows while lower PHF values are indicative of greater variability of flow during the peak hour. (6)

2.2.2 UNSIGNALIZED INTERSECTIONS

The City of Menifee, City of Perris, and Caltrans require the operations of unsignalized intersections be evaluated using the methodology described in the HCM. (6) The LOS rating is based on the weighted average control delay expressed in seconds per vehicle (see Table 2-2). At two-way or side-street stop-controlled intersections, LOS is calculated for each controlled movement and for the left turn movement from the major street, as well as for the intersection as a whole. For approaches composed of a single lane, the delay is computed as the average of all movements in that lane. Delay for the intersection is reported for the worst individual movement at a two-way stop-controlled intersection. For all-way stop controlled intersections, LOS is computed for the intersection as a whole (average delay).

TABLE 2-2: UNSIGNALIZED INTERSECTION LOS THRESHOLDS

| Description | Average Control Delay (Seconds), V/C ≤ 1.0 | Level of Service, V/C ≤ 1.0 ¹ |
|---|---|---|
| Little or no delays. | 0 to 10.00 | A |
| Short traffic delays. | 10.01 to 15.00 | B |
| Average traffic delays. | 15.01 to 25.00 | C |
| Long traffic delays. | 25.01 to 35.00 | D |
| Very long traffic delays. | 35.01 to 50.00 | E |
| Extreme traffic delays with intersection capacity exceeded. | > 50.00 | F |

Source: HCM, 6th Edition

¹ If V/C is greater than 1.0 then LOS is F per HCM.

2.3 TRAFFIC SIGNAL WARRANT ANALYSIS METHODOLOGY

The term "signal warrants" refers to the list of established criteria used by the Caltrans and other public agencies to quantitatively justify or ascertain the potential need for installation of a traffic signal at an otherwise unsignalized intersection. This TA uses the signal warrant criteria presented in the latest edition of the Caltrans California Manual on Uniform Traffic Control Devices (CA MUTCD) for all study area intersections. (7)

The signal warrant criteria for Existing conditions are based upon several factors, including volume of vehicular and pedestrian traffic, frequency of accidents, and location of school areas. The Caltrans CA MUTCD indicates that the installation of a traffic signal will be considered if one or more of the signal warrants are met. (7) Specifically, this TA utilizes the Peak Hour Volume-based Warrant 3 as the appropriate representative traffic signal warrant analysis for existing study area intersections for all analysis scenarios. Warrant 3 is appropriate to use for this TA because it provides specialized warrant criteria for intersections with rural characteristics (e.g., located in communities with populations of less than 10,000 persons or with adjacent major streets operating above 40 miles per hour). For the purposes of this study, the speed limit was the basis for determining whether Urban or Rural warrants were used for a given intersection. Traffic signal warrant analyses were performed for the following study area intersection shown in Table 2-3.

TABLE 2-3: TRAFFIC SIGNAL WARRANT ANALYSIS LOCATIONS

| ID | Intersection | Jursidiction |
|----|-------------------------|----------------|
| 3 | Trumble Rd. & Mapes Rd. | Menifee/Perris |
| 5 | Dwy 1 & Mapes Rd. | Menifee/Perris |
| 6 | Dwy 2 & Mapes Rd. | Menifee/Perris |
| 7 | Sherman Rd. & Mapes Rd. | Menifee/Perris |
| 8 | Sherman Rd. & Dwy 3 | Menifee |
| 9 | Sherman Rd. & Dwy 4 | Menifee |

Traffic signal warrant analyses were performed for all of the full access unsignalized study area intersections, as such, traffic signal warrants have not been performed at the intersection of Sherman Road and SR-74 (which has limited access) or any of the signalized intersections. The traffic signal warrant analysis for Existing (2022) conditions are presented in Section 3 *Existing (2022) Traffic Analysis*. The traffic signal warrant analyses for future conditions are presented in Section 5 *E+P Traffic Analysis*, and Section 6 *Opening Year Cumulative (2024) Traffic Analysis* of this report.

It is important to note that a signal warrant defines the minimum condition under which the installation of a traffic signal might be warranted. Meeting this threshold condition does not require that a traffic control signal be installed at a particular location, but rather, that other traffic factors and conditions be evaluated in order to determine whether the signal is truly justified. It should also be noted that signal warrants do not necessarily correlate with LOS. An intersection may satisfy a signal warrant condition and operate at or above acceptable LOS or operate below acceptable LOS and not meet a signal warrant.

2.4 QUEUING ANALYSIS

Consistent with Caltrans requirements, the 95th percentile queuing of vehicles has been assessed at the off-ramps to determine potential queuing deficiencies at the freeway ramp intersections at the I-215 Freeway at the SR-74 interchange. Specifically, the off-ramp queuing analysis is utilized to identify any potential queuing and “spill back” onto the I-215 Freeway mainline from the off-ramps. The 95th percentile queue has also been utilized to assess the queues at SR-74 to identify any potential queuing.

The traffic progression analysis tool and HCM intersection analysis program, Synchro, has been used to assess the potential deficiencies/needs of the intersections with traffic added from the proposed Project. Storage (turn-pocket) length recommendations at the ramps have been based upon the 95th percentile queue resulting from the Synchro progression analysis. The footnote from the Synchro output sheets indicates if the 95th percentile cycle exceeds capacity. Traffic is simulated for two complete cycles of the 95th percentile traffic in Synchro in order to account for the effects of spillover between cycles. In practice, the 95th percentile queue shown will rarely be exceeded and the queues shown with the footnote are acceptable for the design of storage bays. The 95th percentile queue is derived from the average queue plus 1.65 standard deviations. The 95th percentile queue is not necessarily ever observed it is simply based on statistical calculations.

2.5 MINIMUM ACCEPTABLE LEVELS OF SERVICE (LOS)

2.5.1 CITY OF MENIFEE

Per Policy C-1.2 of the City of Menifee General Plan, the following LOS will be utilized for study area intersections located within the City:

The City of Menifee has identified LOS D as the threshold for acceptable operating conditions for intersections except at constrained intersections and roadway segments in close proximity to I-215, where LOS E is accepted during peak hours.

Therefore, any intersection operating at LOS E or F will be considered deficient for the purposes of this analysis. (8)

2.5.2 CITY OF PERRIS

Required LOS for roadway segments and intersections within the City of Perris is LOS D. An exception to the local road standard is LOS E, at intersections of any Arterials and Expressways with SR-74, the Ramona-Cajalco Expressway or at I-215 Freeway ramps. For the purposes of this traffic impact analysis, LOS D has also been considered the acceptable threshold for all intersections within the study area.

2.5.3 CALTRANS

Senate Bill 743 (SB 743), approved in 2013, endeavors to change the way transportation impacts will be determined according to the California Environmental Quality Act (CEQA). The Office of Planning and Research (OPR) has recommended the use of vehicle miles traveled (VMT) as the replacement for automobile delay-based LOS. Caltrans acknowledges automobile delay will no longer be considered a CEQA impact for development projects and will use VMT as the metric for determining impacts on the State Highway System (SHS). However, LOS D has been utilized as the target LOS for Caltrans facilities, consistent with the City of Menifee.

2.6 DEFICIENCY CRITERIA

This section outlines the methodology used in this analysis related to identifying circulation system deficiencies. The LOS-based traffic study will be utilized for conditions of approval and to demonstrate consistency with the General Plan goals/policies. To determine whether the addition of project-related traffic at a study intersection would result in a deficiency, the following thresholds will be utilized:

- If the pre-Project condition at an intersection or roadway segment is at or better than the minimum acceptable LOS (LOS D, or LOS E at constrained locations near I-215) and the addition of project trips results in unacceptable LOS (LOS E or LOS F), a project-related traffic deficiency is forecast to occur. This type of deficiency would be considered project-specific in which the project would be fully responsible for.
- If the pre-Project condition is LOS E or F and the Project adds 50 or more peak hour trips to the intersection or roadway segment, then a cumulative traffic deficiency is forecast to occur. This type of deficiency would be considered a “cumulative” deficiency in which the project would be required to contribute a fair share payment toward mitigating the impact. The 50 peak hour trip threshold is a general City guideline and determination of fair share contribution is at the discretion of City staff.

3 AREA CONDITIONS

This section provides a summary of the existing circulation network, the City of Menifee General Plan Circulation Network, and a review of existing peak hour intersection operations, traffic signal warrant, and off-ramp queuing analyses.

3.1 EXISTING CIRCULATION NETWORK

Pursuant to the scoping agreement with City of Menifee staff (Appendix 1.1), the study area includes a total of 10 existing and future intersections as shown previously on Exhibit 1-2. Exhibit 3-1 illustrates the study area intersections located near the proposed Project and identifies the number of through traffic lanes for existing roadways and intersection traffic controls.

3.2 CITY OF MENIFEE GENERAL PLAN CIRCULATION ELEMENT

As noted previously, the Project site is located within the City of Menifee. The roadway classifications and planned (ultimate) roadway cross-sections of the major roadways within the study area, as identified on City of Menifee General Plan Circulation Element, are described subsequently. Exhibit 3-2 shows the City of Menifee General Plan Circulation Element and Exhibit 3-3 illustrates the City of Menifee General Plan roadway cross-sections.

Major Roadways are four-lane roadways and may include a painted median. The Major cross-section has been modified from the County cross-section to provide more flexibility for parkway widths. Shoulders may accommodate exclusive bike lanes or shared neighborhood electric vehicles/bike lanes. Sidewalks may be curb adjacent or separated from the roadway by a landscaped parkway. These roadways typically have a 100-to-118-foot right-of-way and a 76-foot curb-to-curb measurement. These roadways typically direct traffic through major development areas. The following study area roadways within the City of Menifee are classified as a Major Roadway:

- SR-74
- Mapes Road
- Trumble Road

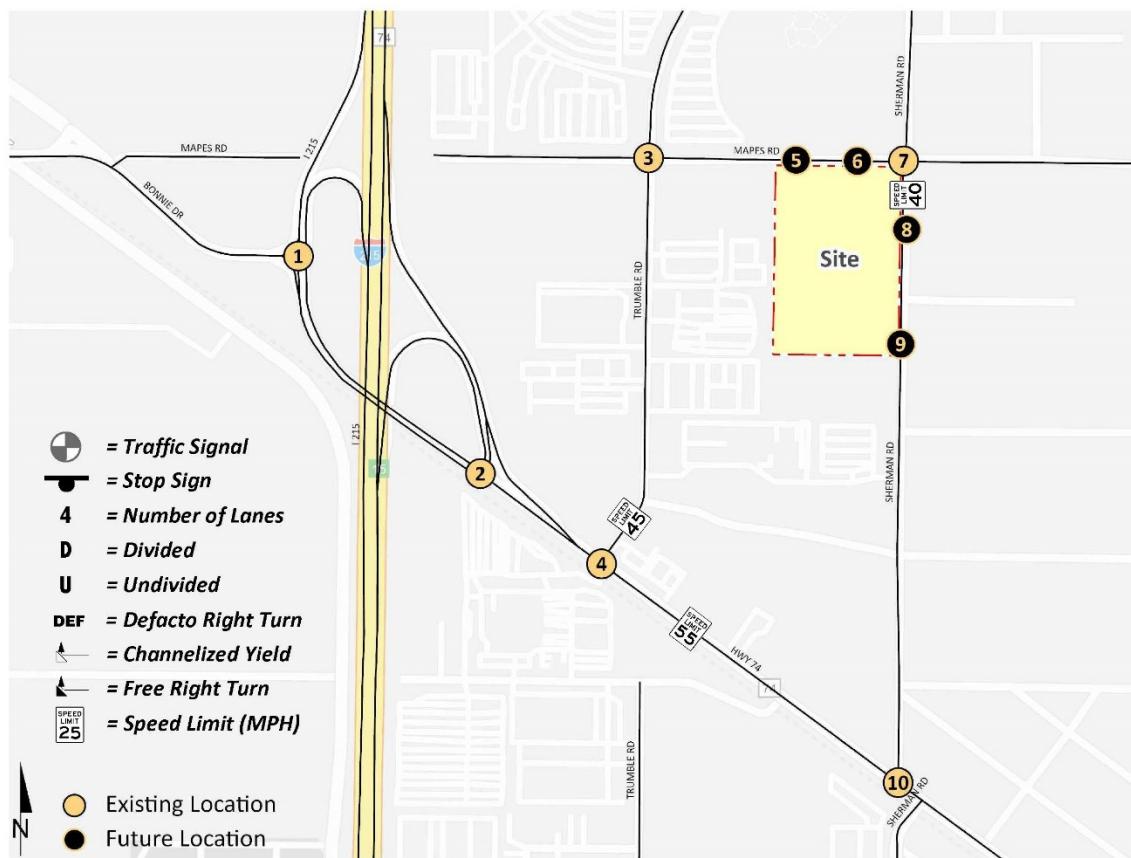
Collector Roadways are two-lane, low-to-moderate speed roadways. They provide an alternative to traveling on higher capacity/speed roadways to navigate through the City. These roadways typically have a 74-foot right-of-way and a 44-foot curb-to-curb measurement. These roadways typically direct traffic through major development areas. The following study area roadway within the City of Menifee is classified as a Major Roadway:

- Sherman Road

3.3 CITY OF PERRIS GENERAL PLAN CIRCULATION ELEMENTS

Portions of the study area also lie within the City of Perris. Exhibits 3-4 and 3-5 show the City of Perris General Plan Circulation Element and roadway cross-sections, respectively.

EXHIBIT 3-1: EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS



| 1 | I-215 SB Ramps / SR-74 & Bonnie Dr. | 2 | I-215 NB Ramps & SR-74 | 3 | Trumble Rd. & Mapes Rd. | 4 | Trumble Rd. & SR-74 | 5 | Dwy. 1 & Mapes Rd. |
|---------------------|-------------------------------------|----------|-------------------------|----------|-------------------------|---|----------------------|----------|---------------------|
| 2U 3D | | 3D 4D | | 4D 4D | 4D 3U | | 4D DEF | | Future Intersection |
| Future Intersection | | | | | | | | | |
| 6 | Dwy. 2 & Mapes Rd. | 7 | Sherman Rd. & Mapes Rd. | 8 | Sherman Rd. & Dwy. 3 | 9 | Sherman Rd. & Dwy. 4 | 10 | Sherman Rd. & SR-74 |
| | | 2U 3U | 2U DEF 2U | | Future Intersection | | Future Intersection | 2U 4D | 4D |

EXHIBIT 3-2: CITY OF MENIFEE GENERAL PLAN CIRCULATION ELEMENT

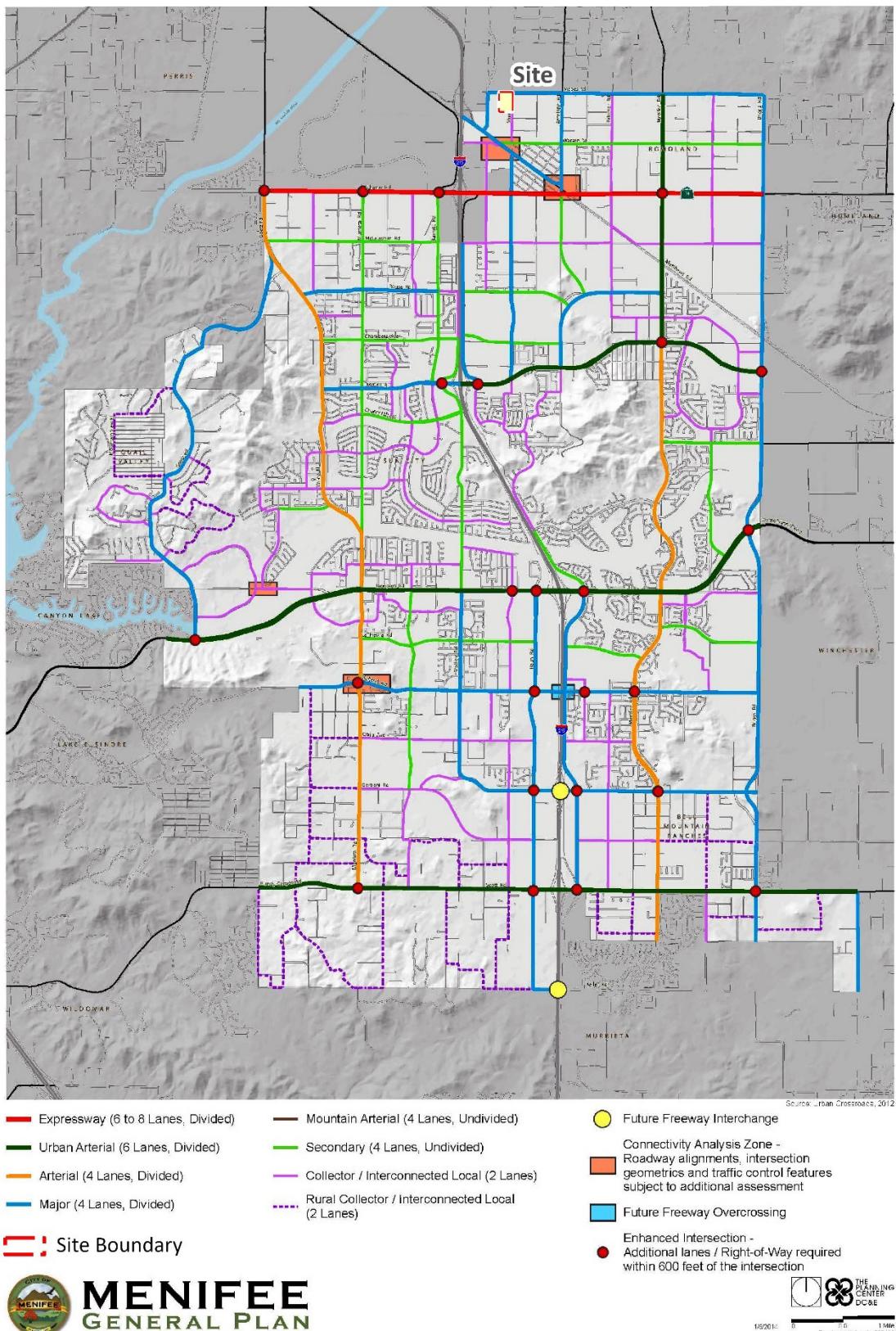
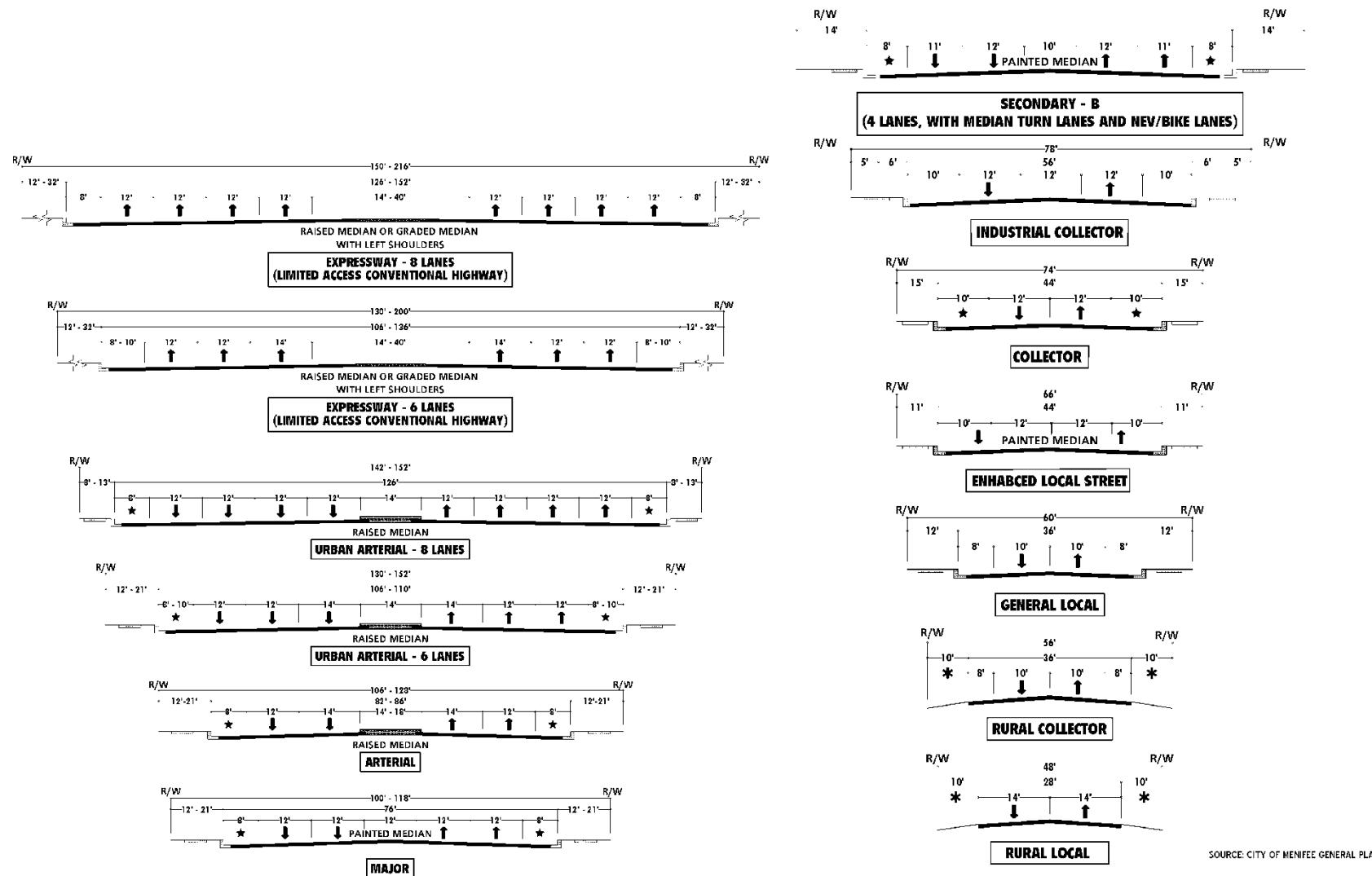


EXHIBIT 3-3: CITY OF MENIFEE GENERAL PLAN ROADWAY CROSS-SECTIONS



SOURCE: CITY OF MENIFEE GENERAL PLAN

EXHIBIT 3-4: CITY OF PERRIS GENERAL PLAN CIRCULATION ELEMENT

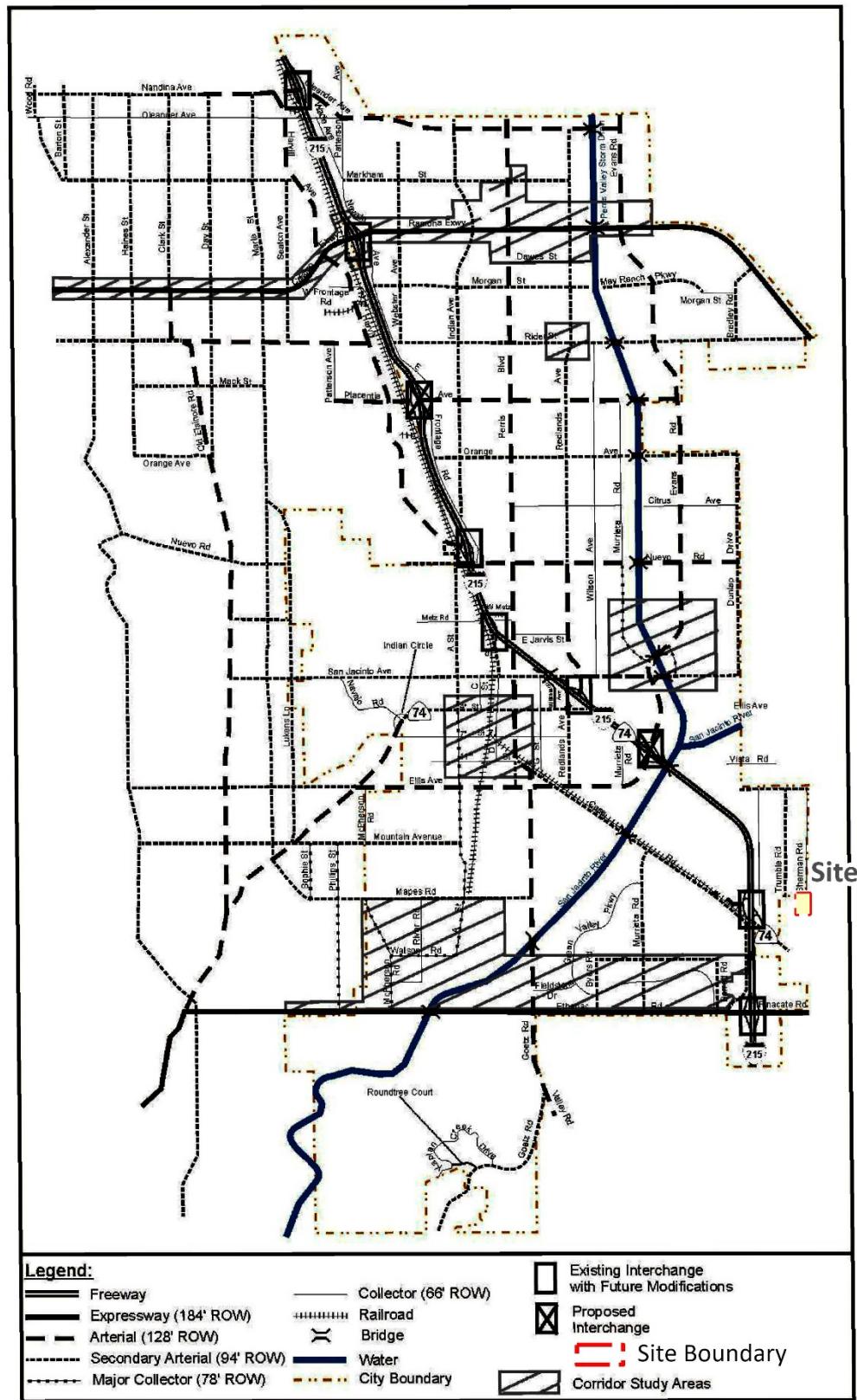
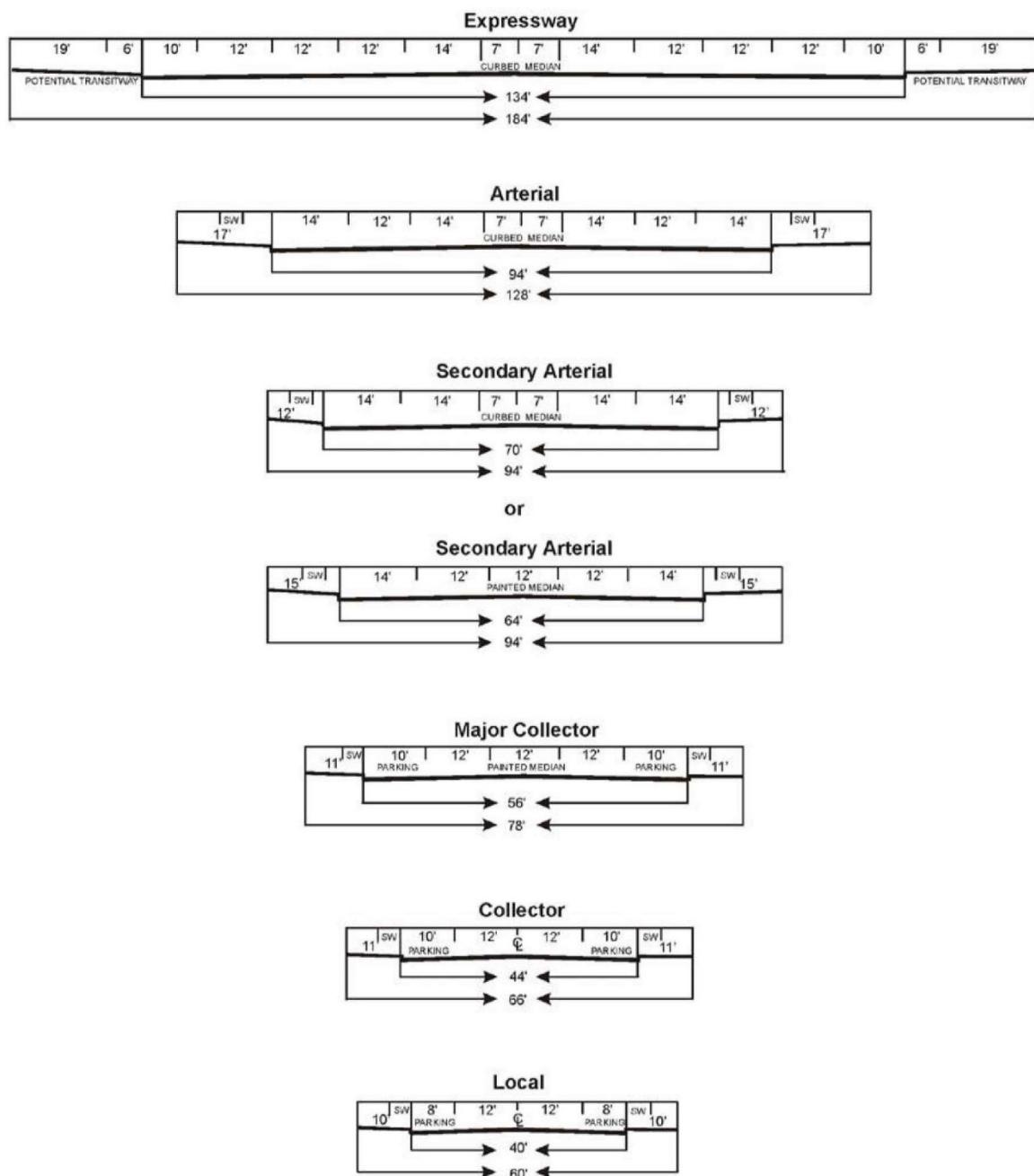


EXHIBIT 3-5: CITY OF PERRIS GENERAL PLAN ROADWAY CROSS-SECTIONS

Specific details for each cross-section follow in Figures 4.1 A - 4.1 F

Legend

| | | | |
|----------------|---|---------------|--------------------------|
| SW | Sidewalk or Trail (at least 4 feet) | CURBED MEDIAN | Landscaped Center Median |
| PARKING | Parking or Bike Lane | | |
| PAINTED MEDIAN | Center Median and/or Continuous Left Turning Lane | | |

Source: City of Perris
General Plan
1-11-2022

3.4 BICYCLE, EQUESTRIAN, & PEDESTRIAN FACILITIES

Field observations indicate nominal pedestrian and bicycle activity within the study area. As shown on Exhibit 3-6, pedestrian facilities are built out along the north side of Mapes Road but lack these improvements in the areas adjacent to undeveloped land (including the Project's frontage). The City of Menifee bike networks are shown on Exhibit 3-7. As shown on Exhibit 3-7, there are Class II bike lanes (on-street, striped and signed) proposed on Mapes Road and Trumble Road and Sherman Road is classified as a Class III bike route (shared on-street, signed, but not striped). The Project will implement Class II bike lanes along their frontage of Mapes Road consistent with the City standards. The City of Perris' recommended bicycle network is illustrated on Exhibit 3-8.

3.5 TRANSIT SERVICE

The City is currently served by Riverside Transit Agency (RTA). The transit services within the City are illustrated on Exhibit 3-9. As shown on Exhibit 3-9, RTA Route 28 is the closest existing route that currently runs along SR-74 and the I-215 Freeway. Transit service is reviewed and updated by RTA periodically to address ridership, budget, and community demand needs. Changes in land use can affect these periodic adjustments which may lead to either enhanced or reduced service where appropriate.

3.6 TRUCK ROUTES

The City of Menifee and City of Perris' truck routes are shown on Exhibit 3-10 and Exhibit 3-11, respectively. Although the truck routes do not identify the site adjacent roadways or SR-74 as a truck route, Sherman Road (between Mapes and the southern Project boundary only), Mapes Road, Trumble Road, and SR-74 would be utilized to and from the Project in order to gain local access to the I-215 Freeway consistent with State law.

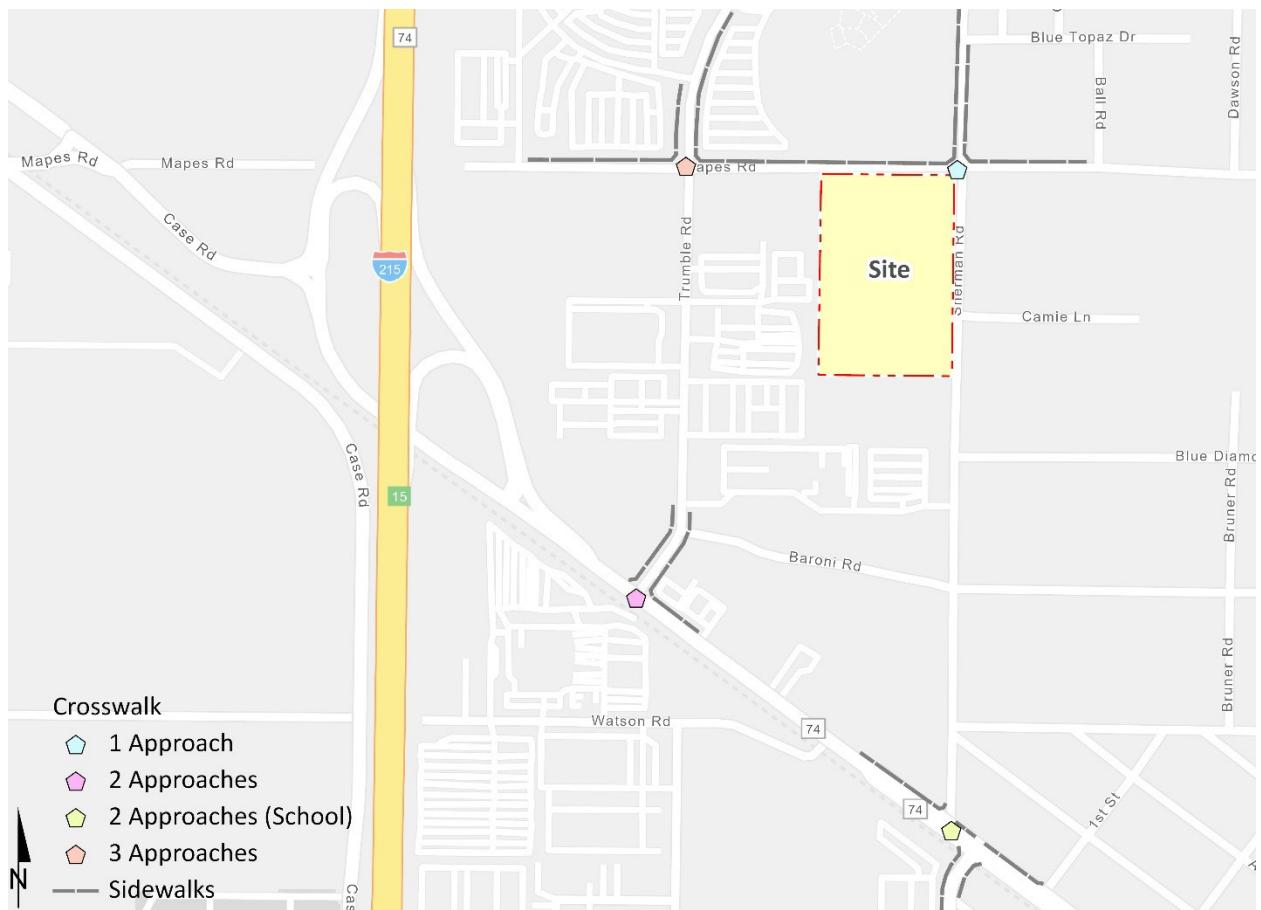
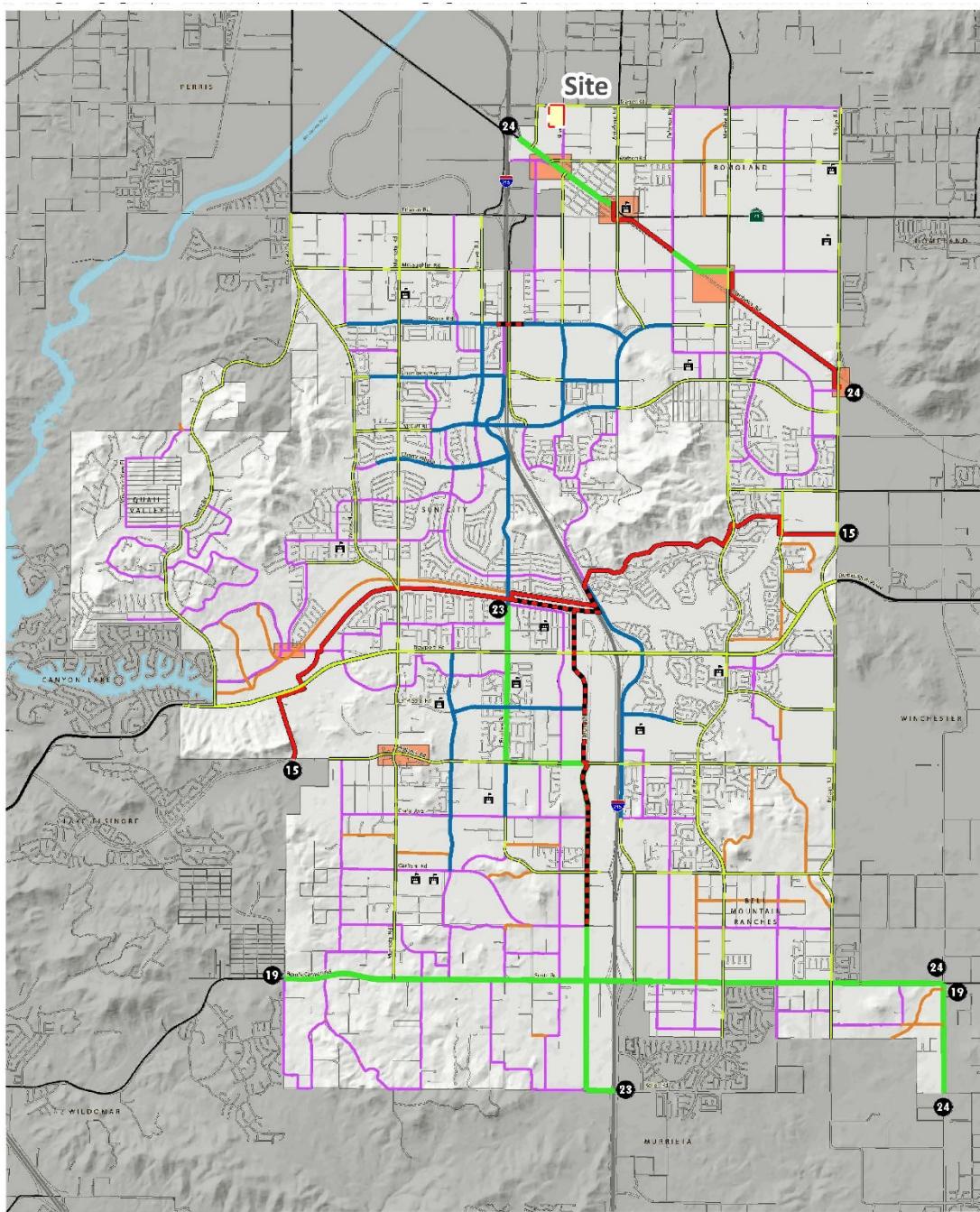
EXHIBIT 3-6: EXISTING PEDESTRIAN FACILITIES

EXHIBIT 3-7: CITY OF MENIFEE BIKEWAY AND COMMUNITY PEDESTRIAN NETWORK



- Subregional Route - Off-Road Bike Trail (Class I)
- Subregional Route - On-Street Bike Lanes (Class II)
- Community Off-Road Bike Trail (Class I)
- Community On-Street NEV/Bike Lanes (Class II)
- Community On-Street Bike Lanes (Class II)
- Community Hiking / Biking Trail Opportunity

- Class III Bike Routes
- Connectivity Analysis Zone - Trail alignments and traffic control features subject to additional assessment
- Existing Schools
- Site Boundary
- Subregional Route Number
(WRCOG Non-Motorized Transportation Plan)

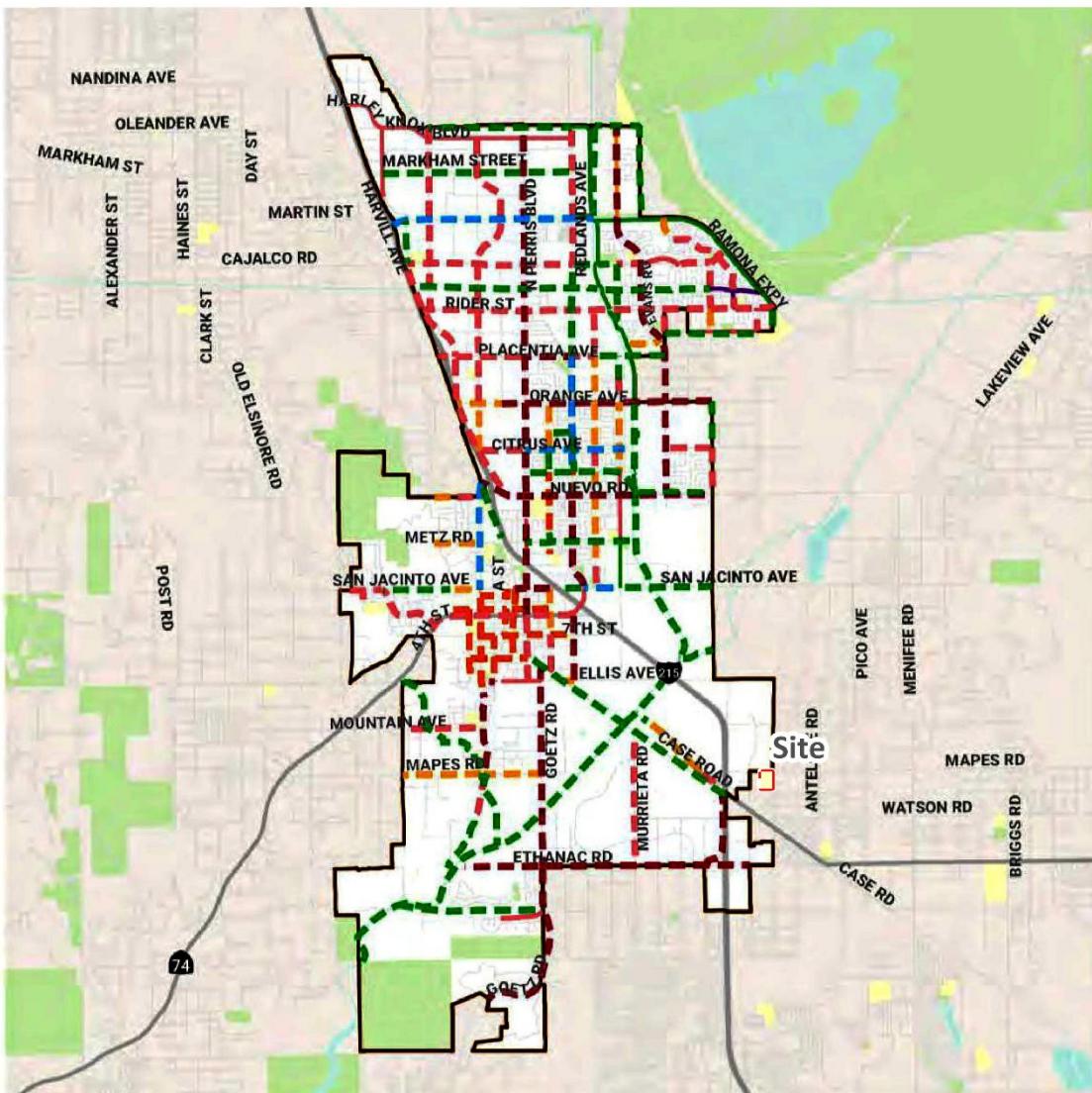


MENIFEE
GENERAL PLAN



7/28/2013 3 1/2 Miles
Bikeways, 0/2513

EXHIBIT 3-8: CITY OF PERRIS RECOMMENDED BIKEWAY NETWORK

**Existing / Recommended Bikeways**

- Shared-Use Path (Class I)
- Bicycle Lane (Class II)
- Buffered Bike Lane (Class IIB)
- Bicycle Route (Class III)
- Bicycle Boulevard (Class IIIIB)
- Separated Bikeway (Class IV)
- Walking Trail

Destinations + Boundaries

- City Boundary
- School
- Park or Open Space
- Site Boundary

0 1 2 Miles



Sources:
SCAG
UC Berkeley TIMS
OSM
Caltrans



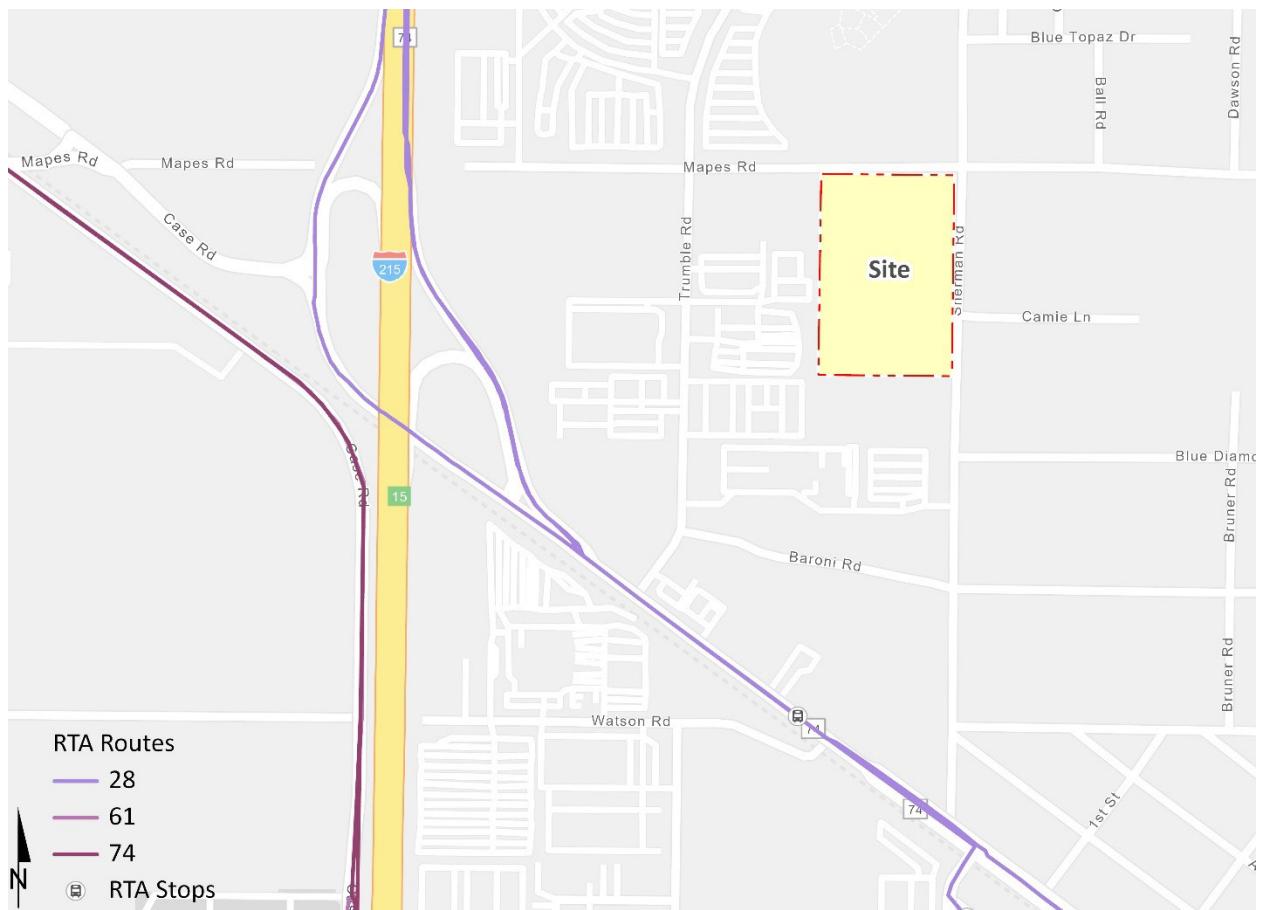
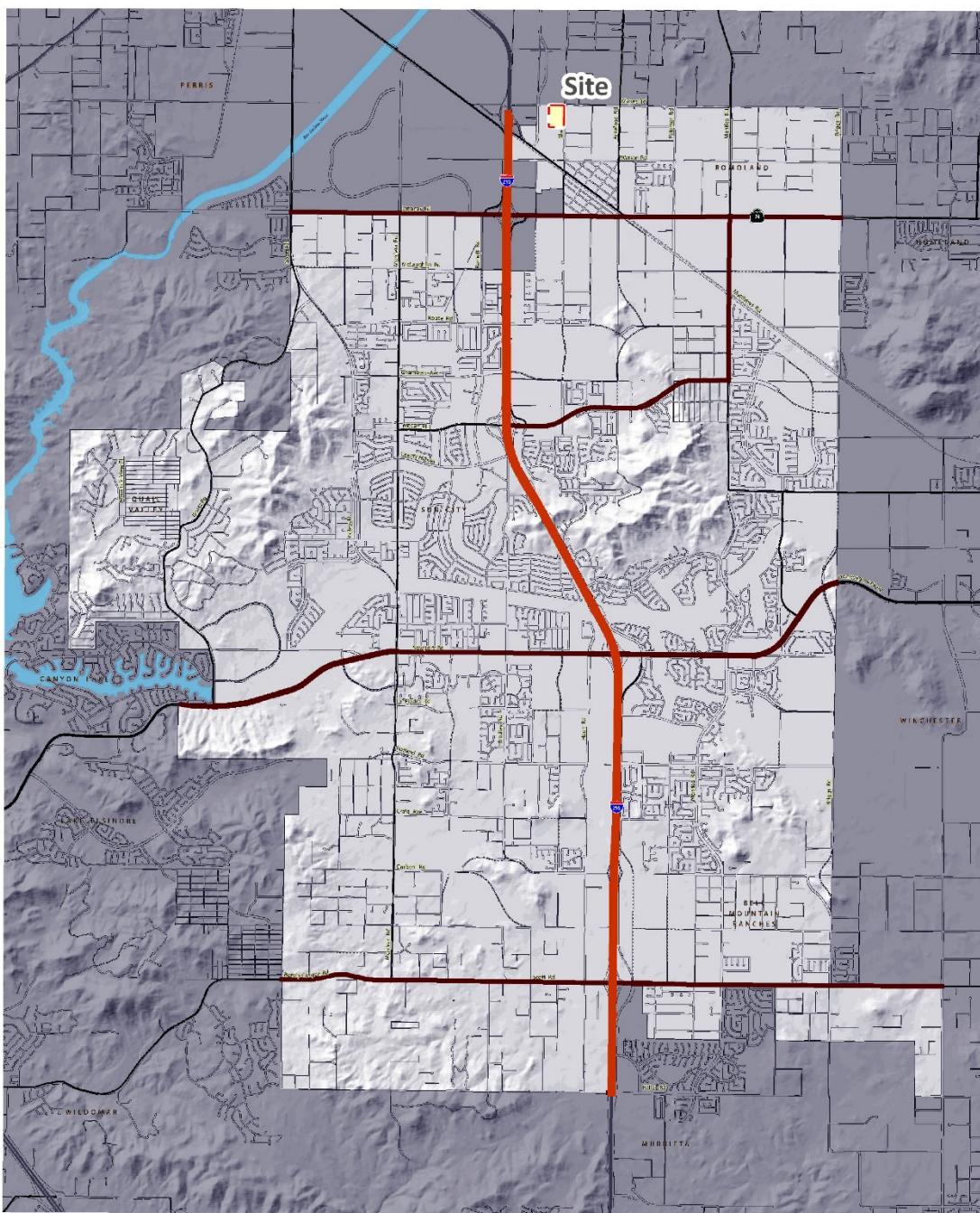
EXHIBIT 3-9: EXISTING TRANSIT

EXHIBIT 3-10: CITY OF MENIFEE TRUCK ROUTES

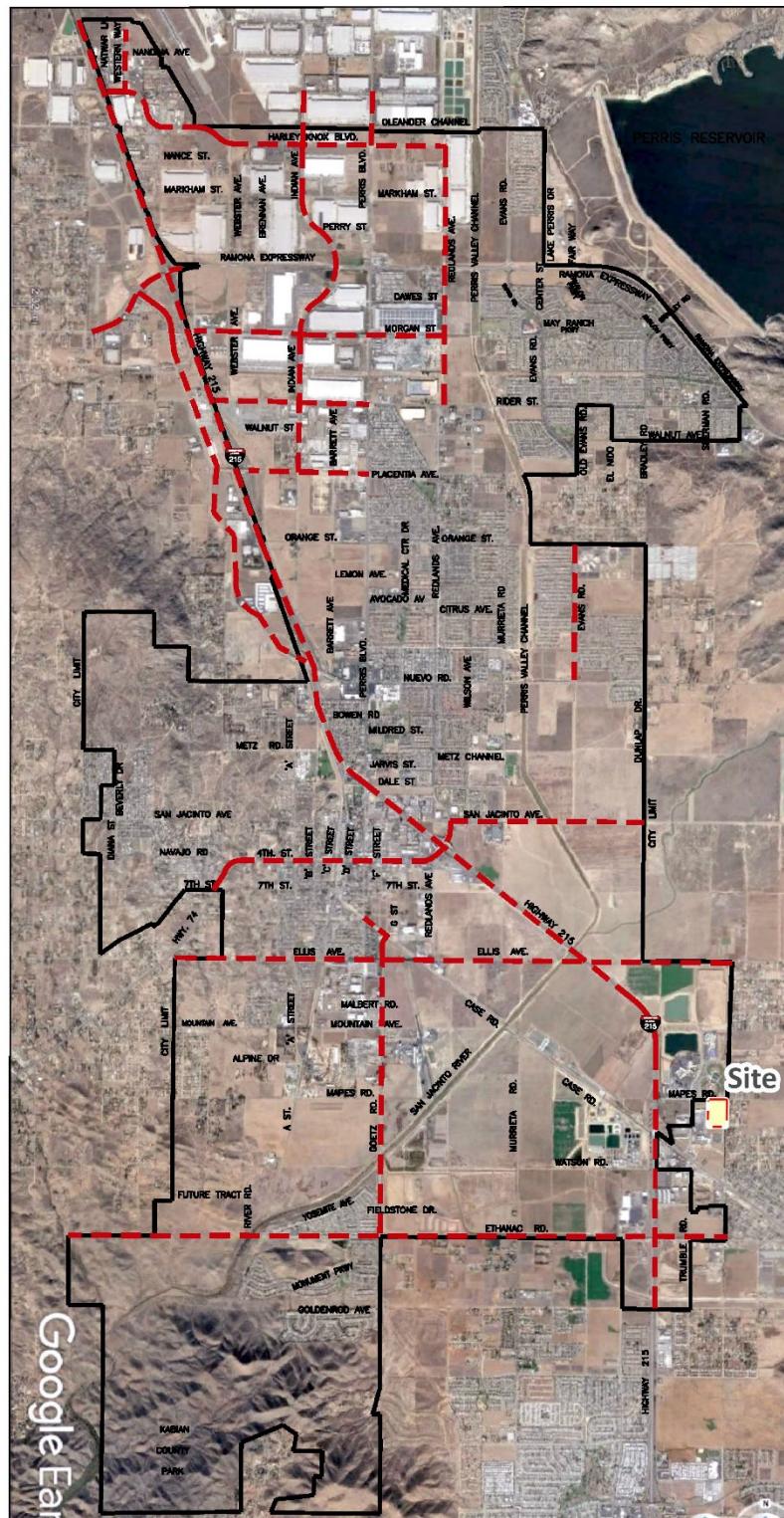
Source: Urban Crossroads, 2012

— Truck Route**—** I-215 Freeway Corridor**—** Site Boundary

The designated truck routes within the City have been selected because of their accessibility to the freeway and key industrial/commercial areas. The designation of truck routes does not prevent trucks from using other roads or streets to make deliveries to individual addresses, or for other reasons as defined in the State of California Motor Vehicle Code.

**MENIFEE
GENERAL PLAN**

EXHIBIT 3-11: CITY OF PERRIS TRUCK ROUTES

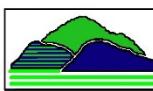


LEGEND:

--- TRUCK ROUTES

— PERRIS CITY LIMITS

■ Site Boundary



TRI LAKE
CONSULTANTS, INC.
CITY ENGINEER



3.7 EXISTING (2022) TRAFFIC COUNTS

The intersection LOS analysis is based on the traffic volumes observed during the peak hour conditions using traffic count data collected in October 2021. The following peak hours were selected for analysis:

- Weekday AM Peak Hour (peak hour between 7:00 AM and 9:00 AM)
- Weekday PM Peak Hour (peak hour between 4:00 PM and 6:00 PM)

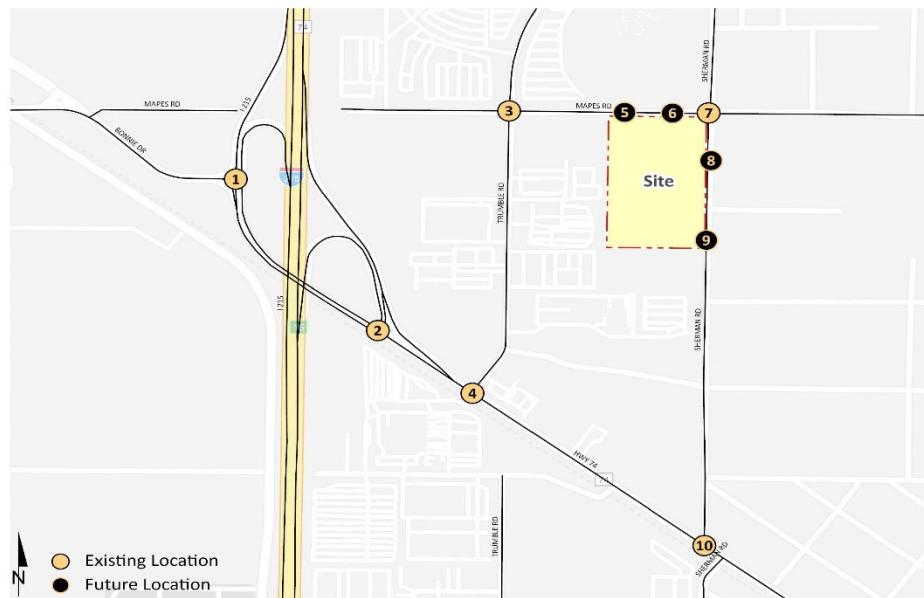
Local schools are back in session with in-person instruction. However, since counts were collected in October 2021, a growth adjustment factor of 2% has been applied to the counts in order to establish the existing (2022) baseline. In addition, manual volume adjustments have also been made for volume balancing between closely spaced intersections where there should be no unexplained loss of vehicles. The 2021 weekday AM, and weekday PM peak hour count data is representative of typical weekday peak hour traffic conditions in the study area. There were no observations made in the field that would indicate atypical traffic conditions on the count dates, such as construction activity or detour routes and near-by schools were in session and operating on normal schedules. The raw manual peak hour turning movement traffic count data sheets are included in Appendix 3.1.

Existing weekday ADT volumes are shown on Exhibit 3-12. Where actual 24-hour tube count data was not available, Existing ADT volumes were based upon factored intersection peak hour counts collected by Urban Crossroads, Inc. using the following formula for each intersection leg:

$$\text{Weekday PM Peak Hour (Approach Volume + Exit Volume)} \times 12.76 = \text{Leg Volume}$$

A comparison of the PM peak hour and daily traffic volumes of various roadway segments within the study area indicated that the peak-to-daily relationship is approximately 7.8 percent. As such, the above equation utilizing a factor of 12.76 estimates the ADT volumes on the study area roadway segments assuming a peak-to-daily relationship of 7.8 percent (i.e., $1/0.078 = 12.76$) and was assumed to sufficiently estimate average daily traffic (ADT) volumes for planning-level analyses. For example, the segment of Trumble Road north of SR-74 does not have ADT data collected, as such, ADT was estimated by taking the sum of the weekday PM southbound left, southbound right, eastbound right and westbound left volumes then multiplying it by the factor of 12.76 (resulting in an estimated daily volume of 8,901). Existing weekday AM and weekday PM peak hour intersection volumes are also shown on Exhibit 3-12. Average daily traffic volumes shown on Exhibit 3-12 are expressed in actual vehicles, however, the peak hour turning movement volumes are shown in passenger car equivalents (PCE) as these are the volumes used for the purposes of the operations analysis. PCEs allow the typical "real-world" mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and level of service analyses. The PCE factors are consistent with the recommended PCE factors in the City's Guidelines (factors are 1.5 for 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for 4+-axle trucks).

EXHIBIT 3-12: EXISTING (2022) TRAFFIC VOLUMES



| 1 | I-215 SB Ramps/SR-74 & Bonnie Dr. | 2 | I-215 NB Ramps & SR-74 | 3 | Trumble Rd. & Mapes Rd. | 4 | Trumble Rd. & SR-74 | 5 | Dwy 1 & Mapes Rd. |
|------------------------|-----------------------------------|--------------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------|---------------------|-----------|------------------------|
| 13,350 | | 9,850 | 26,650 | 4,200 | 5,500 | 8,900 | 18,750 | | 5,200 |
| ↓ 37(47) ← 477(726) | | ↓ 12(37) ↑ 659(565) ↓ 640(475) | | ↓ 2(2) ← 121(187) ↓ 3(51) | ↑ 6(9) ↓ 12(1) 260(165) | ↑ 26(41) ← 768(670) | | | |
| 22(19) → 232(168) → | 269(224) ↑ 383(288) → | 28(13) → 681(881) → | | 1(0) 22(6) 56(6) | 62(10) ↓ 132(81) ↑ 133(214) → | 298(292) 560(793) → | | | ← 278(175) |
| 5,550 | 17,200 | 17,200 | | 300 | 8,250 | 26,650 | 5,200 | | |
| 6 | Dwy 2 & Mapes Rd. | 7 | Sherman Rd. & Mapes Rd. | 8 | Sherman Rd. & Dwy 3 | 9 | Sherman Rd. & Dwy 4 | 10 | Sherman Rd. & SR-74 |
| | 5,200 | 900 | 4,900 | 850 | 850 | 850 | 850 | 1,150 | 17,150 |
| | ← 278(175) | ↓ 24(27) ↓ 2(7) ↓ 5(2) | ↑ 2(4) ↓ 251(141) ↓ 12(11) | ↓ 51(40) | | ↓ 51(40) | | ↓ 103(74) | ↑ 10(16) ↓ 640(564) |
| 158(270) → | | 15(26) ↓ 106(222) → 37(22) ↓ | 3(7) ↑ 14(6) ↑ 16(20) ↑ | 3(33) → | 3(33) → | 3(33) → | 553(823) → | 17,950 | |
| 5,200 | 5,200 | | | 850 | | | | | |

##(##) AM(PM) Peak Hour Intersection Volumes

Actual Average Daily Trips

Calculated Average Daily Trips

3.8 INTERSECTION OPERATIONS ANALYSIS

Existing peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2.2 *Intersection Capacity Analysis* of this report. The intersection operations analysis results are summarized on Table 3-1, which indicates that all of the study area intersections are currently operating at an unacceptable LOS during the peak hours. The intersection operations analysis worksheets are included in Appendix 3.2 of this TA.

TABLE 3-1: INTERSECTION ANALYSIS FOR EXISTING (2022) CONDITIONS

| # Intersection | Traffic Control ¹ | Delay ² (secs.) | | Level of Service | |
|-------------------------------------|------------------------------|-------------------------------|------|---------------------|----|
| | | AM | PM | AM | PM |
| 1 I-215 SB Ramps/SR-74 & Bonnie Dr. | TS | 10.2 | 12.3 | B | B |
| 2 I-215 NB Ramps & SR-74 | TS | 8.0 | 8.3 | A | A |
| 3 Trumble Rd. & Mapes Rd. | AWS | 10.9 | 11.0 | B | B |
| 4 Trumble Rd. & SR-74 | TS | 17.7 | 12.0 | B | B |
| 5 Dwy 1 & Mapes Rd. | | | | Future Intersection | |
| 6 Dwy 2 & Mapes Rd. | | | | Future Intersection | |
| 7 Sherman Rd. & Mapes Rd. | CSS | 10.7 | 11.0 | B | B |
| 8 Sherman Rd. & Dwy 3 | | | | Future Intersection | |
| 9 Sherman Rd. & Dwy 4 | | | | Future Intersection | |
| 10 Sherman Rd. & SR-74 | CSS | 11.6 | 10.9 | B | B |

¹ TS = Traffic Signal; CSS = Cross-Street Stop; AWS = All-Way Stop

² Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

3.9 EXISTING (2022) TRAFFIC SIGNAL WARRANTS ANALYSIS

Traffic signal warrants for Existing traffic conditions are based on existing peak hour intersection turning volumes. There are no unsignalized study area intersections that currently meet a peak hour volume-based traffic signal warrant for Existing (2022) traffic conditions (see Appendix 3.3).

3.10 EXISTING (2022) OFF-RAMP QUEUING ANALYSIS

A queuing analysis was performed for the off-ramps at the I-215 Freeway at SR-74 interchange. Queuing analysis findings are presented in Table 3-2. It is important to note that off-ramp lengths are consistent with the measured distance between the intersection and the freeway mainline. As shown in Table 3-2, there are no movements that are currently experiencing queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows. Worksheets for Existing (2022) traffic conditions off-ramp queuing analysis are provided in Appendix 3.4.

TABLE 3-2: PEAK HOUR OFF-RAMP QUEUING FOR EXISTING (2022) CONDITIONS

| Intersection | Movement | Available Stacking | 95th Percentile Queue (Feet) | | Acceptable? ¹ | |
|--|----------|-----------------------|------------------------------|--------------|--------------------------|---------|
| | | | Distance (Feet) | AM Peak Hour | PM Peak Hour | AM |
| I-215 SB Ramps/SR-74 & Bonnie Dr. (#1) | SBT | 1,450 | | 286 | 449 | Yes Yes |
| | SBR | 50 | | 21 | 22 | Yes Yes |
| I-215 NB Ramps & SR-74 (#2) | SBL/R | 1,440 | | 109 | 123 | Yes Yes |

¹ Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 25 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

² 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

³ Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the I-215 Freeway mainline.

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4 PROJECTED FUTURE TRAFFIC

The Project is proposed to consist of the development of 277,578 square feet of high-cube fulfillment center warehouse use within a single building. The Project is anticipated to have an Opening Year of 2024. Vehicular access will be accommodated via Mapes Road and Sherman Road for both passenger cars and trucks (with primary truck access on Mapes Road and secondary truck access on Sherman Road). Regional access to the Project site is accommodated from the I-215 Freeway via SR-74.

4.1 PROJECT TRIP GENERATION

Trip generation represents the amount of traffic that is attracted and produced by a development and is based upon the specific land uses planned for a given project. In order to develop the traffic characteristics of the proposed project, trip-generation statistics published in the High Cube Warehouse Trip Generation Study (WSP, January 2019) for high-cube fulfillment center use. (3) The following trip generation rates and vehicle mix were utilized for calculating the trip generation for the proposed Project:

- High-Cube Fulfillment Center Warehouse has been used to derive site specific trip generation estimates for up to 277,578 square feet. The Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition, 2021) has trip generation rates for high-cube fulfillment center use for both non-sort and sort facilities (ITE land use code 155). While there is sufficient data to support use of the trip generation rates for non-sort facilities, the sort facility rate appears to be unreliable because they are based on limited data (i.e., one to two surveyed sites). The proposed Project is speculative and whether a non-sort or sort facility end-user would occupy the buildings is not known at this time. Lastly, the ITE Trip Generation Handbook recommends the use of local data sources where available. As such, the best available source for high-cube fulfillment center use would be the trip-generation statistics published in the High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019) which was commissioned by the Western Riverside Council of Governments (WRCOG) in support of the Transportation Uniform Mitigation Fee (TUMF) update in the County of Riverside. (3) The WSP trip generation rates were published in January 2019 and are based on data collected at 11 local high-cube fulfillment center sites located throughout Southern California (specifically Riverside County and San Bernardino County). However, the WSP study does not include a split for inbound and outbound vehicles, as such, the inbound and outbound splits per the ITE Trip Generation Manual (11th Edition, 2021) for Land Use Code 154 have been utilized. (4)

PCE factors were applied to the trip generation rates for heavy trucks (large 2-4-axles and 5+ axles). In an effort to be conservative, a PCE factor of 2.0 has been utilized for 2-4 axle trucks and a factor of 3.0 for 5+ axle trucks (this is also consistent with the approved scoping agreement included in Appendix 1.1). These factors were selected based on the County's recommended use of 1.5 for 2-axles, 2.0 for 3-axles, and 3.0 for 4+ axle trucks. The WSP study does not provide a vehicle split between the 2-4-axles. Trip generation rates are summarized on Table 4-1 for actual vehicles and PCE. Per the City's Guidelines, all peak hour intersection operations analyses are to utilize the PCE trip generation. The trip generation summary illustrating daily, and peak hour trip generation estimates for the proposed Project in actual vehicles and PCE are shown on Table 4-2. The proposed Project is anticipated to generate 592 two-way trip-ends per day with 35 AM peak hour trips and 46 PM peak hour trips in actual vehicles (see Table 4-2). PCE based trip generation for the Project, which will be utilized for the peak hour intersection operations analysis, is also summarized on Table 4-2.

TABLE 4-1: TRIP GENERATION RATES

| Land Use | Units ² | ITE LU Code | AM Peak Hour | | | PM Peak Hour | | | Daily |
|---|--------------------|-------------|--------------|-------|-------|--------------|-------|-------|-------|
| | | | In | Out | Total | In | Out | Total | |
| Actual Vehicle Trip Generation Rates | | | | | | | | | |
| High-Cube Fulfillment Center Warehouse ¹ | TSF | -- | 0.094 | 0.028 | 0.122 | 0.046 | 0.119 | 0.165 | 2.129 |
| | | | 0.079 | 0.024 | 0.103 | 0.040 | 0.104 | 0.144 | 1.750 |
| | | | 0.006 | 0.002 | 0.008 | 0.003 | 0.008 | 0.011 | 0.162 |
| | | | 0.008 | 0.003 | 0.011 | 0.003 | 0.007 | 0.010 | 0.217 |
| Passenger Car Equivalent (PCE) Trip Generation | | | | | | | | | |
| High-Cube Fulfillment Center Warehouse ¹ | TSF | -- | 0.094 | 0.028 | 0.122 | 0.046 | 0.119 | 0.165 | 2.129 |
| | | | 0.079 | 0.024 | 0.103 | 0.040 | 0.104 | 0.144 | 1.750 |
| | | | 0.012 | 0.004 | 0.016 | 0.006 | 0.016 | 0.022 | 0.324 |
| | | | 0.025 | 0.008 | 0.033 | 0.008 | 0.022 | 0.030 | 0.651 |

¹ Vehicle Mix Source: [High Cube Warehouse Trip Generation Study](#), WSP, January 29, 2019.

Inbound and outbound split source: ITE [Trip Generation Manual](#), Eleventh Edition (2021) for ITE Land Use Code 154.

² TSF = thousand square feet

TABLE 4-2: PROJECT TRIP GENERATION SUMMARY

| Land Use | Quantity | Units ¹ | AM Peak Hour | | | PM Peak Hour | | | Daily |
|--|----------|--------------------|--------------|-----------|-----------|--------------|-----------|-----------|------------|
| | | | In | Out | Total | In | Out | Total | |
| Actual Vehicles: | | | | | | | | | |
| High-Cube Fulfillment | 277.578 | TSF | | | | | | | |
| Passenger Cars: | | | 22 | 7 | 29 | 11 | 29 | 40 | 486 |
| 2-4axle Trucks: | | | 2 | 1 | 3 | 1 | 2 | 3 | 46 |
| 5+axle Trucks: | | | 2 | 1 | 3 | 1 | 2 | 3 | 60 |
| Total Truck Trips (Actual Vehicles): | | | 4 | 2 | 6 | 2 | 4 | 6 | 106 |
| Total Trips (Actual Vehicles)² | | | 26 | 9 | 35 | 13 | 33 | 46 | 592 |
| Passenger Car Equivalent (PCE): | | | | | | | | | |
| High-Cube Fulfillment | 277.578 | TSF | | | | | | | |
| Passenger Cars: | | | 22 | 7 | 29 | 11 | 29 | 40 | 486 |
| 2-4axle Trucks: | | | 3 | 1 | 4 | 2 | 4 | 6 | 90 |
| 5+axle Trucks: | | | 7 | 2 | 9 | 2 | 6 | 8 | 182 |
| Total Truck Trips (PCE): | | | 10 | 3 | 13 | 4 | 10 | 14 | 272 |
| Total Trips (PCE)² | | | 32 | 10 | 42 | 15 | 39 | 54 | 758 |

¹ TSF = thousand square feet

² Total Trips = Passenger Cars + Truck Trips.

4.2 PROJECT TRIP DISTRIBUTION

The Project trip distribution represents the directional orientation of traffic to and from the Project site. Trip distribution is the process of identifying the probable destinations, directions or traffic routes that will be utilized by Project traffic. The potential interaction between the planned land uses and surrounding regional access routes are considered to identify the route where Project traffic would distribute. In addition, truck routes for neighboring agencies have been taken into consideration in the development of the trip distribution patterns for heavy trucks. Exhibits 4-1 and 4-2 show the Project truck and passenger car trip distribution patterns, respectively. Trip distribution patterns for the Project were reviewed as part of the TA scoping process (see Appendix 1.1). The Project trucks will be prohibited from utilizing Sherman Road to access the site other than from Mapes Road to the Project driveways.

4.3 MODAL SPLIT

The potential for Project trips to be reduced by the use of public transit, walking or bicycling have not been included as part of the Project's estimated trip generation. Essentially, the Project's traffic projections are "conservative" in that these alternative travel modes would reduce the forecasted traffic volumes.

4.4 PROJECT TRIP ASSIGNMENT

The assignment of traffic from the Project area to the adjoining roadway system is based upon the Project trip generation, trip distribution, and the arterial highway and local street system improvements that would be in place by the time of initial occupancy of the Project. Based on the identified Project traffic generation and trip distribution patterns, Project weekday ADT and weekday peak hour intersection turning movement volumes are shown on Exhibit 4-3.

4.5 BACKGROUND TRAFFIC

Future year traffic forecasts have been based upon background (ambient) growth at 2% per year for 2024 traffic conditions. The total ambient growth is 4.04% for 2024 traffic conditions (compounded growth of 2 percent per year over 2 years or $1.02^{2 \text{ years}}$). The ambient growth factor is intended to approximate regional traffic growth. This ambient growth rate is added to existing traffic volumes to account for area-wide growth not reflected by cumulative development projects. Ambient growth has been added to daily and peak hour traffic volumes on surrounding roadways, in addition to traffic generated by the development of future projects that have been approved but not yet built and/or for which development applications have been filed and are under consideration by governing agencies. Opening Year Cumulative (2024) traffic volumes are provided in Section 6 of this TA. The traffic generated by the proposed Project was then manually added to the base volume to determine Opening Year Cumulative "With Project" forecasts.

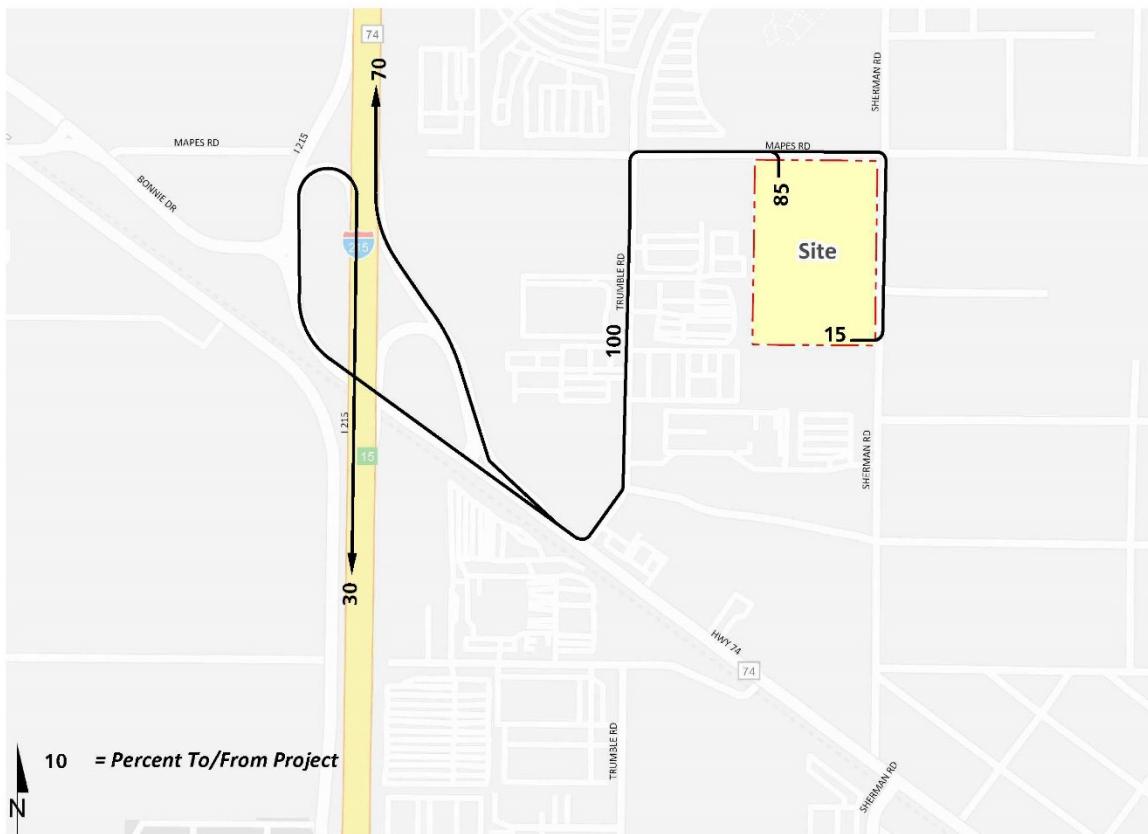
EXHIBIT 4-1: PROJECT (TRUCK) TRIP DISTRIBUTION

EXHIBIT 4-2: PROJECT (PASSENGER CAR) TRIP DISTRIBUTION

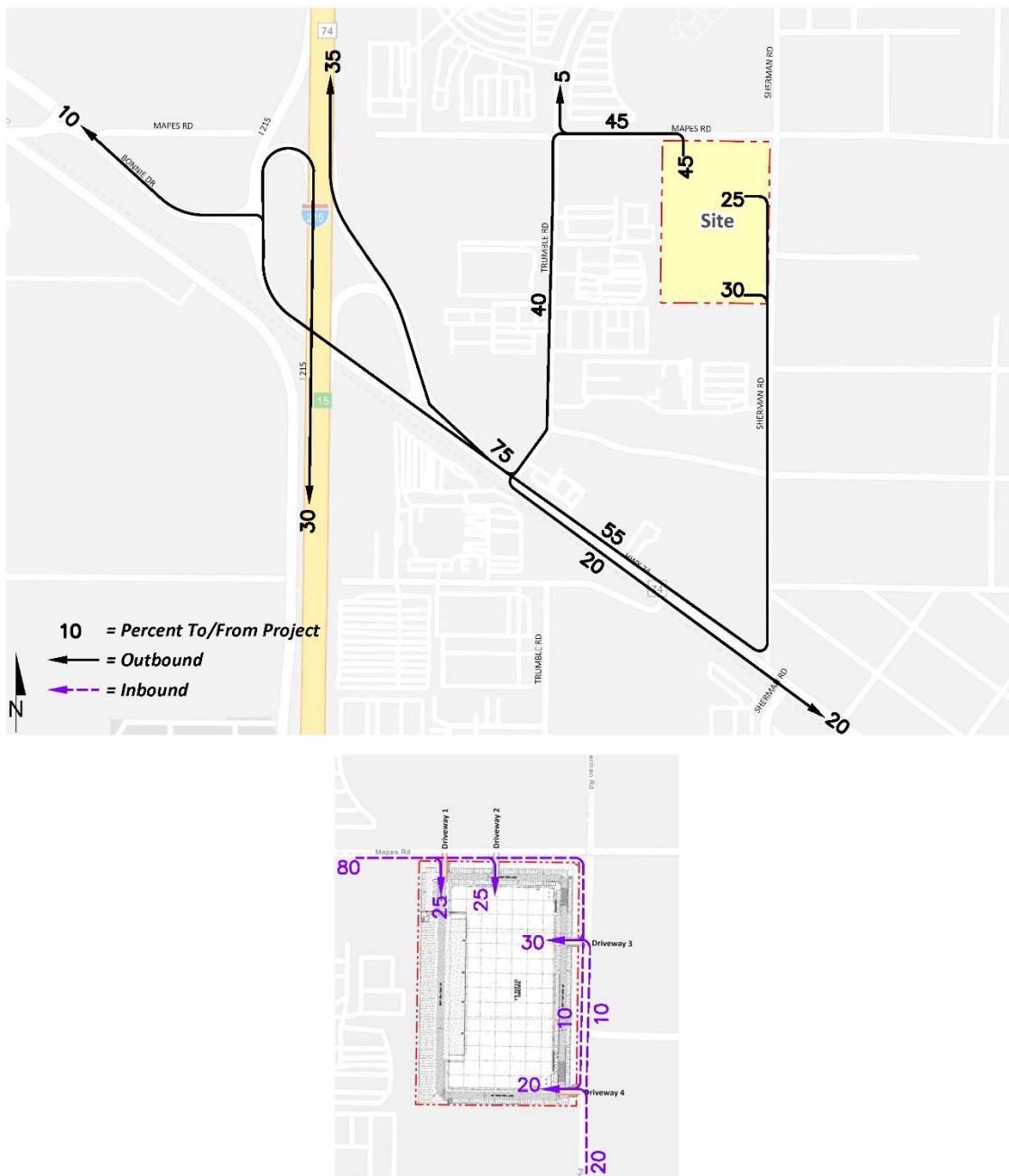
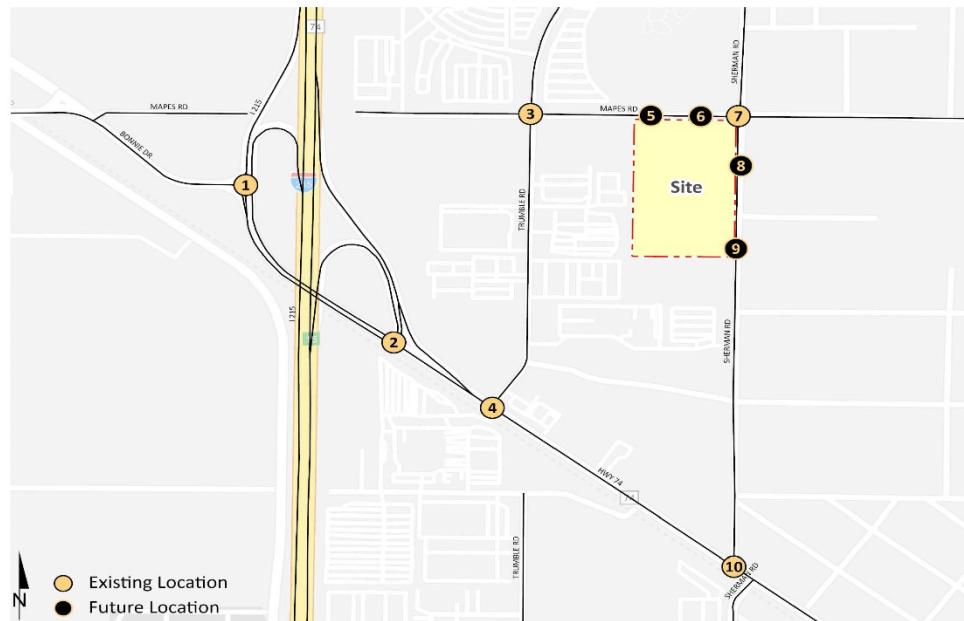


EXHIBIT 4-3: PROJECT ONLY TRAFFIC VOLUMES



| 1 | I-215 SB Ramps/SR-74 & Bonnie Dr. | 2 | I-215 NB Ramps & SR-74 | 3 | Trumble Rd. & Mapes Rd. | 4 | Trumble Rd. & SR-74 | 5 | Dwy 1 & Mapes Rd. |
|---------|-----------------------------------|---------|-------------------------|------|-------------------------|------------------|---------------------|--------------------|---------------------|
| 200 | 15(7) | 200 | 10(5) | 450 | 1(1) | 400 | 4(16) | 200 | 150 |
| 200 | 1(3) → 3(12) → | 250 | 17(8) → | 1(1) | 6(22) | 27(12) → | 1(6) | 14(7) → 14(6) → | 0(2) |
| Nominal | | Nominal | | | | 400 | 4(16) | 400 | 250 |
| 6 | Dwy 2 & Mapes Rd. | 7 | Sherman Rd. & Mapes Rd. | 8 | Sherman Rd. & Dwy 3 | 9 | Sherman Rd. & Dwy 4 | 10 | Sherman Rd. & SR-74 |
| 150 | 100 | 100 | 100 | 100 | 100 | 150 | 150 | 200 | 100 |
| 150 | 8(4) → 5(3) → | 100 | 8(4) → | 0(2) | 2(1) 6(3) | 2(1) → 0(2) → | 6(3) 2(7) | 4(16) | 1(6) → |
| Nominal | | Nominal | | | | 150 | 0(2) → 2(9) → | 2(1) → 2(1) → | |

##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

4.6 CUMULATIVE DEVELOPMENT TRAFFIC

A cumulative project list was developed for the purposes of this analysis through consultation with planning and engineering staff from the City of Menifee. The cumulative project list includes known and foreseeable projects that are anticipated to contribute traffic to the study area intersections. Where applicable, cumulative projects anticipated to contribute measurable traffic (i.e., 50 or more peak hour trips) to study area intersections have been manually added to the study area network to generate Opening Year Cumulative (2024) forecasts. In other words, this list of cumulative development projects has been reviewed to determine which projects would likely contribute measurable traffic through the study area intersections (e.g., those cumulative projects in close proximity to the proposed Project). For the purposes of this analysis, the cumulative projects that were determined to affect one or more of the study area intersections are shown on Exhibit 4-4, listed in Table 4-3, and have been considered for inclusion. Allocation of the cumulative development trip generation is based on volumes developed on past studies but adding only new projects that were not previously considered. Although it is unlikely that all of these cumulative projects would be fully built and occupied by Year 2024, they have been included in an effort to conduct a conservative analysis and overstate as opposed to understate potential traffic deficiencies. Any other cumulative projects located beyond the cumulative study area that are not expected to contribute measurable traffic to study area intersections have not been included since the traffic would dissipate due to the distance from the Project site and study area intersections. Any additional traffic generated by other projects not on the cumulative projects list is likely accounted for through background ambient growth factors that have been applied to the peak hour volumes at study area intersections as discussed in Section 4.5 *Background Traffic*. Cumulative Only ADT and peak hour intersection turning movement volumes are shown on Exhibit 4-5. Volume development spreadsheets showing detailed calculations are provided in Appendix 4.1.

4.7 NEAR-TERM TRAFFIC CONDITIONS

The “buildup” approach combines existing traffic counts with a background ambient growth factor to forecast the near-term 2024 traffic conditions. An ambient growth factor of 2.0% per year, compounded annually, accounts for background (area-wide) traffic increases that occur over time up to the years 2024 from the year 2022. Traffic volumes generated by cumulative development projects are then added to assess the Opening Year Cumulative (2024) traffic conditions. Lastly, Project traffic is added to assess “With Project” traffic conditions. The 2024 roadway network is similar to the existing conditions roadway network with the exception of intersections proposed to be developed by the Project. The near-term traffic analysis includes the following traffic conditions, with the various traffic components:

- Opening Year Cumulative (2024) Without Project
 - Existing 2022 counts
 - Ambient growth traffic (4.04%)
 - Cumulative Development Project traffic
- Opening Year Cumulative (2024) With Project
 - Existing 2022 counts
 - Ambient growth traffic (4.04%)
 - Cumulative Development Project traffic
 - Project traffic

TABLE 4-3: CUMULATIVE DEVELOPMENT LAND USE SUMMARY

| No. | Project Name / Case Number | Jurisdiction | Land Use | Quantity Units ¹ |
|-----|---|--------------|---|-----------------------------|
| M1 | SP260A2 | Menifee | SP Proposal for APN329-110-003/026/028/014/019 (med and med-high density residential with commercial retails, light industrial and business park) | 2,025 DU |
| M2 | United Carports Warehouse (DEV2022-009) | Menifee | Warehouse | 58.643 TSF |
| M3 | Trumble Retail (CUP2016-290) | Menifee | Hotel | 108 RM |
| | | | Quality Restaurant | 5.500 TSF |
| | | | Fast-Food w/ Drive-Thru | 3.000 TSF |
| | | | Gas Station | 12 VFP |
| M4 | Paragon Framing (CUP2018-126) | Menifee | Office/Storage | 10.454 TSF |
| M5 | Trumble/Watson Warehouse (DEV2022-019) | Menifee | Warehouse | 327.631 TSF |
| M6 | TR 38132 & 38133 (SPA DEV2021-005) | Menifee | Single Family Residential | 322 DU |
| M7 | MR-27 LLC Rancon (TTM 34118) | Menifee | Multifamily (Low-Rise) | 85 DU |
| M8 | Motte Country Plaza (PP2018-300) | Menifee | Gas Station | 12 VFP |
| M9 | Forterra Pipe (PP2018-199) | Menifee | Storage Yard Expansion | 20.700 TSF |
| M10 | Menifee Commerce Center (PP2019-005) | Menifee | Warehouse | 1,461.650 TSF |
| | Menifee Commerce Center II (DEV2022-014) | Menifee | Warehouse | 1,139.478 TSF |
| | Nova Battery Storage (DEV2022-015) | Menifee | Redevelopment of IEEC Plant | |
| | McLaughlin Warehouses (DEV2022-016) | Menifee | Warehouse | 491.467 TSF |
| M11 | Goetz/Ethanac Commercial (PP PLN21-0319) | Menifee | Gas Station + Retail | 14.290 TSF |
| | Corsica Business Park (DEV2022-010) | Menifee | Business Park | 276.682 TSF |
| | Capstone Industrial (PLN21-0370) | Menifee | Warehouse | 700.037 TSF |
| | DEV2022-017 | Menifee | Warehouse | 551.685 TSF |
| | Northern Gateway Commerce Center II (PP PLN21-0281) | Menifee | High-Cube Warehouse | 1,312.601 TSF |
| | Ethanac/Evans Warehouse (DEV2022-018) | Menifee | Warehouse | 137.896 TSF |
| | Ethanac Square (MIMOD PLN21-0104) | Menifee | Gas Station | 3.800 TSF |
| | Ethanac/Barnett Warehouse (PP PLN21-0290) | Menifee | Warehouse | 250.000 TSF |
| P1 | Perris Plaza - Build-out | Perris | Commercial | 173.000 TSF |
| P2 | Arco Expansion | Perris | Commercial | 3.869 TSF |
| P3 | Pacific Heritage I | Perris | Single Family Residential | 82 DU |
| P4 | Sunwest Enterprises | Perris | Single Family Residential | 61 DU |
| P5 | Sunwest Enterprises | Perris | Single Family Residential | 57 DU |
| P6 | Rastogi Family LTD / John Ford | Perris | Single Family Residential | 75 DU |
| P7 | Sterling Villa Senior Housing | Perris | Senior Adult Housing - Attached | 429 DU |
| P8 | Prairie View Apartments | Perris | Apartments | 287 DU |
| P9 | Perris Valley Town Center (East Side) | Perris | Shopping Center | 644.866 TSF |
| | | | Fast-Food w/ Drive-Thru | 10.500 TSF |
| | | | High Turnover Restaurant | 15.120 TSF |
| | | | Gas Station | 16 VFP |
| P10 | Perris Valley Town Center (West Side) | Perris | Retail | 28.000 TSF |
| | | | Fast-Food w/ Drive-Thru | 2.200 TSF |
| P11 | Malbert Cultivation | Perris | Cultivation | 33.000 TSF |
| P12 | Marijuana Manufacturing | Perris | Manufacturing | 61.050 TSF |
| P13 | Perez Indus | Perris | Warehousing | 2.500 TSF |
| P14 | South Perris Industrial Project | Perris | High-Cube Warehouse | 7,394.048 TSF |

| No. | Project Name / Case Number | Jurisdiction | Land Use | Quantity Units ¹ |
|------|----------------------------|--------------|---|-----------------------------|
| P15 | Perris Airport Center | Perris | High-Cube Warehouse | 704.480 TSF |
| | | | Truck Trailer Yard | 371 Spaces |
| P16 | GVSP - Track 37262 | Perris | Single Family Housing | 191 DU |
| P17 | GVSP - Track 37716 | Perris | Multifamily Housing | 97 DU |
| P18 | GVSP - Track 37722 | Perris | Single Family Housing | 116 DU |
| P19 | GVSP - Track 37817 | Perris | Multifamily Housing | 227 DU |
| P20 | GVSP - Track 37818 | Perris | Single Family Housing | 138 DU |
| P21 | GVSP - Track 37818 | Perris | Multifamily Housing | 236 DU |
| P22 | GVSP - Track 37223 | Perris | Single Family Housing | 235 DU |
| RC1 | Stoneridge | County | High-Cube Cold Storage | 1,695.355 TSF |
| | | | High-Cube Fulfillment | 2,966.872 TSF |
| | | | High-Cube Warehouse | 2,966.872 TSF |
| | | | Manufacturing | 847.678 TSF |
| | | | Warehousing | 427.759 TSF |
| | | | Industrial Park | 641.639 TSF |
| | | | Free-Standing Discount Store | 100.000 TSF |
| | | | Commercial Retail | 21.968 TSF |
| RC2 | TTM/TR37358 | County | Residential lots | 154 DU |
| RC3 | TR36712 | County | Single Family Lots | 74 DU |
| RC4 | TTM37728 | County | 228 Lot Schedule a Tentative Map | 228 DU |
| RC5 | SP00344/TR35045 | County | Residential with Park/Open Space/School/Basin | 796 DU |
| R6 | Ellis/Sherman Warehouses | County | High-Cube Fulfillment | 1,374.688 TSF |
| | | | High-Cube Cold Storage | 242.592 TSF |
| RC7 | TR31687 | County | Single Family Residential | 65 DU |
| RC8 | TR36635 | County | Residential, 6.0 Acres Park/ Basin | 283 DU |
| RC9 | TR36665 | County | Residential lots with 14 Open Space lots | 587 DU |
| RC10 | TR37134 | County | Single Family Residential | 73 DU |

¹ DU = Dwelling Units; TSF = Thousand Square Feet; VFP = Vehicle Fueling Positions

EXHIBIT 4-4: CUMULATIVE DEVELOPMENT LOCATION MAP

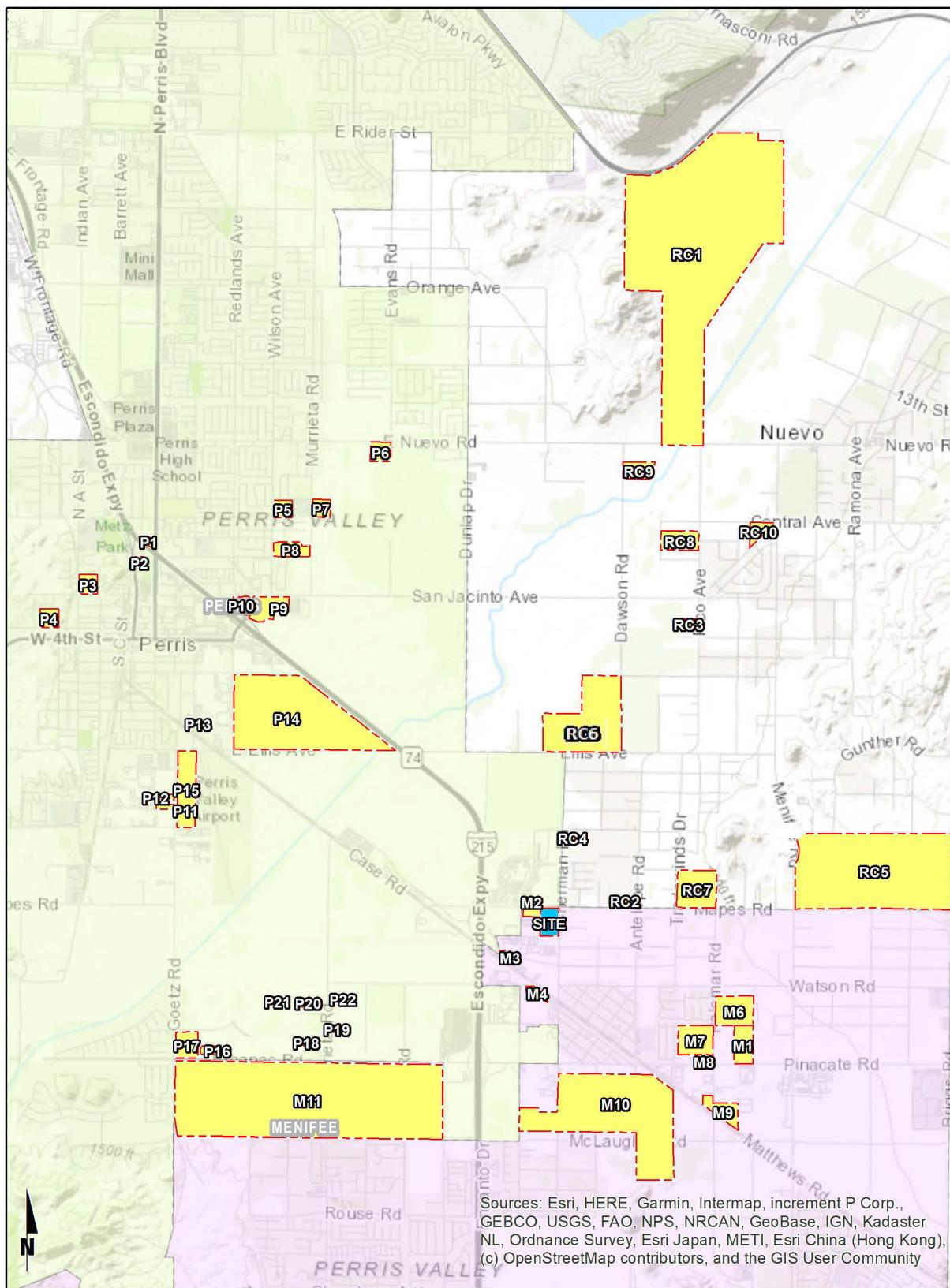
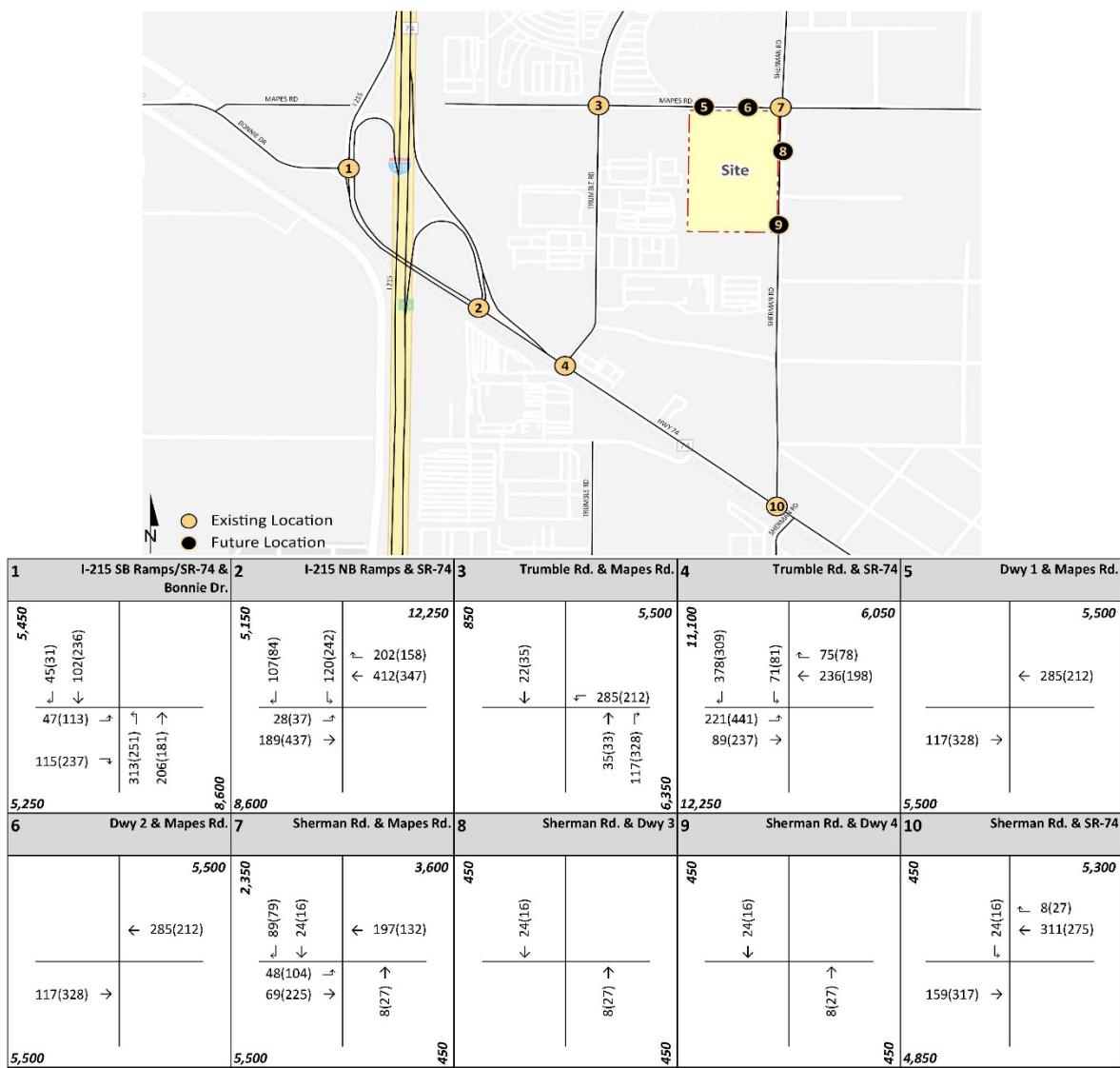


EXHIBIT 4-5: CUMULATIVE ONLY TRAFFIC VOLUMES



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5 E+P TRAFFIC CONDITIONS

This section discusses the traffic forecasts for Existing plus Project (E+P) conditions and the resulting intersection operations, traffic signal warrant, and off-ramp queuing analyses.

5.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for E+P conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for E+P conditions only (e.g., intersection and roadway improvements at the Project's frontage and driveways).

5.2 EXISTING PLUS PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes plus Project traffic. The weekday ADT and weekday/weekend peak hour intersection turning movement volumes which can be expected for E+P traffic conditions are shown on Exhibit 5-1.

5.3 INTERSECTION OPERATIONS ANALYSIS

E+P peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2 *Methodologies* of this TA. The intersection analysis results are summarized on Table 5-1 for E+P traffic conditions, which indicate that all of the study area intersections are anticipated to continue to operate at an acceptable LOS under E+P traffic conditions, consistent with Existing traffic conditions.

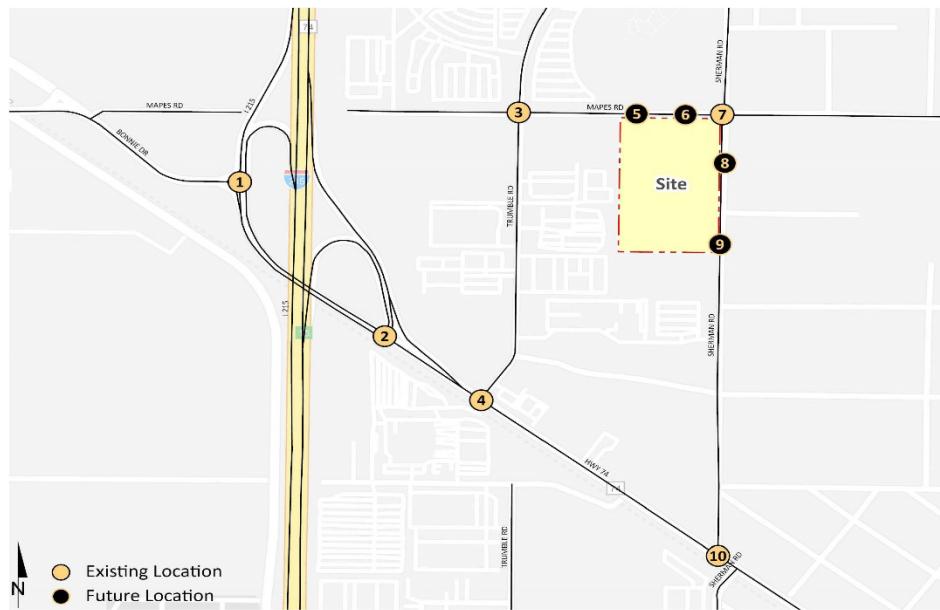
TABLE 5-1: INTERSECTION ANALYSIS FOR E+P CONDITIONS

| # Intersection | Traffic Control ¹ | Existing (2022) | | | | E+P | | | |
|-------------------------------------|------------------------------|-------------------------------|------|---------------------|----|-------------------------------|------|---------------------|----|
| | | Delay ² (secs.) | | Level of Service | | Delay ² (secs.) | | Level of Service | |
| | | AM | PM | AM | PM | AM | PM | AM | PM |
| 1 I-215 SB Ramps/SR-74 & Bonnie Dr. | TS | 10.2 | 12.3 | B | B | 10.3 | 12.4 | B | B |
| 2 I-215 NB Ramps & SR-74 | TS | 8.0 | 8.3 | A | A | 8.2 | 8.4 | A | A |
| 3 Trumble Rd. & Mapes Rd. | AWS | 10.9 | 11.0 | B | B | 11.2 | 11.4 | B | B |
| 4 Trumble Rd. & SR-74 | TS | 17.7 | 12.0 | B | B | 18.8 | 12.8 | B | B |
| 5 Dwy 1 & Mapes Rd. | CSS | Future Intersection | | | | 10.4 | 11.0 | B | B |
| 6 Dwy 2 & Mapes Rd. | CSS | Future Intersection | | | | 0.0 | 0.0 | A | A |
| 7 Sherman Rd. & Mapes Rd. | CSS | 10.7 | 11.0 | B | B | 10.7 | 11.1 | B | B |
| 8 Sherman Rd. & Dwy 3 | CSS | Future Intersection | | | | 8.6 | 8.5 | A | A |
| 9 Sherman Rd. & Dwy 4 | CSS | Future Intersection | | | | 8.7 | 8.7 | A | A |
| 10 Sherman Rd. & SR-74 | CSS | 11.6 | 10.9 | B | B | 11.7 | 11.0 | B | B |

¹ TS = Traffic Signal; CSS = Cross-Street Stop; CSS = Improvement

² Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

EXHIBIT 5-1: E+P TRAFFIC VOLUMES



| 1 | I-215 SB Ramps/SR-74 & 2 Bonnie Dr. | 2 | I-215 NB Ramps & SR-74 | 3 | Trumble Rd. & Mapes Rd. | 4 | Trumble Rd. & SR-74 | 5 | Dwy 1 & Mapes Rd. |
|------------------------|--|------------|------------------------------------|----------------------------------|---|---------------------|--------------------------|----------------------------------|------------------------|
| 13,550 | | | 10,100 | 27,150 | 4,200 | 5,900 | 9,300 | 18,900 | 5,350 |
| ↓ 37(47) ↓ 492(733) | | | ↓ 12(37) ↓ 188(210) | ↑ 664(582) ← 644(490) | ↓ 2(2) ↓ 4(52) | ↑ 6(10) ← 12(1) | ↓ 535(386) ↓ 37(44) | | ← 278(177) |
| 22(19) ↓ 270(227) ↓ | 234(169) ↓ | 386(300) → | 28(13) ↓ 698(889) → | 1(0) ↓ 22(6) ↓ 56(6) ↓ | 1(0) ↓ 62(10) ↓ 132(81) ↑ 160(226) → | 266(187) 16(187) | 325(304) → 560(793) → | | |
| 5,600 | 17,500 | | 17,500 | 300 | 8,500 | 27,150 | 5,650 | 172(277) → 14(6) ↓ 6(21) ↑ | 250 |
| 6 | Dwy 2 & Mapes Rd. | 7 | Sherman Rd. & Mapes Rd. | 8 | Sherman Rd. & Dwy 3 | 9 | Sherman Rd. & Dwy 4 | 10 | Sherman Rd. & SR-74 |
| | | 5,300 | 900 | 4,900 | 950 | 1,000 | 1,000 | 1,300 | 17,250 |
| | | ↓ 278(177) | ↓ 24(27) ↓ 2(7) ↓ 5(2) | ↑ 2(4) ← 251(141) ↓ 12(11) | ↓ 2(1) ↓ 57(43) | ↓ 6(3) ↓ 0(2) | ↓ 53(47) | ↓ 107(90) | ↑ 14(18) ← 640(564) |
| 166(274) → 5(3) ↓ | 5(3) → | 5,350 | 15(26) ↓ 106(222) → 45(26) → | 3(9) ↑ 14(6) ↑ 16(20) | 2(7) ↓ 33(35) ↑ | 2(1) ↓ 33(35) ↑ | 2(9) ↓ 35(34) ↑ | 554(829) → | |
| 5,350 | Nominal | 5,300 | 950 | 100 | 150 | 1,050 | 1,050 | 18,100 | |

##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

5.4 TRAFFIC SIGNAL WARRANTS ANALYSIS

Traffic signal warrants have been performed for E+P traffic conditions based on peak hour intersection turning movements volumes. There are no study area intersections anticipated to meet peak hour volume-based traffic signal warrant under E+P traffic conditions (see Appendices 5.2).

5.5 OFF-RAMP QUEUING CAPACITY ANALYSIS

Queuing analysis findings for E+P are presented on Table 5-2. As shown on Table 5-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows with the addition of Project traffic. Worksheets for E+P traffic conditions queuing analysis are provided in Appendix 5.3.

TABLE 5-2: PEAK HOUR OFF-RAMP QUEUING SUMMARY FOR E+P CONDITIONS

| Intersection | Movement | Available Stacking Distance (Feet) | Existing (2022) | | | | E+P | | | |
|--|----------|--|---------------------------------|---------|--------------------------|-----|---------------------------------|---------|--------------------------|-----|
| | | | 95th Percentile Queue (Feet) | | Acceptable? ¹ | | 95th Percentile Queue (Feet) | | Acceptable? ¹ | |
| | | | AM Peak | PM Peak | AM | PM | AM Peak | PM Peak | AM | PM |
| I-215 SB Ramps/SR-74 & Bonnie Dr. (#1) | SBT | 1,450 | 286 | 449 | Yes | Yes | 296 | 456 | Yes | Yes |
| | SBR | 50 | 21 | 22 | Yes | Yes | 21 | 22 | Yes | Yes |
| | SBL/R | 1,440 | 109 | 123 | Yes | Yes | 116 | 127 | Yes | Yes |

¹ Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 25 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

² 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

³ Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the I-215 Freeway mainline.

5.6 PROJECT DEFICIENCIES AND RECOMMENDED IMPROVEMENTS

As shown on Table 5-1 and Table 5-2, the addition of Project traffic is not anticipated to result in any peak hour intersection or roadway segment deficiencies. As such, no improvements have been recommended. However, the Project should contribute its fair share towards future traffic signals at the intersections of Trumble Road at Mapes Road and Sherman Road at Mapes Road (see Section 7.3).

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6 OPENING YEAR CUMULATIVE (2024) TRAFFIC CONDITIONS

This section discusses the methods used to develop Opening Year Cumulative (2024) Without and With Project traffic forecasts, and the resulting intersection operations, traffic signal warrant, and off-ramp analyses.

6.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for Opening Year Cumulative (2024) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for Opening Year Cumulative conditions only (e.g., intersection and roadway improvements along the Project's frontage and driveways).
- If applicable, driveways and those facilities assumed to be constructed by cumulative developments to provide site access are also assumed to be in place for Opening Year Cumulative conditions only.

6.2 WITHOUT PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes, ambient background growth of 4.04%, plus traffic from pending and approved but not yet constructed known development projects in the area. The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Opening Year Cumulative (2024) Without Project traffic conditions are shown on Exhibit 6-1.

6.3 WITH PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Opening Year Cumulative (2024) Without Project traffic in conjunction with the addition of Project traffic. The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Opening Year Cumulative (2024) With Project traffic conditions are shown on Exhibit 6-2.

EXHIBIT 6-1: OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC VOLUMES

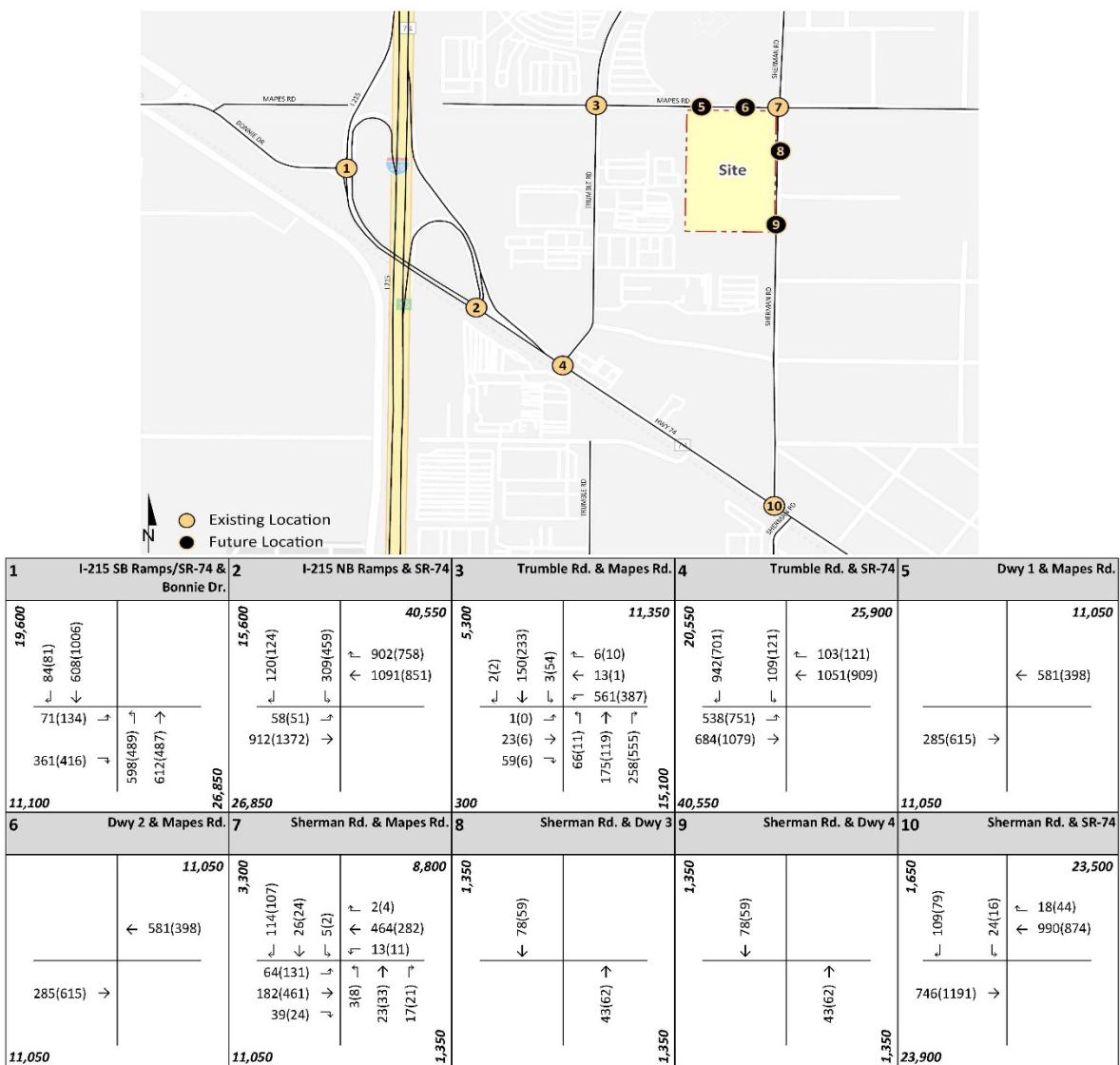


EXHIBIT 6-2: OPENING YEAR CUMULATIVE (2024) WITH PROJECT TRAFFIC VOLUMES



6.4 INTERSECTION OPERATIONS ANALYSIS

6.4.1 OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC CONDITIONS

Opening Year Cumulative (2024) Without Project peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2 *Methodologies* of this TA. The intersection analysis results are summarized on Table 5-1 for Opening Year Cumulative (2024) traffic conditions, which indicate that the following study area intersection is anticipated to operate at an unacceptable LOS under Opening Year Cumulative (2024) Without Project traffic conditions:

- I-215 Southbound Ramps/SR-74 & Bonnie Dr. (#1) – LOS E PM peak hour only
- Trumble Road & Mapes Road (#3) – LOS F PM peak hour only
- Sherman Road & SR-74 (#4) – LOS F AM and PM peak hour

The intersection operations analysis worksheets for Opening Year Cumulative (2024) Without Project traffic conditions are included in Appendix 6.1 of this TA.

6.4.2 OPENING YEAR CUMULATIVE (2024) WITH PROJECT TRAFFIC CONDITIONS

As shown on Table 6-1, the addition of Project traffic is not anticipated to result in any additional deficiencies. The intersection operations analysis worksheets for Opening Year Cumulative (2024) With Project traffic conditions are included in Appendix 6.2 of this TA

TABLE 6-1: INTERSECTION ANALYSIS FOR OPENING YEAR CUMULATIVE (2024) CONDITIONS

| # Intersection | Traffic Control ¹ | 2024 Without Project | | | | 2024 With Project | | | |
|-------------------------------------|------------------------------|-------------------------------|--------------|------------------|----|-------------------------------|--------------|------------------|----|
| | | Delay ² (secs.) | | Level of Service | | Delay ² (secs.) | | Level of Service | |
| | | AM | PM | AM | PM | AM | PM | AM | PM |
| 1 I-215 SB Ramps/SR-74 & Bonnie Dr. | TS | 34.0 | 123.2 | C | F | 35.9 | 124.9 | D | F |
| 2 I-215 NB Ramps & SR-74 | TS | 16.3 | 25.1 | B | C | 16.8 | 25.9 | B | C |
| 3 Trumble Rd. & Mapes Rd. | AWS | 21.2 | 89.3 | C | F | 23.0 | 97.7 | C | F |
| 4 Trumble Rd. & SR-74 | TS | 123.5 | 105.2 | F | F | 128.9 | 112.0 | F | F |
| 5 Dwy 1 & Mapes Rd. | <u>CSS</u> | Future Intersection | | | | 12.2 | 15.0 | B | C |
| 6 Dwy 2 & Mapes Rd. | <u>CSS</u> | Future Intersection | | | | 0.0 | 0.0 | A | A |
| 7 Sherman Rd. & Mapes Rd. | <u>CSS</u> | 15.4 | 22.7 | C | C | 15.5 | 23.3 | C | C |
| 8 Sherman Rd. & Dwy 3 | <u>CSS</u> | Future Intersection | | | | 8.7 | 8.6 | A | A |
| 9 Sherman Rd. & Dwy 4 | <u>CSS</u> | Future Intersection | | | | 8.7 | 8.8 | A | A |
| 10 Sherman Rd. & SR-74 | <u>CSS</u> | 14.5 | 13.1 | B | B | 14.6 | 13.4 | B | B |

* **BOLD** = LOS does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

¹ TS = Traffic Signal; CSS = Cross-Street Stop; CSS = Improvement

² Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

6.5 TRAFFIC SIGNAL WARRANTS ANALYSIS

Traffic signal warrants have been performed for Opening Year Cumulative (2024) traffic conditions based on peak hour intersection turning movements volumes. The intersections of Trumble Road at Mapes Road and Sherman Road at Mapes Road are anticipated to meet peak hour volume-based traffic signal warrants under Opening Year Cumulative (2024) Without Project traffic conditions (see Appendix 6.3). There is no additional unsignalized study area intersections anticipated to meet traffic signal warrants under Opening Year Cumulative (2024) With Project traffic conditions in addition to the locations previously warranted under Opening Year Cumulative (2024) Without Project traffic conditions (see Appendix 6.4).

6.6 OFF-RAMP QUEUING ANALYSIS

Queuing analysis findings for Opening Year Cumulative (2024) Without Project traffic conditions are presented on Table 6-2. As shown on Table 6-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows with the addition of Project traffic. Worksheets for Opening Year Cumulative (2024) Without and With Project traffic conditions queuing analysis are provided in Appendix 6.5 and Appendix 6.6, respectively.

TABLE 6-2: PEAK HOUR OFF-RAMP QUEUING ANALYSIS FOR OPENING YEAR CUMULATIVE (2024) CONDITIONS

| Intersection | Movement | Available Stacking Distance (Feet) | 2024 Without Project | | | | 2024 With Project | | | |
|--|----------|--|---------------------------------|------------------|--------------------------|-----|---------------------------------|------------------|--------------------------|-----|
| | | | 95th Percentile Queue (Feet) | | Acceptable? ¹ | | 95th Percentile Queue (Feet) | | Acceptable? ¹ | |
| | | | AM Peak | PM Peak | AM | PM | AM Peak | PM Peak | AM | PM |
| I-215 SB Ramps/SR-74 & Bonnie Dr. (#1) | SBT | 1,450 | 467 ² | 990 ² | Yes | Yes | 486 ² | 998 ² | Yes | Yes |
| | SBR | 50 | 41 | 42 | Yes | Yes | 41 | 42 | Yes | Yes |
| I-215 NB Ramps & SR-74 (#2) | SBL/R | 1,440 | 413 | 602 ² | Yes | Yes | 428 ² | 609 ² | Yes | Yes |

¹ Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 25 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

² 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

³ Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the I-215 Freeway mainline.

6.7 DEFICIENCIES AND IMPROVEMENTS

This section provides a summary of Project deficiencies and recommended improvements. Based on the City of Menifee deficiency criteria discussed in Section 2.6 *Deficiency Criteria*, roadway segments were found to be deficient. Improvements necessary to improve project-related traffic deficiencies are also discussed below.

6.6.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS

Table 6-3 indicates the improvements needed to address LOS deficiencies at each of the study area intersections under Opening Year Cumulative (2024) With Project traffic conditions. The improvements have been identified to improve the Opening Year Cumulative (2024) With Project deficiencies back to acceptable levels. Intersection analysis worksheets for Opening Year Cumulative (2024) With Project traffic conditions, with improvements, are provided in Appendix 6.7.

The recommended northbound left turn lane at the intersection of I-215 Southbound Ramps/SR-74 and Bonnie Drive is anticipated due to the high volume from ambient growth and future cumulative development projects. Additional intersection improvements may be needed to accommodate the recommended northbound left turn lane such as the following (but not limited to):

- Reconstruction of the intersection will be required to accommodate a 2nd northbound left turn lane on SR-74. Modifications may also be required to the westbound free-right turn lane.
- Widening of Bonnie Drive to accommodate a 2nd receiving lane. Modifications will be required to the existing southbound right turn lane pork-chop island.

TABLE 6-3: INTERSECTION ANALYSIS FOR OPENING YEAR CUMULATIVE (2024) CONDITIONS WITH IMPROVEMENTS

| # | Intersection | Traffic Control ³ | Intersection Approach Lanes ¹ | | | | | | | | | | | | Delay ² (secs.) | | Level of Service | |
|---|-----------------------------------|------------------------------|--|-------|-------|--------------|-------|-------|-----------|-------|-------|--------------|--------------|---|----------------------------|----|------------------|----|
| | | | Northbound | | | Southbound | | | Eastbound | | | Westbound | | | AM | PM | AM | PM |
| | | | L T R | L T R | L T R | L T R | L T R | L T R | L T R | L T R | L T R | AM | PM | D | F | | | |
| 1 | I-215 SB Ramps/SR-74 & Bonnie Dr. | | | | | | | | | | | | | | | | | |
| | - Without Improvements | TS | 1 1 0 | 0 1 1 | | 1 0 1>> | | | 0 0 0 | | | 35.9 | 124.9 | D | F | | | |
| | - With Improvements | TS | 2 1 0 | 0 1 1 | | 1 0 1>> | | | 0 0 0 | | | 13.6 | 24.1 | B | C | | | |
| 3 | Trumble Rd. & Mapes Rd. | | | | | | | | | | | | | | | | | |
| | - Without Improvements | CSS | 1 2 0 | 1 2 0 | | 0 2 0 | | | 2 1 0 | | | 23.0 | 97.7 | C | F | | | |
| | - With Improvements | TS | 1 2 0 | 1 2 0 | | 0 2 0 | | | 2 1 0 | | | 10.7 | 8.6 | B | A | | | |
| 4 | Trumble Rd. & SR-74 | | | | | | | | | | | | | | | | | |
| | - Without Improvements | TS | 0 0 0 | 1 0 1 | | 1 2 0 | | | 0 2 1 | | | 128.9 | 112.0 | F | F | | | |
| | - With Improvements | TS | 0 0 0 | 1 0 1 | | 2 2 0 | | | 0 2 1 | | | 36.8 | 19.5 | D | B | | | |

BOLD = LOS does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

¹ When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; >> = Free Right Turn Lane; **1** = Improvement

² Per the Highway Capacity Manual 6th Edition, overall average intersection delay and level of service are shown for intersections with a traffic signal or all-way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

³ CSS = Cross-Street Stop; TS = Traffic Signal

6.6.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES

As shown previously in Table 6-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows for Opening Year Cumulative (2024) With Project traffic conditions. As such, no improvements have been identified.

7 LOCAL AND REGIONAL FUNDING MECHANISMS

Transportation improvements within the City of Menifee are funded through a combination of improvements constructed by the Project, development impact fee programs or fair share contributions. Fee programs applicable to the Project are described below.

7.1 TRANSPORTATION UNIFORM MITIGATION FEE (TUMF) PROGRAM

The Western Riverside Council of Governments (WRCOG) is responsible for establishing and updating TUMF rates. The County may grant to developers a credit against the specific components of fees for the dedication of land, or the construction of facilities identified in the list of improvements funded by each of these fee programs. Fees are based upon projected land uses and a related transportation need to address growth based upon a 2016 Nexus study.

TUMF is an ambitious regional program created to address cumulative impacts of growth throughout western Riverside County. Program guidelines are being overseen on an iterative basis. Exemptions, credits, reimbursements, and local administration are being deferred to primary agencies. The County of Riverside serves this function for the proposed Project. Fees submitted to the County are passed on to the WRCOG as the ultimate program administrator.

TUMF guidelines empower a local zone committee to prioritize and arbitrate certain projects. The Project is located in the Central Zone. The zone has developed a 5-year capital improvement program to prioritize public construction of certain roads. TUMF is focused on improvements necessitated by regional growth.

7.2 CITY OF MENIFEE DEVELOPMENT IMPACT FEE (DIF) PROGRAM

The Project will also be subject to City of Menifee's DIF program which includes a component for roads and signals. The City's DIF program has been updated in July 2021 and discusses the local (as opposed to regional) streets and signal improvements planned for the City through build-out of the existing City limits.

7.3 MEASURE A

Measure A, Riverside County's half-cent sales tax for transportation, was adopted by voters in 1988 and extended in 2002. It will continue to fund transportation improvements through 2039. Measure A funds a wide variety of transportation projects and services throughout the County. RCTC is responsible for administering the program. Measure A dollars are spent in accordance with a voter-approved expenditure plan that was adopted as part of the 1988 election.

7.4 FAIR SHARE CONTRIBUTION

Project improvements may include a combination of fee payments to established programs, construction of specific improvements, payment of a fair share contribution toward future improvements or a combination of these approaches. Improvements constructed by development may be eligible for a fee credit or reimbursement through the program where appropriate (to be determined at the City's discretion). When off-site improvements are identified with a minor share of responsibility assigned to proposed development, the approving jurisdiction may elect to collect a fair share contribution or require the development to construct improvements. Pursuant to discussions with City staff, the Project will contribute its fair share towards future traffic signals planned at the intersections of Trumble Road at Mapes Road and Sherman Road at Mapes Road.

TABLE 7-1: PROJECT FAIR SHARE

| # | Intersection | Existing | Project Only | 2024 With Project | Net New Traffic | Project % of New Traffic |
|---|-------------------------|----------|--------------|-------------------|-----------------|--------------------------|
| 4 | Trumble Rd. & Mapes Rd. | | | | | |
| | AM: | 810 | 34 | 1,353 | 543 | 6.3% |
| | PM: | 731 | 36 | 1,420 | 689 | 5.2% |
| 7 | Sherman Rd. & Mapes Rd. | | | | | |
| | AM: | 488 | 8 | 960 | 472 | 1.7% |
| | PM: | 495 | 6 | 1,115 | 620 | 1.0% |

BOLD = Denotes highest fair share percentage.

As an exception, if a project contributes no more than 50 peak hour trips (general guideline) to a pre-project deficient intersection, then fair share contribution by the project is not applicable. Since the proposed Project would contribute 50 or fewer peak hour trips to the deficient intersections of the I-215 Southbound Ramps/SR-74 at Bonnie Drive and Trumble Road at SR-74, fair share percentages have not been calculated for these intersections.

8 REFERENCES

1. **City of Menifee.** *Traffic Impact Analysis Guidelines for Vehicle Miles Traveled.* City of Menifee : s.n., Adopted June 3, 2020, Updated January 2022.
2. **City of Menifee Engineering Department.** *LOS Traffic Study Guidelines.* Menifee : s.n., Revised October 2020.
3. **WSP.** *TUMF High-Cube Warehouse Trip Generation Study.* County of Riverside : s.n., January 29, 2019.
4. **Institute of Transportation Engineers.** *Trip Generation Manual.* 11th Edition. 2021.
5. **VRPA Technologies, Inc. for Riverside County Transportation Commission.** *Riverside County Long Range Transportation Study.* County of Riverside : VRPA Technologies, Inc., December 2019.
6. **Transportation Research Board.** *Highway Capacity Manual (HCM).* 6th Edition. s.l. : National Academy of Sciences, 2016.
7. **Caltrans.** California Manual on Uniform Traffic Control Devices (MUTCD). [book auth.] California Department of Transportation. *California Manual on Uniform Traffic Control Devices (CAMUTCD).* 2017.
8. **Circulation Element C-1: Roadway System.** The City of Menifee, California. **[Online] [Cited: 2014 йил 30-May.]** <https://www.cityofmenifee.us/215/C-1-Roadway-System>.

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APPENDIX 1.1: TRAFFIC STUDY SCOPING AGREEMENT

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CITY OF MENIFEE
MEMORANDUM
PUBLIC WORKS/ENGINEERING DEPARTMENT

DATE: July 20, 2022
TO: Chet Robinson, Senior Engineer
FROM: Stephen Manganiello, Contract Traffic Engineer
CC: Rob Blough, City Traffic Engineer
SUBJECT: DEV 2022-003 Mapes and Sherman Warehouse – Scoping Agreement Review 2

Traffic Engineering has completed the review of DEV 2022-003 Mapes and Sherman Warehouse Scoping Agreement Memo, dated June 16, 2022 and have no further comments.

If you have any questions on these comments please contact Stephen Manganiello, Contract Traffic Engineer, at stephen.manganiello@stctrain.com



New. Better. Best.

City of Menifee TIA Guidelines
January 2022

Attachment A: Project Scoping Form

This scoping form shall be completed and submitted to the City of Menifee to assist in identifying infrastructure improvements that may be required to support traffic from the proposed project.

Project Identification:

| | |
|-----------------------|---|
| Case Number: | |
| Related Cases: | |
| SP No. | |
| EIR No. | |
| GPA No. | |
| CZ No. | |
| Project Name: | Mapes and Sherman Commerce Center |
| Project Address: | southwest corner of Sherman Road and Mapes Road |
| Project Opening Year: | 2024 |
| Project Description: | 277,578 square feet of high-cube fulfillment center use |

| | Consultant: | Developer: |
|------------|---|---|
| Name: | Urban Crossroads - Charlene So | CIVF VI-CA4BO2, LLC - Michael Gregg |
| Address: | 1133 Camelback St, #8329 Newport Beach, CA 92658 | 1 Beacon Street, Suite 2800 Boston, MA 02108 |
| Telephone: | 949-861-0177 | 805-215-6453 |
| Fax/Email: | cso@urbanxroads.com | |

Trip Generation Information:

Trip Generation Data Source: WPS, High Cube Warehouse

Current General Plan Land Use:
EDC-NG Industrial

Proposed General Plan Land Use:
EDC-NG Industrial

Current Zoning:
EDC-NG Industrial

Proposed Zoning:
EDC-NG Industrial



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| | Existing Trip Generation | | | Proposed Trip Generation (PCE) | | |
|----------|--------------------------|-----|-------|--------------------------------|-----|-------|
| | In | Out | Total | In | Out | Total |
| AM Trips | | | | 32 | 10 | 42 |
| PM Trips | | | | 15 | 39 | 54 |

Trip Internalization: Yes No (_____ % Trip Discount)

Pass-By Allowance: Yes No (_____ % Trip Discount)

Potential Screening Checks

Is your project screened from specific analyses (see Page 5 of the guidelines related to LOS assessment).

Is the project screened from VMT assessment? Yes No

VMT screening justification (see Pages 10-12 of the guidelines): _____
The Project is located in TAZ 1098 in the RIVCOM model. TAZ has a VMT per SP of 32.1. Where
the Riverside County Buildout VMT per SP is 33.6. The Project is in a Low VMT Area.

VMT Analysis Scoping

For projects that are not screened, identify the following:

- Travel Demand Forecasting Model Used N/A
- Attach WRCOG Screening VMT Assessment output or describe why it is not appropriate for use
- Attach proposed Model Land Use Inputs and Assumed Conversion Factors (attach)

Signatures

TIA Preparer: _____ City (Approved by): _____

WRCOG VMT Tool

Powered by Fehr & Peers

User's Guide

Bradley Rd

Mapes Rd & Sherman Rd, Menifee

Show search results for Mapes Rd & ...

Complete #1-4, Then Click "Run"

VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*

OD VMT Per Service Population

#3. Select the Baseline Year. The year available for analysis are from 2018 to 2045.*

2022

#4. Select the Threshold (% reduction from baseline year). Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*

Below County Future Buildout (0%)

Help

Run

(1 of 3)

| | |
|--------------------------------------|-------------------------------|
| OBJECTID | 4 |
| Assessor Parcel Number (APN) | 329030049 |
| Traffic Analysis Zone (TAZ) | 1098 |
| Community Region | MENIFEE |
| Inside a Transit Priority Area (TPA) | No |
| TAZ VMT | 32.1 |
| Jurisdiction VMT | 33.6 |
| % Difference | -4.48% |
| VMT Metric | OD VMT Per Service Population |
| Threshold | 33.6 |
| Zoom to | ... |

Layer List

Layers

- Output_Parcels
- Selected Project Area
- Low VMT Generating TAZs
- TAZ Boundaries (Zoom in to view)
- Parcels (Zoom in to view)
- Transit Priority Area
- WRCOG Cities
- WRCOG Boundary

600ft

117.182 33.770 Degrees

1.1.4

Fehr & Peers Community Maps Contributors, Loma Linda

June 16, 2022

Mr. Rob Blough
City of Menifee
29714 Haun Road
Menifee, CA 92586

MAPES AND SHERMAN COMMERCE CENTER TRAFFIC ANALYSIS SCOPING AGREEMENT

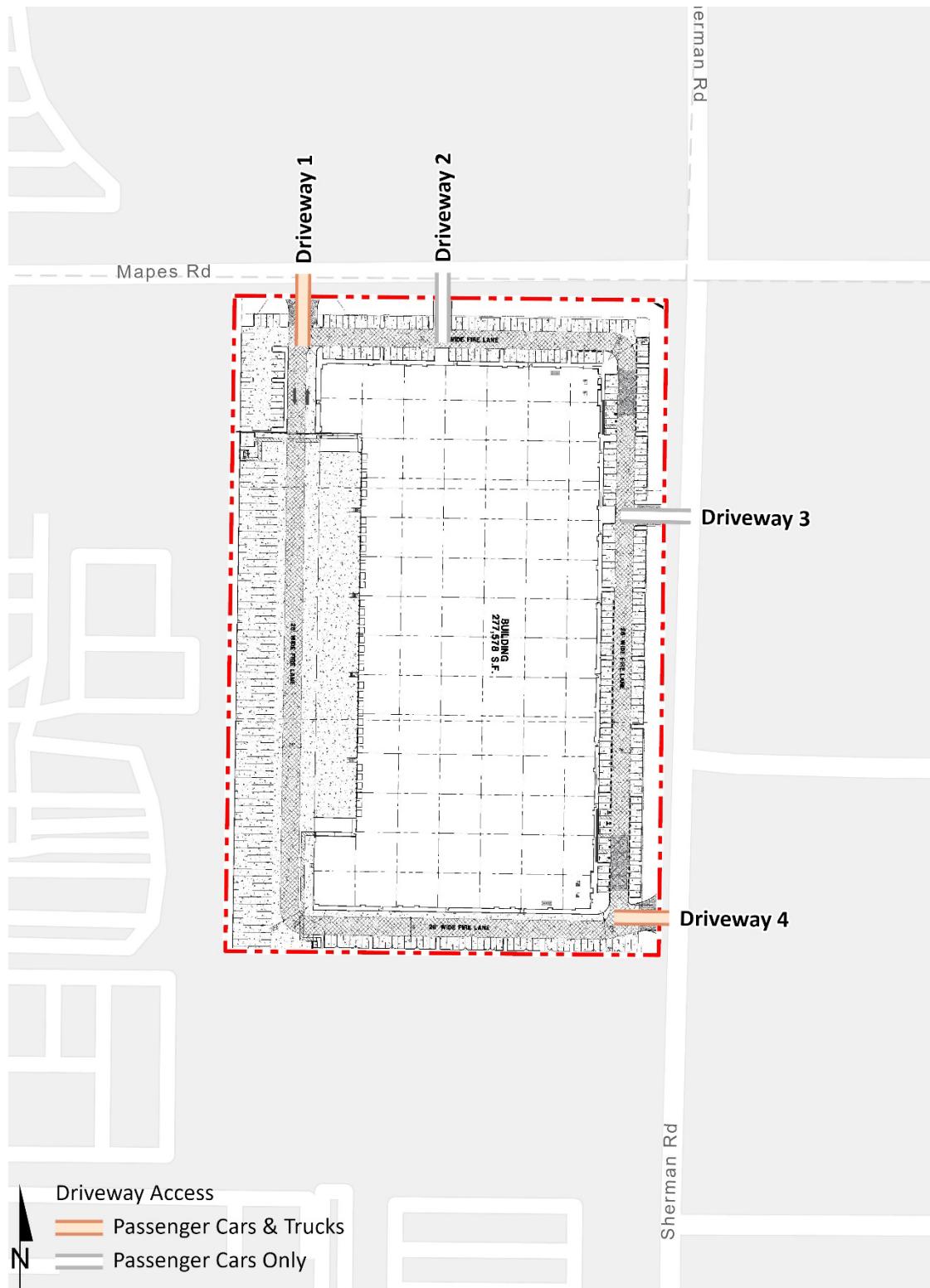
Mr. Rob Blough,

The firm of Urban Crossroads, Inc. is pleased to submit this scoping letter regarding the traffic analysis for Mapes and Sherman Commerce Center development (**Project**), which is located on the southwest corner of Sherman Road and Mapes Road in the City of Menifee. This letter describes the proposed Project trip generation, trip distribution, and analysis methodology, which have been used to establish the draft proposed Project study area and analysis locations. The following scope of work is based on the City's Traffic Impact Analysis Guidelines for Vehicle Miles Traveled (updated January 2022) (**City Guidelines**).

PROPOSED PROJECT

The Project is proposed to consist of a 277,578 square foot high-cube fulfillment center warehouse building (see Exhibit 1). The proposed Project is anticipated to be a non-sort facility. As currently designed, the proposed site cannot accommodate the parking needed to support a sort facility. The proposed Project is anticipated to have an opening year of 2024. Access is proposed along both Mapes Road and Sherman Road for both passenger cars and trucks (with primary truck access on Mapes Road and secondary truck access on Sherman Road).

EXHIBIT 1: PRELIMINARY SITE PLAN



TRIP GENERATION

Trip generation represents the amount of traffic that is attracted and produced by a development and is based upon the specific land uses planned for a given project. In order to develop the traffic characteristics of the proposed project, trip generation was calculated based on estimates provided in the High Cube Warehouse Trip Generation Study (WSP, January 2019):

- High-Cube Fulfillment Center Warehouse has been used to derive site specific trip generation estimates for up to 277,578 square feet of the proposed Project (75% of the building square footage). The Institute of Transportation Engineers (ITE) Trip Generation Manual has trip generation rates for high-cube fulfillment center use for both non-sort and sort facilities (ITE land use code 155). While there is sufficient data to support use of the trip generation rates for non-sort facilities, the sort facility rate appears to be unreliable because they are based on limited data (i.e., one to two surveyed sites). The proposed Project is speculative and whether a non-sort or sort facility end-user would occupy the buildings is not known at this time. Lastly, the ITE Trip Generation Manual recommends the use of local data sources where available. As such, the best available source for high-cube fulfillment center use would be the trip-generation statistics published in the High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019) which was commissioned by the Western Riverside Council of Governments (WRCOG) in support of the Transportation Uniform Mitigation Fee (TUMF) update in the County of Riverside. The WSP trip generation rates were published in January 2019 and are based on data collected at 11 local high-cube fulfillment center sites located throughout Southern California (specifically Riverside County and San Bernardino County). However, the WSP study does not include a split for inbound and outbound vehicles, as such, the inbound and outbound splits per the ITE Trip Generation Manual for Land Use Code 154 have been utilized. The truck percentages were further broken down by axle type per the following SCAQMD recommended truck mix: 2-Axle = 16.7%; 3-Axle = 20.7%; 4+ Axle = 62.6%.

The trip generation rates are provided on Table 1. The Project trip generation summary is shown on Table 2 for actual vehicles. The proposed Project is anticipated to generate a total of 592 two-way trips per day with 35 AM peak hour trips and 46 PM peak hour trips (actual vehicles). Project trip generation is also provided in passenger car equivalent (PCE) as the peak hour intersection operations analyses would utilize PCE volumes. The PCE volumes will be used for the peak hour operations analysis. As shown on Table 2, the Project is anticipated to generate a total of 758 two-way PCE trips per day with 42 AM PCE peak hour trips and 54 PM PCE peak hour trips.

TABLE 1: TRIP GENERATION RATES

| Land Use | Units ² | ITE LU Code | AM Peak Hour | | | PM Peak Hour | | | Daily |
|---|--------------------|-------------|--------------|-------|-------|--------------|-------|-------|-------|
| | | | In | Out | Total | In | Out | Total | |
| Actual Vehicle Trip Generation Rates | | | | | | | | | |
| High-Cube Fulfillment Center Warehouse ¹ | TSF | -- | 0.094 | 0.028 | 0.122 | 0.046 | 0.119 | 0.165 | 2.129 |
| Passenger Cars | | | 0.079 | 0.024 | 0.103 | 0.040 | 0.104 | 0.144 | 1.750 |
| 2-4 Axle Trucks | | | 0.006 | 0.002 | 0.008 | 0.003 | 0.008 | 0.011 | 0.162 |
| 5+-Axle Trucks | | | 0.008 | 0.003 | 0.011 | 0.003 | 0.007 | 0.010 | 0.217 |
| Passenger Car Equivalent (PCE) Trip Generation | | | | | | | | | |
| High-Cube Fulfillment Center Warehouse ¹ | TSF | -- | 0.094 | 0.028 | 0.122 | 0.046 | 0.119 | 0.165 | 2.129 |
| Passenger Cars | | | 0.079 | 0.024 | 0.103 | 0.040 | 0.104 | 0.144 | 1.750 |
| 2-4 Axle Trucks (PCE = 2.0) | | | 0.012 | 0.004 | 0.016 | 0.006 | 0.016 | 0.022 | 0.324 |
| 5+-Axle Trucks (PCE = 3.0) | | | 0.025 | 0.008 | 0.033 | 0.008 | 0.022 | 0.030 | 0.651 |

¹ Vehicle Mix Source: [High Cube Warehouse Trip Generation Study](#), WSP, January 29, 2019.

Inbound and outbound split source: ITE [Trip Generation Manual](#), Eleventh Edition (2021) for ITE Land Use Code 154.

² TSF = thousand square feet

TABLE 2: PROJECT TRIP GENERATION SUMMARY

| Land Use | Quantity | Units ¹ | AM Peak Hour | | | PM Peak Hour | | | Daily |
|--|----------|--------------------|--------------|-----------|-----------|--------------|-----------|-----------|------------|
| | | | In | Out | Total | In | Out | Total | |
| Actual Vehicles: | | | | | | | | | |
| High-Cube Fulfillment | 277.578 | TSF | 22 | 7 | 29 | 11 | 29 | 40 | 486 |
| Passenger Cars: | | | 2 | 1 | 3 | 1 | 2 | 3 | 46 |
| 2-4axle Trucks: | | | 2 | 1 | 3 | 1 | 2 | 3 | 60 |
| 5+-axle Trucks: | | | 4 | 2 | 6 | 2 | 4 | 6 | 106 |
| Total Truck Trips (Actual Vehicles): | | | 26 | 9 | 35 | 13 | 33 | 46 | 592 |
| Total Trips (Actual Vehicles)² | | | | | | | | | |
| Passenger Car Equivalent (PCE): | | | 22 | 7 | 29 | 11 | 29 | 40 | 486 |
| High-Cube Fulfillment | 277.578 | TSF | 3 | 1 | 4 | 2 | 4 | 6 | 90 |
| Passenger Cars: | | | 7 | 2 | 9 | 2 | 6 | 8 | 182 |
| 2-4axle Trucks: | | | 10 | 3 | 13 | 4 | 10 | 14 | 272 |
| 5+-axle Trucks: | | | 32 | 10 | 42 | 15 | 39 | 54 | 758 |
| Total Truck Trips (PCE): | | | | | | | | | |
| Total Trips (PCE)² | | | | | | | | | |

¹ TSF = thousand square feet

² Total Trips = Passenger Cars + Truck Trips.

TRIP DISTRIBUTION

Trip distribution is the process of identifying the probable destinations, directions or traffic routes that will be utilized by Project traffic. The potential interaction between the planned land uses and surrounding regional access routes are considered, to identify the route where the Project traffic would distribute. The Project trip distribution and assignment process represents the directional orientation of traffic to and from the Project site. The trip distribution pattern of passenger cars is heavily influenced by the geographical location of the site, the location of surrounding land uses, and the proximity to the regional freeway system.

The trip distribution pattern for truck traffic is also influenced by the local truck routes. Given these differences, separate trip distributions were generated for both passenger cars and truck trips. The Project truck and passenger car trip distribution patterns are graphically depicted on Exhibits 2 and 3, respectively.

EXHIBIT 2: PROJECT (TRUCK) TRIP DISTRIBUTION

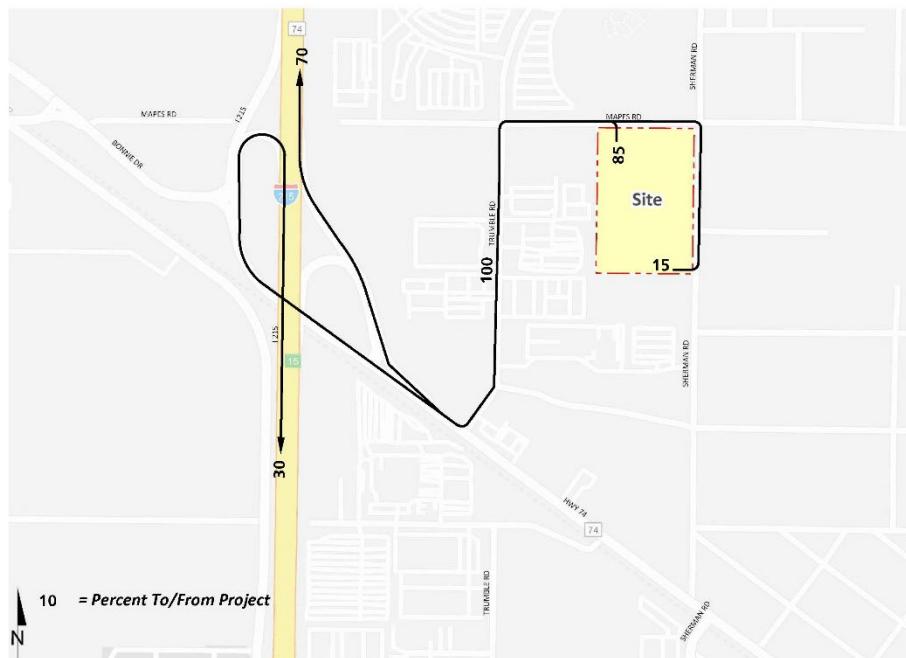
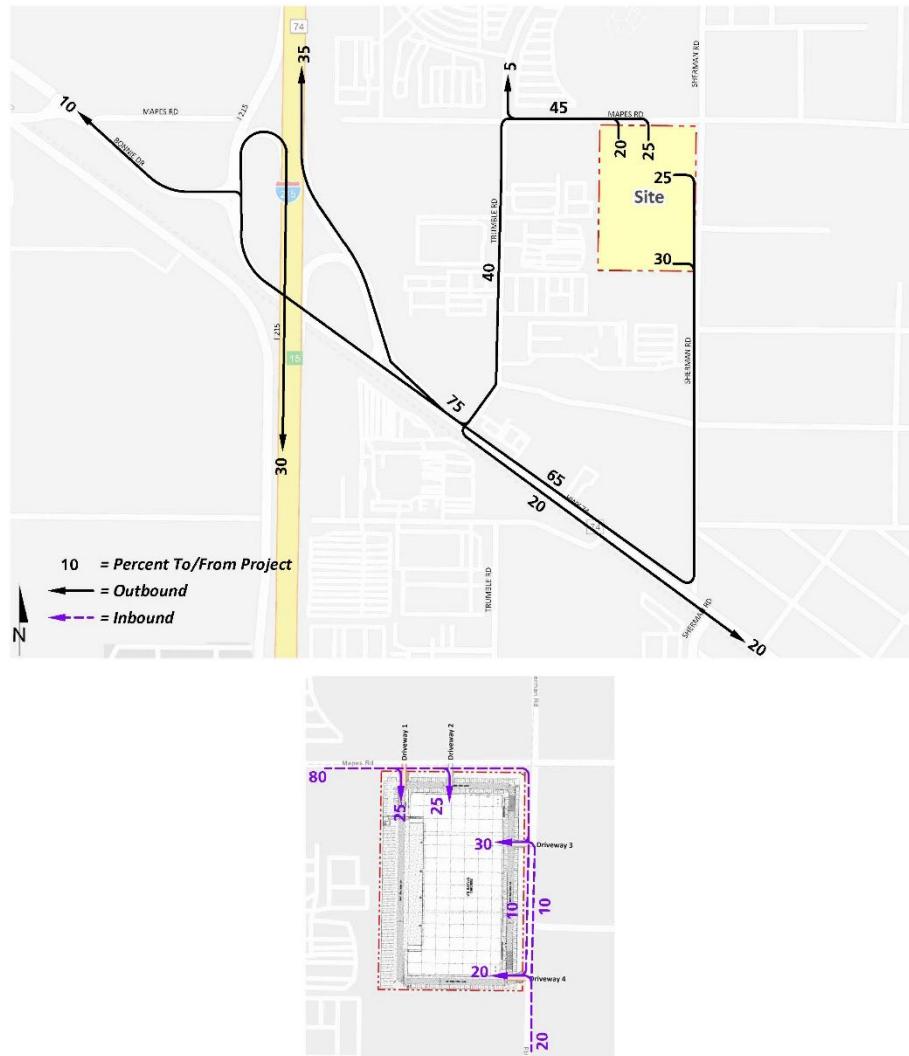


EXHIBIT 3: PROJECT (PASSENGER CAR) TRIP DISTRIBUTION



ANALYSIS SCENARIOS

Consistent with the City's TIA Guidelines, intersection analysis will be provided for the following scenarios:

- Existing (2022) Conditions
- Existing plus Project
- Opening Year Cumulative (2024) Without Project
- Opening Year Cumulative (2024) With Project

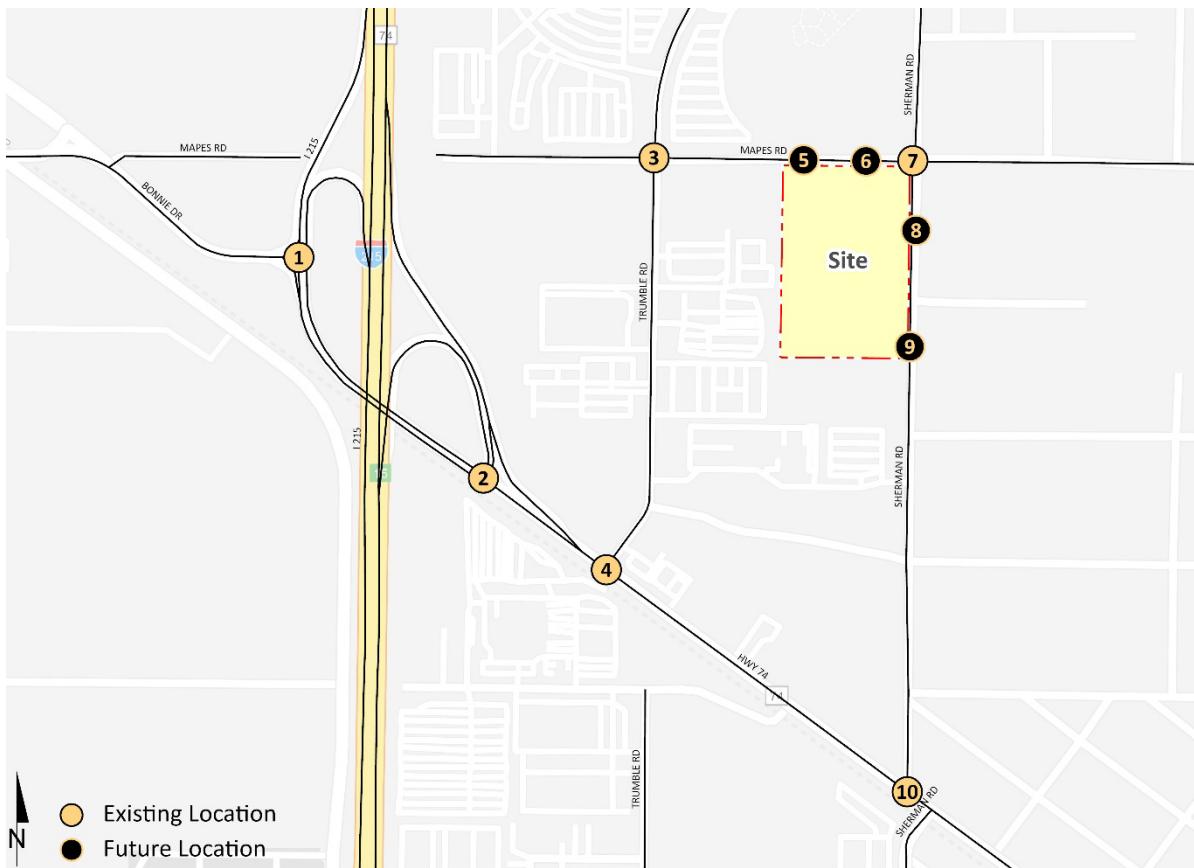
All study area intersections will be evaluated using the Highway Capacity Manual (HCM) 6th Edition analysis methodology.

STUDY AREA INTERSECTIONS

Based on the Project's anticipated travel patterns and trip generation characteristics, the following study area intersection locations shown on Exhibit 4 and listed below were selected for analysis:

| # | Intersections |
|----|-----------------------------|
| 1 | I-215 SB Ramps & Bonnie Dr. |
| 2 | I-215 NB Ramps & SR-74 |
| 3 | Trumble Rd. & Mapes Rd. |
| 4 | Trumble Rd. & SR-74 |
| 5 | Dwy 1 & Mapes Rd. |
| 6 | Dwy 2 & Mapes Rd. |
| 7 | Sherman Rd. & Mapes Rd. |
| 8 | Sherman Rd. & Dwy 3 |
| 9 | Sherman Rd. & Dwy 4 |
| 10 | Sherman Rd. & SR-74 |

EXHIBIT 4: STUDY AREA



EXISTING COUNT DATA

Traffic counts conducted in October 2021 (when local schools were in session and operating on normal bell schedules) will be used for the purposes of this analysis. An ambient growth of 2% will be applied to the October 2021 counts to reflect a baseline 2022 conditions. No additional adjustments are proposed for the purposes of establishing the existing baseline conditions.

LEVEL OF SERVICE (LOS) CRITERIA

Per Policy C-1.2 of the City of Menifee General Plan, the following LOS will be utilized for study area intersections located within the City: Require development to mitigate its traffic impacts and achieve a peak hour Level of Service (LOS) D or better at intersections, except at constrained intersections at close proximity to the I-215 where LOS E may be permitted.

GENERAL PLAN CONSISTENCY REQUIREMENTS

Project related impacts shall be clearly identified as direct or cumulative in the TIA report. Only feasible improvements shall be recommended in the TIA report. Consideration should be made for existing right-of-way, availability of receiving lanes for additional thru or turn lanes, environmental constraints, utility conflicts, and economically feasible improvement costs. Analysis of the recommended improvements shall be provided to demonstrate the proposed improvement will reduce the project impact to LOS to meet LOS standards.

All studies that propose increasing the number of travel lanes on a roadway or intersections to improve LOS conditions, either beyond existing conditions or for General Plan conditions beyond what is planned for that segment shall clearly identify the impacts associated with such a change. Exhibits and preliminary cost estimates must be provided to show the feasibility of the improvement.

The TIA shall identify whether or not the recommended improvements to achieve LOS standards are within the scope of a funding mechanism. The funding mechanism identified shall also include the availability of the funds and anticipated construction dates (if available). A fair share contribution toward the identified funding mechanism shall be calculated in order to reduce identified cumulative project impacts.

LOS improvements may also include connectivity improvements for bicycles and pedestrians. Improvements along the project frontage shall include pedestrian and bicycle facilities in compliance with the goals and policies established in the City's General Plan and mandated through the Complete Streets Act of 2008. The project should clearly identify pedestrian and bicycle facilities within the community that connect the development to existing sidewalk and bicycle facilities.

LOS improvements that are determined to be infeasible should be discussed in the TIA and the factors resulting in the improvement being infeasible should be identified.

AMBIENT GROWTH

Consistent with other studies performed in the area, an ambient growth rate of 2.0% per year is proposed for the study area intersections to approximate background traffic growth not identified by nearby cumulative development projects. The rate will be compounded over a 2-year period (i.e., $1.02^{2\text{years}} = 1.0404$ or 4.04% for 2024).

FAIR SHARE CALCULATION METHODOLOGY

Improvements found to be included in the City of Menifee's Development Impact Fee (DIF) program and Western Riverside Council of Governments Transportation Uniform Mitigation Fee (TUMF), will be identified as such. For improvements that do not appear to be in either of the pre-existing fee programs, a fair share financial contribution based on the Project's fair share impact may be imposed in order to mitigate the Project's share of impacts in lieu of construction. The Project's fair share cost of improvements would be determined based on the following

equation, which is the ratio of Project traffic to new traffic, where new traffic is total future traffic less existing baseline traffic:

$$\text{Project Fair Share \%} = \text{Project Traffic} / (\text{OYC With Project Total Traffic} - \text{Existing Traffic})$$

SIGNAL TIMING

It is requested that the City provide any signal timing that should be considered for signalized study area intersections within the City. Traffic signal timing for the Caltrans facilities have already been obtained.

CUMULATIVE PROJECTS

It is requested that the City provide a list of cumulative development projects for inclusion in the traffic study. We will reach out to other adjacent agencies to obtain current projects in their respective jurisdictions (County of Riverside and City of Perris).

SPECIAL ISSUES

The following special issues will also be addressed:

- Site Access Evaluation: The turn pocket lengths will be determined through peak hour traffic simulations developed using Synchro and SimTraffic software in an effort to identify the required storage capacity for turn lanes at each Project driveway. Specifically, the queuing analysis will be conducted in order to determine the necessary turn pocket storage lengths needed to accommodate peak hour queues at the driveways and intersection of Sherman Road at Mapes Road.
- Traffic Signal Warrant: A traffic signal warrant analysis will be prepared for all analysis scenarios for the unsignalized, full access study area intersections.
- Truck Turns: Truck turn templates will be evaluated at all applicable Project driveways to ensure driveway widths and curb radii can accommodate the turning radius of heavy trucks. Truck turn templates will be based on the WB-67 truck.
- Vehicle Miles Traveled: VMT will be addressed under separate cover. A VMT memo will be prepared summarizing the screening assessment.
- Approved Scoping Agreement: Approved scoping agreement will be shared with the adjacent jurisdictions, including Caltrans District 8.

Mr. Rob Blough
City of Menifee
June 16, 2022
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If you have any questions or comments, I can be reached at (949) 861-0177.

Respectfully submitted,

URBAN CROSSROADS, INC.



Charlene So, PE
Principal

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APPENDIX 1.2: SITE ADJACENT QUEUES

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Queuing and Blocking Report

Mapes & Sherman (JN 14804)

Opening Year Cumulative (2024) With Project - AM Peak Hour WITH IMPROVEMENTS

4/21/2023

Intersection: 5: Driveway 1 & Mapes Rd.

| Movement | NB |
|-----------------------|-----|
| Directions Served | LR |
| Maximum Queue (ft) | 35 |
| Average Queue (ft) | 5 |
| 95th Queue (ft) | 24 |
| Link Distance (ft) | 200 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 6: Driveway 2 & Mapes Rd.

| Movement |
|-----------------------|
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (%) |
| Queuing Penalty (veh) |

Intersection: 7: Sherman Rd. & Mapes Rd.

| Movement | EB | WB | NB | SB |
|-----------------------|-----|-----|-----|-----|
| Directions Served | LTR | LT | LTR | LTR |
| Maximum Queue (ft) | 47 | 28 | 47 | 79 |
| Average Queue (ft) | 18 | 2 | 21 | 36 |
| 95th Queue (ft) | 44 | 14 | 44 | 58 |
| Link Distance (ft) | 315 | 660 | 272 | 585 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | | | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Intersection: 8: Sherman Rd. & Driveway 3

| | |
|-----------------------|----|
| Movement | EB |
| Directions Served | LR |
| Maximum Queue (ft) | 22 |
| Average Queue (ft) | 1 |
| 95th Queue (ft) | 12 |
| Link Distance (ft) | 51 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 9: Sherman Rd. & Driveway 4

| Movement | EB | NB |
|-----------------------|----|----|
| Directions Served | LR | L |
| Maximum Queue (ft) | 29 | 7 |
| Average Queue (ft) | 3 | 0 |
| 95th Queue (ft) | 16 | 4 |
| Link Distance (ft) | 56 | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | 50 |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Zone Summary

Zone wide Queuing Penalty: 0

Queuing and Blocking Report
Opening Year Cumulative (2024) With Project - PM Peak Hour WITH IMPROVEMENTS 4/21/2023

Intersection: 5: Driveway 1 & Mapes Rd.

| Movement | NB |
|-----------------------|-----|
| Directions Served | LR |
| Maximum Queue (ft) | 51 |
| Average Queue (ft) | 16 |
| 95th Queue (ft) | 43 |
| Link Distance (ft) | 200 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 6: Driveway 2 & Mapes Rd.

| Movement | |
|-----------------------|--|
| Directions Served | |
| Maximum Queue (ft) | |
| Average Queue (ft) | |
| 95th Queue (ft) | |
| Link Distance (ft) | |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 7: Sherman Rd. & Mapes Rd.

| Movement | EB | WB | NB | SB |
|-----------------------|-----|-----|-----|-----|
| Directions Served | LTR | LT | LTR | LTR |
| Maximum Queue (ft) | 127 | 110 | 58 | 70 |
| Average Queue (ft) | 30 | 7 | 29 | 36 |
| 95th Queue (ft) | 77 | 52 | 52 | 59 |
| Link Distance (ft) | 315 | 660 | 272 | 585 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | | | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

Queuing and Blocking Report
Opening Year Cumulative (2024) With Project - PM Peak Hour WITH IMPROVEMENTS 4/21/2023

Intersection: 8: Sherman Rd. & Driveway 3

| Movement | EB | NB |
|-----------------------|----|----|
| Directions Served | LR | L |
| Maximum Queue (ft) | 30 | 7 |
| Average Queue (ft) | 5 | 0 |
| 95th Queue (ft) | 24 | 4 |
| Link Distance (ft) | 51 | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | 50 | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 9: Sherman Rd. & Driveway 4

| Movement | EB |
|-----------------------|----|
| Directions Served | LR |
| Maximum Queue (ft) | 36 |
| Average Queue (ft) | 8 |
| 95th Queue (ft) | 30 |
| Link Distance (ft) | 56 |
| Upstream Blk Time (%) | 0 |
| Queuing Penalty (veh) | 0 |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Zone Summary

Zone wide Queuing Penalty: 0

APPENDIX 3.1: EXISTING TRAFFIC COUNTS

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**Volume Development
AM Peak Hour**

1: I-215 Southbound Ramps & Case Rd.

| | PHF: <u>0.967</u> 7:15 | | | | | | | | Count Date: <u>10/5/2021</u> | | | | |
|------------------|-------------------------------|------------|------------|------------|------------|------------|------------|------------|------------------------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 198 | 359 | 0 | 0 | 436 | 27 | 22 | 0 | 160 | 0 | 0 | 0 | 1,202 |
| 2-Axle: | 5 | 15 | 0 | 0 | 19 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 53 |
| 3-Axle: | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 16 |
| 4+-Axle: | 34 | 5 | 0 | 0 | 12 | 5 | 0 | 0 | 32 | 0 | 0 | 0 | 88 |
| 2022 PCE: | 269 | 383 | 0 | 0 | 477 | 37 | 22 | 0 | 232 | 0 | 0 | 0 | 1,420 |

2: I-215 Northbound Ramps & SR-74

| | PHF: <u>0.941</u> 7:15 | | | | | | | | Count Date: <u>10/5/2021</u> | | | | |
|------------------|-------------------------------|------------|------------|------------|------------|------------|------------|------------|------------------------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 0 | 0 | 165 | 0 | 9 | 13 | 582 | 0 | 0 | 548 | 605 | 1,923 |
| 2-Axle: | 0 | 0 | 0 | 13 | 0 | 0 | 1 | 32 | 0 | 0 | 20 | 32 | 98 |
| 3-Axle: | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 9 | 0 | 0 | 6 | 4 | 22 |
| 4+-Axle: | 0 | 0 | 0 | 2 | 0 | 1 | 7 | 37 | 0 | 0 | 38 | 17 | 102 |
| 2022 PCE: | 0 | 0 | 0 | 178 | 0 | 12 | 28 | 681 | 0 | 0 | 640 | 659 | 2,198 |

3: Trumble Rd. & Mapes Rd.

| | PHF: <u>0.886</u> 7:00 | | | | | | | | Count Date: <u>10/5/2021</u> | | | | |
|------------------|-------------------------------|------------|------------|------------|------------|------------|------------|------------|------------------------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 61 | 66 | 124 | 3 | 68 | 2 | 1 | 17 | 49 | 254 | 12 | 6 | 665 |
| 2-Axle: | 2 | 1 | 5 | 0 | 3 | 0 | 0 | 9 | 11 | 6 | 0 | 0 | 38 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 4+-Axle: | 0 | 33 | 3 | 0 | 26 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 62 |
| 2022 PCE: | 62 | 132 | 133 | 3 | 121 | 2 | 1 | 22 | 56 | 260 | 12 | 6 | 810 |

4: Trumble Rd. & SR-74

| | PHF: <u>0.970</u> 7:15 | | | | | | | | Count Date: <u>10/5/2021</u> | | | | |
|------------------|-------------------------------|------------|------------|------------|------------|------------|------------|------------|------------------------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 0 | 0 | 31 | 0 | 427 | 233 | 515 | 0 | 0 | 725 | 23 | 1,954 |
| 2-Axle: | 0 | 0 | 0 | 11 | 0 | 35 | 13 | 32 | 0 | 0 | 17 | 1 | 109 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 11 | 0 | 0 | 5 | 0 | 21 |
| 4+-Axle: | 0 | 0 | 0 | 0 | 0 | 41 | 30 | 9 | 0 | 0 | 14 | 1 | 95 |
| 2022 PCE: | 0 | 0 | 0 | 36 | 0 | 531 | 298 | 560 | 0 | 0 | 768 | 26 | 2,220 |

5: Driveway 1 & Mapes Rd.

| | PHF: <u>0.920</u> | | | | | | | | Count Date: | | | | |
|------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 145 | 0 | 0 | 272 | 0 | 417 |
| 2-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 6 | 0 | 20 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 4+-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 4 |
| 2022 PCE: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 0 | 0 | 278 | 0 | 437 |

6: Driveway 2 & Mapes Rd.

| | PHF: <u>0.920</u> | | | | | | | | Count Date: | | | | |
|------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 145 | 0 | 0 | 272 | 0 | 417 |
| 2-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 6 | 0 | 20 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 4+-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 4 |
| 2022 PCE: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 0 | 0 | 278 | 0 | 437 |

Volume Development
AM Peak Hour

7: Sherman Rd. & Mapes Rd.

| | PHF: <u>0.920</u> 7:30 | | | | | | | | Count Date: <u>10/5/2021</u> | | | | |
|------------------|---|------------|------------|------------|------------|------------|------------|------------|------------------------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 3 | 13 | 13 | 4 | 2 | 23 | 15 | 93 | 37 | 10 | 246 | 2 | 462 |
| 2-Axle: | 0 | 2 | 5 | 1 | 0 | 1 | 0 | 14 | 0 | 0 | 5 | 0 | 29 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 1 | 0 | 5 |
| 2022 PCE: | 3 | 14 | 16 | 5 | 2 | 24 | 15 | 106 | 37 | 12 | 251 | 2 | 488 |

8: Sherman Rd. & Driveway 3

| | PHF: <u>0.920</u> | | | | | | | | Count Date: | | | | |
|------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 30 | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| 2-Axle: | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2022 PCE: | 0 | 33 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |

9: Sherman Rd. & Driveway 4

| | PHF: <u>0.920</u> | | | | | | | | Count Date: | | | | |
|------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 30 | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| 2-Axle: | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2022 PCE: | 0 | 33 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |

10: Sherman Rd. & Driveway 5

| | PHF: <u>0.920</u> | | | | | | | | Count Date: | | | | |
|------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 30 | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
| 2-Axle: | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2022 PCE: | 0 | 33 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |

11. Sherman Rd. & SR-74

| | PHF: <u>0.936</u> 7:15 | | | | | | | | Count Date: <u>10/5/2021</u> | | | | |
|------------------|---|------------|------------|------------|------------|------------|------------|------------|------------------------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 0 | 0 | 0 | 0 | 97 | 0 | 508 | 0 | 0 | 601 | 7 | 1,213 |
| 2-Axle: | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 35 | 0 | 0 | 18 | 1 | 57 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 5 | 0 | 14 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 9 | 0 | 0 | 12 | 1 | 24 |
| 2022 PCE: | 0 | 0 | 0 | 0 | 0 | 103 | 0 | 553 | 0 | 0 | 640 | 10 | 1,305 |

Volume Development

1: I-215 Southbound Ramps & Case Rd.

| | PHF: 0.928 4:30 | | | | | | | | Count Date: 10/5/2021 | | | | |
|------------------|-----------------|------------|----------|----------|------------|-----------|-----------|----------|-----------------------|----------|----------|----------|--------------|
| | NBL | NBT | NBR | SBL | SBT | SBR | EBL | EBT | EBC | WBL | WBT | WBR | TOTAL |
| Existing 2022: | 207 | 286 | 0 | 0 | 695 | 46 | 19 | 0 | 162 | 0 | 0 | 0 | 1,415 |
| 2-Axle: | 7 | 1 | 0 | 0 | 23 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 38 |
| 3-Axle: | 13 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 22 |
| 4+-Axe: | 0 | 1 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 8 |
| 2022 PCE: | 224 | 288 | 0 | 0 | 726 | 47 | 19 | 0 | 168 | 0 | 0 | 0 | 1,472 |

2: I-215 Northbound Ramps & SR-74

| | PHF: 0.909 4:30 | | | | | | | | Count Date: 10/5/2021 | | | | |
|------------------|-----------------|----------|----------|------------|----------|-----------|-----------|------------|-----------------------|----------|------------|------------|--------------|
| | NBL | NBT | NBR | SBL | SBT | SBR | EBL | EBT | EBC | WBL | WBT | WBR | TOTAL |
| Existing 2022: | 0 | 0 | 0 | 183 | 0 | 35 | 10 | 847 | 0 | 0 | 458 | 546 | 2,078 |
| 2-Axle: | 0 | 0 | 0 | 19 | 0 | 1 | 0 | 28 | 0 | 0 | 7 | 14 | 69 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 8 | 0 | 0 | 11 | 4 | 27 |
| 4+-Axe: | 0 | 0 | 0 | 6 | 0 | 0 | 1 | 6 | 0 | 0 | 1 | 4 | 18 |
| 2022 PCE: | 0 | 0 | 0 | 205 | 0 | 37 | 13 | 881 | 0 | 0 | 475 | 565 | 2,176 |

3: Trumble Rd. & Mapes Rd.

| | PHF: 0.832 4:30 | | | | | | | | Count Date: 10/5/2021 | | | | |
|------------------|-----------------|-----------|------------|-----------|------------|----------|----------|----------|-----------------------|------------|----------|----------|------------|
| | NBL | NBT | NBR | SBL | SBT | SBR | EBL | EBT | EBC | WBL | WBT | WBR | TOTAL |
| Existing 2022: | 8 | 80 | 204 | 51 | 187 | 2 | 0 | 5 | 6 | 161 | 1 | 9 | 714 |
| 2-Axle: | 2 | 2 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 13 |
| 3-Axle: | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 6 |
| 4+-Axe: | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2022 PCE: | 10 | 81 | 214 | 51 | 187 | 2 | 0 | 6 | 6 | 165 | 1 | 9 | 731 |

4: Trumble Rd. & SR-74

| | PHF: 0.927 4:30 | | | | | | | | Count Date: 10/5/2021 | | | | |
|------------------|-----------------|----------|----------|-----------|----------|------------|------------|------------|-----------------------|----------|------------|-----------|--------------|
| | NBL | NBT | NBR | SBL | SBT | SBR | EBL | EBT | EBC | WBL | WBT | WBR | TOTAL |
| Existing 2022: | 0 | 0 | 0 | 37 | 0 | 364 | 267 | 762 | 0 | 0 | 640 | 30 | 2,099 |
| 2-Axle: | 0 | 0 | 0 | 0 | 0 | 1 | 26 | 21 | 0 | 0 | 20 | 4 | 72 |
| 3-Axle: | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 8 | 0 | 0 | 12 | 1 | 26 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 6 | 0 | 0 | 4 | 4 | 21 |
| 2022 PCE: | 0 | 0 | 0 | 38 | 0 | 370 | 292 | 793 | 0 | 0 | 670 | 41 | 2,204 |

5: Driveway 1 & Mapes Rd.

| | PHF: 0.920 | | | | | | | | Count Date: | | | | |
|------------------|------------|----------|----------|----------|----------|----------|----------|------------|-------------|----------|------------|----------|------------|
| | NBL | NBT | NBR | SBL | SBT | SBR | EBL | EBT | EBC | WBL | WBT | WBR | TOTAL |
| Existing 2022: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 260 | 0 | 0 | 171 | 0 | 431 |
| 2-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 1 | 0 | 9 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 5 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 2022 PCE: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 270 | 0 | 0 | 175 | 0 | 445 |

6: Driveway 2 & Mapes Rd.

| | PHF: 0.920 | | | | | | | | Count Date: | | | | |
|------------------|------------|----------|----------|----------|----------|----------|----------|------------|-------------|----------|------------|----------|------------|
| | NBL | NBT | NBR | SBL | SBT | SBR | EBL | EBT | EBC | WBL | WBT | WBR | TOTAL |
| Existing 2022: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 260 | 0 | 0 | 171 | 0 | 431 |
| 2-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 1 | 0 | 9 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 5 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 2022 PCE: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 270 | 0 | 0 | 175 | 0 | 445 |

Volume Development

7: Sherman Rd. & Mapes Rd.

| | PHF: <u>0.862</u> | | 4:15 | | Count Date: <u>10/5/2021</u> | | | | | | | | |
|------------------|-------------------|------------|------------|------------|------------------------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 7 | 6 | 19 | 2 | 7 | 27 | 26 | 214 | 20 | 8 | 138 | 4 | 478 |
| 2-Axle: | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 0 | 1 | 1 | 0 | 11 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 5 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 2022 PCE: | 7 | 6 | 20 | 2 | 7 | 27 | 26 | 222 | 22 | 11 | 141 | 4 | 495 |

8: Sherman Rd. & Driveway 3

| | PHF: <u>0.920</u> | | | | Count Date: | | | | | | | | |
|------------------|-------------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 33 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| 2-Axle: | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2022 PCE: | 0 | 33 | 0 | 0 | 40 | 0 | 73 |

9: Sherman Rd. & Driveway 4

| | PHF: <u>0.920</u> | | | | Count Date: | | | | | | | | |
|------------------|-------------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 33 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| 2-Axle: | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2022 PCE: | 0 | 33 | 0 | 0 | 40 | 0 | 73 |

10: Sherman Rd. & Driveway 5

| | PHF: <u>0.920</u> | | | | Count Date: | | | | | | | | |
|------------------|-------------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 33 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| 2-Axle: | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2022 PCE: | 0 | 33 | 0 | 0 | 40 | 0 | 73 |

11. Sherman Rd. & SR-74

| | PHF: <u>0.951</u> | | 4:30 | | Count Date: <u>10/5/2021</u> | | | | | | | | |
|------------------|-------------------|------------|------------|------------|------------------------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> |
| Existing 2022: | 0 | 0 | 0 | 0 | 0 | 74 | 0 | 797 | 0 | 0 | 534 | 14 | 1,420 |
| 2-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 20 | 3 | 42 |
| 3-Axle: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 13 | 0 | 20 |
| 4+-Axe: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 3 | 0 | 8 |
| 2022 PCE: | 0 | 0 | 0 | 0 | 0 | 74 | 0 | 823 | 0 | 0 | 564 | 16 | 1,477 |

Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

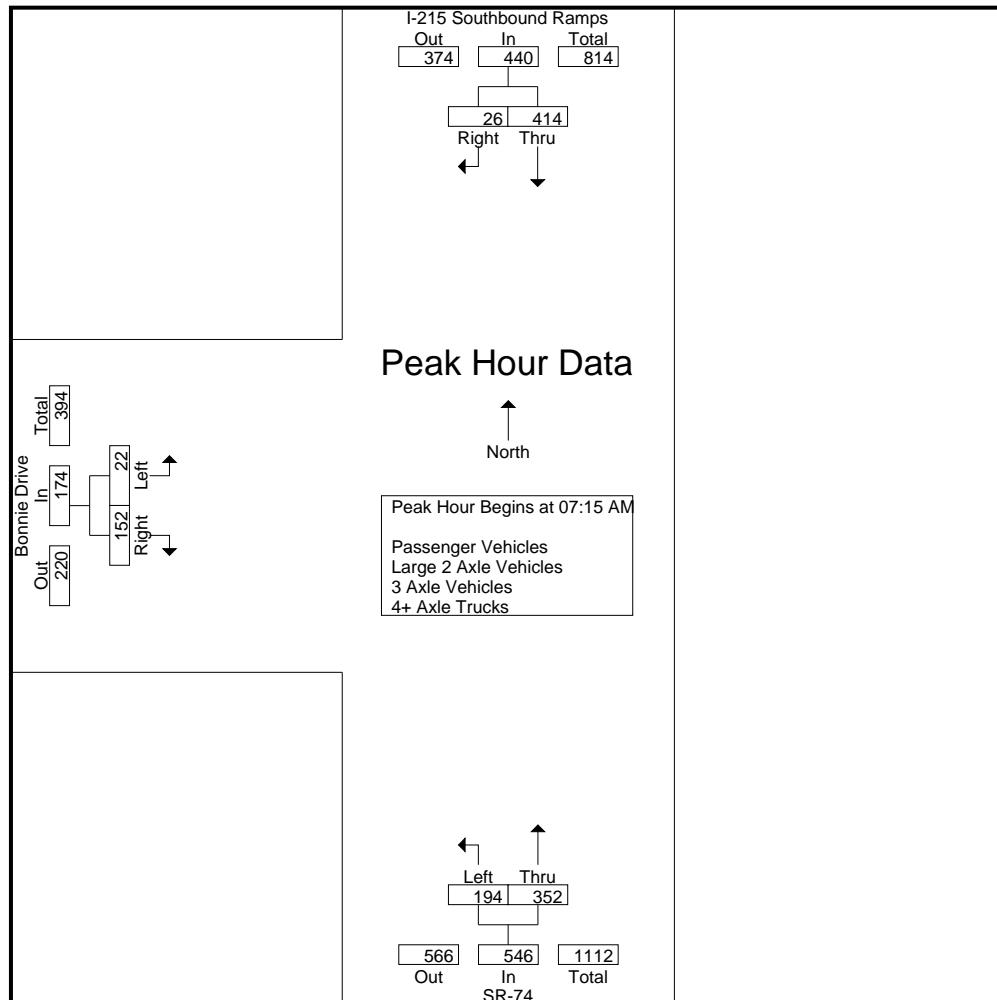
| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|-------------------------|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| 07:00 AM | 100 | 4 | 104 | 36 | 77 | 113 | 5 | 21 | 26 | 243 |
| 07:15 AM | 121 | 6 | 127 | 43 | 87 | 130 | 6 | 32 | 38 | 295 |
| 07:30 AM | 95 | 4 | 99 | 50 | 98 | 148 | 8 | 45 | 53 | 300 |
| 07:45 AM | 97 | 7 | 104 | 47 | 84 | 131 | 4 | 41 | 45 | 280 |
| Total | 413 | 21 | 434 | 176 | 346 | 522 | 23 | 139 | 162 | 1118 |
| 08:00 AM | 101 | 9 | 110 | 54 | 83 | 137 | 4 | 34 | 38 | 285 |
| 08:15 AM | 119 | 6 | 125 | 39 | 69 | 108 | 9 | 34 | 43 | 276 |
| 08:30 AM | 99 | 3 | 102 | 53 | 56 | 109 | 5 | 36 | 41 | 252 |
| 08:45 AM | 94 | 9 | 103 | 35 | 38 | 73 | 6 | 26 | 32 | 208 |
| Total | 413 | 27 | 440 | 181 | 246 | 427 | 24 | 130 | 154 | 1021 |
| Grand Total | 826 | 48 | 874 | 357 | 592 | 949 | 47 | 269 | 316 | 2139 |
| Apprch % | 94.5 | 5.5 | | 37.6 | 62.4 | | 14.9 | 85.1 | | |
| Total % | 38.6 | 2.2 | 40.9 | 16.7 | 27.7 | 44.4 | 2.2 | 12.6 | 14.8 | |
| Passenger Vehicles | 734 | 43 | 777 | 285 | 543 | 828 | 47 | 191 | 238 | 1843 |
| % Passenger Vehicles | 88.9 | 89.6 | 88.9 | 79.8 | 91.7 | 87.2 | 100 | 71 | 75.3 | 86.2 |
| Large 2 Axle Vehicles | 39 | 1 | 40 | 10 | 28 | 38 | 0 | 25 | 25 | 103 |
| % Large 2 Axle Vehicles | 4.7 | 2.1 | 4.6 | 2.8 | 4.7 | 4 | 0 | 9.3 | 7.9 | 4.8 |
| 3 Axle Vehicles | 16 | 0 | 16 | 2 | 12 | 14 | 0 | 5 | 5 | 35 |
| % 3 Axle Vehicles | 1.9 | 0 | 1.8 | 0.6 | 2 | 1.5 | 0 | 1.9 | 1.6 | 1.6 |
| 4+ Axle Trucks | 37 | 4 | 41 | 60 | 9 | 69 | 0 | 48 | 48 | 158 |
| % 4+ Axle Trucks | 4.5 | 8.3 | 4.7 | 16.8 | 1.5 | 7.3 | 0 | 17.8 | 15.2 | 7.4 |

| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|---|--------------------------------------|----------|------------|---------------------|-----------|------------|---------------------------|-----------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | |
| 07:15 AM | 121 | 6 | 127 | 43 | 87 | 130 | 6 | 32 | 38 | 295 |
| 07:30 AM | 95 | 4 | 99 | 50 | 98 | 148 | 8 | 45 | 53 | 300 |
| 07:45 AM | 97 | 7 | 104 | 47 | 84 | 131 | 4 | 41 | 45 | 280 |
| 08:00 AM | 101 | 9 | 110 | 54 | 83 | 137 | 4 | 34 | 38 | 285 |
| Total Volume | 414 | 26 | 440 | 194 | 352 | 546 | 22 | 152 | 174 | 1160 |
| % App. Total | 94.1 | 5.9 | | 35.5 | 64.5 | | 12.6 | 87.4 | | |
| PHF | .855 | .722 | .866 | .898 | .898 | .922 | .688 | .844 | .821 | .967 |

Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:45 AM | | | 07:15 AM | | | 07:30 AM | | |
|--------------|------------|----------|------------|-----------|-----------|------------|----------|-----------|-----------|
| +0 mins. | 97 | 7 | 104 | 43 | 87 | 130 | 8 | 45 | 53 |
| +15 mins. | 101 | 9 | 110 | 50 | 98 | 148 | 4 | 41 | 45 |
| +30 mins. | 119 | 6 | 125 | 47 | 84 | 131 | 4 | 34 | 38 |
| +45 mins. | 99 | 3 | 102 | 54 | 83 | 137 | 9 | 34 | 43 |
| Total Volume | 416 | 25 | 441 | 194 | 352 | 546 | 25 | 154 | 179 |
| % App. Total | 94.3 | 5.7 | | 35.5 | 64.5 | | 14 | 86 | |
| PHF | .874 | .694 | .882 | .898 | .898 | .922 | .694 | .856 | .844 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

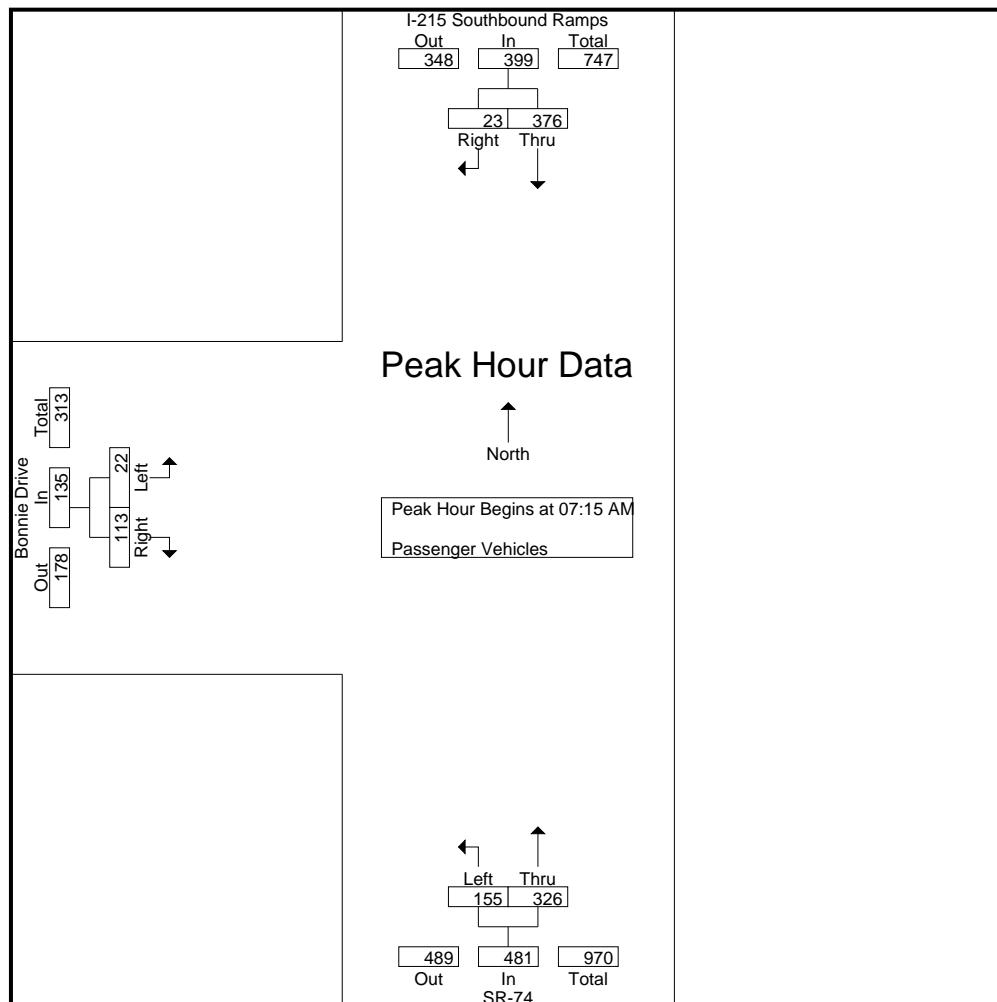
| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|-------------|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| 07:00 AM | 86 | 2 | 88 | 33 | 61 | 94 | 5 | 18 | 23 | 205 |
| 07:15 AM | 112 | 5 | 117 | 34 | 76 | 110 | 6 | 29 | 35 | 262 |
| 07:30 AM | 86 | 4 | 90 | 39 | 94 | 133 | 8 | 36 | 44 | 267 |
| 07:45 AM | 87 | 5 | 92 | 37 | 80 | 117 | 4 | 28 | 32 | 241 |
| Total | 371 | 16 | 387 | 143 | 311 | 454 | 23 | 111 | 134 | 975 |
| 08:00 AM | 91 | 9 | 100 | 45 | 76 | 121 | 4 | 20 | 24 | 245 |
| 08:15 AM | 104 | 6 | 110 | 29 | 66 | 95 | 9 | 23 | 32 | 237 |
| 08:30 AM | 83 | 3 | 86 | 42 | 54 | 96 | 5 | 19 | 24 | 206 |
| 08:45 AM | 85 | 9 | 94 | 26 | 36 | 62 | 6 | 18 | 24 | 180 |
| Total | 363 | 27 | 390 | 142 | 232 | 374 | 24 | 80 | 104 | 868 |
| Grand Total | 734 | 43 | 777 | 285 | 543 | 828 | 47 | 191 | 238 | 1843 |
| Apprch % | 94.5 | 5.5 | | 34.4 | 65.6 | | 19.7 | 80.3 | | |
| Total % | 39.8 | 2.3 | 42.2 | 15.5 | 29.5 | 44.9 | 2.6 | 10.4 | 12.9 | |

| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|---|--------------------------------------|----------|------------|---------------------|-----------|------------|---------------------------|-----------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | |
| 07:15 AM | 112 | 5 | 117 | 34 | 76 | 110 | 6 | 29 | 35 | 262 |
| 07:30 AM | 86 | 4 | 90 | 39 | 94 | 133 | 8 | 36 | 44 | 267 |
| 07:45 AM | 87 | 5 | 92 | 37 | 80 | 117 | 4 | 28 | 32 | 241 |
| 08:00 AM | 91 | 9 | 100 | 45 | 76 | 121 | 4 | 20 | 24 | 245 |
| Total Volume | 376 | 23 | 399 | 155 | 326 | 481 | 22 | 113 | 135 | 1015 |
| % App. Total | 94.2 | 5.8 | | 32.2 | 67.8 | | 16.3 | 83.7 | | |
| PHF | .839 | .639 | .853 | .861 | .867 | .904 | .688 | .785 | .767 | .950 |

Counts Unlimited, Inc.
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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 112 | 5 | 117 | 34 | 76 | 110 | 6 | 29 | 35 |
| +15 mins. | 86 | 4 | 90 | 39 | 94 | 133 | 8 | 36 | 44 |
| +30 mins. | 87 | 5 | 92 | 37 | 80 | 117 | 4 | 28 | 32 |
| +45 mins. | 91 | 9 | 100 | 45 | 76 | 121 | 4 | 20 | 24 |
| Total Volume | 376 | 23 | 399 | 155 | 326 | 481 | 22 | 113 | 135 |
| % App. Total | 94.2 | 5.8 | | 32.2 | 67.8 | | 16.3 | 83.7 | |
| PHF | .839 | .639 | .853 | .861 | .867 | .904 | .688 | .785 | .767 |

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 PO Box 1178
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 (951)268-6268

City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

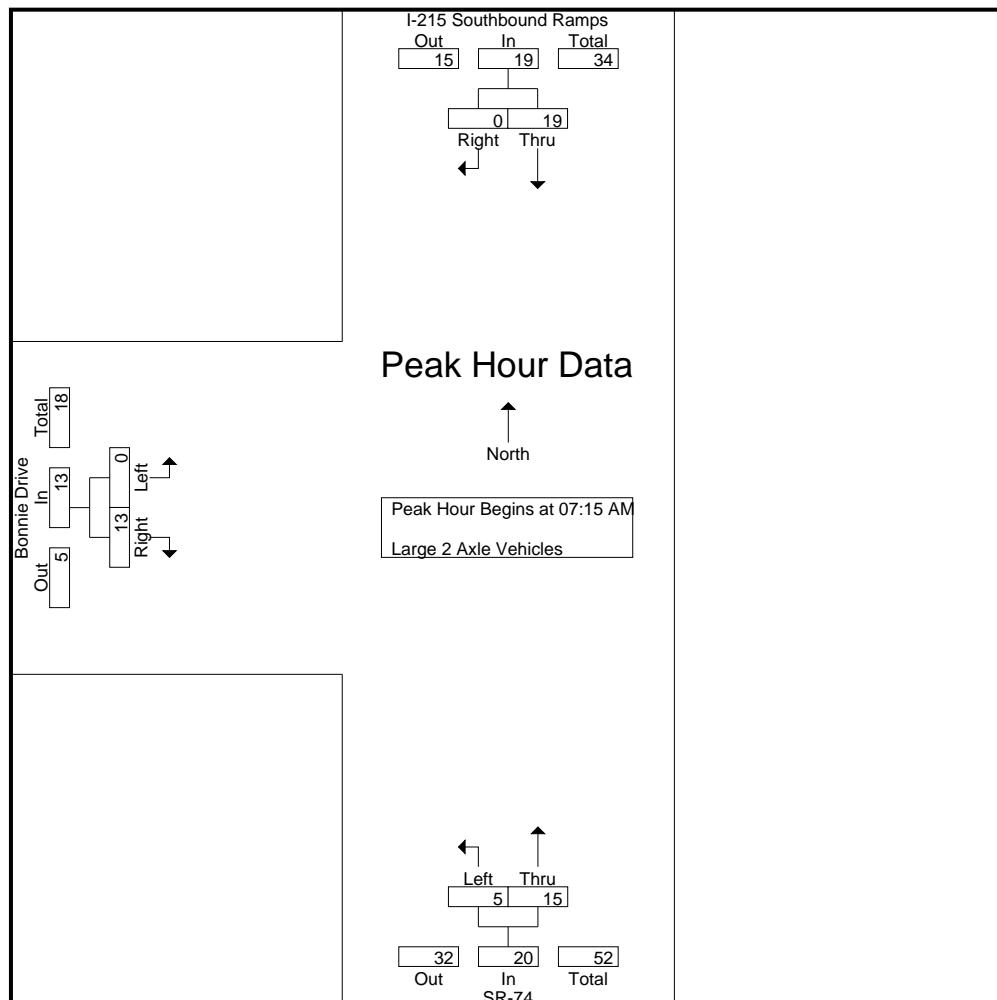
| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|-------------|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| 07:00 AM | 8 | 1 | 9 | 2 | 9 | 11 | 0 | 1 | 1 | 21 |
| 07:15 AM | 3 | 0 | 3 | 1 | 8 | 9 | 0 | 3 | 3 | 15 |
| 07:30 AM | 5 | 0 | 5 | 2 | 3 | 5 | 0 | 1 | 1 | 11 |
| 07:45 AM | 5 | 0 | 5 | 1 | 3 | 4 | 0 | 4 | 4 | 13 |
| Total | 21 | 1 | 22 | 6 | 23 | 29 | 0 | 9 | 9 | 60 |
| 08:00 AM | 6 | 0 | 6 | 1 | 1 | 2 | 0 | 5 | 5 | 13 |
| 08:15 AM | 4 | 0 | 4 | 0 | 2 | 2 | 0 | 4 | 4 | 10 |
| 08:30 AM | 4 | 0 | 4 | 2 | 0 | 2 | 0 | 4 | 4 | 10 |
| 08:45 AM | 4 | 0 | 4 | 1 | 2 | 3 | 0 | 3 | 3 | 10 |
| Total | 18 | 0 | 18 | 4 | 5 | 9 | 0 | 16 | 16 | 43 |
| Grand Total | 39 | 1 | 40 | 10 | 28 | 38 | 0 | 25 | 25 | 103 |
| Apprch % | 97.5 | 2.5 | | 26.3 | 73.7 | | 0 | 100 | | |
| Total % | 37.9 | 1 | 38.8 | 9.7 | 27.2 | 36.9 | 0 | 24.3 | 24.3 | |

| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|---|--------------------------------------|-------|------------|---------------------|----------|------------|---------------------------|----------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | |
| 07:15 AM | 3 | 0 | 3 | 1 | 8 | 9 | 0 | 3 | 3 | 15 |
| 07:30 AM | 5 | 0 | 5 | 2 | 3 | 5 | 0 | 1 | 1 | 11 |
| 07:45 AM | 5 | 0 | 5 | 1 | 3 | 4 | 0 | 4 | 4 | 13 |
| 08:00 AM | 6 | 0 | 6 | 1 | 1 | 2 | 0 | 5 | 5 | 13 |
| Total Volume | 19 | 0 | 19 | 5 | 15 | 20 | 0 | 13 | 13 | 52 |
| % App. Total | 100 | 0 | | 25 | 75 | | 0 | 100 | | |
| PHF | .792 | .000 | .792 | .625 | .469 | .556 | .000 | .650 | .650 | .867 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|------|----------|----------|----------|----------|----------|----------|----------|
| +0 mins. | 3 | 0 | 3 | 1 | 8 | 9 | 0 | 3 | 3 |
| +15 mins. | 5 | 0 | 5 | 2 | 3 | 5 | 0 | 1 | 1 |
| +30 mins. | 5 | 0 | 5 | 1 | 3 | 4 | 0 | 4 | 4 |
| +45 mins. | 6 | 0 | 6 | 1 | 1 | 2 | 0 | 5 | 5 |
| Total Volume | 19 | 0 | 19 | 5 | 15 | 20 | 0 | 13 | 13 |
| % App. Total | 100 | 0 | | 25 | 75 | | 0 | 100 | |
| PHF | .792 | .000 | .792 | .625 | .469 | .556 | .000 | .650 | .650 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

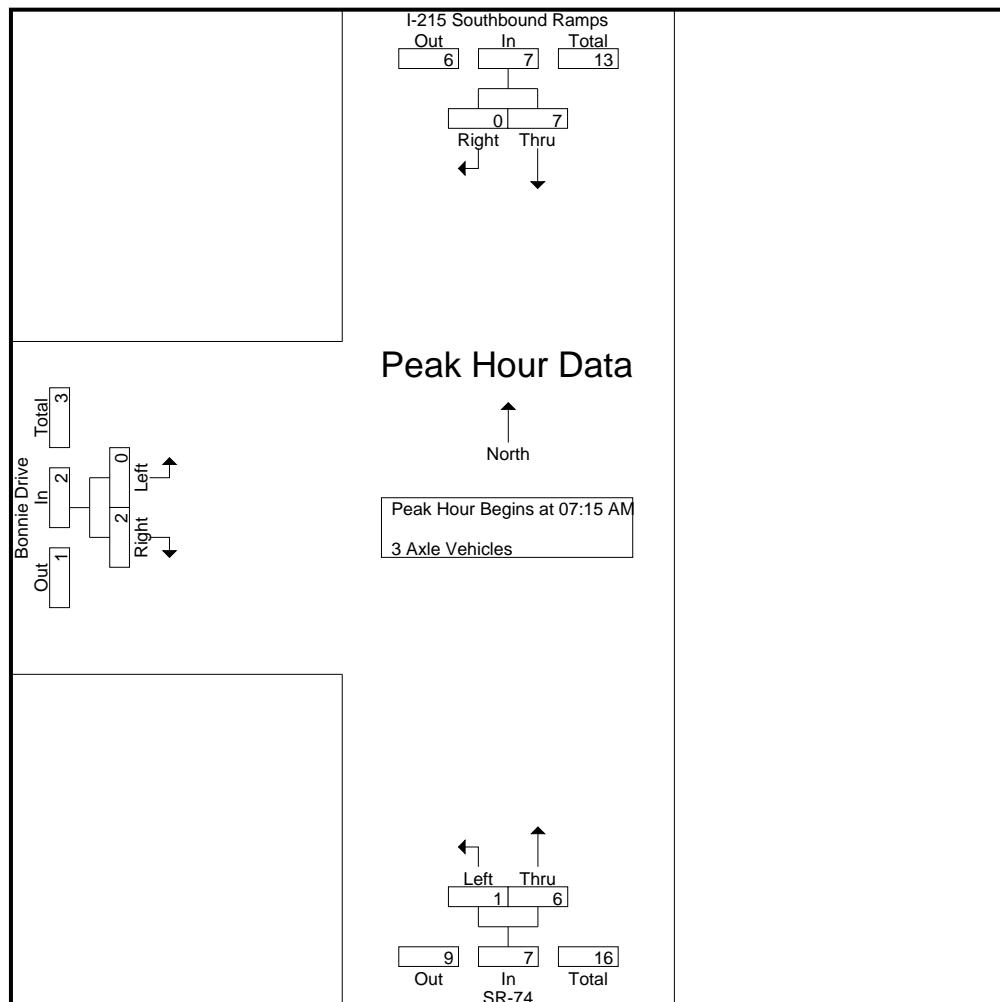
| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|-------------|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| 07:00 AM | 2 | 0 | 2 | 1 | 6 | 7 | 0 | 2 | 2 | 11 |
| 07:15 AM | 3 | 0 | 3 | 0 | 3 | 3 | 0 | 0 | 0 | 6 |
| 07:30 AM | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 1 | 3 |
| 07:45 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| Total | 6 | 0 | 6 | 2 | 10 | 12 | 0 | 4 | 4 | 22 |
| 08:00 AM | 3 | 0 | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 5 |
| 08:15 AM | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 08:30 AM | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 3 |
| 08:45 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 10 | 0 | 10 | 0 | 2 | 2 | 0 | 1 | 1 | 13 |
| Grand Total | 16 | 0 | 16 | 2 | 12 | 14 | 0 | 5 | 5 | 35 |
| Apprch % | 100 | 0 | | 14.3 | 85.7 | | 0 | 100 | | |
| Total % | 45.7 | 0 | 45.7 | 5.7 | 34.3 | 40 | 0 | 14.3 | 14.3 | |

| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|--|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | |
| 07:15 AM | 3 | 0 | 3 | 0 | 3 | 3 | 0 | 0 | 0 | 6 |
| 07:30 AM | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 1 | 3 |
| 07:45 AM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 08:00 AM | 3 | 0 | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 5 |
| Total Volume | 7 | 0 | 7 | 1 | 6 | 7 | 0 | 2 | 2 | 16 |
| % App. Total | 100 | 0 | | 14.3 | 85.7 | | 0 | 100 | | |
| PHF | .583 | .000 | .583 | .250 | .500 | .583 | .000 | .500 | .500 | .667 |

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 (951)268-6268

City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 3 | 0 | 3 | 0 | 3 | 3 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 1 |
| +30 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| +45 mins. | 3 | 0 | 3 | 0 | 2 | 2 | 0 | 0 | 0 |
| Total Volume | 7 | 0 | 7 | 1 | 6 | 7 | 0 | 2 | 2 |
| % App. Total | 100 | 0 | | 14.3 | 85.7 | | 0 | 100 | |
| PHF | .583 | .000 | .583 | .250 | .500 | .583 | .000 | .500 | .500 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

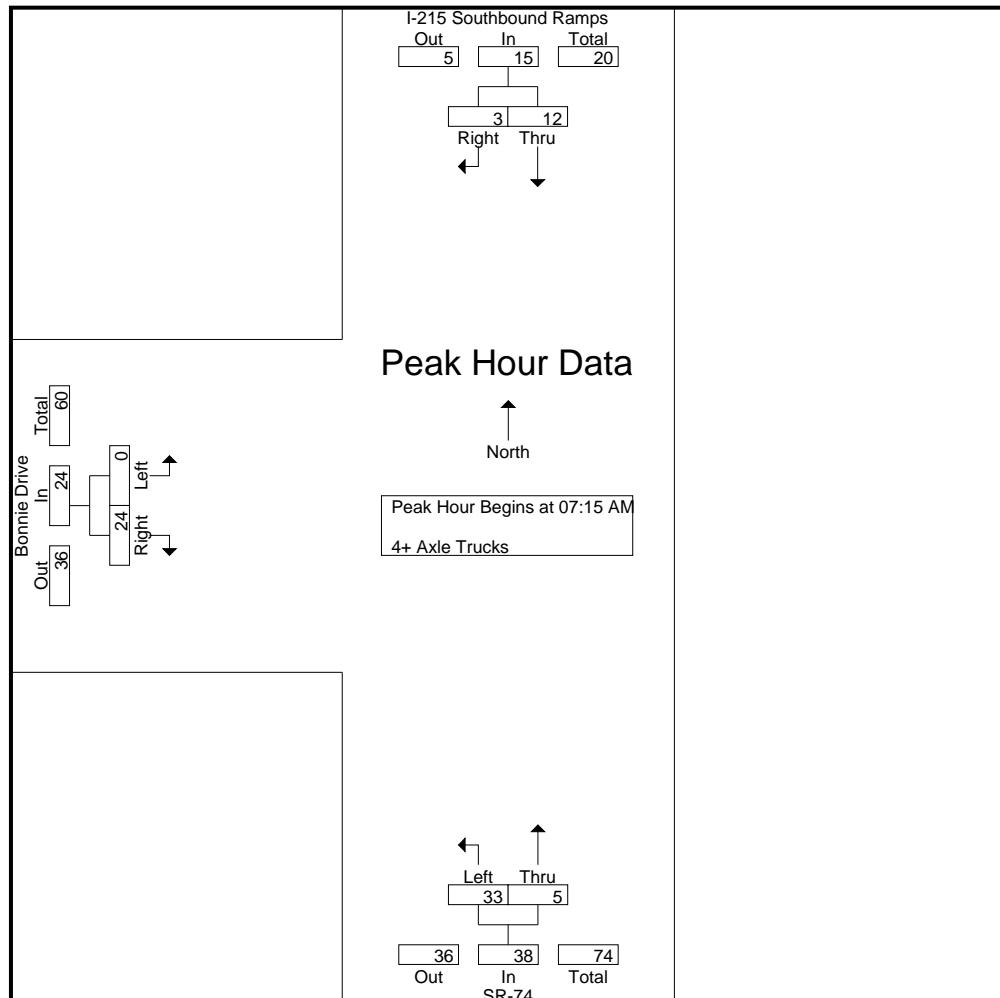
| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|-------------|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| 07:00 AM | 4 | 1 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 6 |
| 07:15 AM | 3 | 1 | 4 | 8 | 0 | 8 | 0 | 0 | 0 | 12 |
| 07:30 AM | 4 | 0 | 4 | 8 | 0 | 8 | 0 | 7 | 7 | 19 |
| 07:45 AM | 4 | 2 | 6 | 9 | 1 | 10 | 0 | 8 | 8 | 24 |
| Total | 15 | 4 | 19 | 25 | 2 | 27 | 0 | 15 | 15 | 61 |
| 08:00 AM | 1 | 0 | 1 | 8 | 4 | 12 | 0 | 9 | 9 | 22 |
| 08:15 AM | 7 | 0 | 7 | 10 | 1 | 11 | 0 | 7 | 7 | 25 |
| 08:30 AM | 10 | 0 | 10 | 9 | 2 | 11 | 0 | 12 | 12 | 33 |
| 08:45 AM | 4 | 0 | 4 | 8 | 0 | 8 | 0 | 5 | 5 | 17 |
| Total | 22 | 0 | 22 | 35 | 7 | 42 | 0 | 33 | 33 | 97 |
| Grand Total | 37 | 4 | 41 | 60 | 9 | 69 | 0 | 48 | 48 | 158 |
| Apprch % | 90.2 | 9.8 | | 87 | 13 | | 0 | 100 | | |
| Total % | 23.4 | 2.5 | 25.9 | 38 | 5.7 | 43.7 | 0 | 30.4 | 30.4 | |

| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|---|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | |
| 07:15 AM | 3 | 1 | 4 | 8 | 0 | 8 | 0 | 0 | 0 | 12 |
| 07:30 AM | 4 | 0 | 4 | 8 | 0 | 8 | 0 | 7 | 7 | 19 |
| 07:45 AM | 4 | 2 | 6 | 9 | 1 | 10 | 0 | 8 | 8 | 24 |
| 08:00 AM | 1 | 0 | 1 | 8 | 4 | 12 | 0 | 9 | 9 | 22 |
| Total Volume | 12 | 3 | 15 | 33 | 5 | 38 | 0 | 24 | 24 | 77 |
| % App. Total | 80 | 20 | | 86.8 | 13.2 | | 0 | 100 | | |
| PHF | .750 | .375 | .625 | .917 | .313 | .792 | .000 | .667 | .667 | .802 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74 AM
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 3 | 1 | 4 | 8 | 0 | 8 | 0 | 0 | 0 |
| +15 mins. | 4 | 0 | 4 | 8 | 0 | 8 | 0 | 7 | 7 |
| +30 mins. | 4 | 2 | 6 | 9 | 1 | 10 | 0 | 8 | 8 |
| +45 mins. | 1 | 0 | 1 | 8 | 4 | 12 | 0 | 9 | 9 |
| Total Volume | 12 | 3 | 15 | 33 | 5 | 38 | 0 | 24 | 24 |
| % App. Total | 80 | 20 | | 86.8 | 13.2 | | 0 | 100 | |
| PHF | .750 | .375 | .625 | .917 | .313 | .792 | .000 | .667 | .667 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

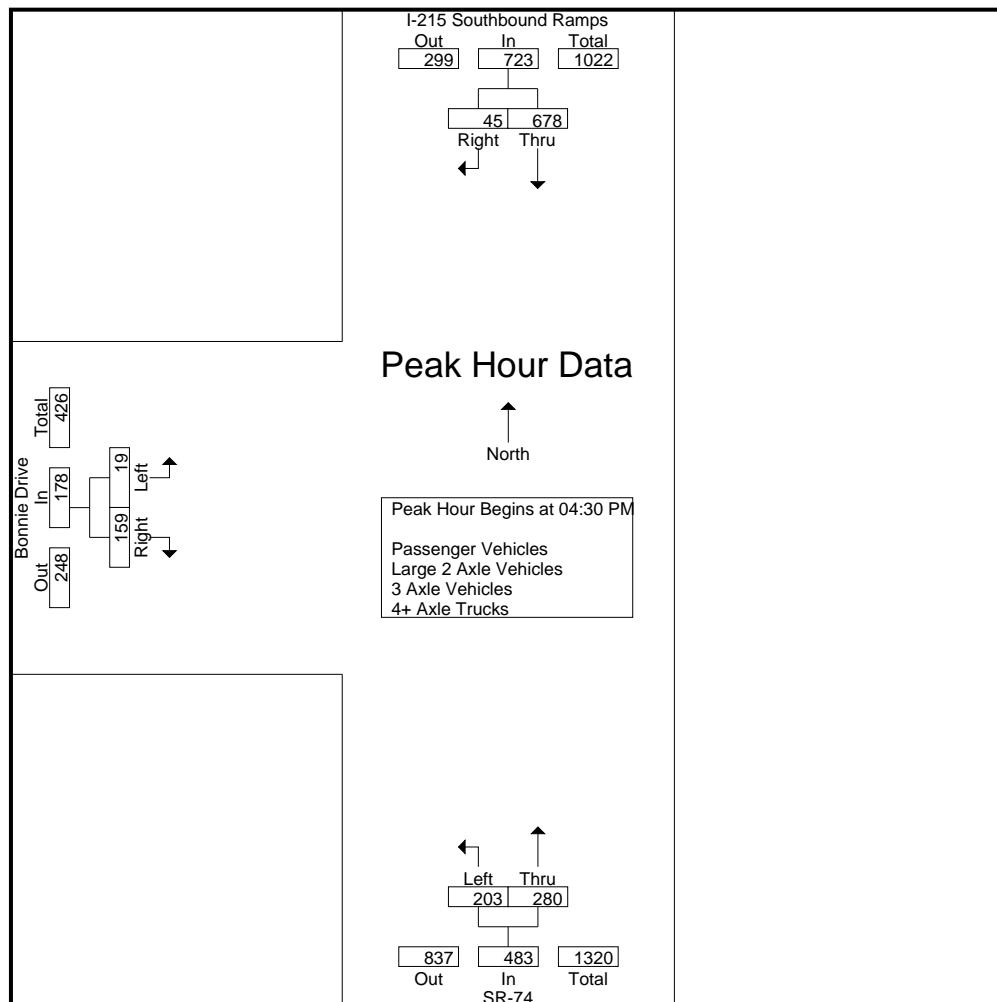
| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|-------------------------|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| 04:00 PM | 135 | 16 | 151 | 57 | 61 | 118 | 7 | 35 | 42 | 311 |
| 04:15 PM | 159 | 9 | 168 | 45 | 58 | 103 | 10 | 51 | 61 | 332 |
| 04:30 PM | 152 | 9 | 161 | 59 | 92 | 151 | 7 | 47 | 54 | 366 |
| 04:45 PM | 166 | 12 | 178 | 35 | 54 | 89 | 4 | 47 | 51 | 318 |
| Total | 612 | 46 | 658 | 196 | 265 | 461 | 28 | 180 | 208 | 1327 |
| 05:00 PM | 157 | 9 | 166 | 53 | 72 | 125 | 4 | 32 | 36 | 327 |
| 05:15 PM | 203 | 15 | 218 | 56 | 62 | 118 | 4 | 33 | 37 | 373 |
| 05:30 PM | 160 | 7 | 167 | 48 | 50 | 98 | 6 | 43 | 49 | 314 |
| 05:45 PM | 135 | 9 | 144 | 46 | 51 | 97 | 14 | 57 | 71 | 312 |
| Total | 655 | 40 | 695 | 203 | 235 | 438 | 28 | 165 | 193 | 1326 |
| Grand Total | 1267 | 86 | 1353 | 399 | 500 | 899 | 56 | 345 | 401 | 2653 |
| Apprch % | 93.6 | 6.4 | | 44.4 | 55.6 | | 14 | 86 | | |
| Total % | 47.8 | 3.2 | 51 | 15 | 18.8 | 33.9 | 2.1 | 13 | 15.1 | |
| Passenger Vehicles | 1215 | 83 | 1298 | 366 | 493 | 859 | 56 | 336 | 392 | 2549 |
| % Passenger Vehicles | 95.9 | 96.5 | 95.9 | 91.7 | 98.6 | 95.6 | 100 | 97.4 | 97.8 | 96.1 |
| Large 2 Axle Vehicles | 36 | 3 | 39 | 14 | 6 | 20 | 0 | 6 | 6 | 65 |
| % Large 2 Axle Vehicles | 2.8 | 3.5 | 2.9 | 3.5 | 1.2 | 2.2 | 0 | 1.7 | 1.5 | 2.5 |
| 3 Axle Vehicles | 9 | 0 | 9 | 19 | 0 | 19 | 0 | 2 | 2 | 30 |
| % 3 Axle Vehicles | 0.7 | 0 | 0.7 | 4.8 | 0 | 2.1 | 0 | 0.6 | 0.5 | 1.1 |
| 4+ Axle Trucks | 7 | 0 | 7 | 0 | 1 | 1 | 0 | 1 | 1 | 9 |
| % 4+ Axle Trucks | 0.6 | 0 | 0.5 | 0 | 0.2 | 0.1 | 0 | 0.3 | 0.2 | 0.3 |

| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|---|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | |
| 04:30 PM | 152 | 9 | 161 | 59 | 92 | 151 | 7 | 47 | 54 | 366 |
| 04:45 PM | 166 | 12 | 178 | 35 | 54 | 89 | 4 | 47 | 51 | 318 |
| 05:00 PM | 157 | 9 | 166 | 53 | 72 | 125 | 4 | 32 | 36 | 327 |
| 05:15 PM | 203 | 15 | 218 | 56 | 62 | 118 | 4 | 33 | 37 | 373 |
| Total Volume | 678 | 45 | 723 | 203 | 280 | 483 | 19 | 159 | 178 | 1384 |
| % App. Total | 93.8 | 6.2 | | 42 | 58 | | 10.7 | 89.3 | | |
| PHF | .835 | .750 | .829 | .860 | .761 | .800 | .679 | .846 | .824 | .928 |

Counts Unlimited, Inc.
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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:45 PM | | 04:30 PM | | 04:00 PM | |
|--------------|------------|-----------|------------|------|----------|------|
| +0 mins. | 166 | 12 | 178 | 59 | 92 | 151 |
| +15 mins. | 157 | 9 | 166 | 35 | 54 | 89 |
| +30 mins. | 203 | 15 | 218 | 53 | 72 | 125 |
| +45 mins. | 160 | 7 | 167 | 56 | 62 | 118 |
| Total Volume | 686 | 43 | 729 | 203 | 280 | 483 |
| % App. Total | 94.1 | 5.9 | | 42 | 58 | |
| PHF | .845 | .717 | .836 | .860 | .761 | .800 |
| | | | | | .700 | .882 |
| | | | | | | .852 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

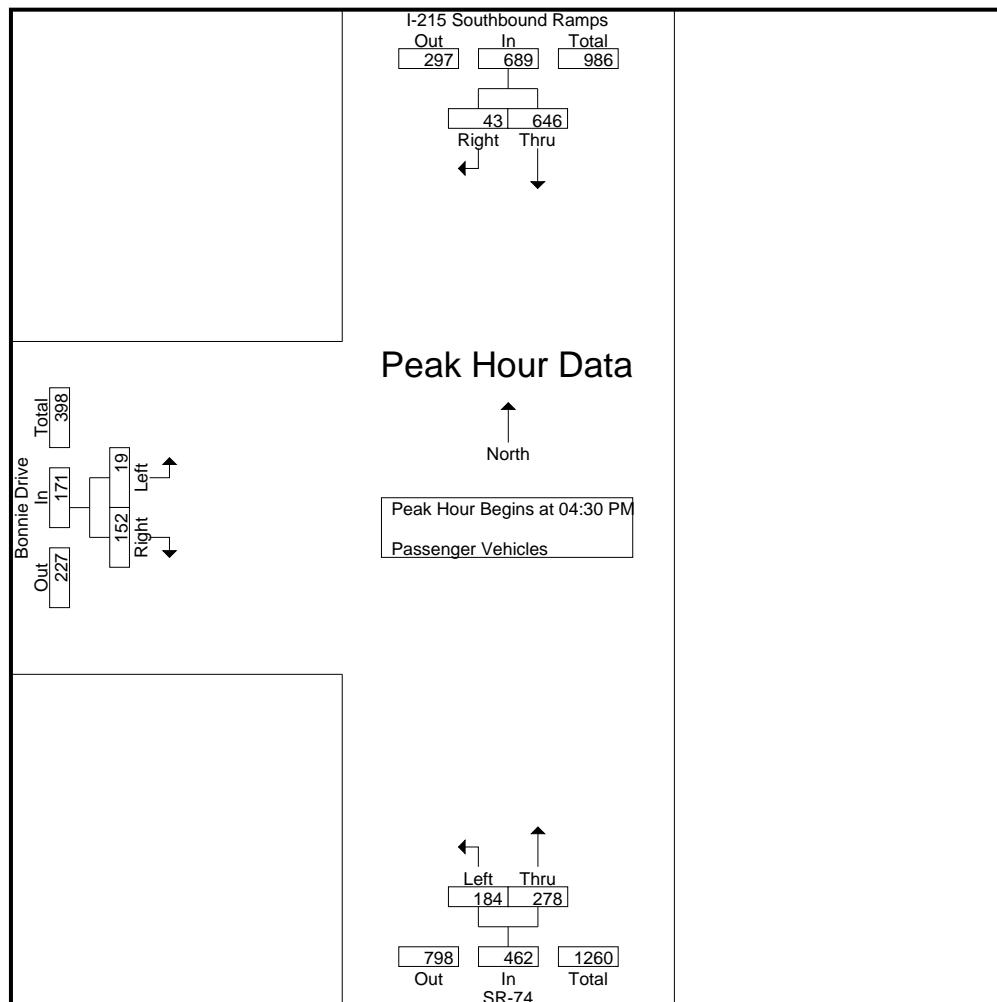
| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|-------------|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| 04:00 PM | 131 | 15 | 146 | 48 | 60 | 108 | 7 | 35 | 42 | 296 |
| 04:15 PM | 149 | 9 | 158 | 42 | 58 | 100 | 10 | 51 | 61 | 319 |
| 04:30 PM | 145 | 8 | 153 | 56 | 92 | 148 | 7 | 45 | 52 | 353 |
| 04:45 PM | 159 | 12 | 171 | 28 | 54 | 82 | 4 | 45 | 49 | 302 |
| Total | 584 | 44 | 628 | 174 | 264 | 438 | 28 | 176 | 204 | 1270 |
| 05:00 PM | 152 | 9 | 161 | 49 | 70 | 119 | 4 | 30 | 34 | 314 |
| 05:15 PM | 190 | 14 | 204 | 51 | 62 | 113 | 4 | 32 | 36 | 353 |
| 05:30 PM | 159 | 7 | 166 | 46 | 48 | 94 | 6 | 43 | 49 | 309 |
| 05:45 PM | 130 | 9 | 139 | 46 | 49 | 95 | 14 | 55 | 69 | 303 |
| Total | 631 | 39 | 670 | 192 | 229 | 421 | 28 | 160 | 188 | 1279 |
| Grand Total | 1215 | 83 | 1298 | 366 | 493 | 859 | 56 | 336 | 392 | 2549 |
| Apprch % | 93.6 | 6.4 | | 42.6 | 57.4 | | 14.3 | 85.7 | | |
| Total % | 47.7 | 3.3 | 50.9 | 14.4 | 19.3 | 33.7 | 2.2 | 13.2 | 15.4 | |

| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|---|--------------------------------------|-----------|------------|---------------------|-----------|------------|---------------------------|-----------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | |
| 04:30 PM | 145 | 8 | 153 | 56 | 92 | 148 | 7 | 45 | 52 | 353 |
| 04:45 PM | 159 | 12 | 171 | 28 | 54 | 82 | 4 | 45 | 49 | 302 |
| 05:00 PM | 152 | 9 | 161 | 49 | 70 | 119 | 4 | 30 | 34 | 314 |
| 05:15 PM | 190 | 14 | 204 | 51 | 62 | 113 | 4 | 32 | 36 | 353 |
| Total Volume | 646 | 43 | 689 | 184 | 278 | 462 | 19 | 152 | 171 | 1322 |
| % App. Total | 93.8 | 6.2 | | 39.8 | 60.2 | | 11.1 | 88.9 | | |
| PHF | .850 | .768 | .844 | .821 | .755 | .780 | .679 | .844 | .822 | .936 |

Counts Unlimited, Inc.
 PO Box 1178
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 (951)268-6268

City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|------------|-----------|------------|-----------|-----------|------------|----------|-----------|-----------|
| +0 mins. | 145 | 8 | 153 | 56 | 92 | 148 | 7 | 45 | 52 |
| +15 mins. | 159 | 12 | 171 | 28 | 54 | 82 | 4 | 45 | 49 |
| +30 mins. | 152 | 9 | 161 | 49 | 70 | 119 | 4 | 30 | 34 |
| +45 mins. | 190 | 14 | 204 | 51 | 62 | 113 | 4 | 32 | 36 |
| Total Volume | 646 | 43 | 689 | 184 | 278 | 462 | 19 | 152 | 171 |
| % App. Total | 93.8 | 6.2 | | 39.8 | 60.2 | | 11.1 | 88.9 | |
| PHF | .850 | .768 | .844 | .821 | .755 | .780 | .679 | .844 | .822 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

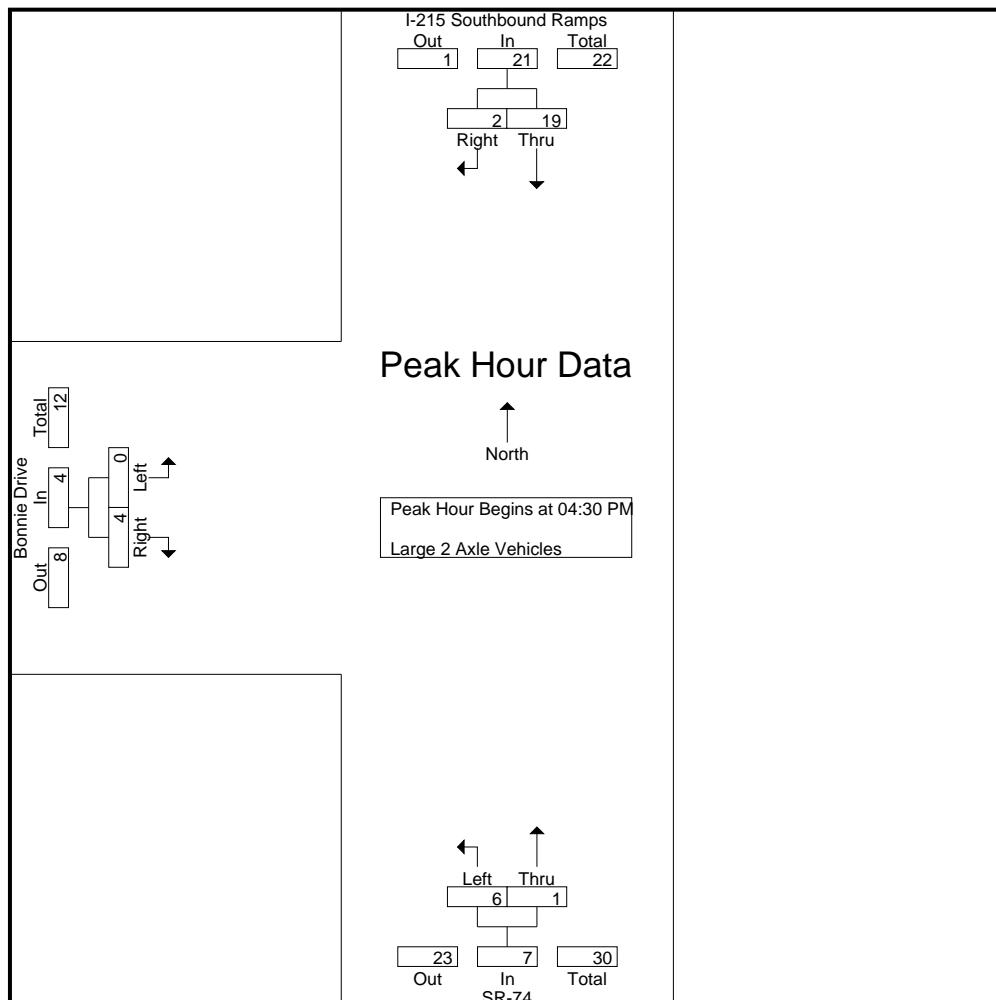
| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|-------------|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| 04:00 PM | 4 | 1 | 5 | 8 | 1 | 9 | 0 | 0 | 0 | 14 |
| 04:15 PM | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 04:30 PM | 4 | 1 | 5 | 2 | 0 | 2 | 0 | 0 | 0 | 7 |
| 04:45 PM | 4 | 0 | 4 | 3 | 0 | 3 | 0 | 2 | 2 | 9 |
| Total | 21 | 2 | 23 | 13 | 1 | 14 | 0 | 2 | 2 | 39 |
| 05:00 PM | 2 | 0 | 2 | 1 | 1 | 2 | 0 | 1 | 1 | 5 |
| 05:15 PM | 9 | 1 | 10 | 0 | 0 | 0 | 0 | 1 | 1 | 11 |
| 05:30 PM | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 05:45 PM | 4 | 0 | 4 | 0 | 2 | 2 | 0 | 2 | 2 | 8 |
| Total | 15 | 1 | 16 | 1 | 5 | 6 | 0 | 4 | 4 | 26 |
| Grand Total | 36 | 3 | 39 | 14 | 6 | 20 | 0 | 6 | 6 | 65 |
| Apprch % | 92.3 | 7.7 | | 70 | 30 | | 0 | 100 | | |
| Total % | 55.4 | 4.6 | 60 | 21.5 | 9.2 | 30.8 | 0 | 9.2 | 9.2 | |

| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|--|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | |
| 04:30 PM | 4 | 1 | 5 | 2 | 0 | 2 | 0 | 0 | 0 | 7 |
| 04:45 PM | 4 | 0 | 4 | 3 | 0 | 3 | 0 | 2 | 2 | 9 |
| 05:00 PM | 2 | 0 | 2 | 1 | 1 | 2 | 0 | 1 | 1 | 5 |
| 05:15 PM | 9 | 1 | 10 | 0 | 0 | 0 | 0 | 1 | 1 | 11 |
| Total Volume | 19 | 2 | 21 | 6 | 1 | 7 | 0 | 4 | 4 | 32 |
| % App. Total | 90.5 | 9.5 | | 85.7 | 14.3 | | 0 | 100 | | |
| PHF | .528 | .500 | .525 | .500 | .250 | .583 | .000 | .500 | .500 | .727 |

Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 4 | 1 | 5 | 2 | 0 | 2 | 0 | 0 | 0 |
| +15 mins. | 4 | 0 | 4 | 3 | 0 | 3 | 0 | 2 | 2 |
| +30 mins. | 2 | 0 | 2 | 1 | 1 | 2 | 0 | 1 | 1 |
| +45 mins. | 9 | 1 | 10 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total Volume | 19 | 2 | 21 | 6 | 1 | 7 | 0 | 4 | 4 |
| % App. Total | 90.5 | 9.5 | | 85.7 | 14.3 | | 0 | 100 | |
| PHF | .528 | .500 | .525 | .500 | .250 | .583 | .000 | .500 | .500 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

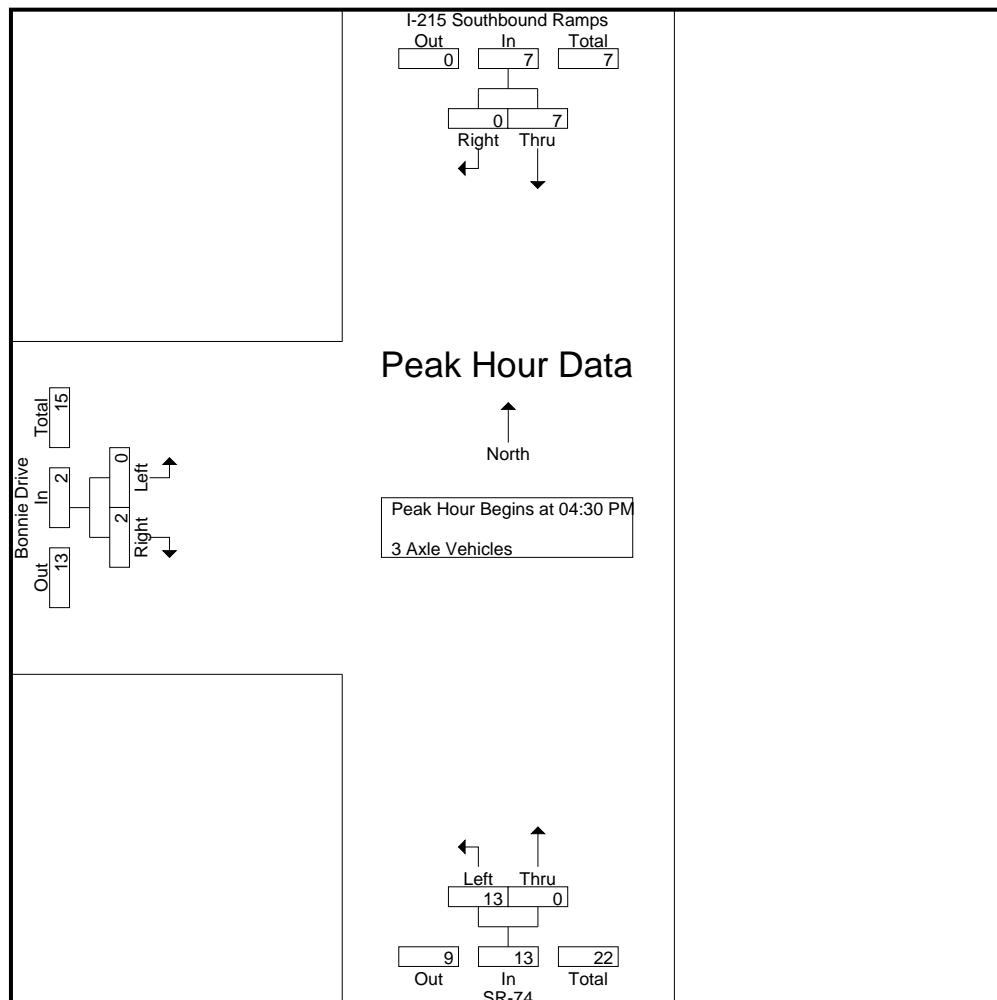
| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|-------------|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| 04:00 PM | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 04:15 PM | 1 | 0 | 1 | 3 | 0 | 3 | 0 | 0 | 0 | 4 |
| 04:30 PM | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 3 |
| 04:45 PM | 1 | 0 | 1 | 4 | 0 | 4 | 0 | 0 | 0 | 5 |
| Total | 3 | 0 | 3 | 9 | 0 | 9 | 0 | 1 | 1 | 13 |
| 05:00 PM | 2 | 0 | 2 | 3 | 0 | 3 | 0 | 1 | 1 | 6 |
| 05:15 PM | 3 | 0 | 3 | 5 | 0 | 5 | 0 | 0 | 0 | 8 |
| 05:30 PM | 1 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 3 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 6 | 0 | 6 | 10 | 0 | 10 | 0 | 1 | 1 | 17 |
| Grand Total | 9 | 0 | 9 | 19 | 0 | 19 | 0 | 2 | 2 | 30 |
| Apprch % | 100 | 0 | | 100 | 0 | | 0 | 100 | | |
| Total % | 30 | 0 | 30 | 63.3 | 0 | 63.3 | 0 | 6.7 | 6.7 | |

| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|--|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | |
| 04:30 PM | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 3 |
| 04:45 PM | 1 | 0 | 1 | 4 | 0 | 4 | 0 | 0 | 0 | 5 |
| 05:00 PM | 2 | 0 | 2 | 3 | 0 | 3 | 0 | 1 | 1 | 6 |
| 05:15 PM | 3 | 0 | 3 | 5 | 0 | 5 | 0 | 0 | 0 | 8 |
| Total Volume | 7 | 0 | 7 | 13 | 0 | 13 | 0 | 2 | 2 | 22 |
| % App. Total | 100 | 0 | | 100 | 0 | | 0 | 100 | | |
| PHF | .583 | .000 | .583 | .650 | .000 | .650 | .000 | .500 | .500 | .688 |

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 (951)268-6268

City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| +15 mins. | 1 | 0 | 1 | 4 | 0 | 4 | 0 | 0 | 0 |
| +30 mins. | 2 | 0 | 2 | 3 | 0 | 3 | 0 | 1 | 1 |
| +45 mins. | 3 | 0 | 3 | 5 | 0 | 5 | 0 | 0 | 0 |
| Total Volume | 7 | 0 | 7 | 13 | 0 | 13 | 0 | 2 | 2 |
| % App. Total | 100 | 0 | 100 | 100 | 0 | 100 | 0 | 100 | 100 |
| PHF | .583 | .000 | .583 | .650 | .000 | .650 | .000 | .500 | .500 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

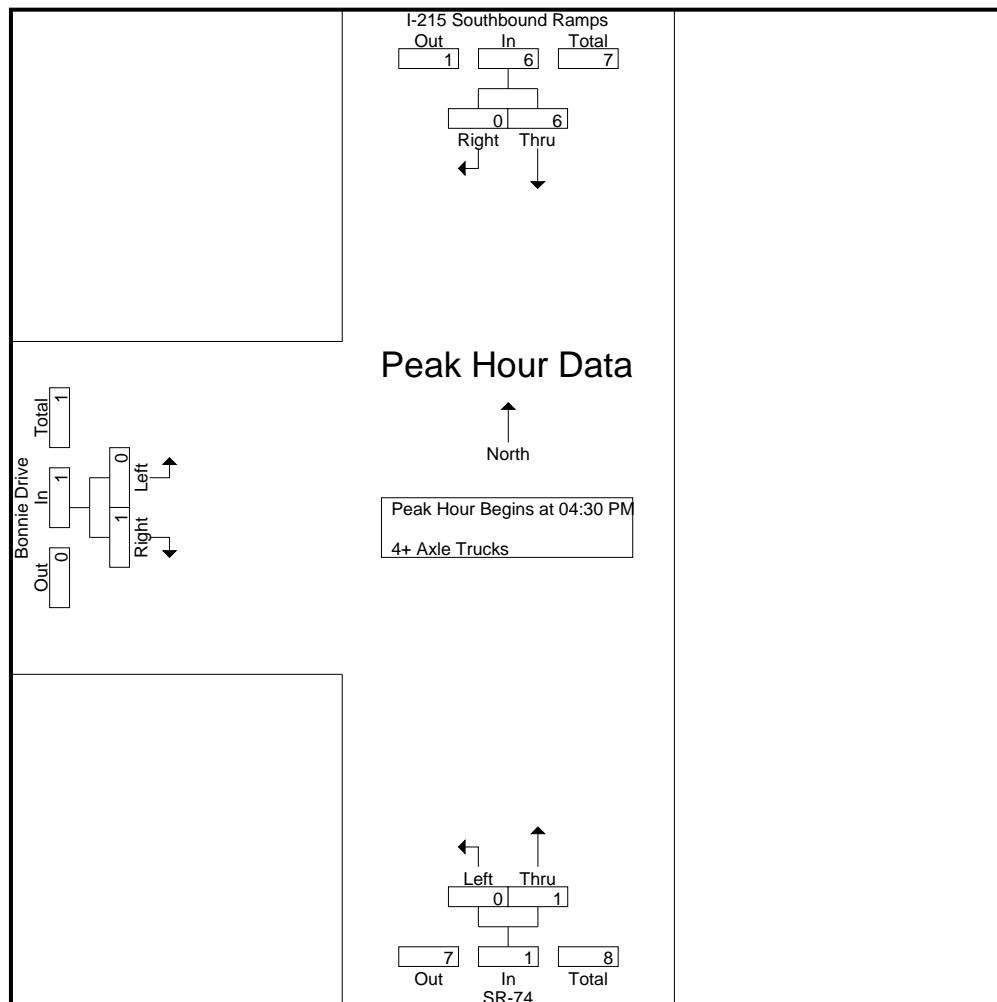
| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|-------------|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 3 |
| 04:45 PM | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 5 |
| 05:00 PM | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 05:15 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 3 | 0 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 4 |
| Grand Total | 7 | 0 | 7 | 0 | 1 | 1 | 0 | 1 | 1 | 9 |
| Apprch % | 100 | 0 | | 0 | 100 | | 0 | 100 | | |
| Total % | 77.8 | 0 | 77.8 | 0 | 11.1 | 11.1 | 0 | 11.1 | 11.1 | |

| Start Time | I-215 Southbound Ramps Southbound | | | SR-74 Northbound | | | Bonnie Drive Eastbound | | | Int. Total |
|--|--------------------------------------|-------|------------|---------------------|------|------------|---------------------------|-------|------------|------------|
| | Thru | Right | App. Total | Left | Thru | App. Total | Left | Right | App. Total | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | |
| 04:30 PM | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 3 |
| 04:45 PM | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:00 PM | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 05:15 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Volume | 6 | 0 | 6 | 0 | 1 | 1 | 0 | 1 | 1 | 8 |
| % App. Total | 100 | 0 | | 0 | 100 | | 0 | 100 | | |
| PHF | .750 | .000 | .750 | .000 | .250 | .250 | .000 | .250 | .250 | .667 |

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City of Menifee
 N/S: SR-215 Southbound Ramps/SR-74
 E/W: Bonnie Drive
 Weather: Clear

File Name : 01_MEN_215S_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|----------|------|----------|----------|----------|----------|----------|------|----------|
| +0 mins. | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| +15 mins. | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| +45 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 6 | 0 | 6 | 0 | 1 | 1 | 0 | 1 | 1 |
| % App. Total | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 |
| PHF | .750 | .000 | .750 | .000 | .250 | .250 | .000 | .250 | .250 |

Location: Menifee
N/S: SR-215 SB Ramps/SR-74
E/W: Bonnie Drive



Date: 10/5/2021
Day: Tuesday

PEDESTRIANS

| | North Leg SR-215 SB Ramps Pedestrians | East Leg Dead End Pedestrians | South Leg SR-74 Pedestrians | West Leg Bonnie Drive Pedestrians | |
|----------------|---|-------------------------------------|-----------------------------------|---|---|
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

| | North Leg SR-215 SB Ramps Pedestrians | East Leg Dead End Pedestrians | South Leg SR-74 Pedestrians | West Leg Bonnie Drive Pedestrians | |
|----------------|---|-------------------------------------|-----------------------------------|---|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

Location: Menifee
 N/S: SR-215 SB Ramps/SR-74
 E/W: Bonnie Drive



Date: 10/5/2021
 Day: Tuesday

BICYCLES

| Southbound SR-215 SB Ramps | | | Westbound Dead End | | | Northbound SR-74 | | | Eastbound Bonnie Drive | | |
|-------------------------------|------|-------|-----------------------|------|-------|---------------------|------|-------|---------------------------|------|-------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

| Southbound SR-215 SB Ramps | | | Westbound Dead End | | | Northbound SR-74 | | | Eastbound Bonnie Drive | | |
|-------------------------------|------|-------|-----------------------|------|-------|---------------------|------|-------|---------------------------|------|-------|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Counts Unlimited, Inc.
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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

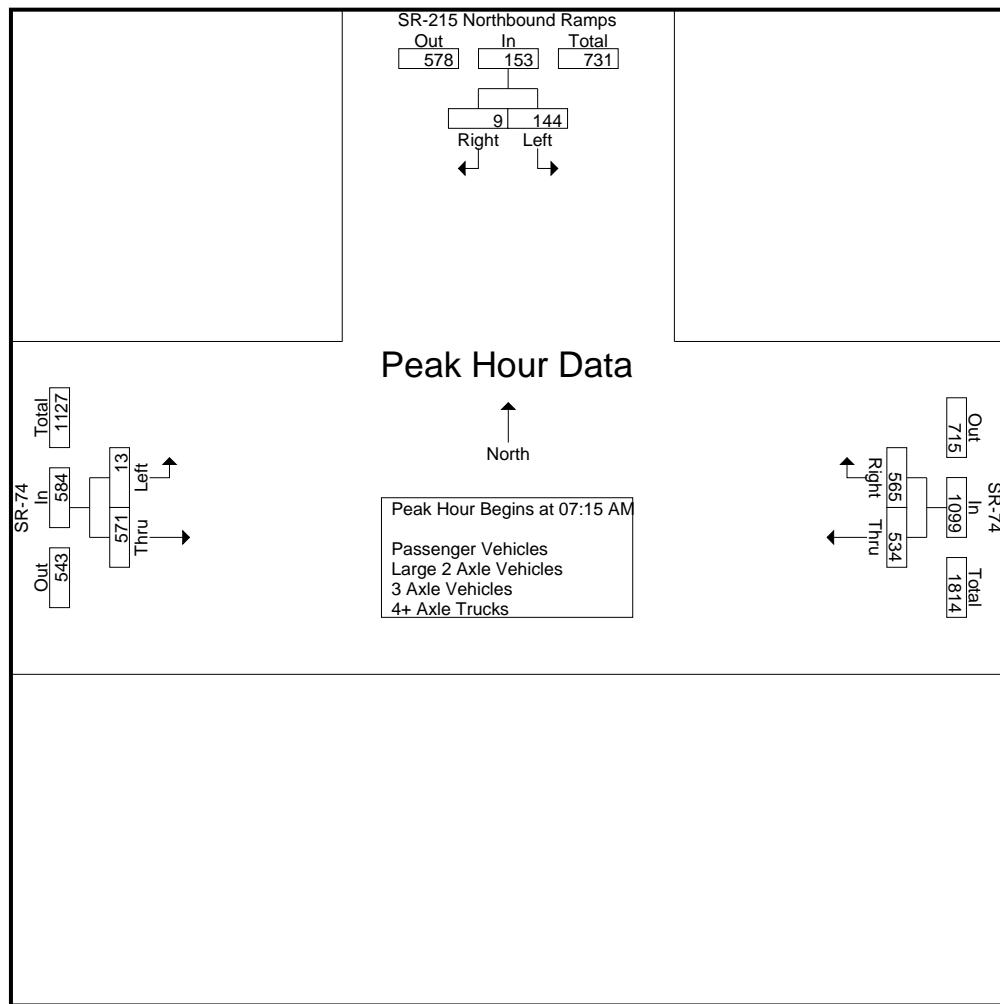
| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------------------|---------------------------------------|-------|------|------------|--------------------|-------|------|------------|--------------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 07:00 AM | 21 | 2 | 1 | 23 | 112 | 145 | 0 | 257 | 2 | 122 | 0 | 124 | 1 | 404 | 405 |
| 07:15 AM | 55 | 3 | 2 | 58 | 122 | 145 | 0 | 267 | 2 | 161 | 0 | 163 | 2 | 488 | 490 |
| 07:30 AM | 30 | 3 | 2 | 33 | 151 | 149 | 0 | 300 | 7 | 136 | 0 | 143 | 2 | 476 | 478 |
| 07:45 AM | 27 | 2 | 1 | 29 | 124 | 141 | 0 | 265 | 3 | 129 | 0 | 132 | 1 | 426 | 427 |
| Total | 133 | 10 | 6 | 143 | 509 | 580 | 0 | 1089 | 14 | 548 | 0 | 562 | 6 | 1794 | 1800 |
| 08:00 AM | 32 | 1 | 1 | 33 | 137 | 130 | 0 | 267 | 1 | 145 | 0 | 146 | 1 | 446 | 447 |
| 08:15 AM | 24 | 3 | 0 | 27 | 101 | 109 | 0 | 210 | 3 | 141 | 0 | 144 | 0 | 381 | 381 |
| 08:30 AM | 24 | 1 | 1 | 25 | 98 | 97 | 0 | 195 | 4 | 120 | 0 | 124 | 1 | 344 | 345 |
| 08:45 AM | 18 | 4 | 3 | 22 | 81 | 115 | 0 | 196 | 6 | 137 | 0 | 143 | 3 | 361 | 364 |
| Total | 98 | 9 | 5 | 107 | 417 | 451 | 0 | 868 | 14 | 543 | 0 | 557 | 5 | 1532 | 1537 |
| Grand Total | 231 | 19 | 11 | 250 | 926 | 1031 | 0 | 1957 | 28 | 1091 | 0 | 1119 | 11 | 3326 | 3337 |
| Apprch % | 92.4 | 7.6 | | | 47.3 | 52.7 | | | 2.5 | 97.5 | | | | | |
| Total % | 6.9 | 0.6 | | 7.5 | 27.8 | 31 | | 58.8 | 0.8 | 32.8 | | 33.6 | 0.3 | 99.7 | |
| Passenger Vehicles | 209 | 16 | | 235 | 804 | 936 | | 1740 | 25 | 918 | | 943 | 0 | 0 | 2918 |
| % Passenger Vehicles | 90.5 | 84.2 | 90.9 | 90 | 86.8 | 90.8 | 0 | 88.9 | 89.3 | 84.1 | 0 | 84.3 | 0 | 0 | 87.4 |
| Large 2 Axle Vehicles | 15 | 1 | | 16 | 39 | 61 | | 100 | 2 | 63 | | 65 | 0 | 0 | 181 |
| % Large 2 Axle Vehicles | 6.5 | 5.3 | 0 | 6.1 | 4.2 | 5.9 | 0 | 5.1 | 7.1 | 5.8 | 0 | 5.8 | 0 | 0 | 5.4 |
| 3 Axle Vehicles | 2 | 1 | | 4 | 12 | 11 | | 23 | 0 | 20 | | 20 | 0 | 0 | 47 |
| % 3 Axle Vehicles | 0.9 | 5.3 | 9.1 | 1.5 | 1.3 | 1.1 | 0 | 1.2 | 0 | 1.8 | 0 | 1.8 | 0 | 0 | 1.4 |
| 4+ Axle Trucks | 5 | 1 | | 6 | 71 | 23 | | 94 | 1 | 90 | | 91 | 0 | 0 | 191 |
| % 4+ Axle Trucks | 2.2 | 5.3 | 0 | 2.3 | 7.7 | 2.2 | 0 | 4.8 | 3.6 | 8.2 | 0 | 8.1 | 0 | 0 | 5.7 |

| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|---|---------------------------------------|-------|------------|------|--------------------|------------|------|------|--------------------|------|------|------------|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Left | Thru | App. Total | |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | |
| 07:15 AM | 55 | 3 | 58 | 122 | 145 | 267 | 2 | 161 | 163 | | | | 488 |
| 07:30 AM | 30 | 3 | 33 | 151 | 149 | 300 | 7 | 136 | 143 | | | | 476 |
| 07:45 AM | 27 | 2 | 29 | 124 | 141 | 265 | 3 | 129 | 132 | | | | 426 |
| 08:00 AM | 32 | 1 | 33 | 137 | 130 | 267 | 1 | 145 | 146 | | | | 446 |
| Total Volume | 144 | 9 | 153 | 534 | 565 | 1099 | 13 | 571 | 584 | | | | 1836 |
| % App. Total | 94.1 | 5.9 | | 48.6 | 51.4 | | 2.2 | 97.8 | | | | | |
| PHF | .655 | .750 | .659 | .884 | .948 | .916 | .464 | .887 | .896 | | | | .941 |

Counts Unlimited, Inc.
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 (951)268-6268

City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 55 | 3 | 58 | 122 | 145 | 267 | 2 | 161 | 163 |
| +15 mins. | 30 | 3 | 33 | 151 | 149 | 300 | 7 | 136 | 143 |
| +30 mins. | 27 | 2 | 29 | 124 | 141 | 265 | 3 | 129 | 132 |
| +45 mins. | 32 | 1 | 33 | 137 | 130 | 267 | 1 | 145 | 146 |
| Total Volume | 144 | 9 | 153 | 534 | 565 | 1099 | 13 | 571 | 584 |
| % App. Total | 94.1 | 5.9 | | 48.6 | 51.4 | | 2.2 | 97.8 | |
| PHF | .655 | .750 | .659 | .884 | .948 | .916 | .464 | .887 | .896 |

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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

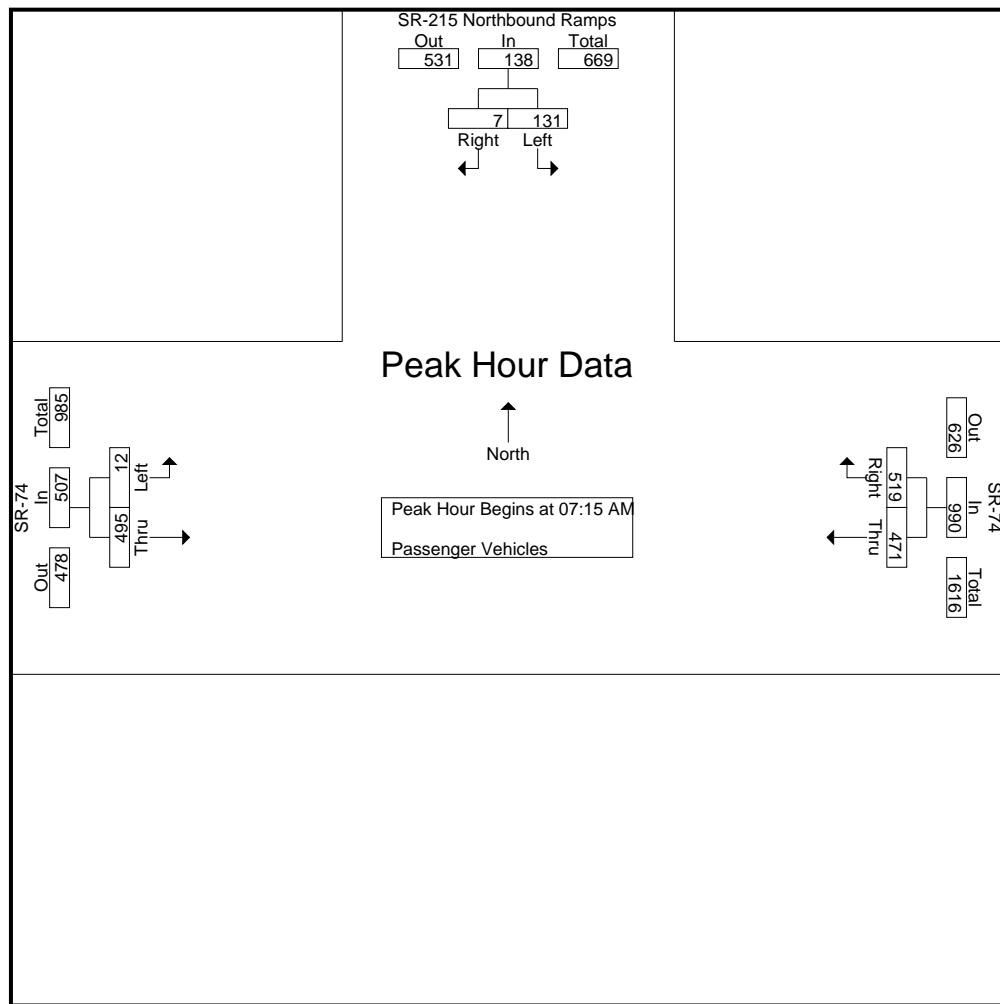
| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|------------------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 07:00 AM | 17 | 2 | 1 | 19 | 93 | 126 | 0 | 219 | 2 | 103 | 0 | 105 | 1 | 343 | 344 |
| 07:15 AM | 49 | 3 | 2 | 52 | 103 | 131 | 0 | 234 | 2 | 150 | 0 | 152 | 2 | 438 | 440 |
| 07:30 AM | 28 | 1 | 1 | 29 | 135 | 140 | 0 | 275 | 6 | 118 | 0 | 124 | 1 | 428 | 429 |
| 07:45 AM | 26 | 2 | 1 | 28 | 113 | 131 | 0 | 244 | 3 | 108 | 0 | 111 | 1 | 383 | 384 |
| Total | 120 | 8 | 5 | 128 | 444 | 528 | 0 | 972 | 13 | 479 | 0 | 492 | 5 | 1592 | 1597 |
| 08:00 AM | 28 | 1 | 1 | 29 | 120 | 117 | 0 | 237 | 1 | 119 | 0 | 120 | 1 | 386 | 387 |
| 08:15 AM | 21 | 3 | 0 | 24 | 86 | 101 | 0 | 187 | 2 | 117 | 0 | 119 | 0 | 330 | 330 |
| 08:30 AM | 23 | 1 | 1 | 24 | 86 | 87 | 0 | 173 | 3 | 89 | 0 | 92 | 1 | 289 | 290 |
| 08:45 AM | 17 | 3 | 3 | 20 | 68 | 103 | 0 | 171 | 6 | 114 | 0 | 120 | 3 | 311 | 314 |
| Total | 89 | 8 | 5 | 97 | 360 | 408 | 0 | 768 | 12 | 439 | 0 | 451 | 5 | 1316 | 1321 |
| Grand Total | 209 | 16 | 10 | 225 | 804 | 936 | 0 | 1740 | 25 | 918 | 0 | 943 | 10 | 2908 | 2918 |
| Apprch % | 92.9 | 7.1 | | | 46.2 | 53.8 | | | 2.7 | 97.3 | | | | | |
| Total % | 7.2 | 0.6 | | | 7.7 | 27.6 | 32.2 | | 0.9 | 31.6 | | | 32.4 | 0.3 | 99.7 |

| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total | |
|--|------------------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|------|------|--|------------|--|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | |
| 07:15 AM | 49 | 3 | 52 | | 103 | 131 | 234 | | 2 | 150 | 152 | | 438 | |
| 07:30 AM | 28 | 1 | 29 | | 135 | 140 | 275 | | 6 | 118 | 124 | | 428 | |
| 07:45 AM | 26 | 2 | 28 | | 113 | 131 | 244 | | 3 | 108 | 111 | | 383 | |
| 08:00 AM | 28 | 1 | 29 | | 120 | 117 | 237 | | 1 | 119 | 120 | | 386 | |
| Total Volume | 131 | 7 | 138 | | 471 | 519 | 990 | | 12 | 495 | 507 | | 1635 | |
| % App. Total | 94.9 | 5.1 | | | 47.6 | 52.4 | | | 2.4 | 97.6 | | | | |
| PHF | .668 | .583 | .663 | | .872 | .927 | .900 | | .500 | .825 | .834 | | .933 | |

Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|-----------|----------|-----------|------------|------------|------------|----------|------------|------------|
| +0 mins. | 49 | 3 | 52 | 103 | 131 | 234 | 2 | 150 | 152 |
| +15 mins. | 28 | 1 | 29 | 135 | 140 | 275 | 6 | 118 | 124 |
| +30 mins. | 26 | 2 | 28 | 113 | 131 | 244 | 3 | 108 | 111 |
| +45 mins. | 28 | 1 | 29 | 120 | 117 | 237 | 1 | 119 | 120 |
| Total Volume | 131 | 7 | 138 | 471 | 519 | 990 | 12 | 495 | 507 |
| % App. Total | 94.9 | 5.1 | | 47.6 | 52.4 | | 2.4 | 97.6 | |
| PHF | .668 | .583 | .663 | .872 | .927 | .900 | .500 | .825 | .834 |

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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

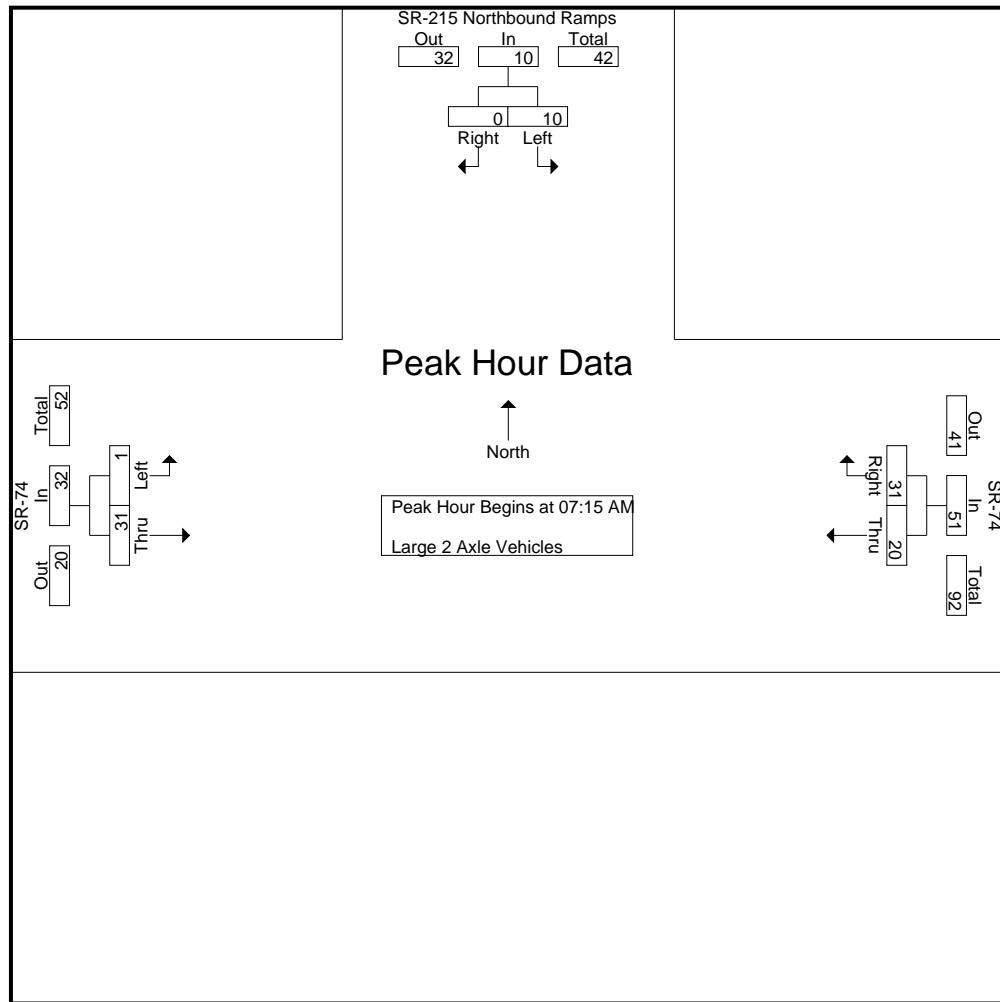
| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|------------------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 07:00 AM | 3 | 0 | 0 | 3 | 11 | 13 | 0 | 24 | 0 | 9 | 0 | 9 | 0 | 36 | 36 |
| 07:15 AM | 4 | 0 | 0 | 4 | 9 | 8 | 0 | 17 | 0 | 5 | 0 | 5 | 0 | 26 | 26 |
| 07:30 AM | 1 | 0 | 0 | 1 | 6 | 6 | 0 | 12 | 1 | 6 | 0 | 7 | 0 | 20 | 20 |
| 07:45 AM | 1 | 0 | 0 | 1 | 3 | 8 | 0 | 11 | 0 | 8 | 0 | 8 | 0 | 20 | 20 |
| Total | 9 | 0 | 0 | 9 | 29 | 35 | 0 | 64 | 1 | 28 | 0 | 29 | 0 | 102 | 102 |
| 08:00 AM | 4 | 0 | 0 | 4 | 2 | 9 | 0 | 11 | 0 | 12 | 0 | 12 | 0 | 27 | 27 |
| 08:15 AM | 2 | 0 | 0 | 2 | 4 | 4 | 0 | 8 | 1 | 6 | 0 | 7 | 0 | 17 | 17 |
| 08:30 AM | 0 | 0 | 0 | 0 | 2 | 6 | 0 | 8 | 0 | 7 | 0 | 7 | 0 | 15 | 15 |
| 08:45 AM | 0 | 1 | 0 | 1 | 2 | 7 | 0 | 9 | 0 | 10 | 0 | 10 | 0 | 20 | 20 |
| Total | 6 | 1 | 0 | 7 | 10 | 26 | 0 | 36 | 1 | 35 | 0 | 36 | 0 | 79 | 79 |
| Grand Total | 15 | 1 | 0 | 16 | 39 | 61 | 0 | 100 | 2 | 63 | 0 | 65 | 0 | 181 | 181 |
| Apprch % | 93.8 | 6.2 | | | 39 | 61 | | | 3.1 | 96.9 | | | | | |
| Total % | 8.3 | 0.6 | | | 8.8 | 21.5 | 33.7 | | 55.2 | 1.1 | 34.8 | | 35.9 | 0 | 100 |

| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Left | Thru | App. Total | Int. Total | | |
|--|------------------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|------|------|------------|------|------|------------|------------|--|--|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Left | Thru | App. Total | | | | | | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 4 | 0 | 4 | 9 | 8 | 17 | 0 | 5 | 5 | 0 | 5 | 5 | | | | 26 | | |
| 07:30 AM | 1 | 0 | 1 | 6 | 6 | 12 | 1 | 6 | 6 | 1 | 6 | 6 | | | | 20 | | |
| 07:45 AM | 1 | 0 | 1 | 3 | 8 | 11 | 0 | 8 | 8 | 0 | 8 | 8 | | | | 20 | | |
| 08:00 AM | 4 | 0 | 4 | 2 | 9 | 11 | 0 | 12 | 12 | 0 | 12 | 12 | | | | 27 | | |
| Total Volume | 10 | 0 | 10 | 20 | 31 | 51 | 1 | 31 | 32 | | | | | | | 93 | | |
| % App. Total | 100 | 0 | | 39.2 | 60.8 | | 3.1 | 96.9 | | | | | | | | | | |
| PHF | .625 | .000 | .625 | .556 | .861 | .750 | .250 | .646 | .667 | | | | | | | .861 | | |

Counts Unlimited, Inc.
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 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | 07:15 AM | | 07:15 AM | |
|--------------|----------|------|----------|------|----------|------|
| +0 mins. | 4 | 0 | 4 | 9 | 8 | 17 |
| +15 mins. | 1 | 0 | 1 | 6 | 6 | 12 |
| +30 mins. | 1 | 0 | 1 | 3 | 8 | 11 |
| +45 mins. | 4 | 0 | 4 | 2 | 9 | 11 |
| Total Volume | 10 | 0 | 10 | 20 | 31 | 51 |
| % App. Total | 100 | 0 | | 39.2 | 60.8 | |
| PHF | .625 | .000 | .625 | .556 | .861 | .750 |
| | | | | | | |
| | | | | | | |

Counts Unlimited, Inc.
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 (951)268-6268

City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

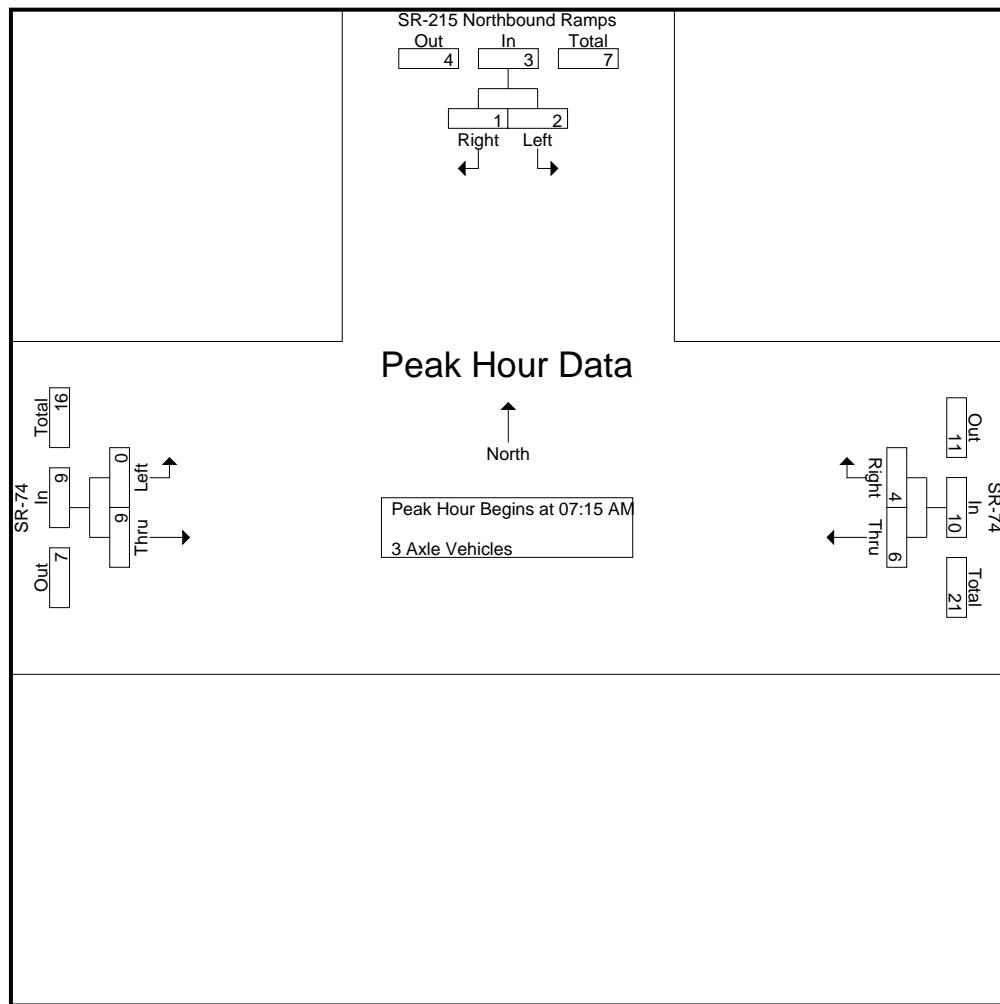
| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|------------------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 07:00 AM | 0 | 0 | 0 | 0 | 6 | 3 | 0 | 9 | 0 | 3 | 0 | 3 | 0 | 12 | 12 |
| 07:15 AM | 1 | 0 | 0 | 1 | 3 | 1 | 0 | 4 | 0 | 3 | 0 | 3 | 0 | 8 | 8 |
| 07:30 AM | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 4 | 5 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 2 |
| Total | 2 | 1 | 1 | 3 | 10 | 4 | 0 | 14 | 0 | 9 | 0 | 9 | 1 | 26 | 27 |
| 08:00 AM | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 5 | 0 | 3 | 0 | 3 | 0 | 8 | 8 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 4 | 0 | 4 | 0 | 6 | 6 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 4 | 4 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 2 |
| Total | 0 | 0 | 0 | 0 | 2 | 7 | 0 | 9 | 0 | 11 | 0 | 11 | 0 | 20 | 20 |
| Grand Total | 2 | 1 | 1 | 3 | 12 | 11 | 0 | 23 | 0 | 20 | 0 | 20 | 1 | 46 | 47 |
| Apprch % | 66.7 | 33.3 | | | 52.2 | 47.8 | | | 0 | 100 | | | | | |
| Total % | 4.3 | 2.2 | | | 6.5 | 26.1 | 23.9 | | 50 | 0 | 43.5 | | 43.5 | 2.1 | 97.9 |

| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total | |
|--|------------------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|------|------|------|------------|--|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | |
| 07:15 AM | 1 | 0 | 1 | 3 | 1 | 1 | 4 | 0 | 3 | 3 | 3 | 3 | 8 | |
| 07:30 AM | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 4 | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 2 | |
| 08:00 AM | 0 | 0 | 0 | 2 | 3 | 5 | 0 | 3 | 3 | 3 | 3 | 3 | 8 | |
| Total Volume | 2 | 1 | 3 | 6 | 4 | 10 | 0 | 9 | 9 | 9 | 9 | 9 | 22 | |
| % App. Total | 66.7 | 33.3 | | 60 | 40 | | 0 | 100 | | | | | | |
| PHF | .500 | .250 | .375 | .500 | .333 | .500 | .000 | .750 | .750 | .750 | .750 | .750 | .688 | |

Counts Unlimited, Inc.
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 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 1 | 0 | 1 | 3 | 1 | 4 | 0 | 3 | 3 |
| +15 mins. | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 1 | 1 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| +45 mins. | 0 | 0 | 0 | 2 | 3 | 5 | 0 | 3 | 3 |
| Total Volume | 2 | 1 | 3 | 6 | 4 | 10 | 0 | 9 | 9 |
| % App. Total | 66.7 | 33.3 | | 60 | 40 | | 0 | 100 | |
| PHF | .500 | .250 | .375 | .500 | .333 | .500 | .000 | .750 | .750 |

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 (951)268-6268

City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

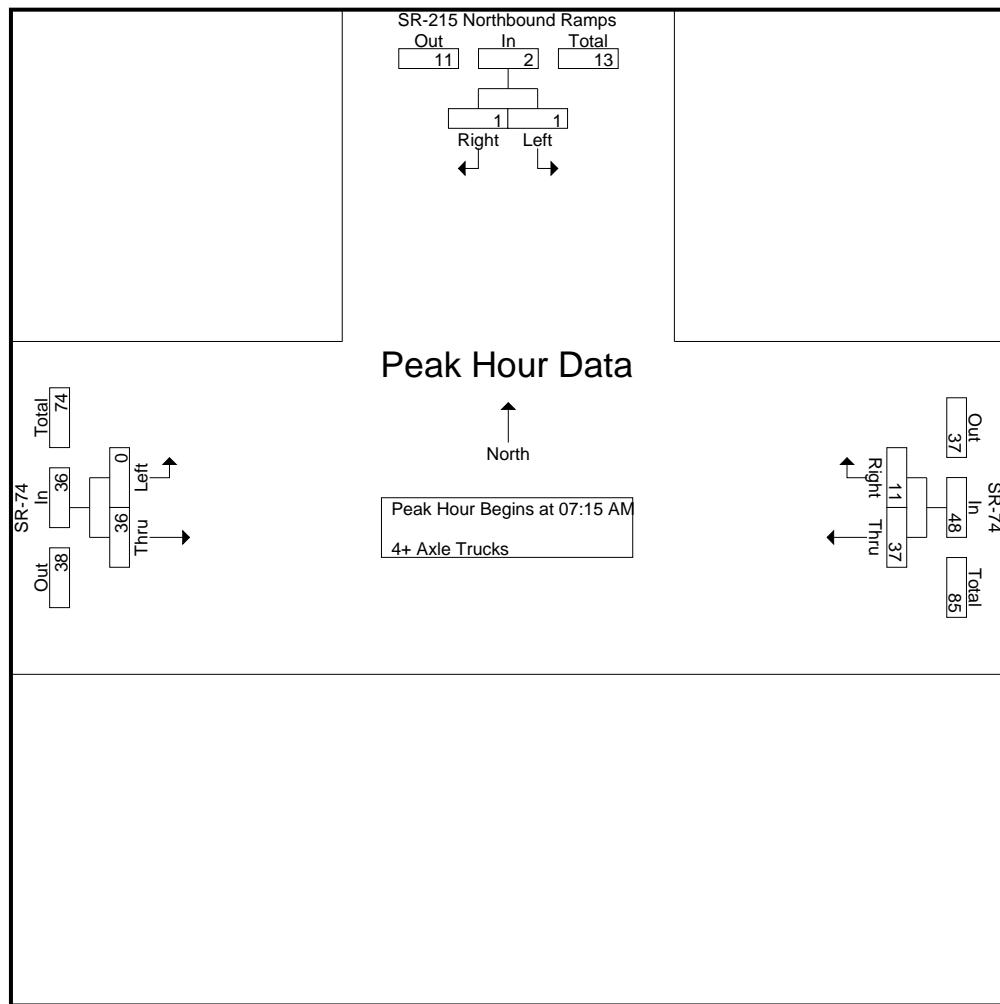
| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|------------------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 07:00 AM | 1 | 0 | 0 | 1 | 2 | 3 | 0 | 5 | 0 | 7 | 0 | 7 | 0 | 13 | 13 |
| 07:15 AM | 1 | 0 | 0 | 1 | 7 | 5 | 0 | 12 | 0 | 3 | 0 | 3 | 0 | 16 | 16 |
| 07:30 AM | 0 | 1 | 0 | 1 | 9 | 3 | 0 | 12 | 0 | 11 | 0 | 11 | 0 | 24 | 24 |
| 07:45 AM | 0 | 0 | 0 | 0 | 8 | 2 | 0 | 10 | 0 | 11 | 0 | 11 | 0 | 21 | 21 |
| Total | 2 | 1 | 0 | 3 | 26 | 13 | 0 | 39 | 0 | 32 | 0 | 32 | 0 | 74 | 74 |
| 08:00 AM | 0 | 0 | 0 | 0 | 13 | 1 | 0 | 14 | 0 | 11 | 0 | 11 | 0 | 25 | 25 |
| 08:15 AM | 1 | 0 | 0 | 1 | 11 | 2 | 0 | 13 | 0 | 14 | 0 | 14 | 0 | 28 | 28 |
| 08:30 AM | 1 | 0 | 0 | 1 | 10 | 2 | 0 | 12 | 1 | 22 | 0 | 23 | 0 | 36 | 36 |
| 08:45 AM | 1 | 0 | 0 | 1 | 11 | 5 | 0 | 16 | 0 | 11 | 0 | 11 | 0 | 28 | 28 |
| Total | 3 | 0 | 0 | 3 | 45 | 10 | 0 | 55 | 1 | 58 | 0 | 59 | 0 | 117 | 117 |
| Grand Total | 5 | 1 | 0 | 6 | 71 | 23 | 0 | 94 | 1 | 90 | 0 | 91 | 0 | 191 | 191 |
| Apprch % | 83.3 | 16.7 | | | 75.5 | 24.5 | | | 1.1 | 98.9 | | | | | |
| Total % | 2.6 | 0.5 | | | 3.1 | 37.2 | 12 | | 49.2 | 0.5 | 47.1 | | 47.6 | 0 | 100 |

| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Left | Thru | App. Total | Int. Total | | |
|--|------------------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|------|------|------------|------|------|------------|------------|--|--|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Left | Thru | App. Total | | | | | | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 1 | 0 | 1 | 7 | 5 | 12 | 0 | 3 | 3 | 16 | | | | | | | | |
| 07:30 AM | 0 | 1 | 1 | 9 | 3 | 12 | 0 | 11 | 11 | 24 | | | | | | | | |
| 07:45 AM | 0 | 0 | 0 | 8 | 2 | 10 | 0 | 11 | 11 | 21 | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 13 | 1 | 14 | 0 | 11 | 11 | 25 | | | | | | | | |
| Total Volume | 1 | 1 | 2 | 37 | 11 | 48 | 0 | 36 | 36 | 86 | | | | | | | | |
| % App. Total | 50 | 50 | | 77.1 | 22.9 | | 0 | 100 | | | | | | | | | | |
| PHF | .250 | .250 | .500 | .712 | .550 | .857 | .000 | .818 | .818 | .860 | | | | | | | | |

Counts Unlimited, Inc.
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 (951)268-6268

City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 1 | 0 | 1 | 7 | 5 | 12 | 0 | 3 | 3 |
| +15 mins. | 0 | 1 | 1 | 9 | 3 | 12 | 0 | 11 | 11 |
| +30 mins. | 0 | 0 | 0 | 8 | 2 | 10 | 0 | 11 | 11 |
| +45 mins. | 0 | 0 | 0 | 13 | 1 | 14 | 0 | 11 | 11 |
| Total Volume | 1 | 1 | 2 | 37 | 11 | 48 | 0 | 36 | 36 |
| % App. Total | 50 | 50 | | 77.1 | 22.9 | | 0 | 100 | |
| PHF | .250 | .250 | .500 | .712 | .550 | .857 | .000 | .818 | .818 |

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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

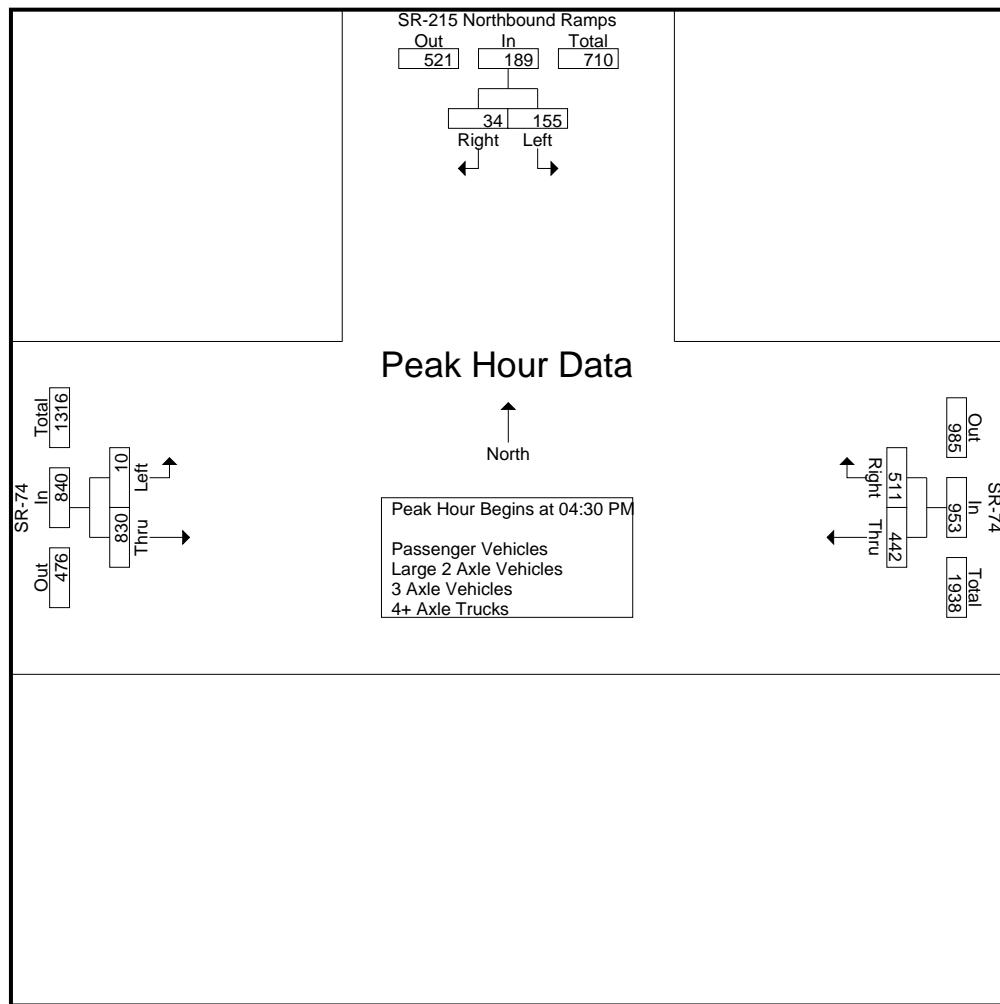
| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------------------|---------------------------------------|-------|------|------------|--------------------|-------|------|------------|--------------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 04:00 PM | 48 | 9 | 4 | 57 | 110 | 142 | 0 | 252 | 1 | 177 | 0 | 178 | 4 | 487 | 491 |
| 04:15 PM | 39 | 6 | 4 | 45 | 88 | 111 | 0 | 199 | 3 | 213 | 0 | 216 | 4 | 460 | 464 |
| 04:30 PM | 40 | 10 | 2 | 50 | 151 | 146 | 0 | 297 | 3 | 195 | 0 | 198 | 2 | 545 | 547 |
| 04:45 PM | 44 | 5 | 2 | 49 | 83 | 120 | 0 | 203 | 1 | 200 | 0 | 201 | 2 | 453 | 455 |
| Total | 171 | 30 | 12 | 201 | 432 | 519 | 0 | 951 | 8 | 785 | 0 | 793 | 12 | 1945 | 1957 |
| 05:00 PM | 34 | 7 | 5 | 41 | 111 | 130 | 0 | 241 | 1 | 203 | 0 | 204 | 5 | 486 | 491 |
| 05:15 PM | 37 | 12 | 3 | 49 | 97 | 115 | 0 | 212 | 5 | 232 | 0 | 237 | 3 | 498 | 501 |
| 05:30 PM | 49 | 10 | 4 | 59 | 103 | 123 | 0 | 226 | 2 | 203 | 0 | 205 | 4 | 490 | 494 |
| 05:45 PM | 52 | 13 | 4 | 65 | 75 | 103 | 0 | 178 | 4 | 195 | 0 | 199 | 4 | 442 | 446 |
| Total | 172 | 42 | 16 | 214 | 386 | 471 | 0 | 857 | 12 | 833 | 0 | 845 | 16 | 1916 | 1932 |
| Grand Total | 343 | 72 | 28 | 415 | 818 | 990 | 0 | 1808 | 20 | 1618 | 0 | 1638 | 28 | 3861 | 3889 |
| Apprch % | 82.7 | 17.3 | | | 45.2 | 54.8 | | | 1.2 | 98.8 | | | | | |
| Total % | 8.9 | 1.9 | | 10.7 | 21.2 | 25.6 | | 46.8 | 0.5 | 41.9 | | 42.4 | 0.7 | 99.3 | |
| Passenger Vehicles | 300 | 66 | | 393 | 782 | 950 | | 1732 | 18 | 1554 | | 1572 | 0 | 0 | 3697 |
| % Passenger Vehicles | 87.5 | 91.7 | 96.4 | 88.7 | 95.6 | 96 | 0 | 95.8 | 90 | 96 | 0 | 96 | 0 | 0 | 95.1 |
| Large 2 Axle Vehicles | 40 | 4 | | 45 | 19 | 28 | | 47 | 0 | 48 | | 48 | 0 | 0 | 140 |
| % Large 2 Axle Vehicles | 11.7 | 5.6 | 3.6 | 10.2 | 2.3 | 2.8 | 0 | 2.6 | 0 | 3 | 0 | 2.9 | 0 | 0 | 3.6 |
| 3 Axle Vehicles | 0 | 2 | | 2 | 16 | 7 | | 23 | 1 | 9 | | 10 | 0 | 0 | 35 |
| % 3 Axle Vehicles | 0 | 2.8 | 0 | 0.5 | 2 | 0.7 | 0 | 1.3 | 5 | 0.6 | 0 | 0.6 | 0 | 0 | 0.9 |
| 4+ Axle Trucks | 3 | 0 | | 3 | 1 | 5 | | 6 | 1 | 7 | | 8 | 0 | 0 | 17 |
| % 4+ Axle Trucks | 0.9 | 0 | 0 | 0.7 | 0.1 | 0.5 | 0 | 0.3 | 5 | 0.4 | 0 | 0.5 | 0 | 0 | 0.4 |

| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|---|---------------------------------------|-------|------------|------|--------------------|------------|------|------|--------------------|------|------|------------|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Left | Thru | App. Total | |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | |
| 04:30 PM | 40 | 10 | 50 | 151 | 146 | 297 | 3 | 195 | 198 | | | | 545 |
| 04:45 PM | 44 | 5 | 49 | 83 | 120 | 203 | 1 | 200 | 201 | | | | 453 |
| 05:00 PM | 34 | 7 | 41 | 111 | 130 | 241 | 1 | 203 | 204 | | | | 486 |
| 05:15 PM | 37 | 12 | 49 | 97 | 115 | 212 | 5 | 232 | 237 | | | | 498 |
| Total Volume | 155 | 34 | 189 | 442 | 511 | 953 | 10 | 830 | 840 | | | | 1982 |
| % App. Total | 82 | 18 | | 46.4 | 53.6 | | 1.2 | 98.8 | | | | | |
| PHF | .881 | .708 | .945 | .732 | .875 | .802 | .500 | .894 | .886 | | | | .909 |

Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | 04:30 PM | | | 04:45 PM | | |
|--------------|-----------|-----------|-----------|------------|------------|------------|----------|------------|------------|
| +0 mins. | 34 | 7 | 41 | 151 | 146 | 297 | 1 | 200 | 201 |
| +15 mins. | 37 | 12 | 49 | 83 | 120 | 203 | 1 | 203 | 204 |
| +30 mins. | 49 | 10 | 59 | 111 | 130 | 241 | 5 | 232 | 237 |
| +45 mins. | 52 | 13 | 65 | 97 | 115 | 212 | 2 | 203 | 205 |
| Total Volume | 172 | 42 | 214 | 442 | 511 | 953 | 9 | 838 | 847 |
| % App. Total | 80.4 | 19.6 | | 46.4 | 53.6 | | 1.1 | 98.9 | |
| PHF | .827 | .808 | .823 | .732 | .875 | .802 | .450 | .903 | .893 |

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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

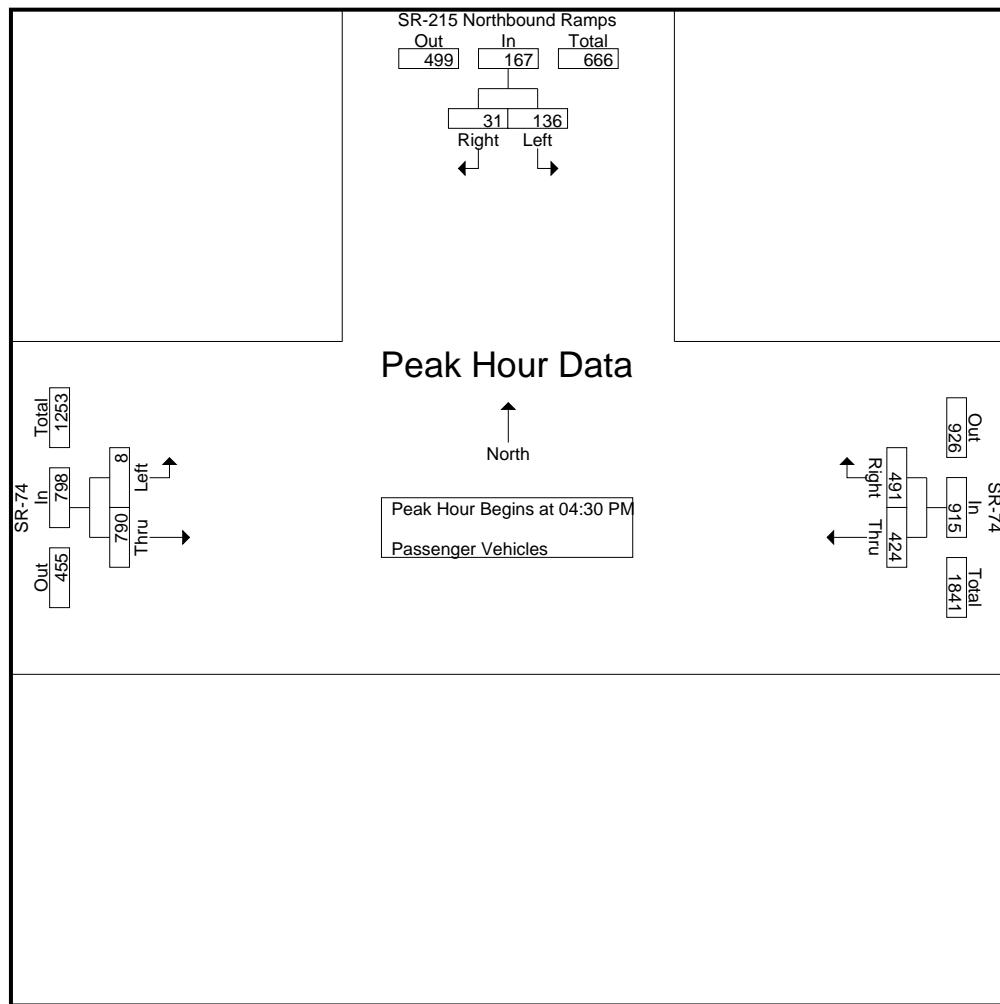
| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|------------------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 04:00 PM | 45 | 7 | 3 | 52 | 102 | 131 | 0 | 233 | 1 | 172 | 0 | 173 | 3 | 458 | 461 |
| 04:15 PM | 36 | 6 | 4 | 42 | 84 | 108 | 0 | 192 | 3 | 205 | 0 | 208 | 4 | 442 | 446 |
| 04:30 PM | 34 | 8 | 2 | 42 | 150 | 142 | 0 | 292 | 1 | 188 | 0 | 189 | 2 | 523 | 525 |
| 04:45 PM | 40 | 5 | 2 | 45 | 76 | 114 | 0 | 190 | 1 | 190 | 0 | 191 | 2 | 426 | 428 |
| Total | 155 | 26 | 11 | 181 | 412 | 495 | 0 | 907 | 6 | 755 | 0 | 761 | 11 | 1849 | 1860 |
| 05:00 PM | 30 | 6 | 5 | 36 | 104 | 126 | 0 | 230 | 1 | 195 | 0 | 196 | 5 | 462 | 467 |
| 05:15 PM | 32 | 12 | 3 | 44 | 94 | 109 | 0 | 203 | 5 | 217 | 0 | 222 | 3 | 469 | 472 |
| 05:30 PM | 40 | 9 | 4 | 49 | 99 | 122 | 0 | 221 | 2 | 200 | 0 | 202 | 4 | 472 | 476 |
| 05:45 PM | 43 | 13 | 4 | 56 | 73 | 98 | 0 | 171 | 4 | 187 | 0 | 191 | 4 | 418 | 422 |
| Total | 145 | 40 | 16 | 185 | 370 | 455 | 0 | 825 | 12 | 799 | 0 | 811 | 16 | 1821 | 1837 |
| Grand Total | 300 | 66 | 27 | 366 | 782 | 950 | 0 | 1732 | 18 | 1554 | 0 | 1572 | 27 | 3670 | 3697 |
| Apprch % | 82 | 18 | | | 45.2 | 54.8 | | | 1.1 | 98.9 | | | | | |
| Total % | 8.2 | 1.8 | | 10 | 21.3 | 25.9 | | 47.2 | 0.5 | 42.3 | | | 42.8 | 0.7 | 99.3 |

| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total | |
|--|------------------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|--|--|--|------------|--|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | |
| 04:30 PM | 34 | 8 | 42 | 150 | 142 | 292 | 1 | 188 | 189 | | | | 523 | |
| 04:45 PM | 40 | 5 | 45 | 76 | 114 | 190 | 1 | 190 | 191 | | | | 426 | |
| 05:00 PM | 30 | 6 | 36 | 104 | 126 | 230 | 1 | 195 | 196 | | | | 462 | |
| 05:15 PM | 32 | 12 | 44 | 94 | 109 | 203 | 5 | 217 | 222 | | | | 469 | |
| Total Volume | 136 | 31 | 167 | 424 | 491 | 915 | 8 | 790 | 798 | | | | 1880 | |
| % App. Total | 81.4 | 18.6 | | 46.3 | 53.7 | | 1 | 99 | | | | | | |
| PHF | .850 | .646 | .928 | .707 | .864 | .783 | .400 | .910 | .899 | | | | .899 | |

Counts Unlimited, Inc.
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 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|-----------|-----------|-----------|------------|------------|------------|----------|------------|------------|
| +0 mins. | 34 | 8 | 42 | 150 | 142 | 292 | 1 | 188 | 189 |
| +15 mins. | 40 | 5 | 45 | 76 | 114 | 190 | 1 | 190 | 191 |
| +30 mins. | 30 | 6 | 36 | 104 | 126 | 230 | 1 | 195 | 196 |
| +45 mins. | 32 | 12 | 44 | 94 | 109 | 203 | 5 | 217 | 222 |
| Total Volume | 136 | 31 | 167 | 424 | 491 | 915 | 8 | 790 | 798 |
| % App. Total | 81.4 | 18.6 | | 46.3 | 53.7 | | 1 | 99 | |
| PHF | .850 | .646 | .928 | .707 | .864 | .783 | .400 | .910 | .899 |

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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

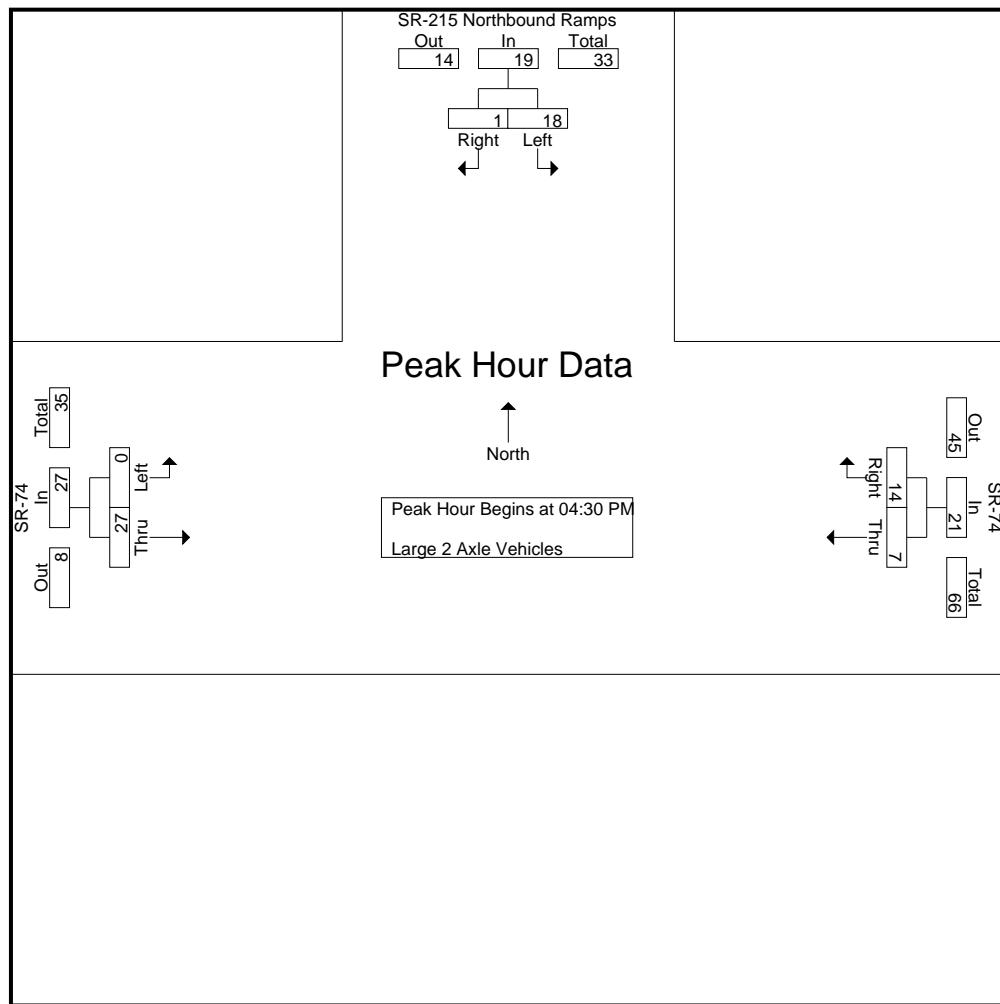
| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|------------------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 04:00 PM | 3 | 2 | 1 | 5 | 7 | 7 | 0 | 14 | 0 | 5 | 0 | 5 | 1 | 24 | 25 |
| 04:15 PM | 2 | 0 | 0 | 2 | 1 | 2 | 0 | 3 | 0 | 7 | 0 | 7 | 0 | 12 | 12 |
| 04:30 PM | 6 | 1 | 0 | 7 | 1 | 4 | 0 | 5 | 0 | 4 | 0 | 4 | 0 | 16 | 16 |
| 04:45 PM | 4 | 0 | 0 | 4 | 3 | 4 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 18 | 18 |
| Total | 15 | 3 | 1 | 18 | 12 | 17 | 0 | 29 | 0 | 23 | 0 | 23 | 1 | 70 | 71 |
| 05:00 PM | 4 | 0 | 0 | 4 | 3 | 2 | 0 | 5 | 0 | 4 | 0 | 4 | 0 | 13 | 13 |
| 05:15 PM | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 12 | 0 | 12 | 0 | 20 | 20 |
| 05:30 PM | 8 | 1 | 0 | 9 | 2 | 1 | 0 | 3 | 0 | 2 | 0 | 2 | 0 | 14 | 14 |
| 05:45 PM | 9 | 0 | 0 | 9 | 2 | 4 | 0 | 6 | 0 | 7 | 0 | 7 | 0 | 22 | 22 |
| Total | 25 | 1 | 0 | 26 | 7 | 11 | 0 | 18 | 0 | 25 | 0 | 25 | 0 | 69 | 69 |
| Grand Total | 40 | 4 | 1 | 44 | 19 | 28 | 0 | 47 | 0 | 48 | 0 | 48 | 1 | 139 | 140 |
| Apprch % | 90.9 | 9.1 | | | 40.4 | 59.6 | | | 0 | 100 | | | | | |
| Total % | 28.8 | 2.9 | | 31.7 | 13.7 | 20.1 | | 33.8 | 0 | 34.5 | | 34.5 | 0.7 | 99.3 | |

| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total | |
|--|------------------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|--|--|--|------------|--|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | |
| 04:30 PM | 6 | 1 | 7 | 1 | 4 | 5 | 0 | 4 | 4 | | | | 16 | |
| 04:45 PM | 4 | 0 | 4 | 3 | 4 | 7 | 0 | 7 | 7 | | | | 18 | |
| 05:00 PM | 4 | 0 | 4 | 3 | 2 | 5 | 0 | 4 | 4 | | | | 13 | |
| 05:15 PM | 4 | 0 | 4 | 0 | 4 | 4 | 0 | 12 | 12 | | | | 20 | |
| Total Volume | 18 | 1 | 19 | 7 | 14 | 21 | 0 | 27 | 27 | | | | 67 | |
| % App. Total | 94.7 | 5.3 | | 33.3 | 66.7 | | 0 | 100 | | | | | | |
| PHF | .750 | .250 | .679 | .583 | .875 | .750 | .000 | .563 | .563 | | | | .838 | |

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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 6 | 1 | 7 | 1 | 4 | 5 | 0 | 4 | 4 |
| +15 mins. | 4 | 0 | 4 | 3 | 4 | 7 | 0 | 7 | 7 |
| +30 mins. | 4 | 0 | 4 | 3 | 2 | 5 | 0 | 4 | 4 |
| +45 mins. | 4 | 0 | 4 | 0 | 4 | 4 | 0 | 12 | 12 |
| Total Volume | 18 | 1 | 19 | 7 | 14 | 21 | 0 | 27 | 27 |
| % App. Total | 94.7 | 5.3 | | 33.3 | 66.7 | | 0 | 100 | |
| PHF | .750 | .250 | .679 | .583 | .875 | .750 | .000 | .563 | .563 |

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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

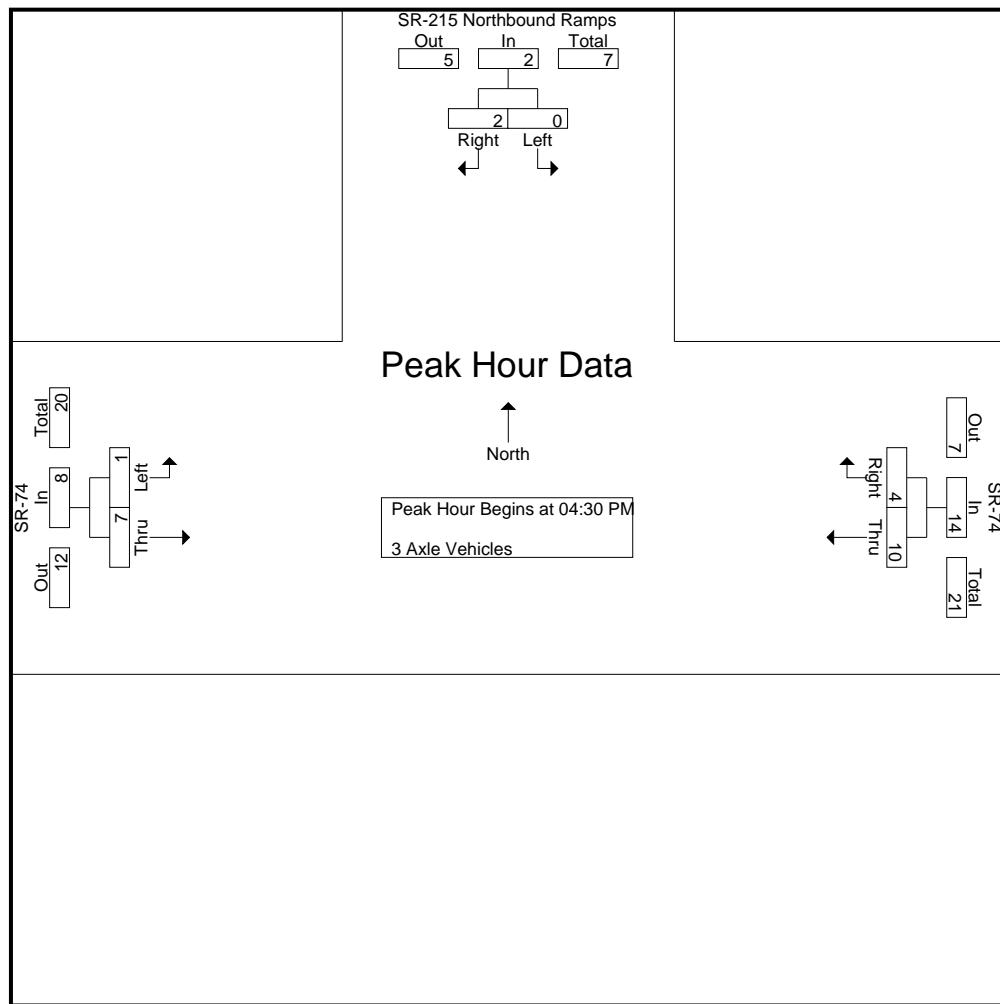
| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|------------------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| 04:15 PM | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 1 | 0 | 1 | 0 | 5 | 5 |
| 04:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 3 | 3 |
| 04:45 PM | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 0 | 1 | 0 | 1 | 0 | 6 | 6 |
| Total | 0 | 1 | 0 | 1 | 8 | 4 | 0 | 12 | 1 | 3 | 0 | 4 | 0 | 17 | 17 |
| 05:00 PM | 0 | 1 | 0 | 1 | 3 | 1 | 0 | 4 | 0 | 3 | 0 | 3 | 0 | 8 | 8 |
| 05:15 PM | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 | 0 | 2 | 0 | 2 | 0 | 7 | 7 |
| 05:30 PM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 3 | 3 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 1 | 0 | 1 | 8 | 3 | 0 | 11 | 0 | 6 | 0 | 6 | 0 | 18 | 18 |
| Grand Total | 0 | 2 | 0 | 2 | 16 | 7 | 0 | 23 | 1 | 9 | 0 | 10 | 0 | 35 | 35 |
| Apprch % | 0 | 100 | | | 69.6 | 30.4 | | | 10 | 90 | | | | | |
| Total % | 0 | 5.7 | | 5.7 | 45.7 | 20 | | 65.7 | 2.9 | 25.7 | | 28.6 | 0 | 100 | |

| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|--|------------------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|--|--|--|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | |
| 04:30 PM | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | | | | 3 |
| 04:45 PM | 0 | 0 | 0 | 4 | 1 | 5 | 0 | 1 | 1 | | | | 6 |
| 05:00 PM | 0 | 1 | 1 | 3 | 1 | 4 | 0 | 3 | 3 | | | | 8 |
| 05:15 PM | 0 | 0 | 0 | 3 | 2 | 5 | 0 | 2 | 2 | | | | 7 |
| Total Volume | 0 | 2 | 2 | 10 | 4 | 14 | 1 | 7 | 8 | | | | 24 |
| % App. Total | 0 | 100 | | 71.4 | 28.6 | | 12.5 | 87.5 | | | | | |
| PHF | .000 | .500 | .500 | .625 | .500 | .700 | .250 | .583 | .667 | | | | .750 |

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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 |
| +15 mins. | 0 | 0 | 0 | 4 | 1 | 5 | 0 | 1 | 1 |
| +30 mins. | 0 | 1 | 1 | 3 | 1 | 4 | 0 | 3 | 3 |
| +45 mins. | 0 | 0 | 0 | 3 | 2 | 5 | 0 | 2 | 2 |
| Total Volume | 0 | 2 | 2 | 10 | 4 | 14 | 1 | 7 | 8 |
| % App. Total | 0 | 100 | | 71.4 | 28.6 | | 12.5 | 87.5 | |
| PHF | .000 | .500 | .500 | .625 | .500 | .700 | .250 | .583 | .667 |

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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

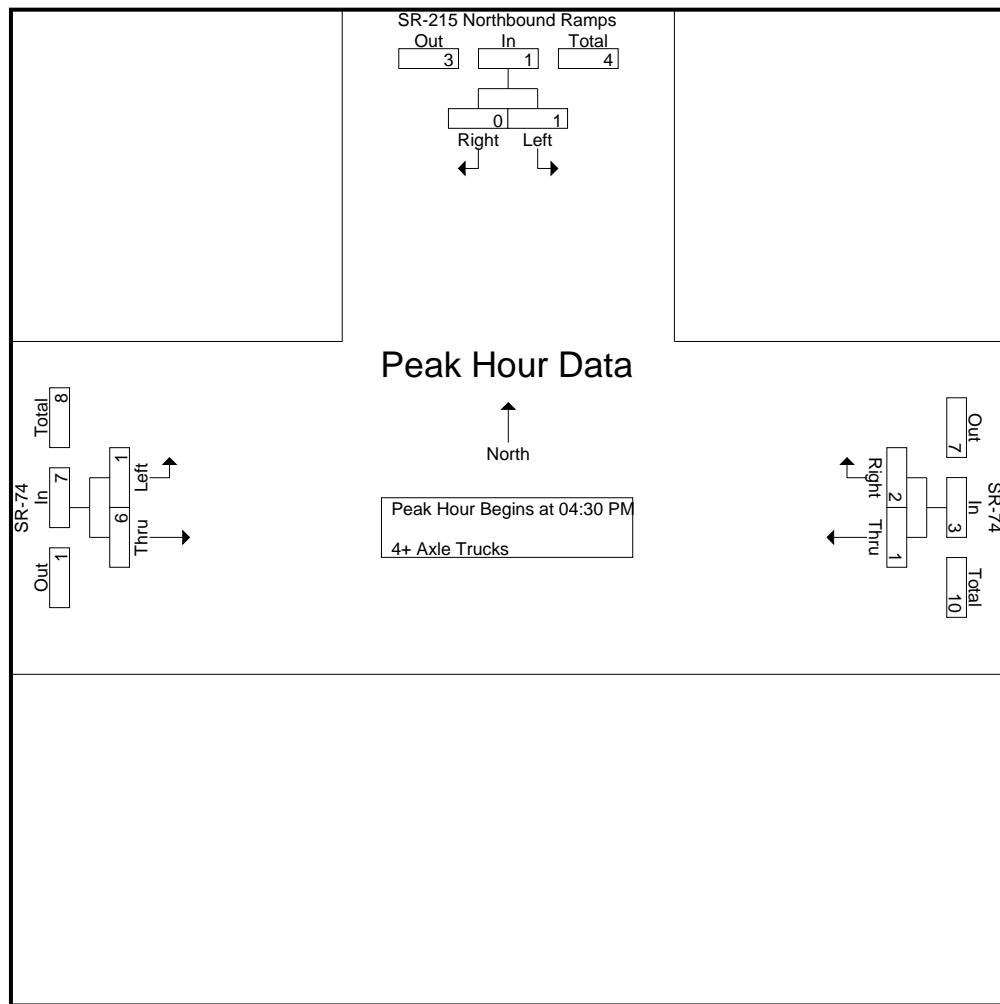
| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|------------------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 04:15 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 3 | 3 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 3 | 3 |
| Total | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 3 | 1 | 4 | 0 | 5 | 0 | 9 | 9 |
| 05:00 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 3 | 3 |
| 05:15 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 2 |
| 05:30 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 2 |
| Total | 2 | 0 | 0 | 2 | 1 | 2 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 8 | 8 |
| Grand Total | 3 | 0 | 0 | 3 | 1 | 5 | 0 | 6 | 1 | 7 | 0 | 8 | 0 | 17 | 17 |
| Apprch % | 100 | 0 | | | 16.7 | 83.3 | | | 12.5 | 87.5 | | | | | |
| Total % | 17.6 | 0 | | 17.6 | 5.9 | 29.4 | | 35.3 | 5.9 | 41.2 | | 47.1 | 0 | 100 | |

| Start Time | SR-215 Northbound Ramps Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total | |
|--|------------------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|---|---|------|------------|--|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 3 | | |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 3 | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 1 | 3 | | |
| 05:15 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | | |
| Total Volume | 1 | 0 | 1 | 1 | 2 | 3 | 1 | 6 | 7 | | | 11 | | |
| % App. Total | 100 | 0 | | 33.3 | 66.7 | | 14.3 | 85.7 | | | | | | |
| PHF | .250 | .000 | .250 | .250 | .500 | .375 | .250 | .750 | .583 | | | .917 | | |

Counts Unlimited, Inc.
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City of Menifee
 N/S: SR-215 Northbound Ramps
 E/W: SR-74
 Weather: Clear

File Name : 02_MEN_215N_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 |
| +15 mins. | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 |
| +30 mins. | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 1 |
| +45 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total Volume | 1 | 0 | 1 | 1 | 2 | 3 | 1 | 6 | 7 |
| % App. Total | 100 | 0 | | 33.3 | 66.7 | | 14.3 | 85.7 | |
| PHF | .250 | .000 | .250 | .250 | .500 | .375 | .250 | .750 | .583 |

Location: Menifee
N/S: SR-215 NB Ramps
E/W: SR-74



Date: 10/5/2021
Day: Tuesday

PEDESTRIANS

| | North Leg SR-215 SB Ramps Pedestrians | East Leg SR-74 Pedestrians | South Leg Dead End Pedestrians | West Leg SR-74 Pedestrians | |
|----------------|---|----------------------------------|--------------------------------------|----------------------------------|---|
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

| | North Leg SR-215 SB Ramps Pedestrians | East Leg SR-74 Pedestrians | South Leg Dead End Pedestrians | West Leg SR-74 Pedestrians | |
|----------------|---|----------------------------------|--------------------------------------|----------------------------------|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

Location: Menifee
 N/S: SR-215 NB Ramps
 E/W: SR-74



Date: 10/5/2021
 Day: Tuesday

BICYCLES

| Southbound SR-215 SB Ramps | | | Westbound SR-74 | | | Northbound Dead End | | | Eastbound SR-74 | | | |
|-------------------------------|------|-------|--------------------|------|-------|------------------------|------|-------|--------------------|------|-------|---|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| Southbound SR-215 SB Ramps | | | Westbound SR-74 | | | Northbound Dead End | | | Eastbound SR-74 | | | |
|-------------------------------|------|-------|--------------------|------|-------|------------------------|------|-------|--------------------|------|-------|---|
| Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Counts Unlimited, Inc.
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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

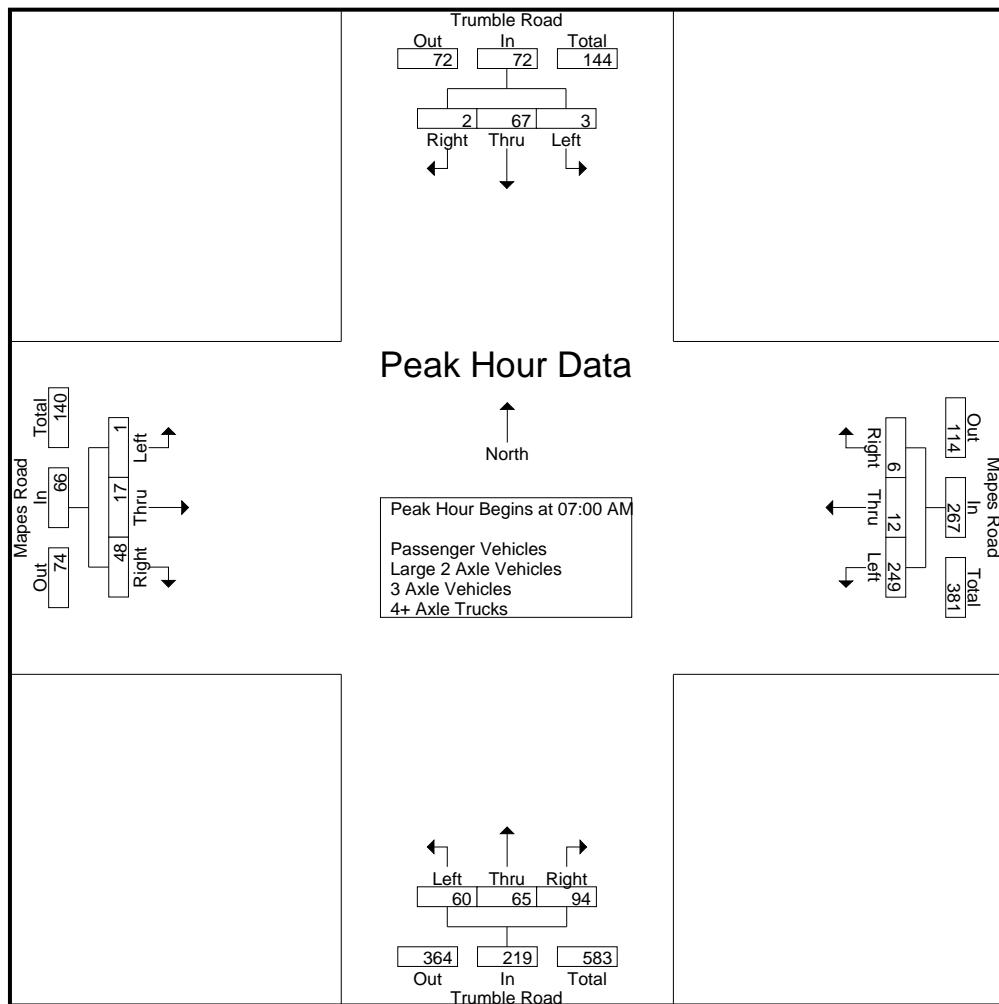
| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 07:00 AM | 1 | 8 | 2 | 11 | 55 | 3 | 2 | 60 | 12 | 26 | 17 | 55 | 1 | 4 | 15 | 20 | 146 |
| 07:15 AM | 0 | 16 | 0 | 16 | 56 | 4 | 0 | 60 | 25 | 8 | 20 | 53 | 0 | 4 | 13 | 17 | 146 |
| 07:30 AM | 0 | 24 | 0 | 24 | 79 | 4 | 1 | 84 | 14 | 15 | 27 | 56 | 0 | 1 | 11 | 12 | 176 |
| 07:45 AM | 2 | 19 | 0 | 21 | 59 | 1 | 3 | 63 | 9 | 16 | 30 | 55 | 0 | 8 | 9 | 17 | 156 |
| Total | 3 | 67 | 2 | 72 | 249 | 12 | 6 | 267 | 60 | 65 | 94 | 219 | 1 | 17 | 48 | 66 | 624 |
| 08:00 AM | 1 | 20 | 0 | 21 | 36 | 1 | 2 | 39 | 3 | 17 | 25 | 45 | 0 | 0 | 5 | 5 | 110 |
| 08:15 AM | 1 | 19 | 0 | 20 | 55 | 1 | 2 | 58 | 3 | 11 | 42 | 56 | 0 | 5 | 7 | 12 | 146 |
| 08:30 AM | 0 | 11 | 0 | 11 | 39 | 1 | 2 | 42 | 2 | 16 | 33 | 51 | 1 | 1 | 9 | 11 | 115 |
| 08:45 AM | 0 | 15 | 0 | 15 | 33 | 0 | 3 | 36 | 3 | 9 | 29 | 41 | 0 | 2 | 5 | 7 | 99 |
| Total | 2 | 65 | 0 | 67 | 163 | 3 | 9 | 175 | 11 | 53 | 129 | 193 | 1 | 8 | 26 | 35 | 470 |
| Grand Total | 5 | 132 | 2 | 139 | 412 | 15 | 15 | 442 | 71 | 118 | 223 | 412 | 2 | 25 | 74 | 101 | 1094 |
| Apprch % | 3.6 | 95 | 1.4 | | 93.2 | 3.4 | 3.4 | | 17.2 | 28.6 | 54.1 | | 2 | 24.8 | 73.3 | | |
| Total % | 0.5 | 12.1 | 0.2 | 12.7 | 37.7 | 1.4 | 1.4 | 40.4 | 6.5 | 10.8 | 20.4 | 37.7 | 0.2 | 2.3 | 6.8 | 9.2 | |
| Passenger Vehicles | 5 | 69 | 2 | 76 | 403 | 15 | 15 | 433 | 66 | 50 | 210 | 326 | 2 | 15 | 56 | 73 | 908 |
| % Passenger Vehicles | 100 | 52.3 | 100 | 54.7 | 97.8 | 100 | 100 | 98 | 93 | 42.4 | 94.2 | 79.1 | 100 | 60 | 75.7 | 72.3 | 83 |
| Large 2 Axle Vehicles | 0 | 3 | 0 | 3 | 6 | 0 | 0 | 6 | 5 | 1 | 9 | 15 | 0 | 10 | 17 | 27 | 51 |
| % Large 2 Axle Vehicles | 0 | 2.3 | 0 | 2.2 | 1.5 | 0 | 0 | 1.4 | 7 | 0.8 | 4 | 3.6 | 0 | 40 | 23 | 26.7 | 4.7 |
| 3 Axle Vehicles | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0.2 | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 1.4 | 1 | 0.2 |
| 4+ Axle Trucks | 0 | 60 | 0 | 60 | 2 | 0 | 0 | 2 | 0 | 67 | 4 | 71 | 0 | 0 | 0 | 0 | 133 |
| % 4+ Axle Trucks | 0 | 45.5 | 0 | 43.2 | 0.5 | 0 | 0 | 0.5 | 0 | 56.8 | 1.8 | 17.2 | 0 | 0 | 0 | 0 | 12.2 |

| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:00 AM | | | | | | | | | | | | | | | | | |
| 07:00 AM | 1 | 8 | 2 | 11 | 55 | 3 | 2 | 60 | 12 | 26 | 17 | 55 | 1 | 4 | 15 | 20 | 146 |
| 07:15 AM | 0 | 16 | 0 | 16 | 56 | 4 | 0 | 60 | 25 | 8 | 20 | 53 | 0 | 4 | 13 | 17 | 146 |
| 07:30 AM | 0 | 24 | 0 | 24 | 79 | 4 | 1 | 84 | 14 | 15 | 27 | 56 | 0 | 1 | 11 | 12 | 176 |
| 07:45 AM | 2 | 19 | 0 | 21 | 59 | 1 | 3 | 63 | 9 | 16 | 30 | 55 | 0 | 8 | 9 | 17 | 156 |
| Total Volume | 3 | 67 | 2 | 72 | 249 | 12 | 6 | 267 | 60 | 65 | 94 | 219 | 1 | 17 | 48 | 66 | 624 |
| % App. Total | 4.2 | 93.1 | 2.8 | | 93.3 | 4.5 | 2.2 | | 27.4 | 29.7 | 42.9 | | 1.5 | 25.8 | 72.7 | | |
| PHF | .375 | .698 | .250 | .750 | .788 | .750 | .500 | .795 | .600 | .625 | .783 | .978 | .250 | .531 | .800 | .825 | .886 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | 07:00 AM | | | | 07:00 AM | | | | 07:00 AM | | | | |
|--------------|----------|-----------|------|-----------|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|------|----------|-----------|-----------|
| +0 mins. | 0 | 24 | 0 | 24 | 55 | 3 | 2 | 60 | 12 | 26 | 17 | 55 | 1 | 4 | 15 | 20 |
| +15 mins. | 2 | 19 | 0 | 21 | 56 | 4 | 0 | 60 | 25 | 8 | 20 | 53 | 0 | 4 | 13 | 17 |
| +30 mins. | 1 | 20 | 0 | 21 | 79 | 4 | 1 | 84 | 14 | 15 | 27 | 56 | 0 | 1 | 11 | 12 |
| +45 mins. | 1 | 19 | 0 | 20 | 59 | 1 | 3 | 63 | 9 | 16 | 30 | 55 | 0 | 8 | 9 | 17 |
| Total Volume | 4 | 82 | 0 | 86 | 249 | 12 | 6 | 267 | 60 | 65 | 94 | 219 | 1 | 17 | 48 | 66 |
| % App. Total | 4.7 | 95.3 | 0 | | 93.3 | 4.5 | 2.2 | | 27.4 | 29.7 | 42.9 | | 1.5 | 25.8 | 72.7 | |
| PHF | .500 | .854 | .000 | .896 | .788 | .750 | .500 | .795 | .600 | .625 | .783 | .978 | .250 | .531 | .800 | .825 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

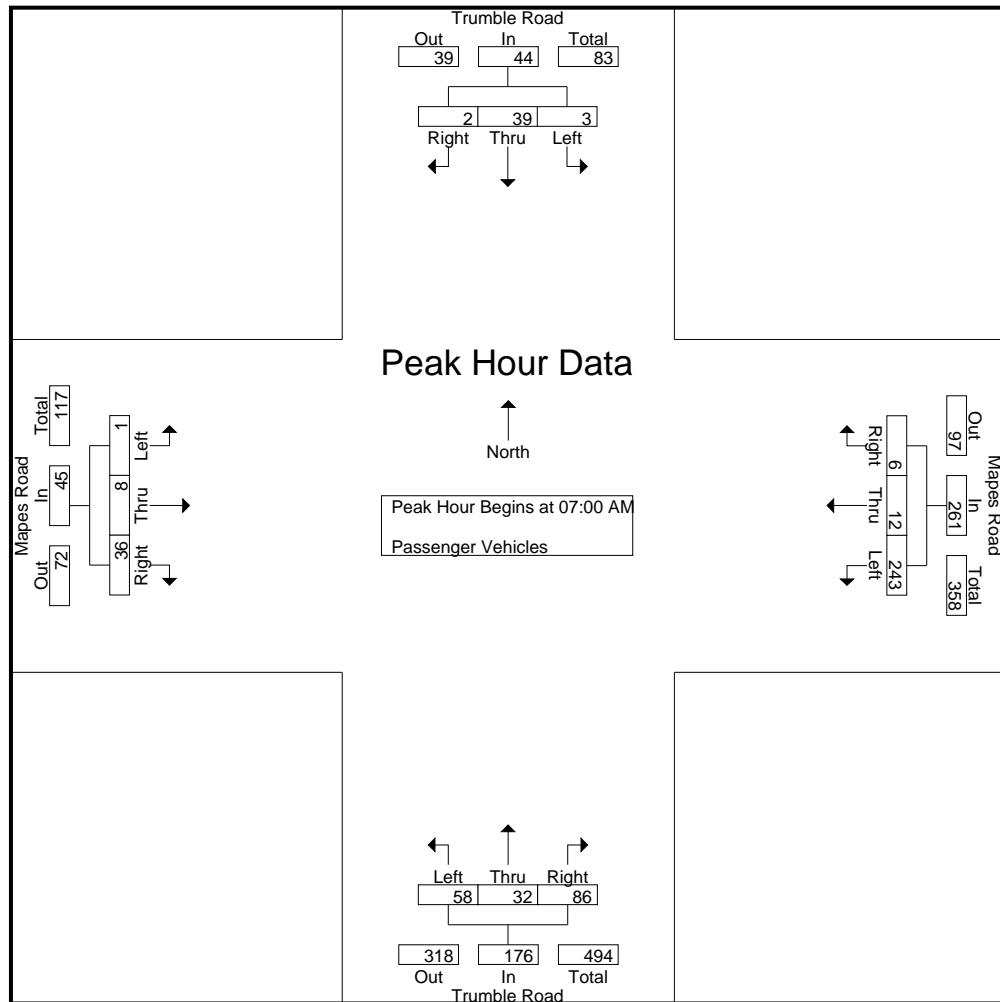
| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 07:00 AM | 1 | 6 | 2 | 9 | 54 | 3 | 2 | 59 | 12 | 12 | 12 | 36 | 1 | 3 | 13 | 17 | 121 |
| 07:15 AM | 0 | 6 | 0 | 6 | 55 | 4 | 0 | 59 | 24 | 8 | 19 | 51 | 0 | 1 | 9 | 10 | 126 |
| 07:30 AM | 0 | 17 | 0 | 17 | 78 | 4 | 1 | 83 | 14 | 6 | 25 | 45 | 0 | 1 | 7 | 8 | 153 |
| 07:45 AM | 2 | 10 | 0 | 12 | 56 | 1 | 3 | 60 | 8 | 6 | 30 | 44 | 0 | 3 | 7 | 10 | 126 |
| Total | 3 | 39 | 2 | 44 | 243 | 12 | 6 | 261 | 58 | 32 | 86 | 176 | 1 | 8 | 36 | 45 | 526 |
| 08:00 AM | 1 | 11 | 0 | 12 | 35 | 1 | 2 | 38 | 3 | 7 | 25 | 35 | 0 | 0 | 2 | 2 | 87 |
| 08:15 AM | 1 | 9 | 0 | 10 | 54 | 1 | 2 | 57 | 2 | 4 | 40 | 46 | 0 | 5 | 6 | 11 | 124 |
| 08:30 AM | 0 | 4 | 0 | 4 | 39 | 1 | 2 | 42 | 0 | 6 | 32 | 38 | 1 | 1 | 8 | 10 | 94 |
| 08:45 AM | 0 | 6 | 0 | 6 | 32 | 0 | 3 | 35 | 3 | 1 | 27 | 31 | 0 | 1 | 4 | 5 | 77 |
| Total | 2 | 30 | 0 | 32 | 160 | 3 | 9 | 172 | 8 | 18 | 124 | 150 | 1 | 7 | 20 | 28 | 382 |
| Grand Total | 5 | 69 | 2 | 76 | 403 | 15 | 15 | 433 | 66 | 50 | 210 | 326 | 2 | 15 | 56 | 73 | 908 |
| Apprch % | 6.6 | 90.8 | 2.6 | | 93.1 | 3.5 | 3.5 | | 20.2 | 15.3 | 64.4 | | 2.7 | 20.5 | 76.7 | | |
| Total % | 0.6 | 7.6 | 0.2 | 8.4 | 44.4 | 1.7 | 1.7 | 47.7 | 7.3 | 5.5 | 23.1 | 35.9 | 0.2 | 1.7 | 6.2 | 8 | |

| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:00 AM | | | | | | | | | | | | | | | | | |
| 07:00 AM | 1 | 6 | 2 | 9 | 54 | 3 | 2 | 59 | 12 | 12 | 12 | 36 | 1 | 3 | 13 | 17 | 121 |
| 07:15 AM | 0 | 6 | 0 | 6 | 55 | 4 | 0 | 59 | 24 | 8 | 19 | 51 | 0 | 1 | 9 | 10 | 126 |
| 07:30 AM | 0 | 17 | 0 | 17 | 78 | 4 | 1 | 83 | 14 | 6 | 25 | 45 | 0 | 1 | 7 | 8 | 153 |
| 07:45 AM | 2 | 10 | 0 | 12 | 56 | 1 | 3 | 60 | 8 | 6 | 30 | 44 | 0 | 3 | 7 | 10 | 126 |
| Total Volume | 3 | 39 | 2 | 44 | 243 | 12 | 6 | 261 | 58 | 32 | 86 | 176 | 1 | 8 | 36 | 45 | 526 |
| % App. Total | 6.8 | 88.6 | 4.5 | | 93.1 | 4.6 | 2.3 | | 33 | 18.2 | 48.9 | | 2.2 | 17.8 | 80 | | |
| PHF | .375 | .574 | .250 | .647 | .779 | .750 | .500 | .786 | .604 | .667 | .717 | .863 | .250 | .667 | .692 | .662 | .859 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:00 AM | | | | 07:00 AM | | | | 07:00 AM | | | | 07:00 AM | | | |
|--------------|----------|-----------|----------|-----------|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|
| +0 mins. | 1 | 6 | 2 | 9 | 54 | 3 | 2 | 59 | 12 | 12 | 12 | 36 | 1 | 3 | 13 | 17 |
| +15 mins. | 0 | 6 | 0 | 6 | 55 | 4 | 0 | 59 | 24 | 8 | 19 | 51 | 0 | 1 | 9 | 10 |
| +30 mins. | 0 | 17 | 0 | 17 | 78 | 4 | 1 | 83 | 14 | 6 | 25 | 45 | 0 | 1 | 7 | 8 |
| +45 mins. | 2 | 10 | 0 | 12 | 56 | 1 | 3 | 60 | 8 | 6 | 30 | 44 | 0 | 3 | 7 | 10 |
| Total Volume | 3 | 39 | 2 | 44 | 243 | 12 | 6 | 261 | 58 | 32 | 86 | 176 | 1 | 8 | 36 | 45 |
| % App. Total | 6.8 | 88.6 | 4.5 | | 93.1 | 4.6 | 2.3 | | 33 | 18.2 | 48.9 | | 2.2 | 17.8 | 80 | |
| PHF | .375 | .574 | .250 | .647 | .779 | .750 | .500 | .786 | .604 | .667 | .717 | .863 | .250 | .667 | .692 | .662 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

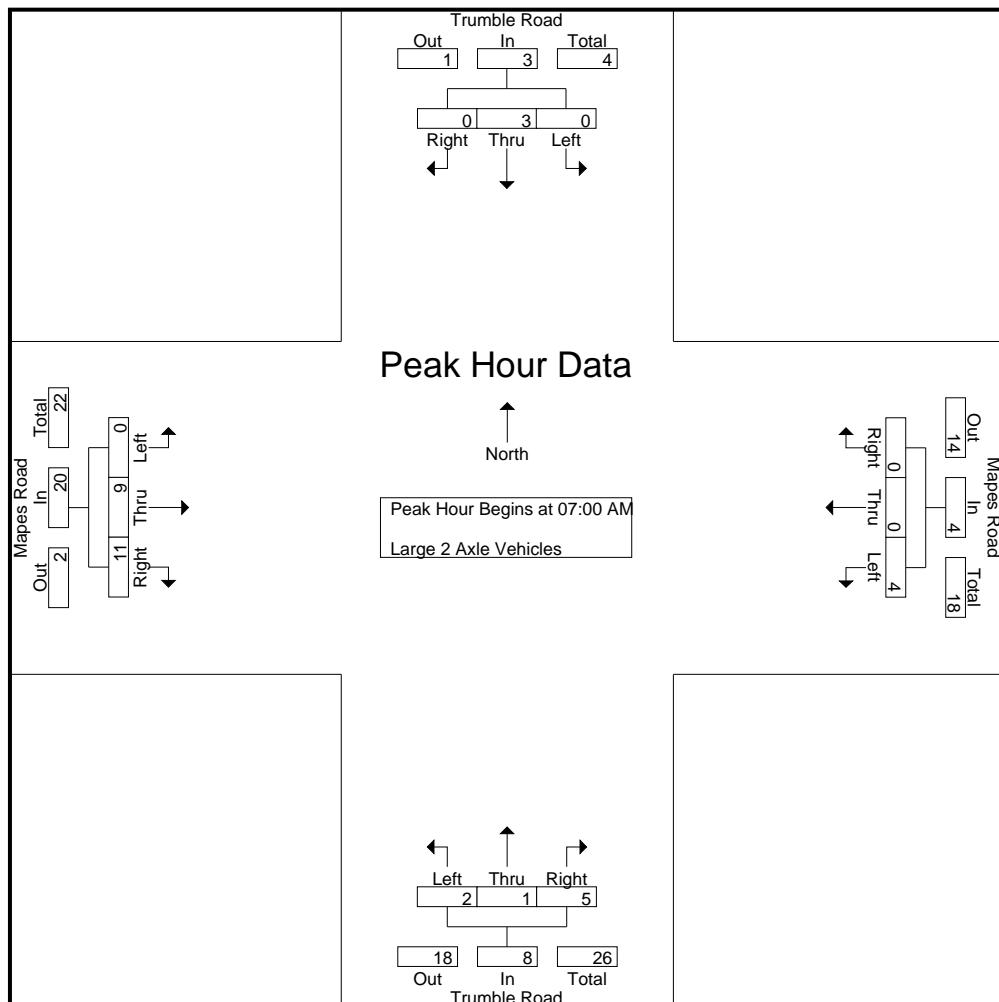
| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 07:00 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 2 | 5 |
| 07:15 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 3 | 4 | 7 | 10 |
| 07:30 AM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 4 | 4 | 8 |
| 07:45 AM | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 1 | 1 | 0 | 2 | 0 | 5 | 2 | 7 | 12 |
| Total | 0 | 3 | 0 | 3 | 4 | 0 | 0 | 4 | 2 | 1 | 5 | 8 | 0 | 9 | 11 | 20 | 35 |
| | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 4 |
| 08:15 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 3 | 0 | 0 | 1 | 1 | 5 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 3 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 2 | 4 |
| Total | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 3 | 0 | 4 | 7 | 0 | 1 | 6 | 7 | 16 |
| Grand Total | 0 | 3 | 0 | 3 | 6 | 0 | 0 | 6 | 5 | 1 | 9 | 15 | 0 | 10 | 17 | 27 | 51 |
| Apprch % | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 33.3 | 6.7 | 60 | 0 | 37 | 0 | 37 | 63 | 63 | 63 |
| Total % | 0 | 5.9 | 0 | 5.9 | 11.8 | 0 | 0 | 11.8 | 9.8 | 2 | 17.6 | 29.4 | 0 | 19.6 | 33.3 | 52.9 | 52.9 |

| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:00 AM | | | | | | | | | | | | | | | | | | |
| 07:00 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 2 | 5 | |
| 07:15 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 3 | 4 | 7 | 10 | |
| 07:30 AM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 4 | 4 | 8 | |
| 07:45 AM | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 1 | 1 | 0 | 2 | 0 | 5 | 2 | 7 | 12 | |
| Total Volume | 0 | 3 | 0 | 3 | 4 | 0 | 0 | 4 | 2 | 1 | 5 | 8 | 0 | 9 | 11 | 20 | 35 | |
| % App. Total | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 25 | 12.5 | 62.5 | 0 | 45 | 0 | 45 | 55 | 55 | 55 | |
| PHF | .000 | .750 | .000 | .750 | .500 | .000 | .000 | .500 | .500 | .250 | .625 | 1.00 | .000 | .450 | .688 | .714 | .729 | |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:00 AM | | | | 07:00 AM | | | | 07:00 AM | | | | 07:00 AM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|-------|----------|------|------|------|
| +0 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 2 |
| +15 mins. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 3 | 4 | 7 |
| +30 mins. | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 4 | 4 |
| +45 mins. | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 1 | 1 | 0 | 2 | 0 | 5 | 2 | 7 |
| Total Volume | 0 | 3 | 0 | 3 | 4 | 0 | 0 | 4 | 2 | 1 | 5 | 8 | 0 | 9 | 11 | 20 |
| % App. Total | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 25 | 12.5 | 62.5 | 0 | 0 | 45 | 55 | | |
| PHF | .000 | .750 | .000 | .750 | .500 | .000 | .000 | .500 | .500 | .250 | .625 | 1.000 | .000 | .450 | .688 | .714 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

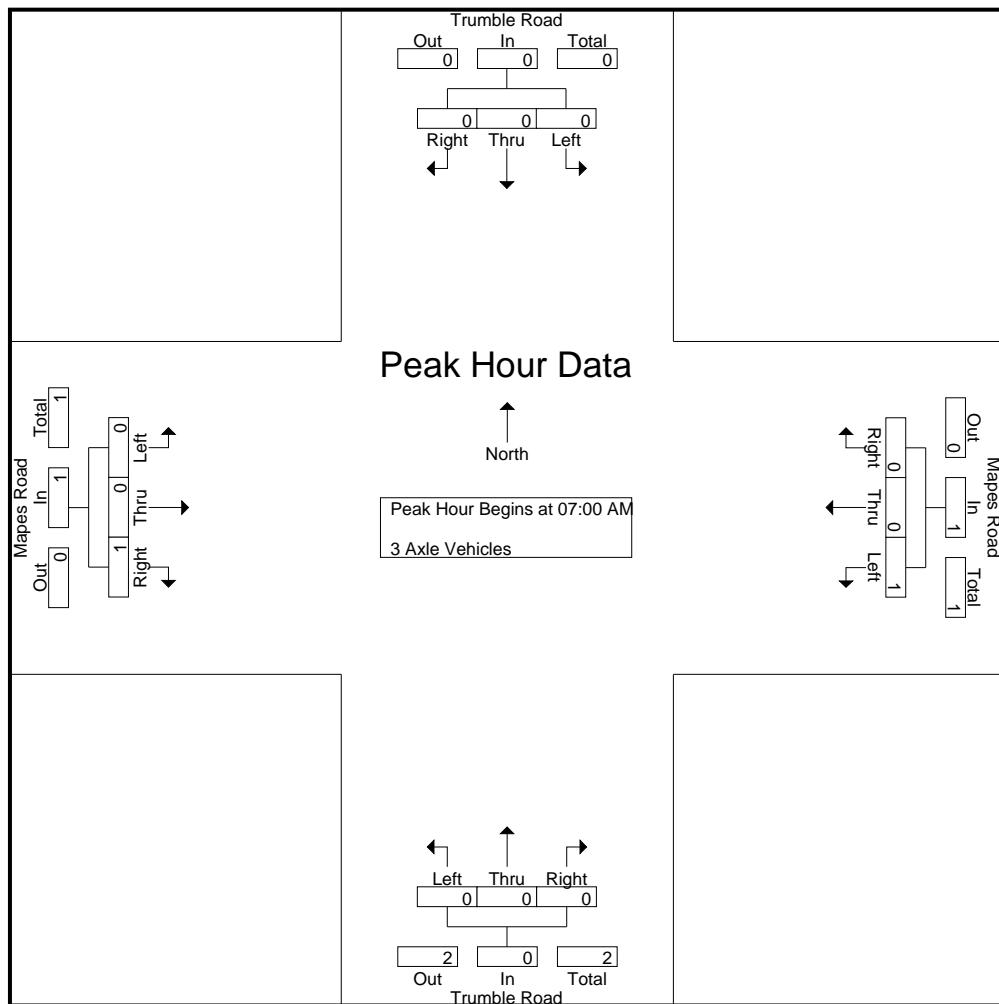
| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 07:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| Apprch % | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 |
| Total % | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 |

| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:00 AM | | | | | | | | | | | | | | | | | | |
| 07:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total Volume | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | |
| % App. Total | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | |
| PHF | .000 | .000 | .000 | .000 | .250 | .000 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .250 | |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:00 AM | | | | 07:00 AM | | | | 07:00 AM | | | | 07:00 AM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| % App. Total | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| PHF | .000 | .000 | .000 | .000 | .250 | .000 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .250 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

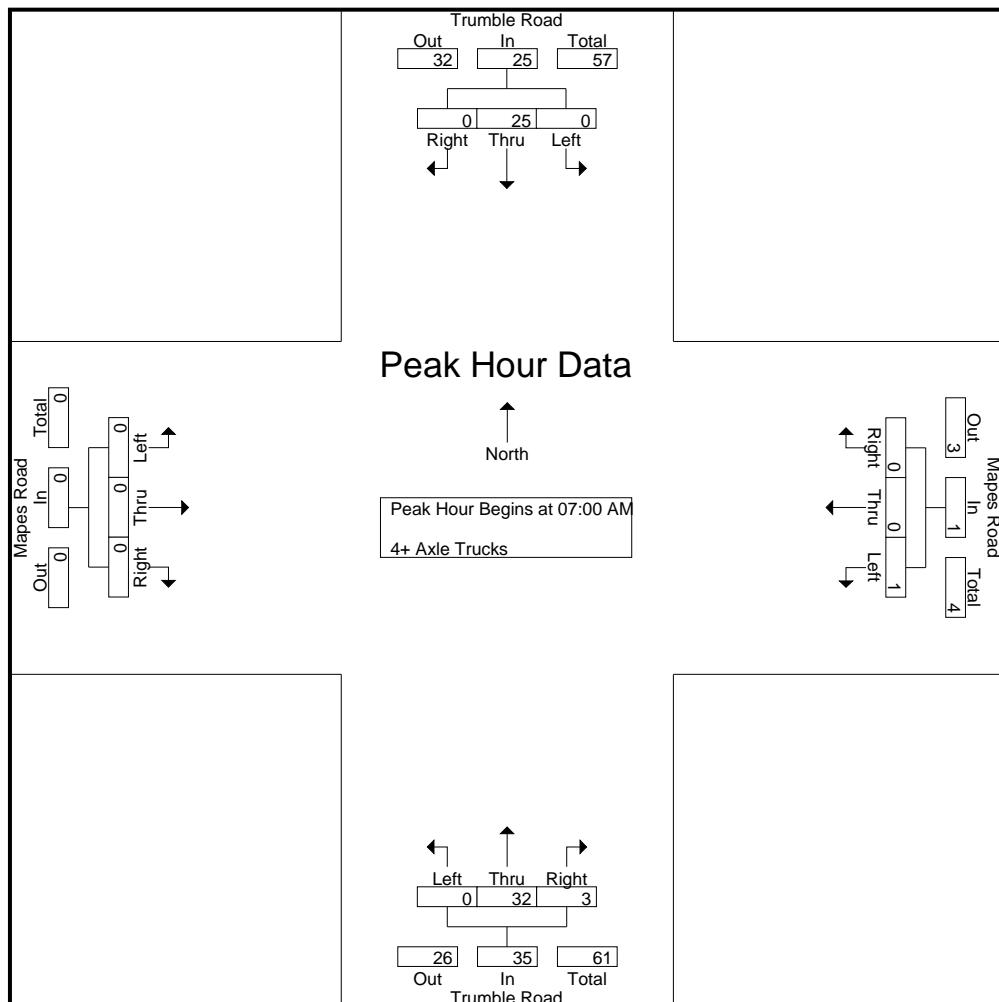
| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 07:00 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | 3 | 17 | 0 | 0 | 0 | 0 | 18 |
| 07:15 AM | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 07:30 AM | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 15 |
| 07:45 AM | 0 | 8 | 0 | 8 | 1 | 0 | 0 | 1 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 18 |
| Total | 0 | 25 | 0 | 25 | 1 | 0 | 0 | 1 | 0 | 32 | 3 | 35 | 0 | 0 | 0 | 0 | 61 |
| 08:00 AM | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 19 |
| 08:15 AM | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 17 |
| 08:30 AM | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 10 | 1 | 11 | 0 | 0 | 0 | 0 | 18 |
| 08:45 AM | 0 | 9 | 0 | 9 | 1 | 0 | 0 | 1 | 0 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 18 |
| Total | 0 | 35 | 0 | 35 | 1 | 0 | 0 | 1 | 0 | 35 | 1 | 36 | 0 | 0 | 0 | 0 | 72 |
| Grand Total | 0 | 60 | 0 | 60 | 2 | 0 | 0 | 2 | 0 | 67 | 4 | 71 | 0 | 0 | 0 | 0 | 133 |
| Apprch % | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 94.4 | 5.6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total % | 0 | 45.1 | 0 | 45.1 | 1.5 | 0 | 0 | 1.5 | 0 | 50.4 | 3 | 53.4 | 0 | 0 | 0 | 0 | 0 |

| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:00 AM | | | | | | | | | | | | | | | | | | |
| 07:00 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | 3 | 17 | 0 | 0 | 0 | 0 | 18 | |
| 07:15 AM | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| 07:30 AM | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 15 | |
| 07:45 AM | 0 | 8 | 0 | 8 | 1 | 0 | 0 | 1 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 18 | |
| Total Volume | 0 | 25 | 0 | 25 | 1 | 0 | 0 | 1 | 0 | 32 | 3 | 35 | 0 | 0 | 0 | 0 | 61 | |
| % App. Total | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 91.4 | 8.6 | 0 | 0 | 0 | 0 | 0 | 0 | |
| PHF | .000 | .625 | .000 | .625 | .250 | .000 | .000 | .250 | .000 | .571 | .250 | .515 | .000 | .000 | .000 | .000 | .847 | |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:00 AM | | | | 07:00 AM | | | | 07:00 AM | | | | 07:00 AM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | 3 | 17 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 8 | 0 | 8 | 1 | 0 | 0 | 1 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 25 | 0 | 25 | 1 | 0 | 0 | 1 | 0 | 32 | 3 | 35 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 91.4 | 8.6 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | .000 | .625 | .000 | .625 | .250 | .000 | .000 | .250 | .000 | .571 | .250 | .515 | .000 | .000 | .000 | .000 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

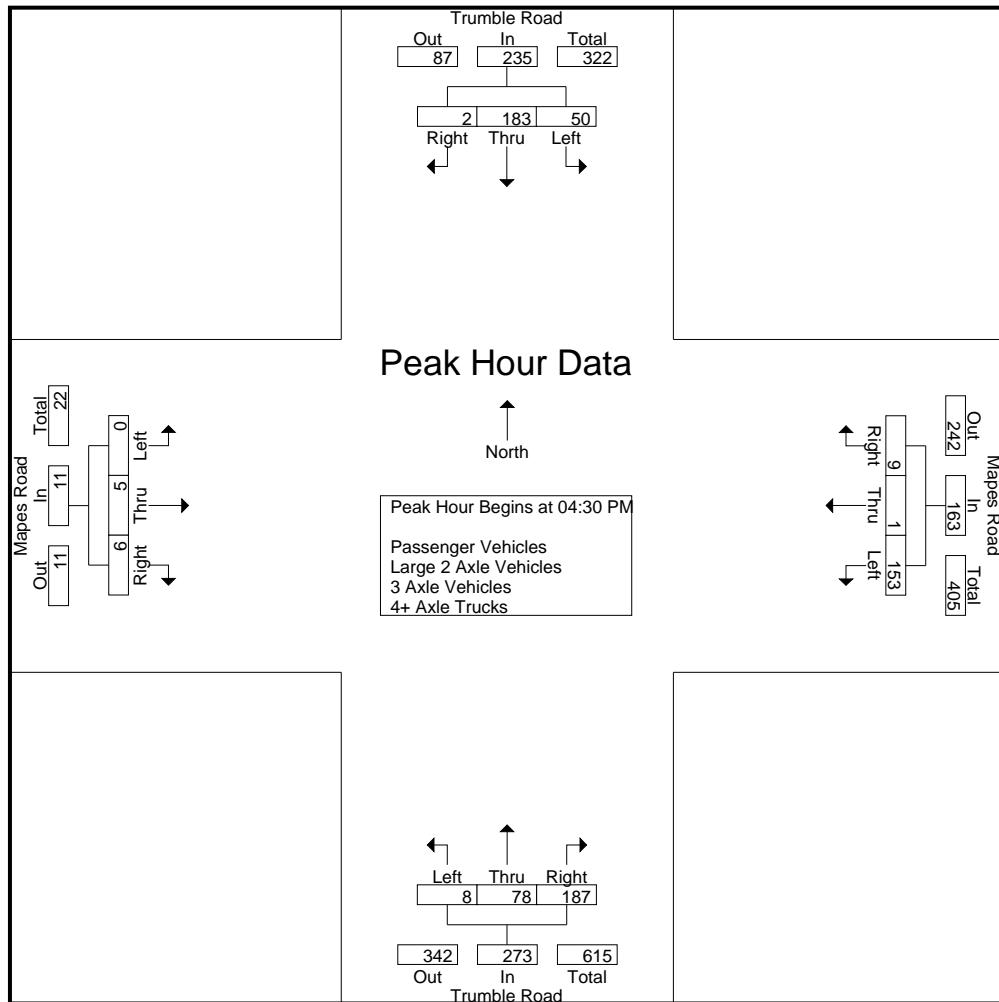
| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 04:00 PM | 18 | 28 | 2 | 48 | 32 | 3 | 0 | 35 | 6 | 18 | 47 | 71 | 1 | 1 | 3 | 5 | 159 |
| 04:15 PM | 8 | 23 | 0 | 31 | 27 | 2 | 3 | 32 | 3 | 15 | 48 | 66 | 0 | 1 | 2 | 3 | 132 |
| 04:30 PM | 19 | 59 | 0 | 78 | 45 | 0 | 3 | 48 | 3 | 17 | 54 | 74 | 0 | 2 | 3 | 5 | 205 |
| 04:45 PM | 6 | 19 | 1 | 26 | 39 | 1 | 1 | 41 | 1 | 26 | 46 | 73 | 0 | 1 | 1 | 2 | 142 |
| Total | 51 | 129 | 3 | 183 | 143 | 6 | 7 | 156 | 13 | 76 | 195 | 284 | 1 | 5 | 9 | 15 | 638 |
| 05:00 PM | 20 | 65 | 1 | 86 | 35 | 0 | 2 | 37 | 2 | 15 | 42 | 59 | 0 | 2 | 2 | 4 | 186 |
| 05:15 PM | 5 | 40 | 0 | 45 | 34 | 0 | 3 | 37 | 2 | 20 | 45 | 67 | 0 | 0 | 0 | 0 | 149 |
| 05:30 PM | 3 | 33 | 0 | 36 | 35 | 1 | 3 | 39 | 0 | 25 | 44 | 69 | 0 | 2 | 3 | 5 | 149 |
| 05:45 PM | 0 | 7 | 0 | 7 | 32 | 0 | 6 | 38 | 0 | 31 | 46 | 77 | 0 | 0 | 1 | 1 | 123 |
| Total | 28 | 145 | 1 | 174 | 136 | 1 | 14 | 151 | 4 | 91 | 177 | 272 | 0 | 4 | 6 | 10 | 607 |
| Grand Total | 79 | 274 | 4 | 357 | 279 | 7 | 21 | 307 | 17 | 167 | 372 | 556 | 1 | 9 | 15 | 25 | 1245 |
| Apprch % | 22.1 | 76.8 | 1.1 | | 90.9 | 2.3 | 6.8 | | 3.1 | 30 | 66.9 | | 4 | 36 | 60 | | |
| Total % | 6.3 | 22 | 0.3 | 28.7 | 22.4 | 0.6 | 1.7 | 24.7 | 1.4 | 13.4 | 29.9 | 44.7 | 0.1 | 0.7 | 1.2 | 2 | |
| Passenger Vehicles | 79 | 274 | 4 | 357 | 273 | 4 | 21 | 298 | 10 | 164 | 362 | 536 | 1 | 7 | 15 | 23 | 1214 |
| % Passenger Vehicles | 100 | 100 | 100 | 100 | 97.8 | 57.1 | 100 | 97.1 | 58.8 | 98.2 | 97.3 | 96.4 | 100 | 77.8 | 100 | 92 | 97.5 |
| Large 2 Axle Vehicles | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 6 | 6 | 3 | 5 | 14 | 0 | 2 | 0 | 2 | 22 |
| % Large 2 Axle Vehicles | 0 | 0 | 0 | 0 | 1.1 | 42.9 | 0 | 2 | 35.3 | 1.8 | 1.3 | 2.5 | 0 | 22.2 | 0 | 8 | 1.8 |
| 3 Axle Vehicles | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 7 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0 | 1.1 | 0 | 0 | 1 | 5.9 | 0 | 0.8 | 0.7 | 0 | 0 | 0 | 0 | 0.6 |
| 4+ Axle Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 |
| % 4+ Axle Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.2 |

| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | | |
| 04:30 PM | 19 | 59 | 0 | 78 | 45 | 0 | 3 | 48 | 3 | 17 | 54 | 74 | 0 | 2 | 3 | 5 | 205 | |
| 04:45 PM | 6 | 19 | 1 | 26 | 39 | 1 | 1 | 41 | 1 | 26 | 46 | 73 | 0 | 1 | 1 | 2 | 142 | |
| 05:00 PM | 20 | 65 | 1 | 86 | 35 | 0 | 2 | 37 | 2 | 15 | 42 | 59 | 0 | 2 | 2 | 4 | 186 | |
| 05:15 PM | 5 | 40 | 0 | 45 | 34 | 0 | 3 | 37 | 2 | 20 | 45 | 67 | 0 | 0 | 0 | 0 | 149 | |
| Total Volume | 50 | 183 | 2 | 235 | 153 | 1 | 9 | 163 | 8 | 78 | 187 | 273 | 0 | 5 | 6 | 11 | 682 | |
| % App. Total | 21.3 | 77.9 | 0.9 | | 93.9 | 0.6 | 5.5 | | 2.9 | 28.6 | 68.5 | | 0 | 45.5 | 54.5 | | | |
| PHF | .625 | .704 | .500 | .683 | .850 | .250 | .750 | .849 | .667 | .750 | .866 | .922 | .000 | .625 | .500 | .550 | .832 | |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 04:30 PM | | | | 04:00 PM | | | | 04:00 PM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 19 | 59 | 0 | 78 | 45 | 0 | 3 | 48 | 6 | 18 | 47 | 71 | 1 | 1 | 3 | 5 |
| +15 mins. | 6 | 19 | 1 | 26 | 39 | 1 | 1 | 41 | 3 | 15 | 48 | 66 | 0 | 1 | 2 | 3 |
| +30 mins. | 20 | 65 | 1 | 86 | 35 | 0 | 2 | 37 | 3 | 17 | 54 | 74 | 0 | 2 | 3 | 5 |
| +45 mins. | 5 | 40 | 0 | 45 | 34 | 0 | 3 | 37 | 1 | 26 | 46 | 73 | 0 | 1 | 1 | 2 |
| Total Volume | 50 | 183 | 2 | 235 | 153 | 1 | 9 | 163 | 13 | 76 | 195 | 284 | 1 | 5 | 9 | 15 |
| % App. Total | 21.3 | 77.9 | 0.9 | | 93.9 | 0.6 | 5.5 | | 4.6 | 26.8 | 68.7 | | 6.7 | 33.3 | 60 | |
| PHF | .625 | .704 | .500 | .683 | .850 | .250 | .750 | .849 | .542 | .731 | .903 | .959 | .250 | .625 | .750 | .750 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

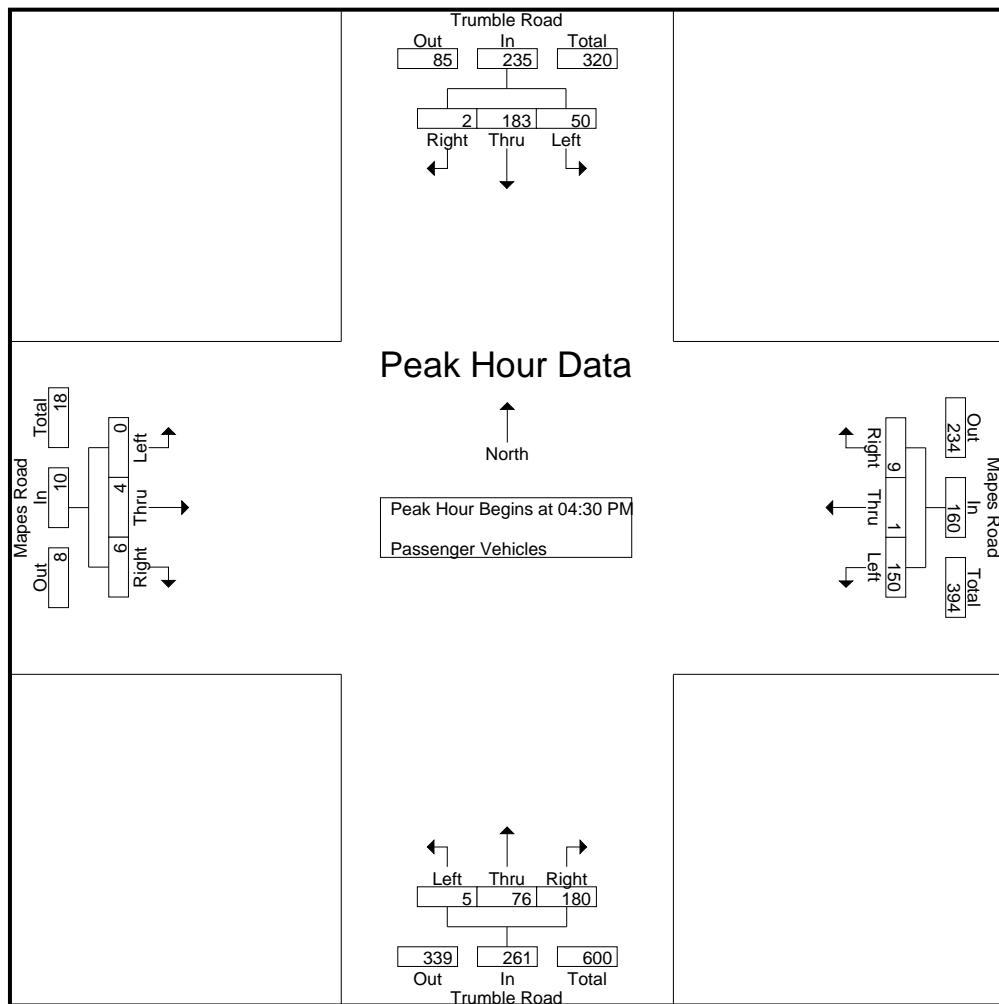
| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 04:00 PM | 18 | 28 | 2 | 48 | 32 | 0 | 0 | 32 | 4 | 17 | 47 | 68 | 1 | 1 | 3 | 5 | 153 |
| 04:15 PM | 8 | 23 | 0 | 31 | 26 | 2 | 3 | 31 | 1 | 15 | 46 | 62 | 0 | 0 | 2 | 2 | 126 |
| 04:30 PM | 19 | 59 | 0 | 78 | 44 | 0 | 3 | 47 | 2 | 16 | 52 | 70 | 0 | 1 | 3 | 4 | 199 |
| 04:45 PM | 6 | 19 | 1 | 26 | 39 | 1 | 1 | 41 | 1 | 25 | 45 | 71 | 0 | 1 | 1 | 2 | 140 |
| Total | 51 | 129 | 3 | 183 | 141 | 3 | 7 | 151 | 8 | 73 | 190 | 271 | 1 | 3 | 9 | 13 | 618 |
| 05:00 PM | 20 | 65 | 1 | 86 | 34 | 0 | 2 | 36 | 1 | 15 | 41 | 57 | 0 | 2 | 2 | 4 | 183 |
| 05:15 PM | 5 | 40 | 0 | 45 | 33 | 0 | 3 | 36 | 1 | 20 | 42 | 63 | 0 | 0 | 0 | 0 | 144 |
| 05:30 PM | 3 | 33 | 0 | 36 | 33 | 1 | 3 | 37 | 0 | 25 | 43 | 68 | 0 | 2 | 3 | 5 | 146 |
| 05:45 PM | 0 | 7 | 0 | 7 | 32 | 0 | 6 | 38 | 0 | 31 | 46 | 77 | 0 | 0 | 1 | 1 | 123 |
| Total | 28 | 145 | 1 | 174 | 132 | 1 | 14 | 147 | 2 | 91 | 172 | 265 | 0 | 4 | 6 | 10 | 596 |
| Grand Total | 79 | 274 | 4 | 357 | 273 | 4 | 21 | 298 | 10 | 164 | 362 | 536 | 1 | 7 | 15 | 23 | 1214 |
| Apprch % | 22.1 | 76.8 | 1.1 | | 91.6 | 1.3 | 7 | | 1.9 | 30.6 | 67.5 | | 4.3 | 30.4 | 65.2 | | |
| Total % | 6.5 | 22.6 | 0.3 | 29.4 | 22.5 | 0.3 | 1.7 | 24.5 | 0.8 | 13.5 | 29.8 | 44.2 | 0.1 | 0.6 | 1.2 | 1.9 | |

| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | | |
| 04:30 PM | 19 | 59 | 0 | 78 | 44 | 0 | 3 | 47 | 2 | 16 | 52 | 70 | 0 | 1 | 3 | 4 | 199 | |
| 04:45 PM | 6 | 19 | 1 | 26 | 39 | 1 | 1 | 41 | 1 | 25 | 45 | 71 | 0 | 1 | 1 | 2 | 140 | |
| 05:00 PM | 20 | 65 | 1 | 86 | 34 | 0 | 2 | 36 | 1 | 15 | 41 | 57 | 0 | 2 | 2 | 4 | 183 | |
| 05:15 PM | 5 | 40 | 0 | 45 | 33 | 0 | 3 | 36 | 1 | 20 | 42 | 63 | 0 | 0 | 0 | 0 | 144 | |
| Total Volume | 50 | 183 | 2 | 235 | 150 | 1 | 9 | 160 | 5 | 76 | 180 | 261 | 0 | 4 | 6 | 10 | 666 | |
| % App. Total | 21.3 | 77.9 | 0.9 | | 93.8 | 0.6 | 5.6 | | 1.9 | 29.1 | 69 | | 0 | 40 | 60 | | | |
| PHF | .625 | .704 | .500 | .683 | .852 | .250 | .750 | .851 | .625 | .760 | .865 | .919 | .000 | .500 | .500 | .625 | .837 | |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 04:30 PM | | | | 04:30 PM | | | | 04:30 PM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 19 | 59 | 0 | 78 | 44 | 0 | 3 | 47 | 2 | 16 | 52 | 70 | 0 | 1 | 3 | 4 |
| +15 mins. | 6 | 19 | 1 | 26 | 39 | 1 | 1 | 41 | 1 | 25 | 45 | 71 | 0 | 1 | 1 | 2 |
| +30 mins. | 20 | 65 | 1 | 86 | 34 | 0 | 2 | 36 | 1 | 15 | 41 | 57 | 0 | 2 | 2 | 4 |
| +45 mins. | 5 | 40 | 0 | 45 | 33 | 0 | 3 | 36 | 1 | 20 | 42 | 63 | 0 | 0 | 0 | 0 |
| Total Volume | 50 | 183 | 2 | 235 | 150 | 1 | 9 | 160 | 5 | 76 | 180 | 261 | 0 | 4 | 6 | 10 |
| % App. Total | 21.3 | 77.9 | 0.9 | | 93.8 | 0.6 | 5.6 | | 1.9 | 29.1 | 69 | | 0 | 40 | 60 | |
| PHF | .625 | .704 | .500 | .683 | .852 | .250 | .750 | .851 | .625 | .760 | .865 | .919 | .000 | .500 | .500 | .625 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

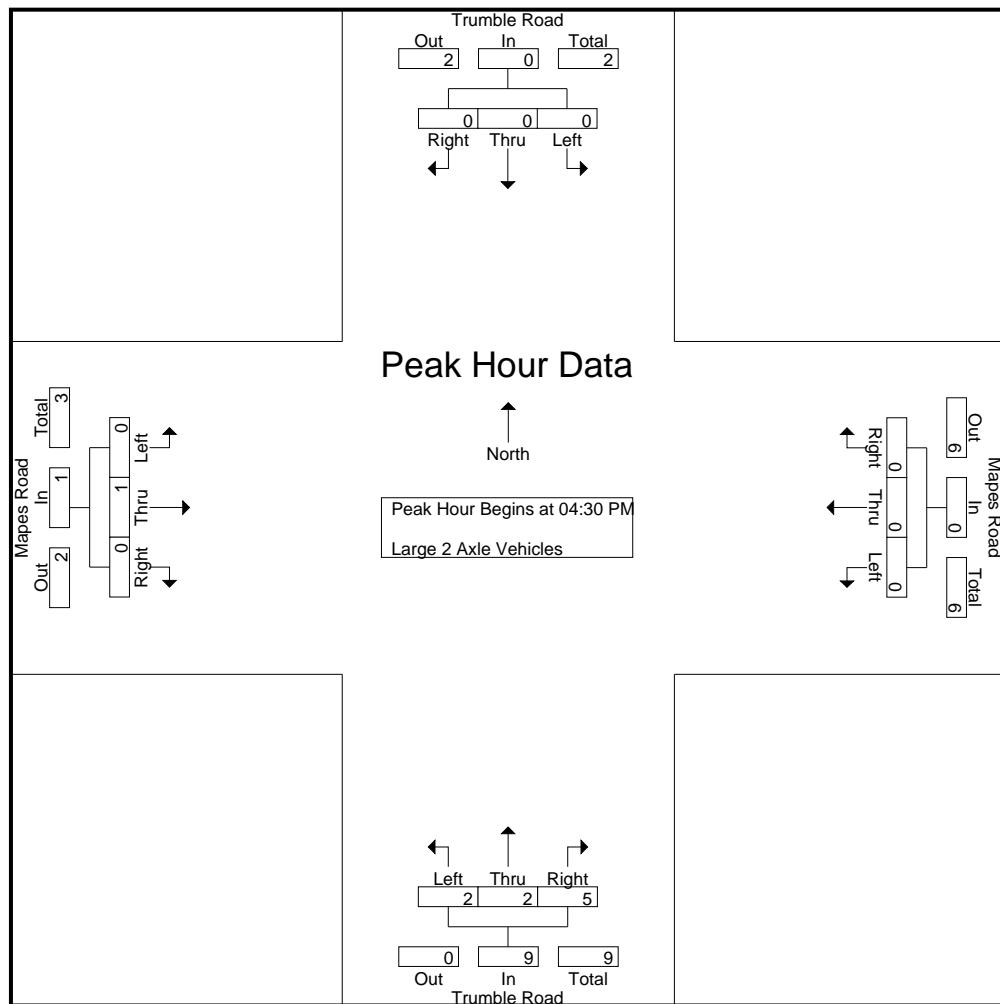
| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 6 |
| 04:15 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 4 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 1 | 0 | 1 | 4 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 4 | 3 | 2 | 9 | 0 | 2 | 0 | 2 | 15 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 2 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 3 |
| 05:30 PM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 3 | 5 | 0 | 0 | 0 | 0 | 7 |
| Grand Total | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 6 | 6 | 3 | 5 | 14 | 0 | 2 | 0 | 2 | 22 |
| Apprch % | 0 | 0 | 0 | 50 | 50 | 0 | 42.9 | 21.4 | 35.7 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total % | 0 | 0 | 0 | 0 | 13.6 | 13.6 | 0 | 27.3 | 27.3 | 13.6 | 22.7 | 63.6 | 0 | 9.1 | 0 | 9.1 | 22 |

| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 1 | 0 | 1 | 4 | |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 3 | |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 5 | 9 | 0 | 1 | 0 | 1 | 10 | |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22.2 | 22.2 | 55.6 | 0 | 100 | 0 | 0 | 0 | 0 | 1 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .500 | .500 | .625 | .750 | .000 | .250 | .000 | .250 | .625 | |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 04:30 PM | | | | 04:30 PM | | | | 04:30 PM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 1 | 0 | 1 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 5 | 9 | 0 | 1 | 0 | 1 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22.2 | 22.2 | 55.6 | 9 | 0 | 100 | 0 | 0 |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .500 | .500 | .625 | .750 | .000 | .250 | .000 | .250 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

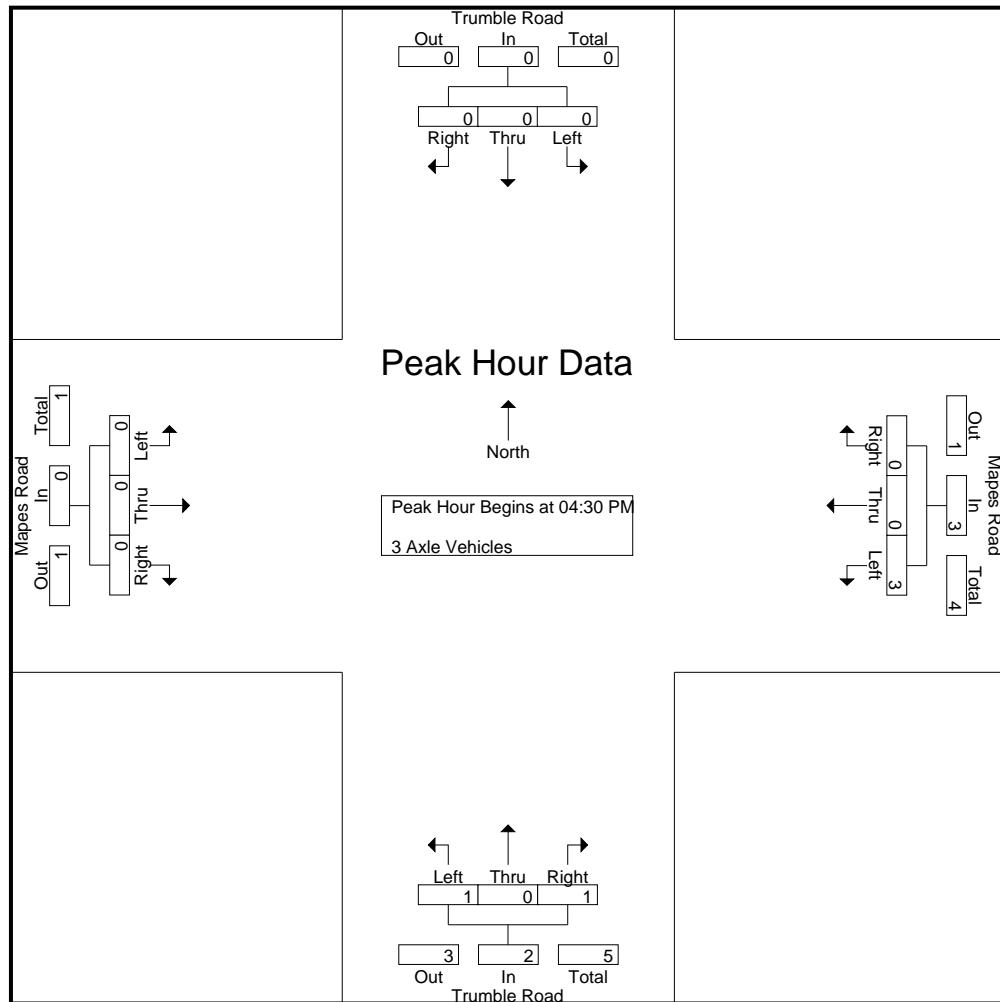
| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 4 |
| 05:00 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| Grand Total | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 7 |
| Apprch % | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 25 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total % | 0 | 0 | 0 | 0 | 42.9 | 0 | 0 | 42.9 | 14.3 | 0 | 42.9 | 57.1 | 0 | 0 | 0 | 0 | 0 |

| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | |
| 05:00 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 05:15 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| Total Volume | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 5 | |
| % App. Total | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 50 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 1 | |
| PHF | .000 | .000 | .000 | .000 | .750 | .000 | .000 | .750 | .250 | .000 | .250 | .500 | .000 | .000 | .000 | .000 | .625 | |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 04:30 PM | | | | 04:30 PM | | | | 04:30 PM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 0 |
| PHF | .000 | .000 | .000 | .000 | .750 | .000 | .000 | .750 | .250 | .000 | .250 | .500 | .000 | .000 | .000 | .000 |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

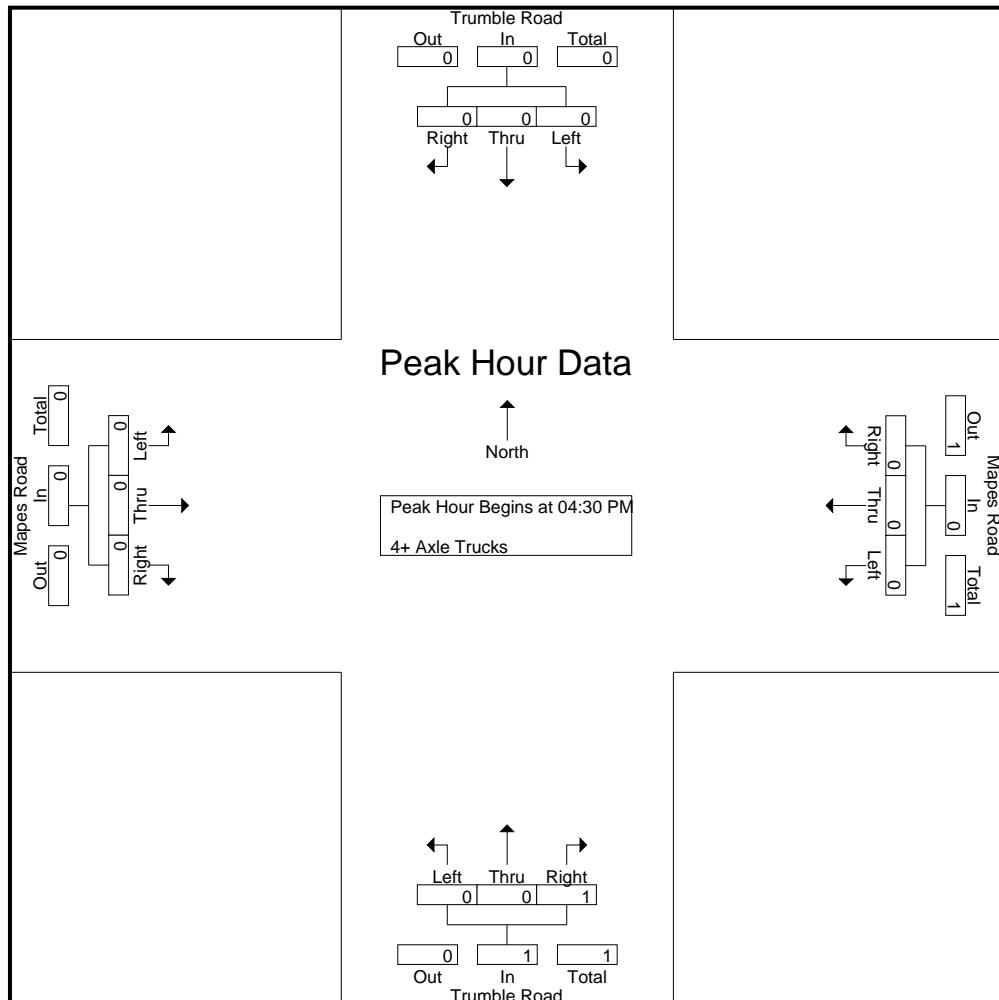
| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 |
| Apprch % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 |
| Total % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 |

| Start Time | Trumble Road Southbound | | | | Mapes Road Westbound | | | | Trumble Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .000 | .000 | .000 | .000 | .250 | |

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City of Menifee
 N/S: Trumble Road
 E/W: Mapes Road
 Weather: Clear

File Name : 03_MEN_Trumble_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 04:30 PM | | | | 04:30 PM | | | | 04:30 PM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .000 | .000 | .000 | .000 |

Location: Menifee
N/S: Trumble Road
E/W: Mapes Road



Date: 10/5/2021
Day: Tuesday

PEDESTRIANS

| | North Leg Trumble Road Pedestrians | East Leg Mapes Road Pedestrians | South Leg Trumble Road Pedestrians | West Leg Mapes Road Pedestrians | |
|----------------|--|---------------------------------------|--|---------------------------------------|----|
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 5 | 0 | 0 | 5 |
| 7:30 AM | 0 | 1 | 0 | 0 | 1 |
| 7:45 AM | 0 | 1 | 1 | 0 | 2 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 2 | 0 | 0 | 0 | 2 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 2 | 7 | 1 | 0 | 10 |

| | North Leg Trumble Road Pedestrians | East Leg Mapes Road Pedestrians | South Leg Trumble Road Pedestrians | West Leg Mapes Road Pedestrians | |
|----------------|--|---------------------------------------|--|---------------------------------------|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 2 | 0 | 0 | 2 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 2 | 0 | 0 | 2 |
| 5:15 PM | 0 | 1 | 0 | 0 | 1 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 5 | 0 | 0 | 5 |

Location: Menifee
 N/S: Trumble Road
 E/W: Mapes Road



Date: 10/5/2021
 Day: Tuesday

BICYCLES

| | Southbound Trumble Road | | | Westbound Mapes Road | | | Northbound Trumble Road | | | Eastbound Mapes Road | | | |
|----------------|----------------------------|------|-------|-------------------------|------|-------|----------------------------|------|-------|-------------------------|------|-------|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | Southbound Trumble Road | | | Westbound Mapes Road | | | Northbound Trumble Road | | | Eastbound Mapes Road | | | |
|----------------|----------------------------|------|-------|-------------------------|------|-------|----------------------------|------|-------|-------------------------|------|-------|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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 (951)268-6268

City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Tumble_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

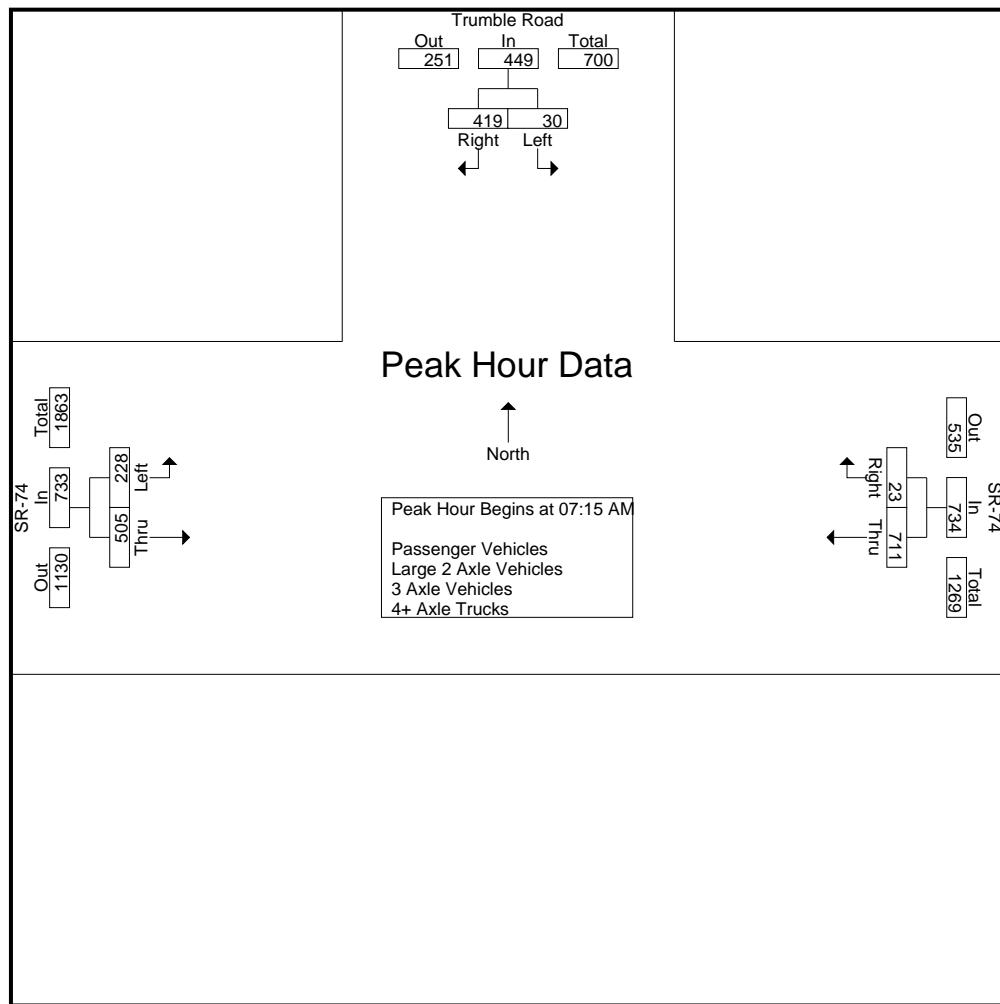
| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------------------|-------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 07:00 AM | 10 | 97 | 46 | 107 | 156 | 9 | 1 | 165 | 40 | 101 | 0 | 141 | 47 | 413 | 460 |
| 07:15 AM | 10 | 105 | 42 | 115 | 167 | 5 | 0 | 172 | 66 | 141 | 0 | 207 | 42 | 494 | 536 |
| 07:30 AM | 6 | 117 | 61 | 123 | 183 | 6 | 1 | 189 | 60 | 119 | 0 | 179 | 62 | 491 | 553 |
| 07:45 AM | 7 | 101 | 44 | 108 | 178 | 8 | 1 | 186 | 51 | 115 | 0 | 166 | 45 | 460 | 505 |
| Total | 33 | 420 | 193 | 453 | 684 | 28 | 3 | 712 | 217 | 476 | 0 | 693 | 196 | 1858 | 2054 |
| 08:00 AM | 7 | 96 | 38 | 103 | 183 | 4 | 1 | 187 | 51 | 130 | 0 | 181 | 39 | 471 | 510 |
| 08:15 AM | 6 | 81 | 47 | 87 | 138 | 5 | 3 | 143 | 56 | 113 | 0 | 169 | 50 | 399 | 449 |
| 08:30 AM | 7 | 68 | 47 | 75 | 131 | 7 | 1 | 138 | 52 | 93 | 0 | 145 | 48 | 358 | 406 |
| 08:45 AM | 1 | 57 | 32 | 58 | 142 | 5 | 1 | 147 | 53 | 120 | 0 | 173 | 33 | 378 | 411 |
| Total | 21 | 302 | 164 | 323 | 594 | 21 | 6 | 615 | 212 | 456 | 0 | 668 | 170 | 1606 | 1776 |
| Grand Total | 54 | 722 | 357 | 776 | 1278 | 49 | 9 | 1327 | 429 | 932 | 0 | 1361 | 366 | 3464 | 3830 |
| Apprch % | 7 | 93 | | | 96.3 | 3.7 | | | 31.5 | 68.5 | | | | | |
| Total % | 1.6 | 20.8 | | 22.4 | 36.9 | 1.4 | | 38.3 | 12.4 | 26.9 | | 39.3 | 9.6 | 90.4 | |
| Passenger Vehicles | 35 | 588 | | 914 | 1199 | 41 | | 1247 | 338 | 816 | | 1154 | 0 | 0 | 3315 |
| % Passenger Vehicles | 64.8 | 81.4 | 81.5 | 80.7 | 93.8 | 83.7 | 77.8 | 93.3 | 78.8 | 87.6 | 0 | 84.8 | 0 | 0 | 86.6 |
| Large 2 Axle Vehicles | 17 | 54 | | 101 | 38 | 5 | | 44 | 26 | 62 | | 88 | 0 | 0 | 233 |
| % Large 2 Axle Vehicles | 31.5 | 7.5 | 8.4 | 8.9 | 3 | 10.2 | 11.1 | 3.3 | 6.1 | 6.7 | 0 | 6.5 | 0 | 0 | 6.1 |
| 3 Axle Vehicles | 0 | 6 | | 9 | 14 | 1 | | 15 | 1 | 19 | | 20 | 0 | 0 | 44 |
| % 3 Axle Vehicles | 0 | 0.8 | 0.8 | 0.8 | 1.1 | 2 | 0 | 1.1 | 0.2 | 2 | 0 | 1.5 | 0 | 0 | 1.1 |
| 4+ Axle Trucks | 2 | 74 | | 109 | 27 | 2 | | 30 | 64 | 35 | | 99 | 0 | 0 | 238 |
| % 4+ Axle Trucks | 3.7 | 10.2 | 9.2 | 9.6 | 2.1 | 4.1 | 11.1 | 2.2 | 14.9 | 3.8 | 0 | 7.3 | 0 | 0 | 6.2 |

| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|---|-------------------------|------------|------------|------------|-----------------|------------|-----------|------------|-----------------|------|------|------------|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Left | Thru | App. Total | |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | |
| 07:15 AM | 10 | 105 | 115 | 167 | 5 | 172 | 66 | 141 | 207 | | | | 494 |
| 07:30 AM | 6 | 117 | 123 | 183 | 6 | 189 | 60 | 119 | 179 | | | | 491 |
| 07:45 AM | 7 | 101 | 108 | 178 | 8 | 186 | 51 | 115 | 166 | | | | 460 |
| 08:00 AM | 7 | 96 | 103 | 183 | 4 | 187 | 51 | 130 | 181 | | | | 471 |
| Total Volume | 30 | 419 | 449 | 711 | 23 | 734 | 228 | 505 | 733 | | | | 1916 |
| % App. Total | 6.7 | 93.3 | | 96.9 | 3.1 | | 31.1 | 68.9 | | | | | |
| PHF | .750 | .895 | .913 | .971 | .719 | .971 | .864 | .895 | .885 | | | | .970 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:00 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|-----------|------------|------------|------------|----------|------------|-----------|------------|------------|
| +0 mins. | 10 | 97 | 107 | 167 | 5 | 172 | 66 | 141 | 207 |
| +15 mins. | 10 | 105 | 115 | 183 | 6 | 189 | 60 | 119 | 179 |
| +30 mins. | 6 | 117 | 123 | 178 | 8 | 186 | 51 | 115 | 166 |
| +45 mins. | 7 | 101 | 108 | 183 | 4 | 187 | 51 | 130 | 181 |
| Total Volume | 33 | 420 | 453 | 711 | 23 | 734 | 228 | 505 | 733 |
| % App. Total | 7.3 | 92.7 | | 96.9 | 3.1 | | 31.1 | 68.9 | |
| PHF | .825 | .897 | .921 | .971 | .719 | .971 | .864 | .895 | .885 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Tumble_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

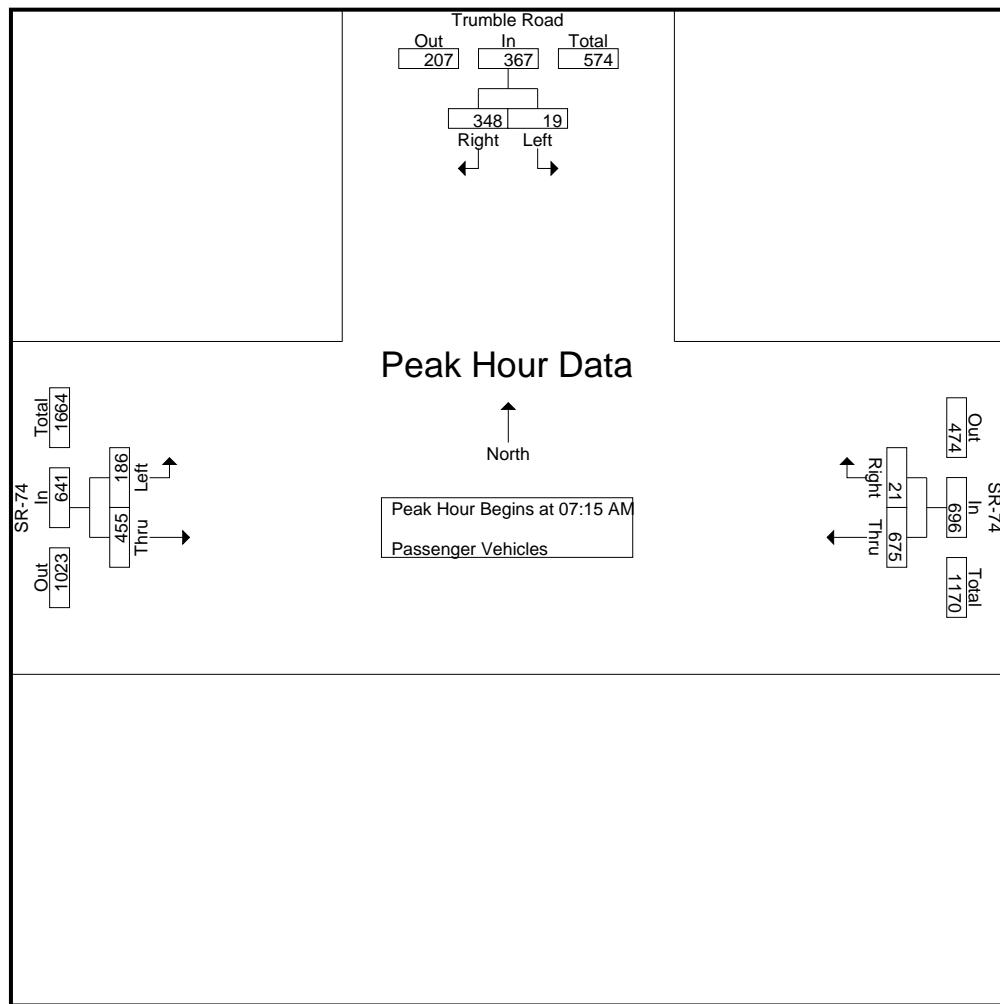
| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|-------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 07:00 AM | 5 | 74 | 33 | 79 | 146 | 8 | 1 | 154 | 33 | 84 | 0 | 117 | 34 | 350 | 384 |
| 07:15 AM | 6 | 82 | 32 | 88 | 158 | 5 | 0 | 163 | 61 | 130 | 0 | 191 | 32 | 442 | 474 |
| 07:30 AM | 4 | 103 | 53 | 107 | 175 | 4 | 1 | 179 | 50 | 108 | 0 | 158 | 54 | 444 | 498 |
| 07:45 AM | 6 | 84 | 36 | 90 | 174 | 8 | 1 | 182 | 39 | 104 | 0 | 143 | 37 | 415 | 452 |
| Total | 21 | 343 | 154 | 364 | 653 | 25 | 3 | 678 | 183 | 426 | 0 | 609 | 157 | 1651 | 1808 |
| 08:00 AM | 3 | 79 | 29 | 82 | 168 | 4 | 1 | 172 | 36 | 113 | 0 | 149 | 30 | 403 | 433 |
| 08:15 AM | 5 | 66 | 40 | 71 | 127 | 4 | 2 | 131 | 44 | 97 | 0 | 141 | 42 | 343 | 385 |
| 08:30 AM | 5 | 57 | 40 | 62 | 119 | 4 | 0 | 123 | 36 | 76 | 0 | 112 | 40 | 297 | 337 |
| 08:45 AM | 1 | 43 | 28 | 44 | 132 | 4 | 1 | 136 | 39 | 104 | 0 | 143 | 29 | 323 | 352 |
| Total | 14 | 245 | 137 | 259 | 546 | 16 | 4 | 562 | 155 | 390 | 0 | 545 | 141 | 1366 | 1507 |
| Grand Total | 35 | 588 | 291 | 623 | 1199 | 41 | 7 | 1240 | 338 | 816 | 0 | 1154 | 298 | 3017 | 3315 |
| Apprch % | 5.6 | 94.4 | | | 96.7 | 3.3 | | | 29.3 | 70.7 | | | | | |
| Total % | 1.2 | 19.5 | | 20.6 | 39.7 | 1.4 | | | 41.1 | 11.2 | 27 | | 38.2 | 9 | 91 |

| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|--|-------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|--|--|--|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | |
| 07:15 AM | 6 | 82 | 88 | 158 | 5 | 163 | 61 | 130 | 191 | | | | 442 |
| 07:30 AM | 4 | 103 | 107 | 175 | 4 | 179 | 50 | 108 | 158 | | | | 444 |
| 07:45 AM | 6 | 84 | 90 | 174 | 8 | 182 | 39 | 104 | 143 | | | | 415 |
| 08:00 AM | 3 | 79 | 82 | 168 | 4 | 172 | 36 | 113 | 149 | | | | 403 |
| Total Volume | 19 | 348 | 367 | 675 | 21 | 696 | 186 | 455 | 641 | | | | 1704 |
| % App. Total | 5.2 | 94.8 | | 97 | 3 | | 29 | 71 | | | | | |
| PHF | .792 | .845 | .857 | .964 | .656 | .956 | .762 | .875 | .839 | | | | .959 |

Counts Unlimited, Inc.
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 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 6 | 82 | 88 | 158 | 5 | 163 | 61 | 130 | 191 |
| +15 mins. | 4 | 103 | 107 | 175 | 4 | 179 | 50 | 108 | 158 |
| +30 mins. | 6 | 84 | 90 | 174 | 8 | 182 | 39 | 104 | 143 |
| +45 mins. | 3 | 79 | 82 | 168 | 4 | 172 | 36 | 113 | 149 |
| Total Volume | 19 | 348 | 367 | 675 | 21 | 696 | 186 | 455 | 641 |
| % App. Total | 5.2 | 94.8 | | 97 | 3 | | 29 | 71 | |
| PHF | .792 | .845 | .857 | .964 | .656 | .956 | .762 | .875 | .839 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Tumble_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

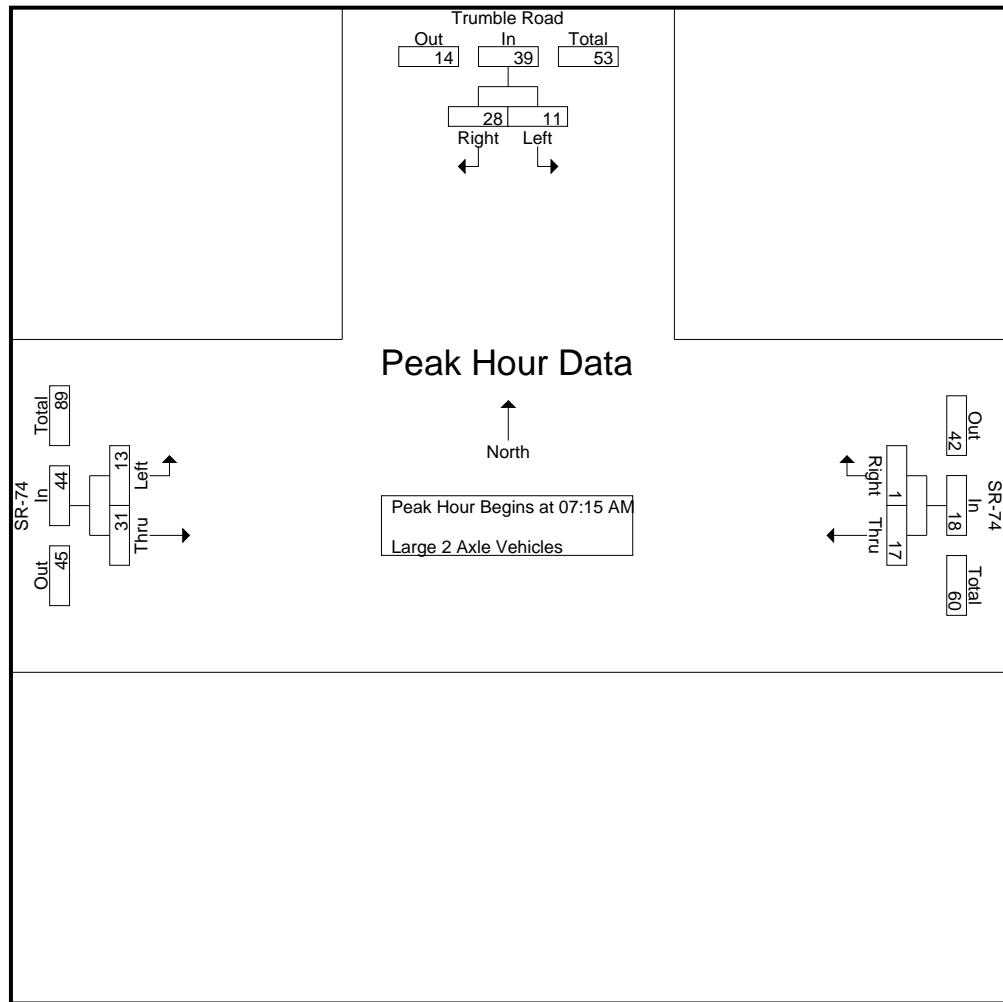
| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|-------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 07:00 AM | 3 | 16 | 11 | 19 | 4 | 0 | 0 | 4 | 3 | 9 | 0 | 12 | 11 | 35 | 46 |
| 07:15 AM | 4 | 10 | 4 | 14 | 4 | 0 | 0 | 4 | 5 | 3 | 0 | 8 | 4 | 26 | 30 |
| 07:30 AM | 2 | 5 | 2 | 7 | 6 | 1 | 0 | 7 | 1 | 7 | 0 | 8 | 2 | 22 | 24 |
| 07:45 AM | 1 | 8 | 5 | 9 | 0 | 0 | 0 | 0 | 2 | 8 | 0 | 10 | 5 | 19 | 24 |
| Total | 10 | 39 | 22 | 49 | 14 | 1 | 0 | 15 | 11 | 27 | 0 | 38 | 22 | 102 | 124 |
| 08:00 AM | 4 | 5 | 2 | 9 | 7 | 0 | 0 | 7 | 5 | 13 | 0 | 18 | 2 | 34 | 36 |
| 08:15 AM | 1 | 6 | 4 | 7 | 5 | 0 | 0 | 5 | 3 | 5 | 0 | 8 | 4 | 20 | 24 |
| 08:30 AM | 2 | 2 | 1 | 4 | 5 | 3 | 1 | 8 | 3 | 7 | 0 | 10 | 2 | 22 | 24 |
| 08:45 AM | 0 | 2 | 1 | 2 | 7 | 1 | 0 | 8 | 4 | 10 | 0 | 14 | 1 | 24 | 25 |
| Total | 7 | 15 | 8 | 22 | 24 | 4 | 1 | 28 | 15 | 35 | 0 | 50 | 9 | 100 | 109 |
| Grand Total | 17 | 54 | 30 | 71 | 38 | 5 | 1 | 43 | 26 | 62 | 0 | 88 | 31 | 202 | 233 |
| Apprch % | 23.9 | 76.1 | | | 88.4 | 11.6 | | | 29.5 | 70.5 | | | | | |
| Total % | 8.4 | 26.7 | | 35.1 | 18.8 | 2.5 | | 21.3 | 12.9 | 30.7 | | 43.6 | 13.3 | 86.7 | |

| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Left | Thru | App. Total | Int. Total | | |
|--|-------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|------|------|------------|------|------|------------|------------|--|--|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Left | Thru | App. Total | | | | | | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 4 | 10 | 14 | 4 | 0 | 4 | 5 | 3 | 8 | | | | | | 26 | | | |
| 07:30 AM | 2 | 5 | 7 | 6 | 1 | 7 | 1 | 7 | 8 | | | | | | 22 | | | |
| 07:45 AM | 1 | 8 | 9 | 0 | 0 | 0 | 2 | 8 | 10 | | | | | | 19 | | | |
| 08:00 AM | 4 | 5 | 9 | 7 | 0 | 7 | 5 | 13 | 18 | | | | | | 34 | | | |
| Total Volume | 11 | 28 | 39 | 17 | 1 | 18 | 13 | 31 | 44 | | | | | | 101 | | | |
| % App. Total | 28.2 | 71.8 | | 94.4 | 5.6 | | 29.5 | 70.5 | | | | | | | | | | |
| PHF | .688 | .700 | .696 | .607 | .250 | .643 | .650 | .596 | .611 | | | | | | .743 | | | |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 4 | 10 | 14 | 4 | 0 | 4 | 5 | 3 | 8 |
| +15 mins. | 2 | 5 | 7 | 6 | 1 | 7 | 1 | 7 | 8 |
| +30 mins. | 1 | 8 | 9 | 0 | 0 | 0 | 2 | 8 | 10 |
| +45 mins. | 4 | 5 | 9 | 7 | 0 | 7 | 5 | 13 | 18 |
| Total Volume | 11 | 28 | 39 | 17 | 1 | 18 | 13 | 31 | 44 |
| % App. Total | 28.2 | 71.8 | | 94.4 | 5.6 | | 29.5 | 70.5 | |
| PHF | .688 | .700 | .696 | .607 | .250 | .643 | .650 | .596 | .611 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

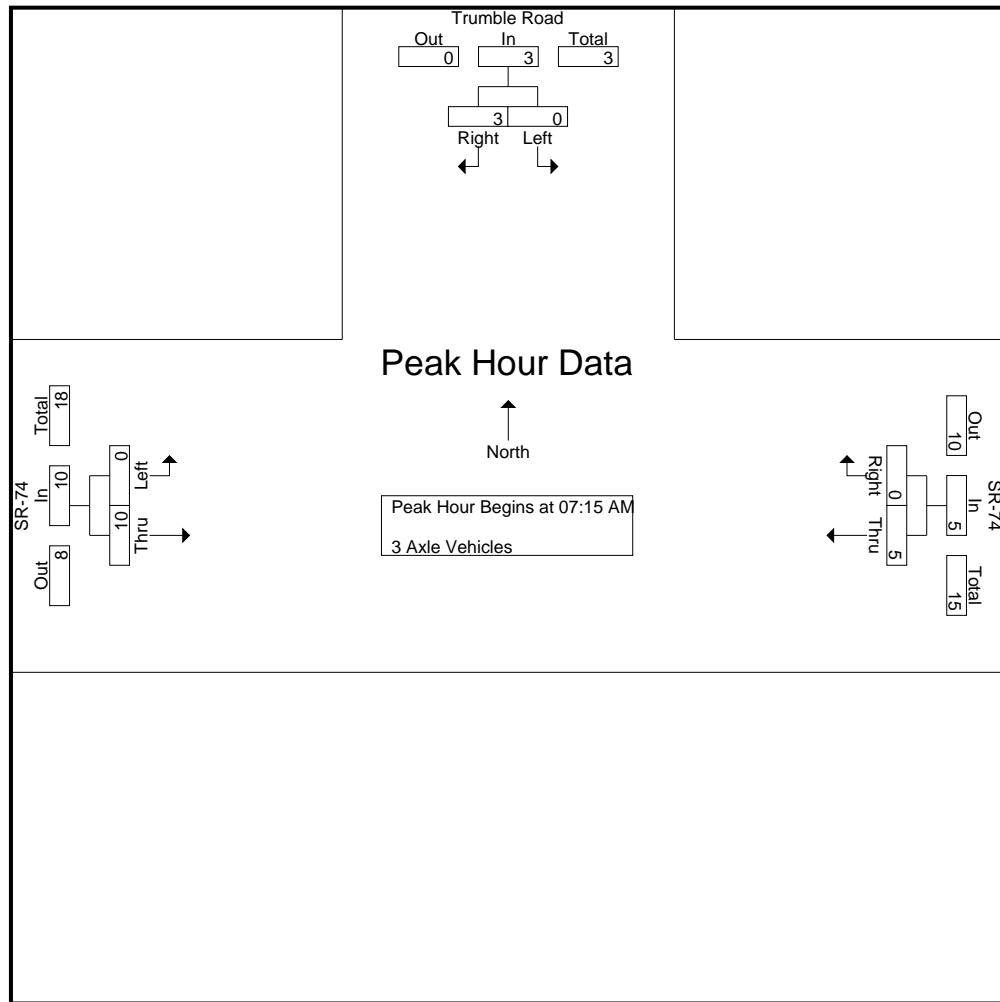
| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|-------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 07:00 AM | 0 | 3 | 1 | 3 | 4 | 1 | 0 | 5 | 0 | 3 | 0 | 3 | 1 | 11 | 12 |
| 07:15 AM | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 | 4 | 0 | 4 | 0 | 7 | 7 |
| 07:30 AM | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 1 | 3 | 4 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 2 |
| Total | 0 | 5 | 2 | 5 | 6 | 1 | 0 | 7 | 0 | 11 | 0 | 11 | 2 | 23 | 25 |
| 08:00 AM | 0 | 1 | 1 | 1 | 3 | 0 | 0 | 3 | 0 | 2 | 0 | 2 | 1 | 6 | 7 |
| 08:15 AM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 3 | 0 | 4 | 0 | 6 | 6 |
| 08:30 AM | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 2 | 0 | 2 | 0 | 5 | 5 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| Total | 0 | 1 | 1 | 1 | 8 | 0 | 0 | 8 | 1 | 8 | 0 | 9 | 1 | 18 | 19 |
| Grand Total | 0 | 6 | 3 | 6 | 14 | 1 | 0 | 15 | 1 | 19 | 0 | 20 | 3 | 41 | 44 |
| Apprch % | 0 | 100 | | | 93.3 | 6.7 | | | 5 | 95 | | | | | |
| Total % | 0 | 14.6 | | | 14.6 | 34.1 | 2.4 | | 36.6 | 2.4 | 46.3 | | 48.8 | 6.8 | 93.2 |

| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|--|-------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|------|--|--|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | |
| 07:15 AM | 0 | 1 | 1 | 2 | 0 | 2 | 0 | 4 | 4 | 7 | | | |
| 07:30 AM | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | | | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | | | |
| 08:00 AM | 0 | 1 | 1 | 3 | 0 | 3 | 0 | 2 | 2 | 6 | | | |
| Total Volume | 0 | 3 | 3 | 5 | 0 | 5 | 0 | 10 | 10 | 18 | | | |
| % App. Total | 0 | 100 | | 100 | 0 | | 0 | 100 | | | | | |
| PHF | .000 | .750 | .750 | .417 | .000 | .417 | .000 | .625 | .625 | .643 | | | |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 0 | 1 | 1 | 2 | 0 | 2 | 0 | 4 | 4 |
| +15 mins. | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 2 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| +45 mins. | 0 | 1 | 1 | 3 | 0 | 3 | 0 | 2 | 2 |
| Total Volume | 0 | 3 | 3 | 5 | 0 | 5 | 0 | 10 | 10 |
| % App. Total | 0 | 100 | | 100 | 0 | | 0 | 100 | |
| PHF | .000 | .750 | .750 | .417 | .000 | .417 | .000 | .625 | .625 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Tumble_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

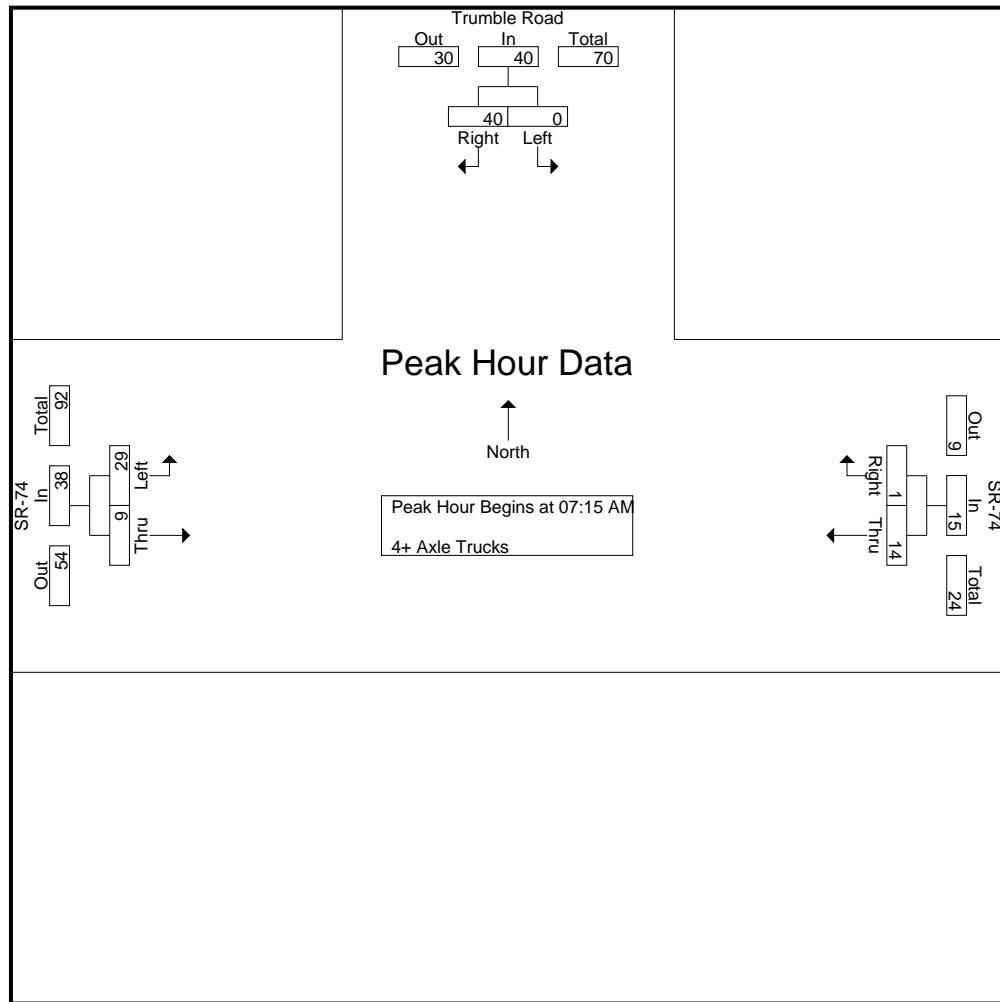
| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|-------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 07:00 AM | 2 | 4 | 1 | 6 | 2 | 0 | 0 | 2 | 4 | 5 | 0 | 9 | 1 | 17 | 18 |
| 07:15 AM | 0 | 12 | 6 | 12 | 3 | 0 | 0 | 3 | 0 | 4 | 0 | 4 | 6 | 19 | 25 |
| 07:30 AM | 0 | 8 | 5 | 8 | 2 | 1 | 0 | 3 | 9 | 2 | 0 | 11 | 5 | 22 | 27 |
| 07:45 AM | 0 | 9 | 3 | 9 | 4 | 0 | 0 | 4 | 10 | 1 | 0 | 11 | 3 | 24 | 27 |
| Total | 2 | 33 | 15 | 35 | 11 | 1 | 0 | 12 | 23 | 12 | 0 | 35 | 15 | 82 | 97 |
| 08:00 AM | 0 | 11 | 6 | 11 | 5 | 0 | 0 | 5 | 10 | 2 | 0 | 12 | 6 | 28 | 34 |
| 08:15 AM | 0 | 9 | 3 | 9 | 4 | 1 | 1 | 5 | 8 | 8 | 0 | 16 | 4 | 30 | 34 |
| 08:30 AM | 0 | 9 | 6 | 9 | 4 | 0 | 0 | 4 | 13 | 8 | 0 | 21 | 6 | 34 | 40 |
| 08:45 AM | 0 | 12 | 3 | 12 | 3 | 0 | 0 | 3 | 10 | 5 | 0 | 15 | 3 | 30 | 33 |
| Total | 0 | 41 | 18 | 41 | 16 | 1 | 1 | 17 | 41 | 23 | 0 | 64 | 19 | 122 | 141 |
| Grand Total | 2 | 74 | 33 | 76 | 27 | 2 | 1 | 29 | 64 | 35 | 0 | 99 | 34 | 204 | 238 |
| Apprch % | 2.6 | 97.4 | | | 93.1 | 6.9 | | | 64.6 | 35.4 | | | | | |
| Total % | 1 | 36.3 | | 37.3 | 13.2 | 1 | | 14.2 | 31.4 | 17.2 | | | 48.5 | 14.3 | 85.7 |

| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Left | Thru | App. Total | Int. Total | | |
|--|-------------------------|-----------|------------|----------|-----------------|------------|------|----------|-----------------|------|-----------|------------|------|------|------------|------------|--|--|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Left | Thru | App. Total | | | | | | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 0 | 12 | 12 | 3 | 0 | 3 | 0 | 4 | 4 | 0 | 4 | 4 | 19 | | | | | |
| 07:30 AM | 0 | 8 | 8 | 2 | 1 | 3 | 9 | 2 | 11 | 2 | 11 | 22 | | | | | | |
| 07:45 AM | 0 | 9 | 9 | 4 | 0 | 4 | 10 | 1 | 11 | 1 | 11 | 24 | | | | | | |
| 08:00 AM | 0 | 11 | 11 | 5 | 0 | 5 | 10 | 2 | 12 | 2 | 12 | 28 | | | | | | |
| Total Volume | 0 | 40 | 40 | 14 | 1 | 15 | 29 | 9 | 38 | | | 93 | | | | | | |
| % App. Total | 0 | 100 | | 93.3 | 6.7 | | 76.3 | 23.7 | | | | | | | | | | |
| PHF | .000 | .833 | .833 | .700 | .250 | .750 | .725 | .563 | .792 | | | .830 | | | | | | |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | 07:15 AM | | | 07:15 AM | | |
|--------------|----------|-----------|-----------|----------|----------|----------|-----------|----------|-----------|
| +0 mins. | 0 | 12 | 12 | 3 | 0 | 3 | 0 | 4 | 4 |
| +15 mins. | 0 | 8 | 8 | 2 | 1 | 3 | 9 | 2 | 11 |
| +30 mins. | 0 | 9 | 9 | 4 | 0 | 4 | 10 | 1 | 11 |
| +45 mins. | 0 | 11 | 11 | 5 | 0 | 5 | 10 | 2 | 12 |
| Total Volume | 0 | 40 | 40 | 14 | 1 | 15 | 29 | 9 | 38 |
| % App. Total | 0 | 100 | | 93.3 | 6.7 | | 76.3 | 23.7 | |
| PHF | .000 | .833 | .833 | .700 | .250 | .750 | .725 | .563 | .792 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Tumble_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

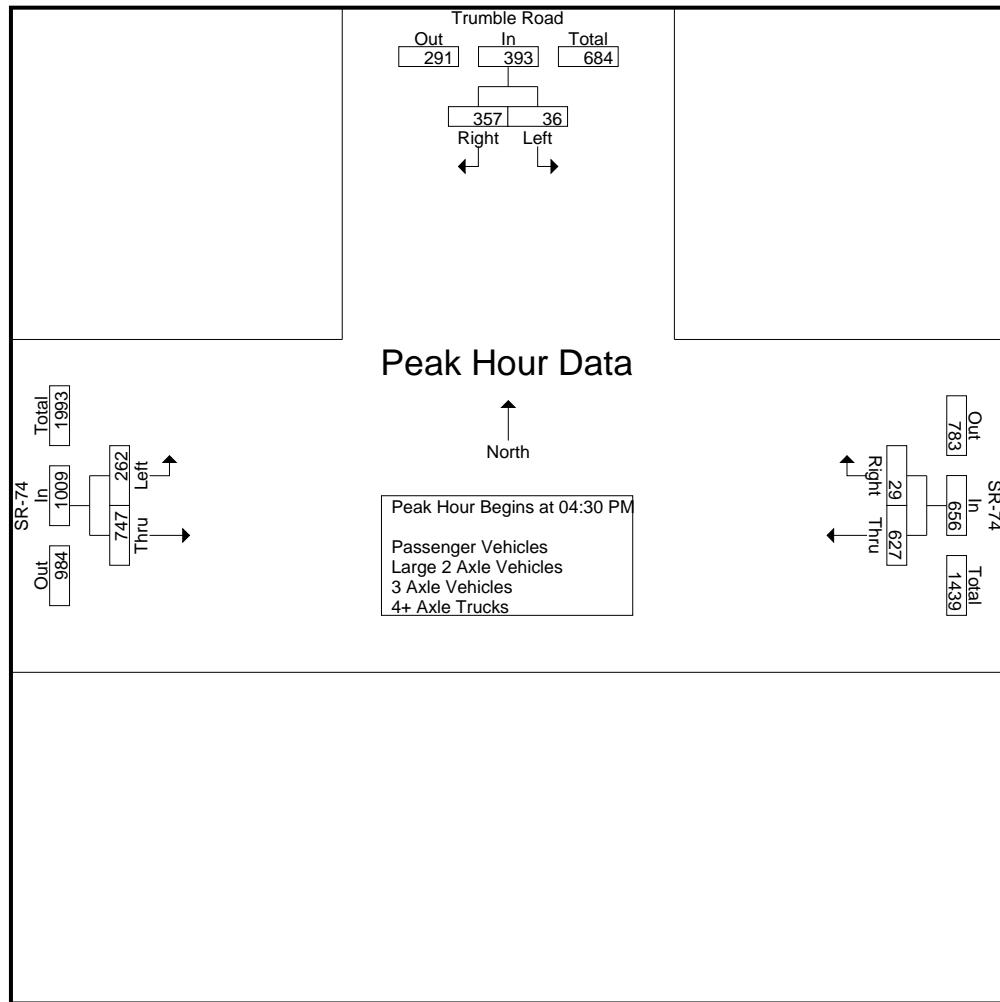
| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------------------|-------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 04:00 PM | 13 | 75 | 36 | 88 | 180 | 9 | 4 | 189 | 62 | 159 | 0 | 221 | 40 | 498 | 538 |
| 04:15 PM | 8 | 65 | 35 | 73 | 132 | 7 | 2 | 139 | 79 | 180 | 0 | 259 | 37 | 471 | 508 |
| 04:30 PM | 10 | 122 | 59 | 132 | 179 | 9 | 3 | 188 | 72 | 163 | 0 | 235 | 62 | 555 | 617 |
| 04:45 PM | 7 | 66 | 37 | 73 | 145 | 6 | 0 | 151 | 69 | 184 | 0 | 253 | 37 | 477 | 514 |
| Total | 38 | 328 | 167 | 366 | 636 | 31 | 9 | 667 | 282 | 686 | 0 | 968 | 176 | 2001 | 2177 |
| 05:00 PM | 14 | 101 | 42 | 115 | 152 | 8 | 3 | 160 | 55 | 181 | 0 | 236 | 45 | 511 | 556 |
| 05:15 PM | 5 | 68 | 39 | 73 | 151 | 6 | 0 | 157 | 66 | 219 | 0 | 285 | 39 | 515 | 554 |
| 05:30 PM | 7 | 78 | 29 | 85 | 163 | 5 | 1 | 168 | 80 | 182 | 0 | 262 | 30 | 515 | 545 |
| 05:45 PM | 2 | 48 | 32 | 50 | 144 | 10 | 0 | 154 | 89 | 149 | 0 | 238 | 32 | 442 | 474 |
| Total | 28 | 295 | 142 | 323 | 610 | 29 | 4 | 639 | 290 | 731 | 0 | 1021 | 146 | 1983 | 2129 |
| Grand Total | 66 | 623 | 309 | 689 | 1246 | 60 | 13 | 1306 | 572 | 1417 | 0 | 1989 | 322 | 3984 | 4306 |
| Apprch % | 9.6 | 90.4 | | | 95.4 | 4.6 | | | 28.8 | 71.2 | | | | | |
| Total % | 1.7 | 15.6 | | 17.3 | 31.3 | 1.5 | | 32.8 | 14.4 | 35.6 | | 49.9 | 7.5 | 92.5 | |
| Passenger Vehicles | 64 | 611 | | 980 | 1186 | 41 | | 1237 | 505 | 1362 | | 1867 | 0 | 0 | 4084 |
| % Passenger Vehicles | 97 | 98.1 | 98.7 | 98.2 | 95.2 | 68.3 | 76.9 | 93.8 | 88.3 | 96.1 | 0 | 93.9 | 0 | 0 | 94.8 |
| Large 2 Axle Vehicles | 0 | 8 | | 10 | 33 | 10 | | 45 | 55 | 38 | | 93 | 0 | 0 | 148 |
| % Large 2 Axle Vehicles | 0 | 1.3 | 0.6 | 1 | 2.6 | 16.7 | 15.4 | 3.4 | 9.6 | 2.7 | 0 | 4.7 | 0 | 0 | 3.4 |
| 3 Axle Vehicles | 2 | 3 | | 7 | 19 | 2 | | 21 | 1 | 8 | | 9 | 0 | 0 | 37 |
| % 3 Axle Vehicles | 3 | 0.5 | 0.6 | 0.7 | 1.5 | 3.3 | 0 | 1.6 | 0.2 | 0.6 | 0 | 0.5 | 0 | 0 | 0.9 |
| 4+ Axle Trucks | 0 | 1 | | 1 | 8 | 7 | | 16 | 11 | 9 | | 20 | 0 | 0 | 37 |
| % 4+ Axle Trucks | 0 | 0.2 | 0 | 0.1 | 0.6 | 11.7 | 7.7 | 1.2 | 1.9 | 0.6 | 0 | 1 | 0 | 0 | 0.9 |

| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|---|-------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|------|------|------------|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | Left | Thru | App. Total | |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | |
| 04:30 PM | 10 | 122 | 132 | 179 | 9 | 188 | 72 | 163 | 235 | | | | 555 |
| 04:45 PM | 7 | 66 | 73 | 145 | 6 | 151 | 69 | 184 | 253 | | | | 477 |
| 05:00 PM | 14 | 101 | 115 | 152 | 8 | 160 | 55 | 181 | 236 | | | | 511 |
| 05:15 PM | 5 | 68 | 73 | 151 | 6 | 157 | 66 | 219 | 285 | | | | 515 |
| Total Volume | 36 | 357 | 393 | 627 | 29 | 656 | 262 | 747 | 1009 | | | | 2058 |
| % App. Total | 9.2 | 90.8 | | 95.6 | 4.4 | | 26 | 74 | | | | | |
| PHF | .643 | .732 | .744 | .876 | .806 | .872 | .910 | .853 | .885 | | | | .927 |

Counts Unlimited, Inc.
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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:15 PM | | | 04:00 PM | | | 04:45 PM | | |
|--------------|-----------|------------|------------|------------|----------|------------|-----------|------------|------------|
| +0 mins. | 8 | 65 | 73 | 180 | 9 | 189 | 69 | 184 | 253 |
| +15 mins. | 10 | 122 | 132 | 132 | 7 | 139 | 55 | 181 | 236 |
| +30 mins. | 7 | 66 | 73 | 179 | 9 | 188 | 66 | 219 | 285 |
| +45 mins. | 14 | 101 | 115 | 145 | 6 | 151 | 80 | 182 | 262 |
| Total Volume | 39 | 354 | 393 | 636 | 31 | 667 | 270 | 766 | 1036 |
| % App. Total | 9.9 | 90.1 | | 95.4 | 4.6 | | 26.1 | 73.9 | |
| PHF | .696 | .725 | .744 | .883 | .861 | .882 | .844 | .874 | .909 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Tumble_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

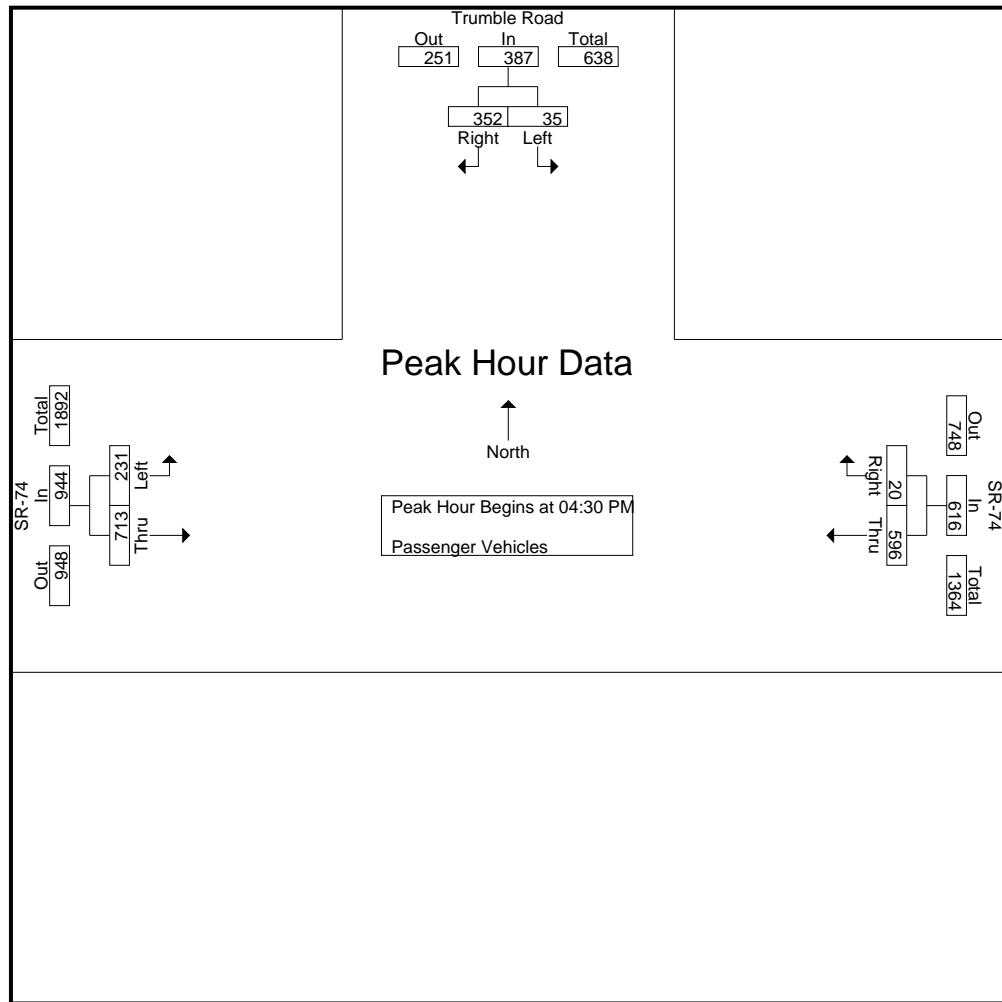
| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Exclu. Total | Inclu. Total | Int. Total |
|-------------|-------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|--------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 04:00 PM | 12 | 71 | 34 | 83 | 165 | 6 | 3 | 171 | 57 | 153 | 0 | 210 | 37 | 464 | 501 |
| 04:15 PM | 8 | 65 | 35 | 73 | 129 | 5 | 1 | 134 | 70 | 176 | 0 | 246 | 36 | 453 | 489 |
| 04:30 PM | 9 | 121 | 59 | 130 | 176 | 7 | 3 | 183 | 64 | 158 | 0 | 222 | 62 | 535 | 597 |
| 04:45 PM | 7 | 65 | 36 | 72 | 135 | 5 | 0 | 140 | 64 | 176 | 0 | 240 | 36 | 452 | 488 |
| Total | 36 | 322 | 164 | 358 | 605 | 23 | 7 | 628 | 255 | 663 | 0 | 918 | 171 | 1904 | 2075 |
| 05:00 PM | 14 | 99 | 42 | 113 | 142 | 6 | 2 | 148 | 46 | 174 | 0 | 220 | 44 | 481 | 525 |
| 05:15 PM | 5 | 67 | 38 | 72 | 143 | 2 | 0 | 145 | 57 | 205 | 0 | 262 | 38 | 479 | 517 |
| 05:30 PM | 7 | 76 | 29 | 83 | 158 | 4 | 1 | 162 | 69 | 178 | 0 | 247 | 30 | 492 | 522 |
| 05:45 PM | 2 | 47 | 32 | 49 | 138 | 6 | 0 | 144 | 78 | 142 | 0 | 220 | 32 | 413 | 445 |
| Total | 28 | 289 | 141 | 317 | 581 | 18 | 3 | 599 | 250 | 699 | 0 | 949 | 144 | 1865 | 2009 |
| Grand Total | 64 | 611 | 305 | 675 | 1186 | 41 | 10 | 1227 | 505 | 1362 | 0 | 1867 | 315 | 3769 | 4084 |
| Apprch % | 9.5 | 90.5 | | | 96.7 | 3.3 | | | 27 | 73 | | | | | |
| Total % | 1.7 | 16.2 | | 17.9 | 31.5 | 1.1 | | 32.6 | 13.4 | 36.1 | | 49.5 | 7.7 | 92.3 | |

| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|--|-------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|--|--|--|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | |
| 04:30 PM | 9 | 121 | 130 | 176 | 7 | 183 | 64 | 158 | 222 | | | | 535 |
| 04:45 PM | 7 | 65 | 72 | 135 | 5 | 140 | 64 | 176 | 240 | | | | 452 |
| 05:00 PM | 14 | 99 | 113 | 142 | 6 | 148 | 46 | 174 | 220 | | | | 481 |
| 05:15 PM | 5 | 67 | 72 | 143 | 2 | 145 | 57 | 205 | 262 | | | | 479 |
| Total Volume | 35 | 352 | 387 | 596 | 20 | 616 | 231 | 713 | 944 | | | | 1947 |
| % App. Total | 9 | 91 | | 96.8 | 3.2 | | 24.5 | 75.5 | | | | | |
| PHF | .625 | .727 | .744 | .847 | .714 | .842 | .902 | .870 | .901 | | | | .910 |

Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|-----------|------------|------------|------------|------|------------|-----------|------------|------------|
| +0 mins. | 9 | 121 | 130 | 176 | 7 | 183 | 64 | 158 | 222 |
| +15 mins. | 7 | 65 | 72 | 135 | 5 | 140 | 64 | 176 | 240 |
| +30 mins. | 14 | 99 | 113 | 142 | 6 | 148 | 46 | 174 | 220 |
| +45 mins. | 5 | 67 | 72 | 143 | 2 | 145 | 57 | 205 | 262 |
| Total Volume | 35 | 352 | 387 | 596 | 20 | 616 | 231 | 713 | 944 |
| % App. Total | 9 | 91 | | 96.8 | 3.2 | | 24.5 | 75.5 | |
| PHF | .625 | .727 | .744 | .847 | .714 | .842 | .902 | .870 | .901 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

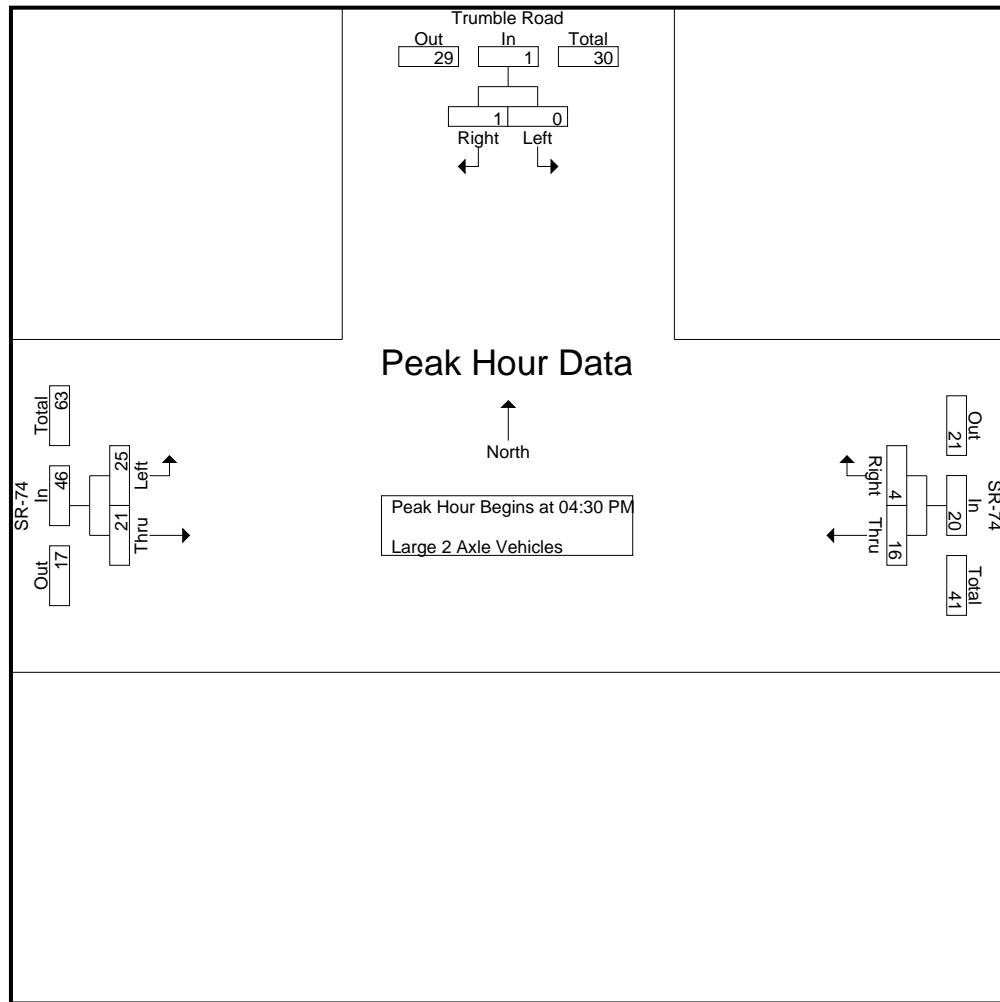
| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|-------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 04:00 PM | 0 | 4 | 2 | 4 | 9 | 2 | 1 | 11 | 5 | 6 | 0 | 11 | 3 | 26 | 29 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 0 | 10 | 0 | 10 | 10 |
| 04:30 PM | 0 | 1 | 0 | 1 | 3 | 1 | 0 | 4 | 6 | 3 | 0 | 9 | 0 | 14 | 14 |
| 04:45 PM | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 5 | 5 | 0 | 10 | 0 | 14 | 14 |
| Total | 0 | 5 | 2 | 5 | 16 | 3 | 1 | 19 | 23 | 17 | 0 | 40 | 3 | 64 | 67 |
| 05:00 PM | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 6 | 7 | 3 | 0 | 10 | 1 | 16 | 17 |
| 05:15 PM | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 6 | 7 | 10 | 0 | 17 | 0 | 23 | 23 |
| 05:30 PM | 0 | 2 | 0 | 2 | 3 | 1 | 0 | 4 | 7 | 2 | 0 | 9 | 0 | 15 | 15 |
| 05:45 PM | 0 | 1 | 0 | 1 | 5 | 3 | 0 | 8 | 11 | 6 | 0 | 17 | 0 | 26 | 26 |
| Total | 0 | 3 | 0 | 3 | 17 | 7 | 1 | 24 | 32 | 21 | 0 | 53 | 1 | 80 | 81 |
| Grand Total | 0 | 8 | 2 | 8 | 33 | 10 | 2 | 43 | 55 | 38 | 0 | 93 | 4 | 144 | 148 |
| Apprch % | 0 | 100 | | | 76.7 | 23.3 | | | 59.1 | 40.9 | | | | | |
| Total % | 0 | 5.6 | | 5.6 | 22.9 | 6.9 | | 29.9 | 38.2 | 26.4 | | 64.6 | 2.7 | 97.3 | |

| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|--|-------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|--|--|--|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | |
| 04:30 PM | 0 | 1 | 1 | 3 | 1 | 4 | 6 | 3 | 9 | | | | 14 |
| 04:45 PM | 0 | 0 | 0 | 4 | 0 | 4 | 5 | 5 | 10 | | | | 14 |
| 05:00 PM | 0 | 0 | 0 | 5 | 1 | 6 | 7 | 3 | 10 | | | | 16 |
| 05:15 PM | 0 | 0 | 0 | 4 | 2 | 6 | 7 | 10 | 17 | | | | 23 |
| Total Volume | 0 | 1 | 1 | 16 | 4 | 20 | 25 | 21 | 46 | | | | 67 |
| % App. Total | 0 | 100 | | 80 | 20 | | 54.3 | 45.7 | | | | | |
| PHF | .000 | .250 | .250 | .800 | .500 | .833 | .893 | .525 | .676 | | | | .728 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|----------|------|----------|----------|----------|----------|----------|-----------|-----------|
| +0 mins. | 0 | 1 | 1 | 3 | 1 | 4 | 6 | 3 | 9 |
| +15 mins. | 0 | 0 | 0 | 4 | 0 | 4 | 5 | 5 | 10 |
| +30 mins. | 0 | 0 | 0 | 5 | 1 | 6 | 7 | 3 | 10 |
| +45 mins. | 0 | 0 | 0 | 4 | 2 | 6 | 7 | 10 | 17 |
| Total Volume | 0 | 1 | 1 | 16 | 4 | 20 | 25 | 21 | 46 |
| % App. Total | 0 | 100 | | 80 | 20 | | 54.3 | 45.7 | |
| PHF | .000 | .250 | .250 | .800 | .500 | .833 | .893 | .525 | .676 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

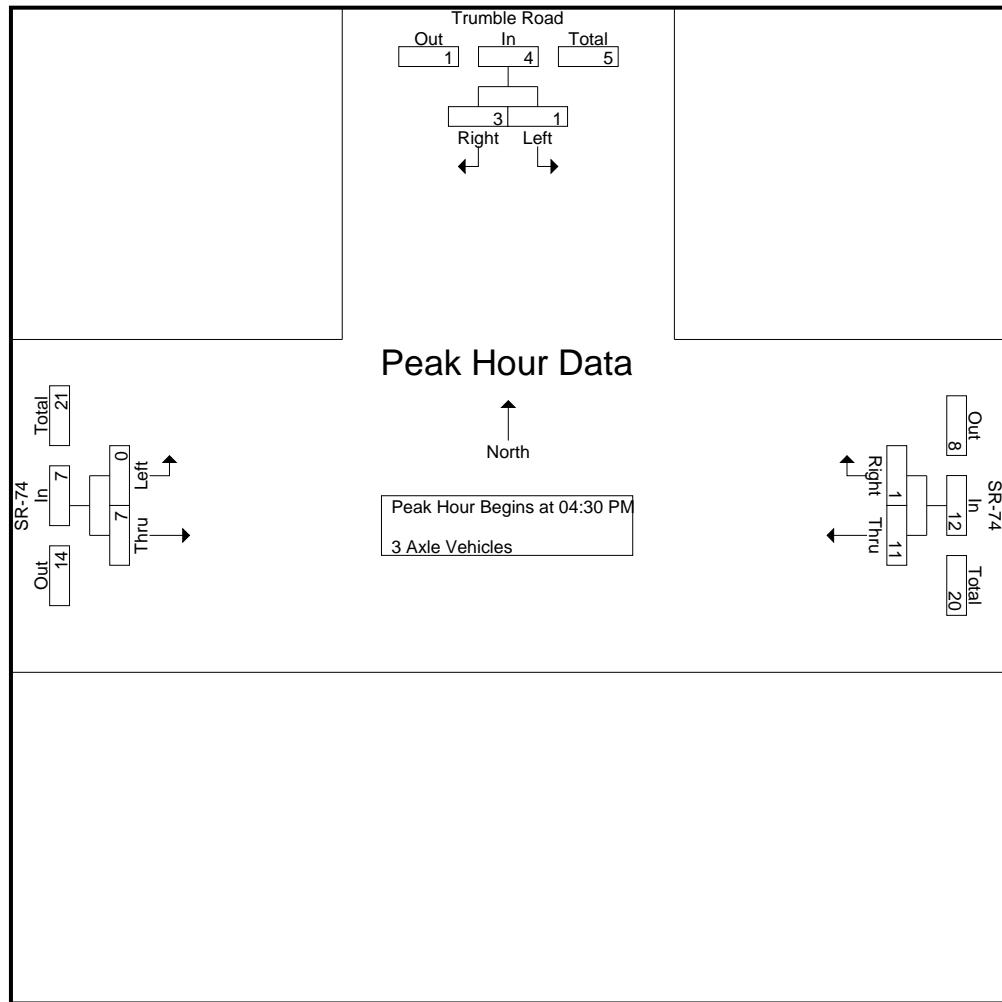
| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|-------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 04:00 PM | 1 | 0 | 0 | 1 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 04:15 PM | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 4 | 4 |
| 04:30 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 04:45 PM | 0 | 1 | 1 | 1 | 4 | 1 | 0 | 5 | 0 | 1 | 0 | 1 | 1 | 7 | 8 |
| Total | 2 | 1 | 1 | 3 | 10 | 1 | 0 | 11 | 1 | 1 | 0 | 2 | 1 | 16 | 17 |
| 05:00 PM | 0 | 1 | 0 | 1 | 4 | 0 | 0 | 4 | 0 | 3 | 0 | 3 | 0 | 8 | 8 |
| 05:15 PM | 0 | 1 | 1 | 1 | 3 | 0 | 0 | 3 | 0 | 3 | 0 | 3 | 1 | 7 | 8 |
| 05:30 PM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 3 | 3 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 0 | 2 | 1 | 2 | 9 | 1 | 0 | 10 | 0 | 7 | 0 | 7 | 1 | 19 | 20 |
| Grand Total | 2 | 3 | 2 | 5 | 19 | 2 | 0 | 21 | 1 | 8 | 0 | 9 | 2 | 35 | 37 |
| Apprch % | 40 | 60 | | | 90.5 | 9.5 | | | 11.1 | 88.9 | | | | | |
| Total % | 5.7 | 8.6 | | | 14.3 | 54.3 | 5.7 | | 60 | 2.9 | 22.9 | | 25.7 | 5.4 | 94.6 |

| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|--|-------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|---|---|---|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | |
| 04:30 PM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:45 PM | 0 | 1 | 1 | 4 | 1 | 5 | 0 | 1 | 1 | 0 | 1 | 1 | 7 |
| 05:00 PM | 0 | 1 | 1 | 4 | 0 | 4 | 0 | 3 | 3 | 0 | 3 | 3 | 8 |
| 05:15 PM | 0 | 1 | 1 | 3 | 0 | 3 | 0 | 3 | 3 | 0 | 3 | 3 | 7 |
| Total Volume | 1 | 3 | 4 | 11 | 1 | 12 | 0 | 7 | 7 | | | | 23 |
| % App. Total | 25 | 75 | | 91.7 | 8.3 | | 0 | 100 | | | | | |
| PHF | .250 | .750 | 1.00 | .688 | .250 | .600 | .000 | .583 | .583 | | | | .719 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|----------|------|-------|----------|------|------|----------|------|------|
| +0 mins. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 1 | 1 | 4 | 1 | 5 | 0 | 1 | 1 |
| +30 mins. | 0 | 1 | 1 | 4 | 0 | 4 | 0 | 3 | 3 |
| +45 mins. | 0 | 1 | 1 | 3 | 0 | 3 | 0 | 3 | 3 |
| Total Volume | 1 | 3 | 4 | 11 | 1 | 12 | 0 | 7 | 7 |
| % App. Total | 25 | 75 | | 91.7 | 8.3 | | 0 | 100 | |
| PHF | .250 | .750 | 1.000 | .688 | .250 | .600 | .000 | .583 | .583 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

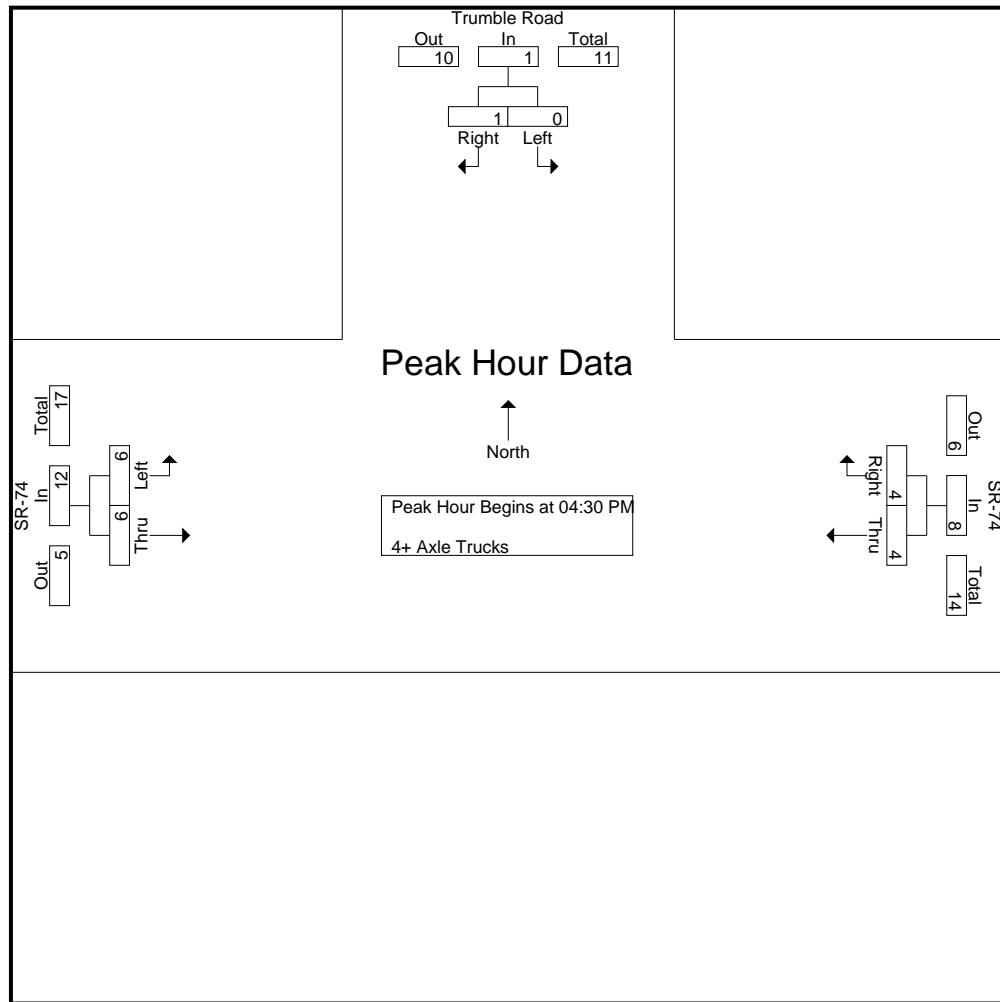
| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Excl. Total | Inclu. Total | Int. Total |
|-------------|-------------------------|-------|------|------------|-----------------|-------|------|------------|-----------------|------|------|------------|-------------|--------------|------------|
| | Left | Right | RTOR | App. Total | Thru | Right | RTOR | App. Total | Left | Thru | RTOR | App. Total | | | |
| 04:00 PM | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 1 | 1 | 0 | 2 | 1 | 4 | 5 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 0 | 4 | 0 | 5 | 5 |
| 04:45 PM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 4 | 4 |
| Total | 0 | 0 | 0 | 0 | 5 | 4 | 1 | 9 | 3 | 5 | 0 | 8 | 1 | 17 | 18 |
| 05:00 PM | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 2 | 1 | 0 | 3 | 0 | 6 | 6 |
| 05:15 PM | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 2 | 1 | 0 | 3 | 0 | 6 | 6 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 0 | 5 | 5 |
| 05:45 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 2 |
| Total | 0 | 1 | 0 | 1 | 3 | 3 | 0 | 6 | 8 | 4 | 0 | 12 | 0 | 19 | 19 |
| Grand Total | 0 | 1 | 0 | 1 | 8 | 7 | 1 | 15 | 11 | 9 | 0 | 20 | 1 | 36 | 37 |
| Apprch % | 0 | 100 | | | 53.3 | 46.7 | | | 55 | 45 | | | | | |
| Total % | 0 | 2.8 | | 2.8 | 22.2 | 19.4 | | 41.7 | 30.6 | 25 | | 55.6 | 2.7 | 97.3 | |

| Start Time | Trumble Road Southbound | | | | SR-74 Westbound | | | | SR-74 Eastbound | | | | Int. Total |
|--|-------------------------|-------|------------|------|-----------------|------------|------|------|-----------------|---|---|---|------------|
| | Left | Right | App. Total | Thru | Right | App. Total | Left | Thru | App. Total | | | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 5 |
| 04:45 PM | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 2 | 2 | 4 |
| 05:00 PM | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 6 |
| 05:15 PM | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 2 | 1 | 3 | 3 | 6 |
| Total Volume | 0 | 1 | 1 | 4 | 4 | 8 | 6 | 6 | 12 | | | | 21 |
| % App. Total | 0 | 100 | | 50 | 50 | | 50 | 50 | | | | | |
| PHF | .000 | .250 | .250 | .500 | .500 | .667 | .750 | .750 | .750 | | | | .875 |

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City of Menifee
 N/S: Trumble Road
 E/W: SR-74
 Weather: Clear

File Name : 04_MEN_Trumble_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | 04:30 PM | | | 04:30 PM | | |
|--------------|----------|------|------|----------|------|------|----------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 4 |
| +15 mins. | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 2 |
| +30 mins. | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 3 |
| +45 mins. | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 1 | 3 |
| Total Volume | 0 | 1 | 1 | 4 | 4 | 8 | 6 | 6 | 12 |
| % App. Total | 0 | 100 | | 50 | 50 | | 50 | 50 | |
| PHF | .000 | .250 | .250 | .500 | .500 | .667 | .750 | .750 | .750 |

Location: Menifee
N/S: Trumble Road
E/W: SR-74



Date: 10/5/2021
Day: Tuesday

PEDESTRIANS

| | North Leg Trumble Road Pedestrians | East Leg SR-74 Pedestrians | South Leg Dead End Pedestrians | West Leg SR-74 Pedestrians | |
|----------------|--|----------------------------------|--------------------------------------|----------------------------------|---|
| 7:00 AM | 0 | 0 | 0 | 1 | 1 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 2 | 0 | 0 | 0 | 2 |
| 7:45 AM | 0 | 0 | 0 | 1 | 1 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 2 | 0 | 0 | 2 | 4 |

| | North Leg Trumble Road Pedestrians | East Leg SR-74 Pedestrians | South Leg Dead End Pedestrians | West Leg SR-74 Pedestrians | |
|----------------|--|----------------------------------|--------------------------------------|----------------------------------|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

Location: Menifee
 N/S: Trumble Road
 E/W: SR-74



Date: 10/5/2021
 Day: Tuesday

BICYCLES

| | Southbound Trumble Road | | | Westbound SR-74 | | | Northbound Dead End | | | Eastbound SR-74 | | | |
|----------------|----------------------------|------|-------|--------------------|------|-------|------------------------|------|-------|--------------------|------|-------|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| | Southbound Trumble Road | | | Westbound SR-74 | | | Northbound Dead End | | | Eastbound SR-74 | | | |
|----------------|----------------------------|------|-------|--------------------|------|-------|------------------------|------|-------|--------------------|------|-------|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Counts Unlimited, Inc.
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 (951)268-6268

City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

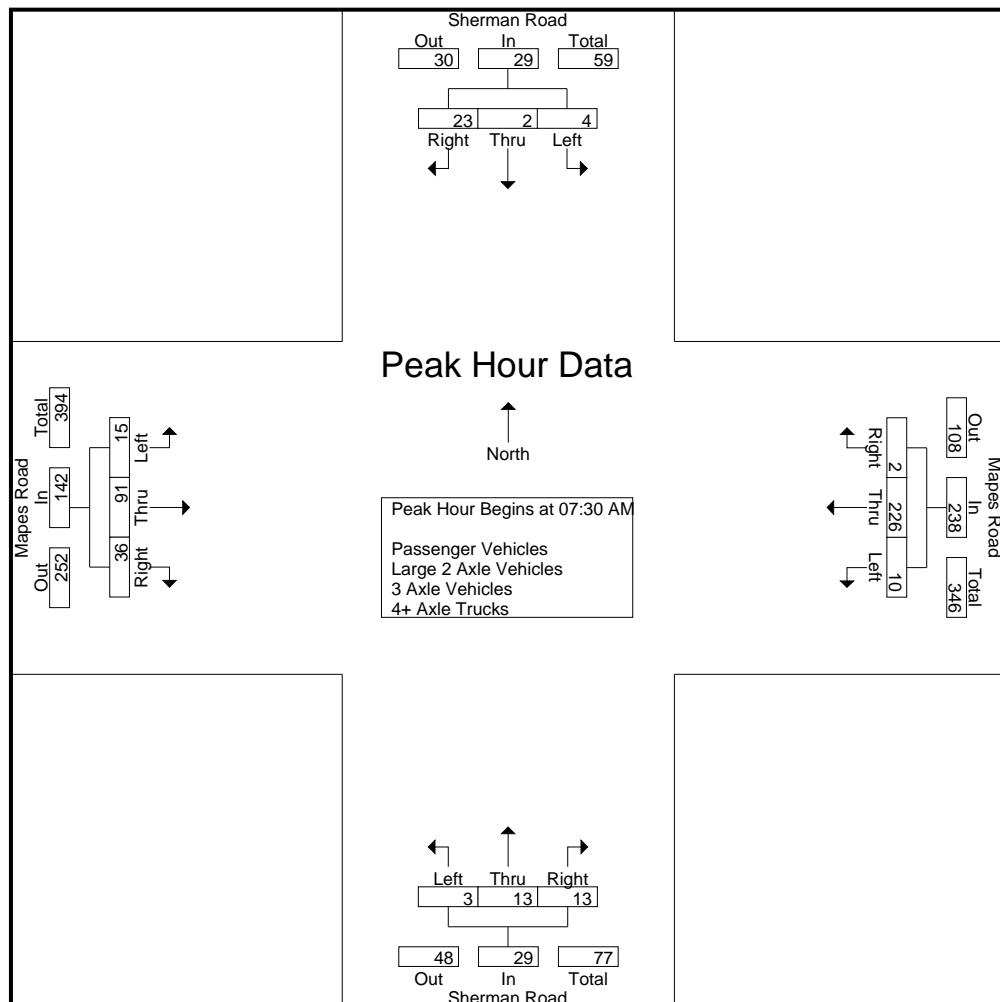
| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------------------|----------------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------------|------|-------|------------|-------------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 07:00 AM | 0 | 2 | 8 | 10 | 2 | 54 | 0 | 56 | 0 | 0 | 2 | 2 | 5 | 18 | 1 | 24 | 92 |
| 07:15 AM | 0 | 1 | 9 | 10 | 0 | 48 | 1 | 49 | 2 | 3 | 6 | 11 | 2 | 20 | 0 | 22 | 92 |
| 07:30 AM | 1 | 0 | 4 | 5 | 1 | 76 | 1 | 78 | 0 | 6 | 2 | 8 | 4 | 22 | 2 | 28 | 119 |
| 07:45 AM | 1 | 2 | 4 | 7 | 4 | 63 | 0 | 67 | 2 | 1 | 1 | 4 | 4 | 30 | 4 | 38 | 116 |
| Total | 2 | 5 | 25 | 32 | 7 | 241 | 2 | 250 | 4 | 10 | 11 | 25 | 15 | 90 | 7 | 112 | 419 |
| 08:00 AM | 1 | 0 | 3 | 4 | 1 | 39 | 1 | 41 | 1 | 4 | 5 | 10 | 2 | 17 | 11 | 30 | 85 |
| 08:15 AM | 1 | 0 | 12 | 13 | 4 | 48 | 0 | 52 | 0 | 2 | 5 | 7 | 5 | 22 | 19 | 46 | 118 |
| 08:30 AM | 0 | 0 | 3 | 3 | 3 | 40 | 0 | 43 | 1 | 0 | 0 | 1 | 2 | 19 | 15 | 36 | 83 |
| 08:45 AM | 0 | 0 | 6 | 6 | 6 | 27 | 0 | 33 | 2 | 1 | 4 | 7 | 7 | 13 | 13 | 33 | 79 |
| Total | 2 | 0 | 24 | 26 | 14 | 154 | 1 | 169 | 4 | 7 | 14 | 25 | 16 | 71 | 58 | 145 | 365 |
| Grand Total | 4 | 5 | 49 | 58 | 21 | 395 | 3 | 419 | 8 | 17 | 25 | 50 | 31 | 161 | 65 | 257 | 784 |
| Apprch % | 6.9 | 8.6 | 84.5 | | 5 | 94.3 | 0.7 | | 16 | 34 | 50 | | 12.1 | 62.6 | 25.3 | | |
| Total % | 0.5 | 0.6 | 6.2 | 7.4 | 2.7 | 50.4 | 0.4 | 53.4 | 1 | 2.2 | 3.2 | 6.4 | 4 | 20.5 | 8.3 | 32.8 | |
| Passenger Vehicles | 3 | 5 | 48 | 56 | 19 | 384 | 3 | 406 | 8 | 15 | 18 | 41 | 29 | 137 | 65 | 231 | 734 |
| % Passenger Vehicles | 75 | 100 | 98 | 96.6 | 90.5 | 97.2 | 100 | 96.9 | 100 | 88.2 | 72 | 82 | 93.5 | 85.1 | 100 | 89.9 | 93.6 |
| Large 2 Axle Vehicles | 1 | 0 | 1 | 2 | 0 | 8 | 0 | 8 | 0 | 2 | 7 | 9 | 1 | 21 | 0 | 22 | 41 |
| % Large 2 Axle Vehicles | 25 | 0 | 2 | 3.4 | 0 | 2 | 0 | 1.9 | 0 | 11.8 | 28 | 18 | 3.2 | 13 | 0 | 8.6 | 5.2 |
| 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 0.3 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |
| 4+ Axle Trucks | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 8 |
| % 4+ Axle Trucks | 0 | 0 | 0 | 0 | 9.5 | 0.5 | 0 | 1 | 0 | 0 | 0 | 0 | 3.2 | 1.9 | 0 | 1.6 | 1 |

| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|----------------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------------|------|-------|------------|-------------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | | |
| 07:30 AM | 1 | 0 | 4 | 5 | 1 | 76 | 1 | 78 | 0 | 6 | 2 | 8 | 4 | 22 | 2 | 28 | 119 | |
| 07:45 AM | 1 | 2 | 4 | 7 | 4 | 63 | 0 | 67 | 2 | 1 | 1 | 4 | 4 | 30 | 4 | 38 | 116 | |
| 08:00 AM | 1 | 0 | 3 | 4 | 1 | 39 | 1 | 41 | 1 | 4 | 5 | 10 | 2 | 17 | 11 | 30 | 85 | |
| 08:15 AM | 1 | 0 | 12 | 13 | 4 | 48 | 0 | 52 | 0 | 2 | 5 | 7 | 5 | 22 | 19 | 46 | 118 | |
| Total Volume | 4 | 2 | 23 | 29 | 10 | 226 | 2 | 238 | 3 | 13 | 13 | 29 | 15 | 91 | 36 | 142 | 438 | |
| % App. Total | 13.8 | 6.9 | 79.3 | | 4.2 | 95 | 0.8 | | 10.3 | 44.8 | 44.8 | | 10.6 | 64.1 | 25.4 | | | |
| PHF | 1.00 | .250 | .479 | .558 | .625 | .743 | .500 | .763 | .375 | .542 | .650 | .725 | .750 | .758 | .474 | .772 | .920 | |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:00 AM | | | | 07:00 AM | | | | 07:15 AM | | | | 07:45 AM | | | |
|--------------|----------|----------|----------|-----------|----------|-----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-----------|-----------|
| +0 mins. | 0 | 2 | 8 | 10 | 2 | 54 | 0 | 56 | 2 | 3 | 6 | 11 | 4 | 30 | 4 | 38 |
| +15 mins. | 0 | 1 | 9 | 10 | 0 | 48 | 1 | 49 | 0 | 6 | 2 | 8 | 2 | 17 | 11 | 30 |
| +30 mins. | 1 | 0 | 4 | 5 | 1 | 76 | 1 | 78 | 2 | 1 | 1 | 4 | 5 | 22 | 19 | 46 |
| +45 mins. | 1 | 2 | 4 | 7 | 4 | 63 | 0 | 67 | 1 | 4 | 5 | 10 | 2 | 19 | 15 | 36 |
| Total Volume | 2 | 5 | 25 | 32 | 7 | 241 | 2 | 250 | 5 | 14 | 14 | 33 | 13 | 88 | 49 | 150 |
| % App. Total | 6.2 | 15.6 | 78.1 | | 2.8 | 96.4 | 0.8 | | 15.2 | 42.4 | 42.4 | | 8.7 | 58.7 | 32.7 | |
| PHF | .500 | .625 | .694 | .800 | .438 | .793 | .500 | .801 | .625 | .583 | .583 | .750 | .650 | .733 | .645 | .815 |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

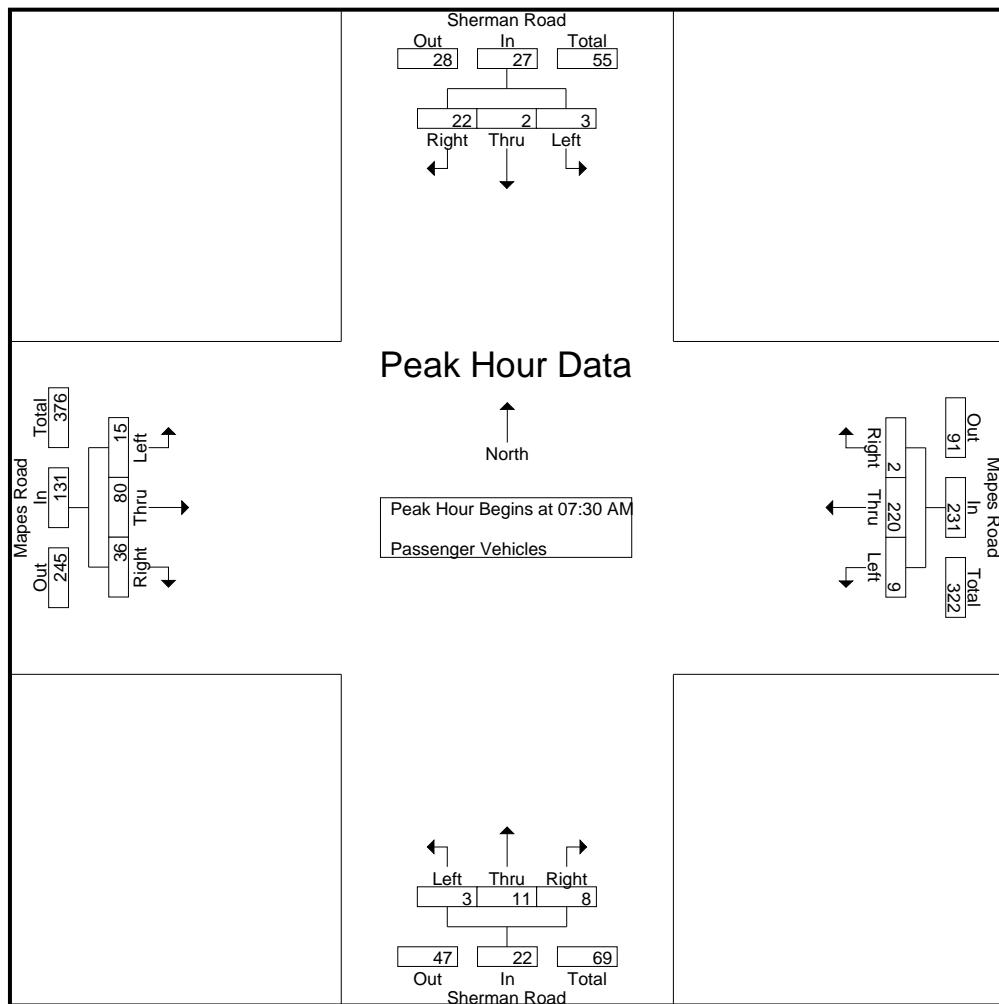
| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 07:00 AM | 0 | 2 | 8 | 10 | 1 | 52 | 0 | 53 | 0 | 0 | 2 | 2 | 4 | 13 | 1 | 18 | 83 |
| 07:15 AM | 0 | 1 | 9 | 10 | 0 | 47 | 1 | 48 | 2 | 3 | 4 | 9 | 2 | 16 | 0 | 18 | 85 |
| 07:30 AM | 1 | 0 | 4 | 5 | 1 | 75 | 1 | 77 | 0 | 5 | 1 | 6 | 4 | 19 | 2 | 25 | 113 |
| 07:45 AM | 0 | 2 | 4 | 6 | 3 | 60 | 0 | 63 | 2 | 1 | 1 | 4 | 4 | 25 | 4 | 33 | 106 |
| Total | 1 | 5 | 25 | 31 | 5 | 234 | 2 | 241 | 4 | 9 | 8 | 21 | 14 | 73 | 7 | 94 | 387 |
| 08:00 AM | 1 | 0 | 3 | 4 | 1 | 38 | 1 | 40 | 1 | 4 | 1 | 6 | 2 | 16 | 11 | 29 | 79 |
| 08:15 AM | 1 | 0 | 11 | 12 | 4 | 47 | 0 | 51 | 0 | 1 | 5 | 6 | 5 | 20 | 19 | 44 | 113 |
| 08:30 AM | 0 | 0 | 3 | 3 | 3 | 39 | 0 | 42 | 1 | 0 | 0 | 1 | 2 | 18 | 15 | 35 | 81 |
| 08:45 AM | 0 | 0 | 6 | 6 | 6 | 26 | 0 | 32 | 2 | 1 | 4 | 7 | 6 | 10 | 13 | 29 | 74 |
| Total | 2 | 0 | 23 | 25 | 14 | 150 | 1 | 165 | 4 | 6 | 10 | 20 | 15 | 64 | 58 | 137 | 347 |
| Grand Total | 3 | 5 | 48 | 56 | 19 | 384 | 3 | 406 | 8 | 15 | 18 | 41 | 29 | 137 | 65 | 231 | 734 |
| Apprch % | 5.4 | 8.9 | 85.7 | | 4.7 | 94.6 | 0.7 | | 19.5 | 36.6 | 43.9 | | 12.6 | 59.3 | 28.1 | | |
| Total % | 0.4 | 0.7 | 6.5 | 7.6 | 2.6 | 52.3 | 0.4 | 55.3 | 1.1 | 2 | 2.5 | 5.6 | 4 | 18.7 | 8.9 | 31.5 | |

| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | | |
| 07:30 AM | 1 | 0 | 4 | 5 | 1 | 75 | 1 | 77 | 0 | 5 | 1 | 6 | 4 | 19 | 2 | 25 | 113 | |
| 07:45 AM | 0 | 2 | 4 | 6 | 3 | 60 | 0 | 63 | 2 | 1 | 1 | 4 | 4 | 25 | 4 | 33 | 106 | |
| 08:00 AM | 1 | 0 | 3 | 4 | 1 | 38 | 1 | 40 | 1 | 4 | 1 | 6 | 2 | 16 | 11 | 29 | 79 | |
| 08:15 AM | 1 | 0 | 11 | 12 | 4 | 47 | 0 | 51 | 0 | 1 | 5 | 6 | 5 | 20 | 19 | 44 | 113 | |
| Total Volume | 3 | 2 | 22 | 27 | 9 | 220 | 2 | 231 | 3 | 11 | 8 | 22 | 15 | 80 | 36 | 131 | 411 | |
| % App. Total | 11.1 | 7.4 | 81.5 | | 3.9 | 95.2 | 0.9 | | 13.6 | 50 | 36.4 | | 11.5 | 61.1 | 27.5 | | | |
| PHF | .750 | .250 | .500 | .563 | .563 | .733 | .500 | .750 | .375 | .550 | .400 | .917 | .750 | .800 | .474 | .744 | .909 | |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 1 | 0 | 4 | 5 | 1 | 75 | 1 | 77 | 0 | 5 | 1 | 6 | 4 | 19 | 2 | 25 |
| +15 mins. | 0 | 2 | 4 | 6 | 3 | 60 | 0 | 63 | 2 | 1 | 1 | 4 | 4 | 25 | 4 | 33 |
| +30 mins. | 1 | 0 | 3 | 4 | 1 | 38 | 1 | 40 | 1 | 4 | 1 | 6 | 2 | 16 | 11 | 29 |
| +45 mins. | 1 | 0 | 11 | 12 | 4 | 47 | 0 | 51 | 0 | 1 | 5 | 6 | 5 | 20 | 19 | 44 |
| Total Volume | 3 | 2 | 22 | 27 | 9 | 220 | 2 | 231 | 3 | 11 | 8 | 22 | 15 | 80 | 36 | 131 |
| % App. Total | 11.1 | 7.4 | 81.5 | | 3.9 | 95.2 | 0.9 | | 13.6 | 50 | 36.4 | | 11.5 | 61.1 | 27.5 | |
| PHF | .750 | .250 | .500 | .563 | .563 | .733 | .500 | .750 | .375 | .550 | .400 | .917 | .750 | .800 | .474 | .744 |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

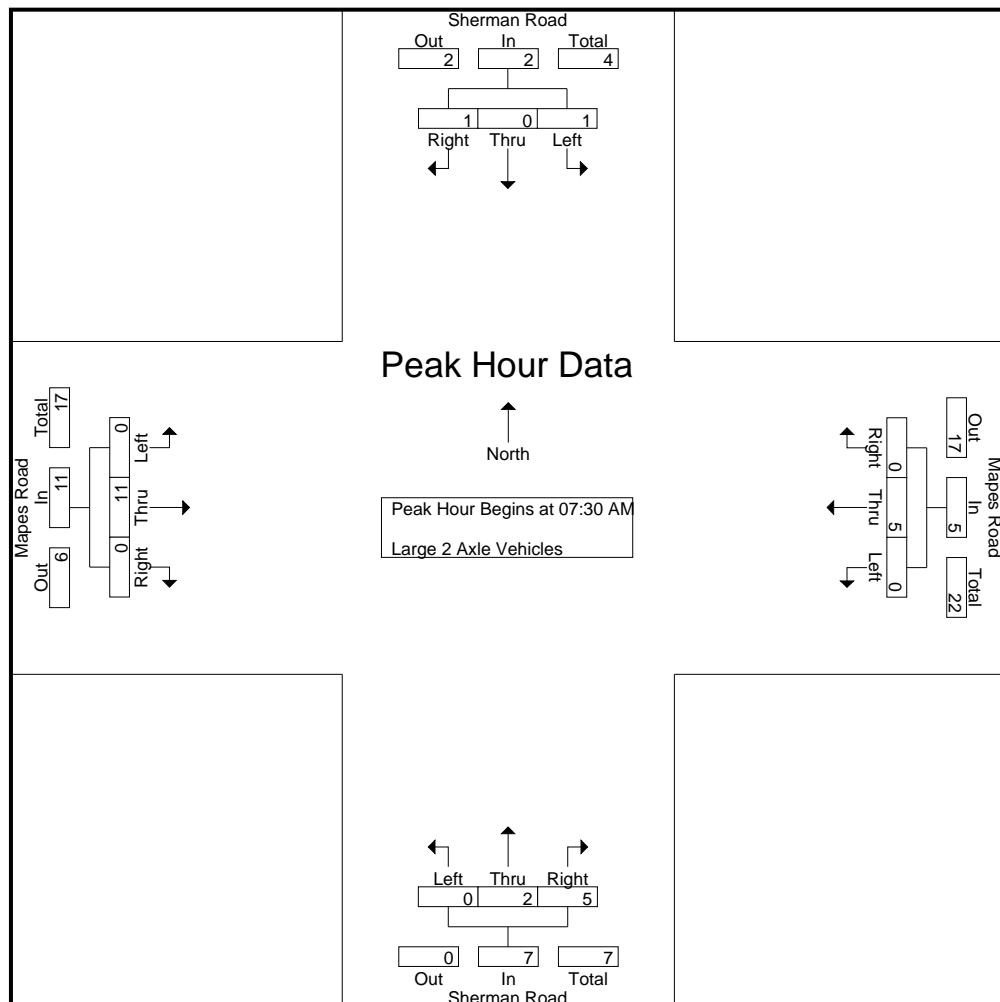
| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 4 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 4 | 0 | 4 | 7 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 3 | 6 |
| 07:45 AM | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 8 |
| Total | 1 | 0 | 0 | 1 | 0 | 5 | 0 | 5 | 0 | 1 | 3 | 4 | 0 | 15 | 0 | 15 | 25 |
| | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 4 | 4 | 0 | 1 | 0 | 1 | 6 |
| 08:15 AM | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 5 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 4 |
| Total | 0 | 0 | 1 | 1 | 0 | 3 | 0 | 3 | 0 | 1 | 4 | 5 | 1 | 6 | 0 | 7 | 16 |
| Grand Total | 1 | 0 | 1 | 2 | 0 | 8 | 0 | 8 | 0 | 2 | 7 | 9 | 1 | 21 | 0 | 22 | 41 |
| Apprch % | 50 | 0 | 50 | | 0 | 100 | 0 | | 0 | 22.2 | 77.8 | | 4.5 | 95.5 | 0 | | |
| Total % | 2.4 | 0 | 2.4 | 4.9 | 0 | 19.5 | 0 | 19.5 | 0 | 4.9 | 17.1 | 22 | 2.4 | 51.2 | 0 | 53.7 | |

| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 3 | 6 | |
| 07:45 AM | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 8 | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 4 | 4 | 0 | 1 | 0 | 1 | 6 | |
| 08:15 AM | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 5 | |
| Total Volume | 1 | 0 | 1 | 2 | 0 | 5 | 0 | 5 | 0 | 2 | 5 | 7 | 0 | 11 | 0 | 11 | 25 | |
| % App. Total | 50 | 0 | 50 | | 0 | 100 | 0 | | 0 | 28.6 | 71.4 | | 0 | 100 | 0 | | | |
| PHF | .250 | .000 | .250 | .500 | .000 | .625 | .000 | .625 | .000 | .500 | .313 | .438 | .000 | .550 | .000 | .550 | .781 | |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|---|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 3 | |
| +15 mins. | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 4 | 4 | 0 | 1 | 0 | 1 | |
| +45 mins. | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | |
| Total Volume | 1 | 0 | 1 | 2 | 0 | 5 | 0 | 5 | 0 | 2 | 5 | 7 | 0 | 11 | 0 | 11 | |
| % App. Total | 50 | 0 | 50 | | 0 | 100 | 0 | | 0 | 28.6 | 71.4 | | 0 | 100 | 0 | | |
| PHF | .250 | .000 | .250 | .500 | .000 | .625 | .000 | .625 | .000 | .500 | .313 | .438 | .000 | .550 | .000 | .550 | |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

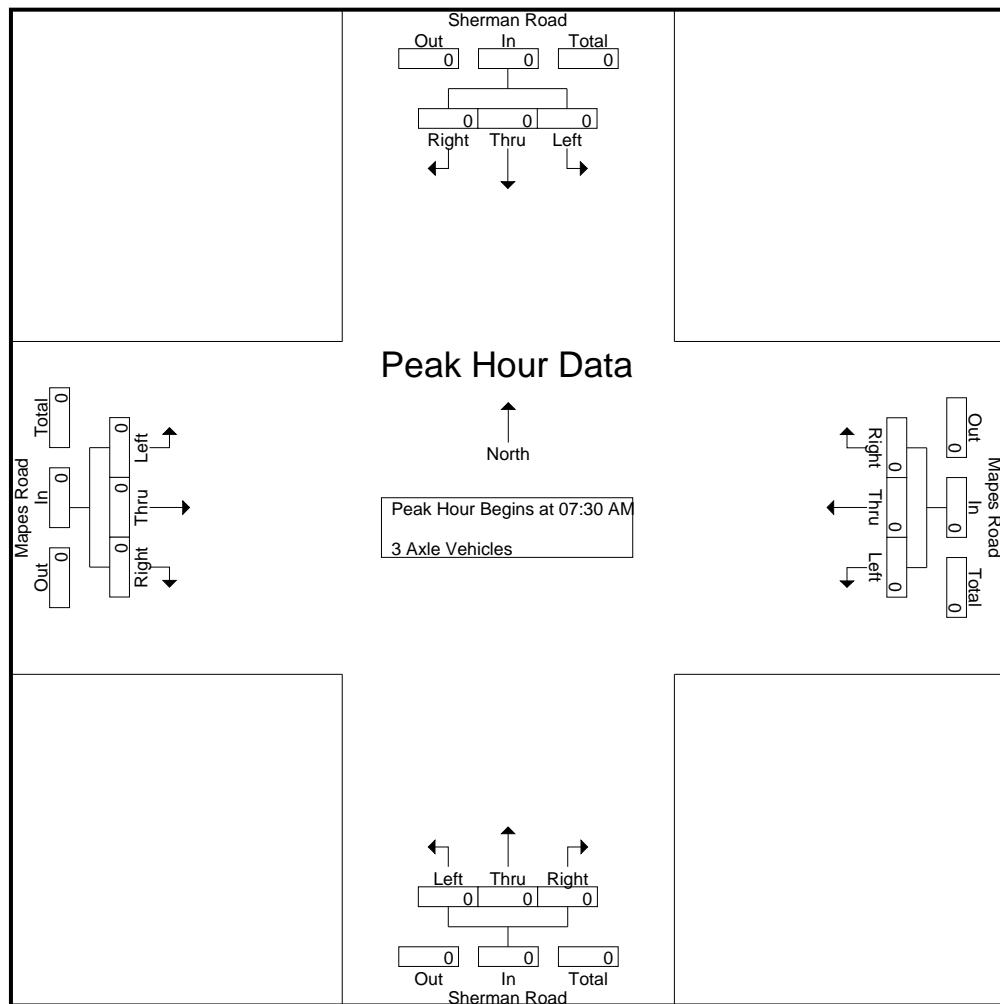
| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Apprch % | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total % | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|--|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

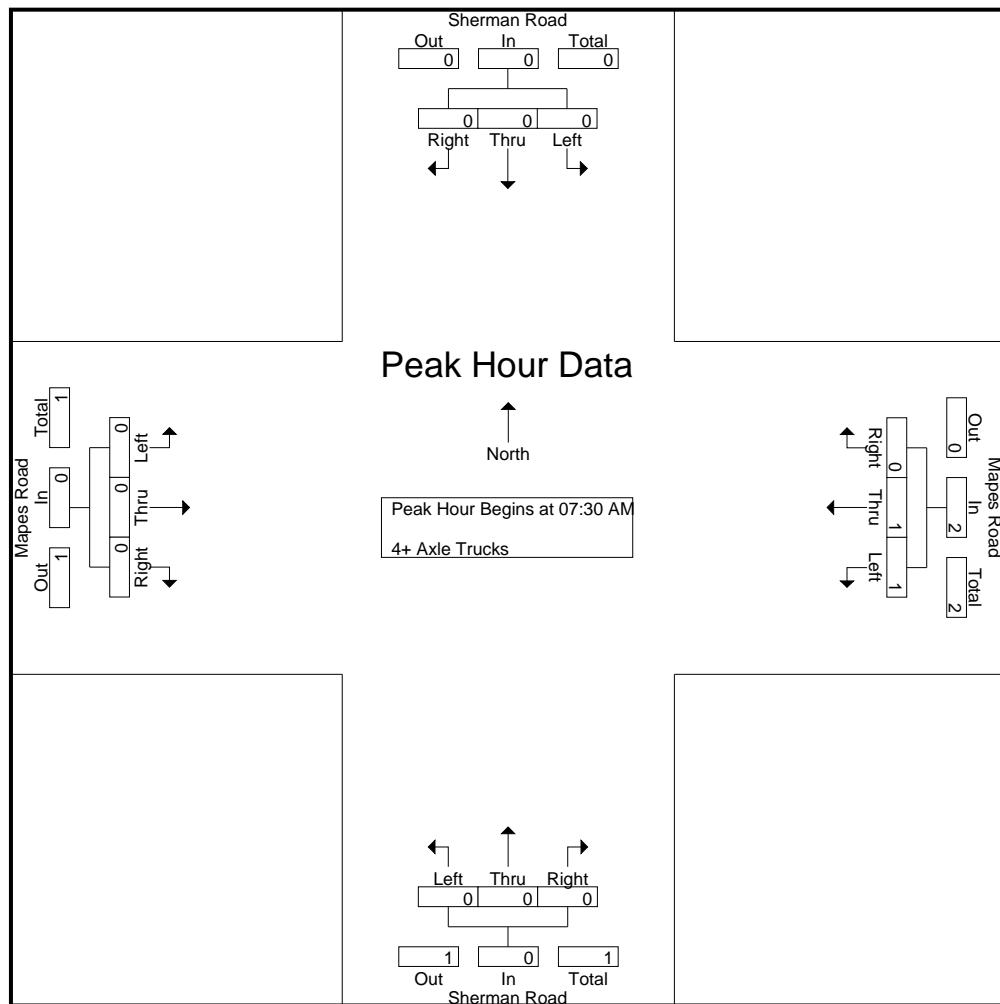
| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 07:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 4 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 6 |
| | | | | | | | | | | | | | | | | | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| Grand Total | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 8 |
| Apprch % | 0 | 0 | 0 | 50 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 75 | 0 | 0 | 0 |
| Total % | 0 | 0 | 0 | 0 | 25 | 25 | 0 | 50 | 0 | 0 | 0 | 0 | 12.5 | 37.5 | 0 | 50 | 50 |

| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 07:45 AM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total Volume | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |
| % App. Total | 0 | 0 | 0 | 50 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .250 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .250 | |

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 (951)268-6268

City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % App. Total | 0 | 0 | 0 | 0 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | .000 | .000 | .000 | .000 | .250 | .250 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

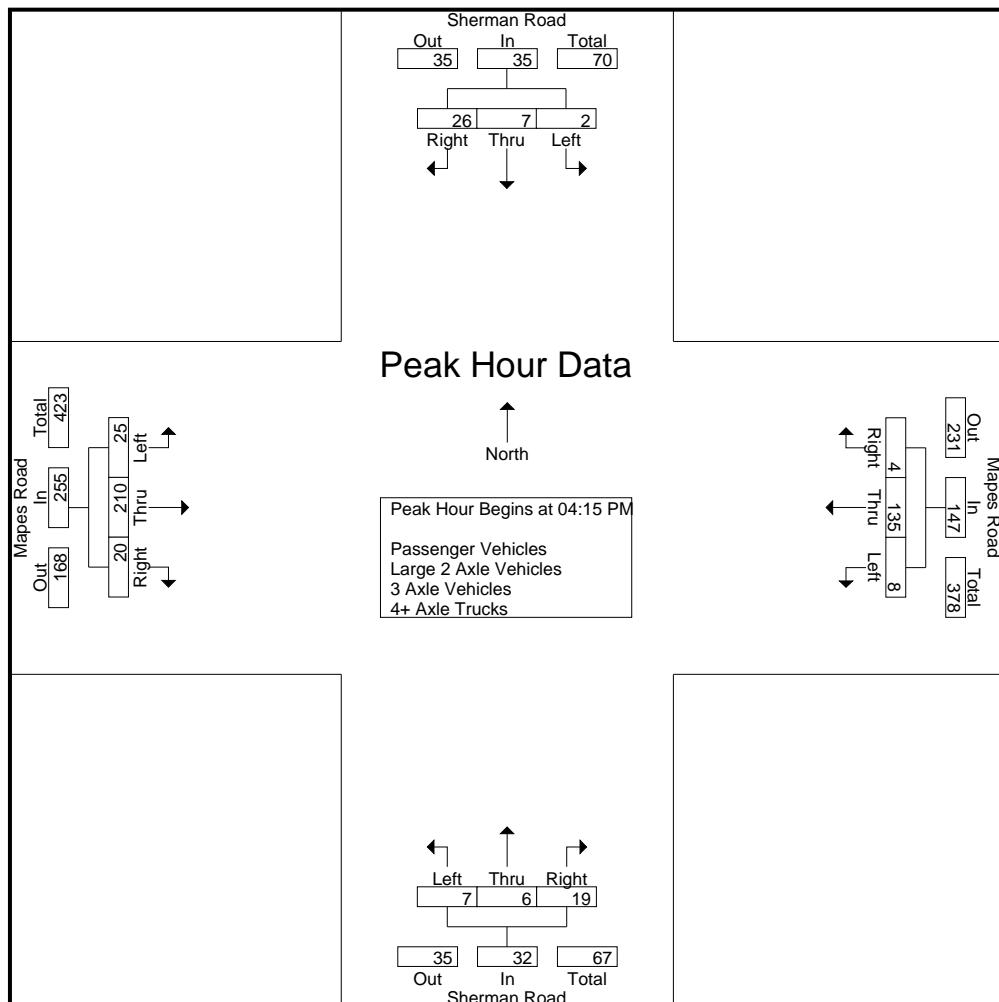
| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 04:00 PM | 1 | 2 | 3 | 6 | 2 | 27 | 0 | 29 | 1 | 2 | 3 | 6 | 8 | 55 | 2 | 65 | 106 |
| 04:15 PM | 0 | 3 | 6 | 9 | 1 | 29 | 0 | 30 | 1 | 3 | 7 | 11 | 7 | 52 | 2 | 61 | 111 |
| 04:30 PM | 2 | 2 | 6 | 10 | 4 | 39 | 1 | 44 | 4 | 0 | 3 | 7 | 8 | 62 | 5 | 75 | 136 |
| 04:45 PM | 0 | 2 | 9 | 11 | 3 | 32 | 0 | 35 | 2 | 2 | 3 | 7 | 7 | 42 | 7 | 56 | 109 |
| Total | 3 | 9 | 24 | 36 | 10 | 127 | 1 | 138 | 8 | 7 | 16 | 31 | 30 | 211 | 16 | 257 | 462 |
| 05:00 PM | 0 | 0 | 5 | 5 | 0 | 35 | 3 | 38 | 0 | 1 | 6 | 7 | 3 | 54 | 6 | 63 | 113 |
| 05:15 PM | 0 | 2 | 4 | 6 | 2 | 35 | 0 | 37 | 0 | 0 | 3 | 3 | 8 | 34 | 5 | 47 | 93 |
| 05:30 PM | 3 | 2 | 9 | 14 | 3 | 25 | 0 | 28 | 4 | 0 | 2 | 6 | 11 | 29 | 4 | 44 | 92 |
| 05:45 PM | 0 | 2 | 9 | 11 | 2 | 30 | 0 | 32 | 0 | 2 | 5 | 7 | 6 | 40 | 5 | 51 | 101 |
| Total | 3 | 6 | 27 | 36 | 7 | 125 | 3 | 135 | 4 | 3 | 16 | 23 | 28 | 157 | 20 | 205 | 399 |
| Grand Total | 6 | 15 | 51 | 72 | 17 | 252 | 4 | 273 | 12 | 10 | 32 | 54 | 58 | 368 | 36 | 462 | 861 |
| Apprch % | 8.3 | 20.8 | 70.8 | | 6.2 | 92.3 | 1.5 | | 22.2 | 18.5 | 59.3 | | 12.6 | 79.7 | 7.8 | | |
| Total % | 0.7 | 1.7 | 5.9 | 8.4 | 2 | 29.3 | 0.5 | 31.7 | 1.4 | 1.2 | 3.7 | 6.3 | 6.7 | 42.7 | 4.2 | | 53.7 |
| Passenger Vehicles | 6 | 15 | 51 | 72 | 14 | 243 | 4 | 261 | 12 | 10 | 31 | 53 | 57 | 352 | 35 | 444 | 830 |
| % Passenger Vehicles | 100 | 100 | 100 | 100 | 82.4 | 96.4 | 100 | 95.6 | 100 | 100 | 96.9 | 98.1 | 98.3 | 95.7 | 97.2 | 96.1 | 96.4 |
| Large 2 Axle Vehicles | 0 | 0 | 0 | 0 | 2 | 5 | 0 | 7 | 0 | 0 | 1 | 1 | 1 | 11 | 0 | 12 | 20 |
| % Large 2 Axle Vehicles | 0 | 0 | 0 | 0 | 11.8 | 2 | 0 | 2.6 | 0 | 0 | 3.1 | 1.9 | 1.7 | 3 | 0 | 2.6 | 2.3 |
| 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 7 |
| % 3 Axle Vehicles | 0 | 0 | 0 | 0 | 0 | 1.6 | 0 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0.8 | 0 | 0.6 | 0.8 |
| 4+ Axle Trucks | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 4 |
| % 4+ Axle Trucks | 0 | 0 | 0 | 0 | 5.9 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.5 | 2.8 | 0.6 | 0.5 |

| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:15 PM | | | | | | | | | | | | | | | | | | |
| 04:15 PM | 0 | 3 | 6 | 9 | 1 | 29 | 0 | 30 | 1 | 3 | 7 | 11 | 7 | 52 | 2 | 61 | 111 | |
| 04:30 PM | 2 | 2 | 6 | 10 | 4 | 39 | 1 | 44 | 4 | 0 | 3 | 7 | 8 | 62 | 5 | 75 | 136 | |
| 04:45 PM | 0 | 2 | 9 | 11 | 3 | 32 | 0 | 35 | 2 | 2 | 3 | 7 | 7 | 42 | 7 | 56 | 109 | |
| 05:00 PM | 0 | 0 | 5 | 5 | 0 | 35 | 3 | 38 | 0 | 1 | 6 | 7 | 3 | 54 | 6 | 63 | 113 | |
| Total Volume | 2 | 7 | 26 | 35 | 8 | 135 | 4 | 147 | 7 | 6 | 19 | 32 | 25 | 210 | 20 | 255 | 469 | |
| % App. Total | 5.7 | 20 | 74.3 | | 5.4 | 91.8 | 2.7 | | 21.9 | 18.8 | 59.4 | | 9.8 | 82.4 | 7.8 | | | |
| PHF | .250 | .583 | .722 | .795 | .500 | .865 | .333 | .835 | .438 | .500 | .679 | .727 | .781 | .847 | .714 | .850 | .862 | |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:00 PM | | | | 04:30 PM | | | | 04:15 PM | | | | 04:00 PM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 1 | 2 | 3 | 6 | 4 | 39 | 1 | 44 | 1 | 3 | 7 | 11 | 8 | 55 | 2 | 65 |
| +15 mins. | 0 | 3 | 6 | 9 | 3 | 32 | 0 | 35 | 4 | 0 | 3 | 7 | 7 | 52 | 2 | 61 |
| +30 mins. | 2 | 2 | 6 | 10 | 0 | 35 | 3 | 38 | 2 | 2 | 3 | 7 | 8 | 62 | 5 | 75 |
| +45 mins. | 0 | 2 | 9 | 11 | 2 | 35 | 0 | 37 | 0 | 1 | 6 | 7 | 7 | 42 | 7 | 56 |
| Total Volume | 3 | 9 | 24 | 36 | 9 | 141 | 4 | 154 | 7 | 6 | 19 | 32 | 30 | 211 | 16 | 257 |
| % App. Total | 8.3 | 25 | 66.7 | | 5.8 | 91.6 | 2.6 | | 21.9 | 18.8 | 59.4 | | 11.7 | 82.1 | 6.2 | |
| PHF | .375 | .750 | .667 | .818 | .563 | .904 | .333 | .875 | .438 | .500 | .679 | .727 | .938 | .851 | .571 | .857 |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

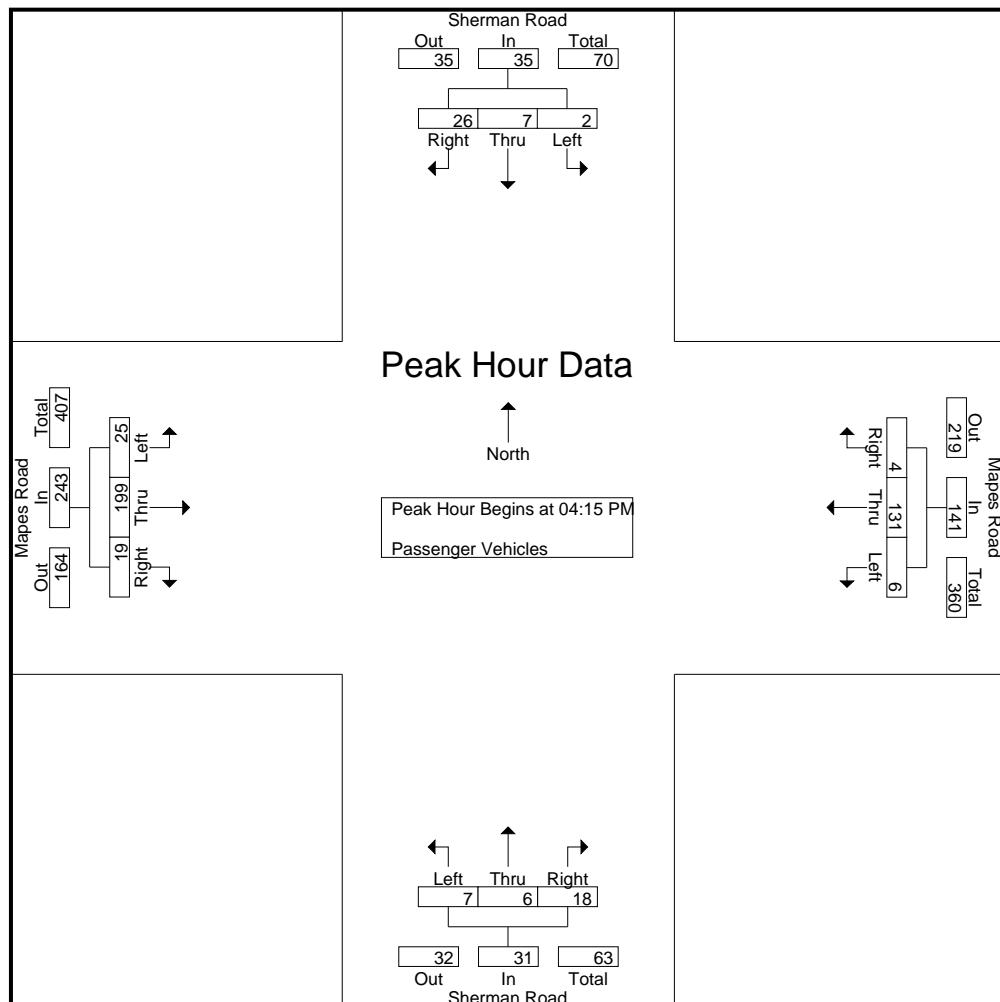
| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 04:00 PM | 1 | 2 | 3 | 6 | 2 | 24 | 0 | 26 | 1 | 2 | 3 | 6 | 7 | 55 | 2 | 64 | 102 |
| 04:15 PM | 0 | 3 | 6 | 9 | 0 | 28 | 0 | 28 | 1 | 3 | 7 | 11 | 7 | 49 | 2 | 58 | 106 |
| 04:30 PM | 2 | 2 | 6 | 10 | 3 | 38 | 1 | 42 | 4 | 0 | 3 | 7 | 8 | 58 | 5 | 71 | 130 |
| 04:45 PM | 0 | 2 | 9 | 11 | 3 | 31 | 0 | 34 | 2 | 2 | 2 | 6 | 7 | 40 | 7 | 54 | 105 |
| Total | 3 | 9 | 24 | 36 | 8 | 121 | 1 | 130 | 8 | 7 | 15 | 30 | 29 | 202 | 16 | 247 | 443 |
| 05:00 PM | 0 | 0 | 5 | 5 | 0 | 34 | 3 | 37 | 0 | 1 | 6 | 7 | 3 | 52 | 5 | 60 | 109 |
| 05:15 PM | 0 | 2 | 4 | 6 | 2 | 34 | 0 | 36 | 0 | 0 | 3 | 3 | 8 | 31 | 5 | 44 | 89 |
| 05:30 PM | 3 | 2 | 9 | 14 | 2 | 24 | 0 | 26 | 4 | 0 | 2 | 6 | 11 | 28 | 4 | 43 | 89 |
| 05:45 PM | 0 | 2 | 9 | 11 | 2 | 30 | 0 | 32 | 0 | 2 | 5 | 7 | 6 | 39 | 5 | 50 | 100 |
| Total | 3 | 6 | 27 | 36 | 6 | 122 | 3 | 131 | 4 | 3 | 16 | 23 | 28 | 150 | 19 | 197 | 387 |
| Grand Total | 6 | 15 | 51 | 72 | 14 | 243 | 4 | 261 | 12 | 10 | 31 | 53 | 57 | 352 | 35 | 444 | 830 |
| Apprch % | 8.3 | 20.8 | 70.8 | | 5.4 | 93.1 | 1.5 | | 22.6 | 18.9 | 58.5 | | 12.8 | 79.3 | 7.9 | | |
| Total % | 0.7 | 1.8 | 6.1 | 8.7 | 1.7 | 29.3 | 0.5 | 31.4 | 1.4 | 1.2 | 3.7 | 6.4 | 6.9 | 42.4 | 4.2 | 53.5 | |

| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|----------|----------|------------|----------------------|-----------|----------|------------|-------------------------|----------|-------|------------|----------------------|-----------|----------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:15 PM | | | | | | | | | | | | | | | | | | |
| 04:15 PM | 0 | 3 | 6 | 9 | 0 | 28 | 0 | 28 | 1 | 3 | 7 | 11 | 7 | 49 | 2 | 58 | 106 | |
| 04:30 PM | 2 | 2 | 6 | 10 | 3 | 38 | 1 | 42 | 4 | 0 | 3 | 7 | 8 | 58 | 5 | 71 | 130 | |
| 04:45 PM | 0 | 2 | 9 | 11 | 3 | 31 | 0 | 34 | 2 | 2 | 2 | 6 | 7 | 40 | 7 | 54 | 105 | |
| 05:00 PM | 0 | 0 | 5 | 5 | 0 | 34 | 3 | 37 | 0 | 1 | 6 | 7 | 3 | 52 | 5 | 60 | 109 | |
| Total Volume | 2 | 7 | 26 | 35 | 6 | 131 | 4 | 141 | 7 | 6 | 18 | 31 | 25 | 199 | 19 | 243 | 450 | |
| % App. Total | 5.7 | 20 | 74.3 | | 4.3 | 92.9 | 2.8 | | 22.6 | 19.4 | 58.1 | | 10.3 | 81.9 | 7.8 | | | |
| PHF | .250 | .583 | .722 | .795 | .500 | .862 | .333 | .839 | .438 | .500 | .643 | .705 | .781 | .858 | .679 | .856 | .865 | |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:15 PM | | | | 04:15 PM | | | | 04:15 PM | | | | 04:15 PM | | | |
|--------------|----------|----------|----------|-----------|----------|-----------|----------|-----------|----------|----------|------|-----------|----------|-----------|------|-----------|
| +0 mins. | 0 | 3 | 6 | 9 | 0 | 28 | 0 | 28 | 1 | 3 | 7 | 11 | 7 | 49 | 2 | 58 |
| +15 mins. | 2 | 2 | 6 | 10 | 3 | 38 | 1 | 42 | 4 | 0 | 3 | 7 | 8 | 58 | 5 | 71 |
| +30 mins. | 0 | 2 | 9 | 11 | 3 | 31 | 0 | 34 | 2 | 2 | 2 | 6 | 7 | 40 | 7 | 54 |
| +45 mins. | 0 | 0 | 5 | 5 | 0 | 34 | 3 | 37 | 0 | 1 | 6 | 7 | 3 | 52 | 5 | 60 |
| Total Volume | 2 | 7 | 26 | 35 | 6 | 131 | 4 | 141 | 7 | 6 | 18 | 31 | 25 | 199 | 19 | 243 |
| % App. Total | 5.7 | 20 | 74.3 | | 4.3 | 92.9 | 2.8 | | 22.6 | 19.4 | 58.1 | | 10.3 | 81.9 | 7.8 | |
| PHF | .250 | .583 | .722 | .795 | .500 | .862 | .333 | .839 | .438 | .500 | .643 | .705 | .781 | .858 | .679 | .856 |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

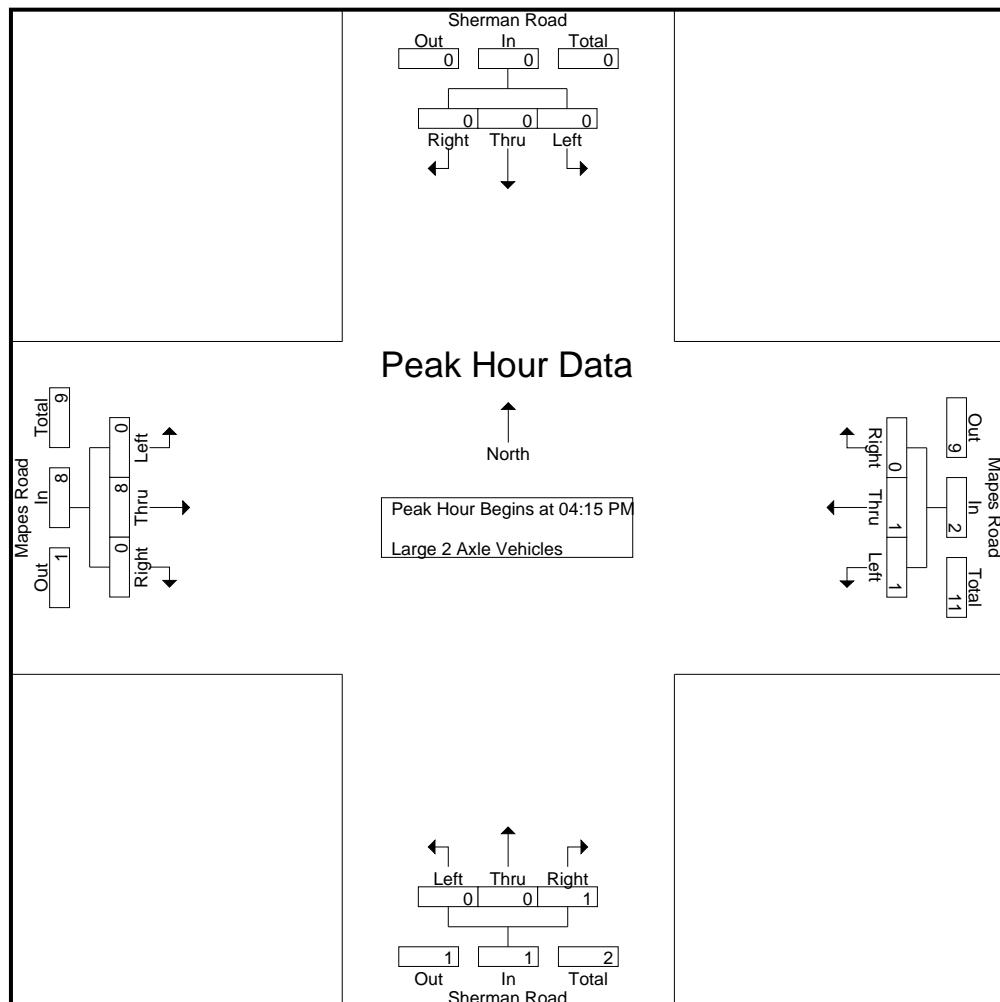
| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 04:30 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 5 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 |
| Total | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 5 | 0 | 0 | 1 | 1 | 1 | 6 | 0 | 7 | 13 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 05:30 PM | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| Total | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 7 |
| Grand Total | 0 | 0 | 0 | 0 | 2 | 5 | 0 | 7 | 0 | 0 | 1 | 1 | 1 | 11 | 0 | 12 | 20 |
| Apprch % | 0 | 0 | 0 | | 28.6 | 71.4 | 0 | | 0 | 0 | 100 | | 8.3 | 91.7 | 0 | | |
| Total % | 0 | 0 | 0 | 0 | 10 | 25 | 0 | 35 | 0 | 0 | 5 | 5 | 5 | 55 | 0 | | 60 |

| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:15 PM | | | | | | | | | | | | | | | | | | |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | |
| 04:30 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 5 | |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | |
| Total Volume | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 8 | 0 | 8 | 11 | |
| % App. Total | 0 | 0 | 0 | | 50 | 50 | 0 | | 0 | 0 | 100 | | 0 | 100 | 0 | | | |
| PHF | .000 | .000 | .000 | .000 | .250 | .250 | .000 | .500 | .000 | .000 | .250 | .250 | .000 | .500 | .000 | .500 | .550 | |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:15 PM | | | | 04:15 PM | | | | 04:15 PM | | | | 04:15 PM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| +15 mins. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| Total Volume | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 8 | 0 | 8 |
| % App. Total | 0 | 0 | 0 | 0 | 50 | 50 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 |
| PHF | .000 | .000 | .000 | .000 | .250 | .250 | .000 | .500 | .000 | .000 | .250 | .250 | .000 | .500 | .000 | .500 |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

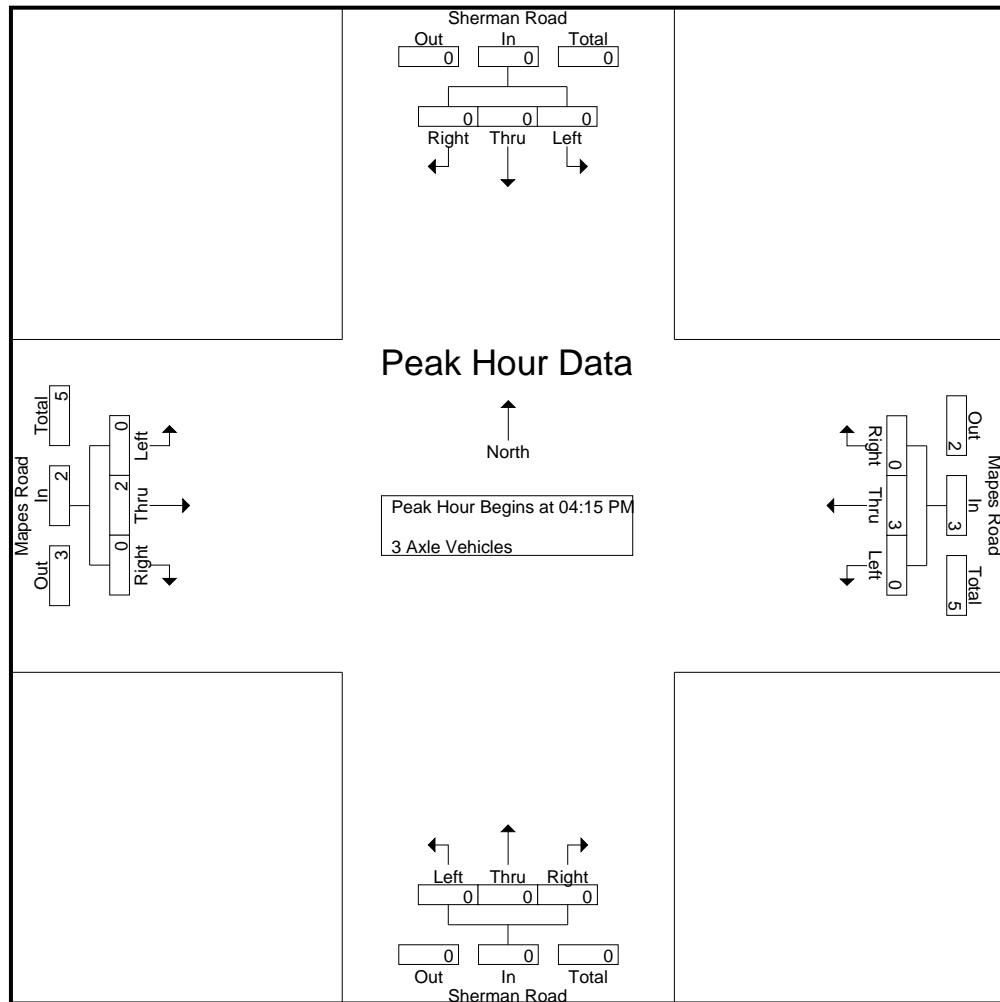
| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| Total | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 4 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 7 |
| Apprch % | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 |
| Total % | 0 | 0 | 0 | 0 | 0 | 57.1 | 0 | 57.1 | 0 | 0 | 0 | 0 | 0 | 42.9 | 0 | 42.9 | |

| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:15 PM | | | | | | | | | | | | | | | | | | |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 5 | |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .750 | .000 | .750 | .000 | .000 | .000 | .000 | .000 | .500 | .000 | .500 | .625 | |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:15 PM | | | | 04:15 PM | | | | 04:15 PM | | | | 04:15 PM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 |
| PHF | .000 | .000 | .000 | .000 | .000 | .750 | .000 | .750 | .000 | .000 | .000 | .000 | .000 | .500 | .000 | .500 |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

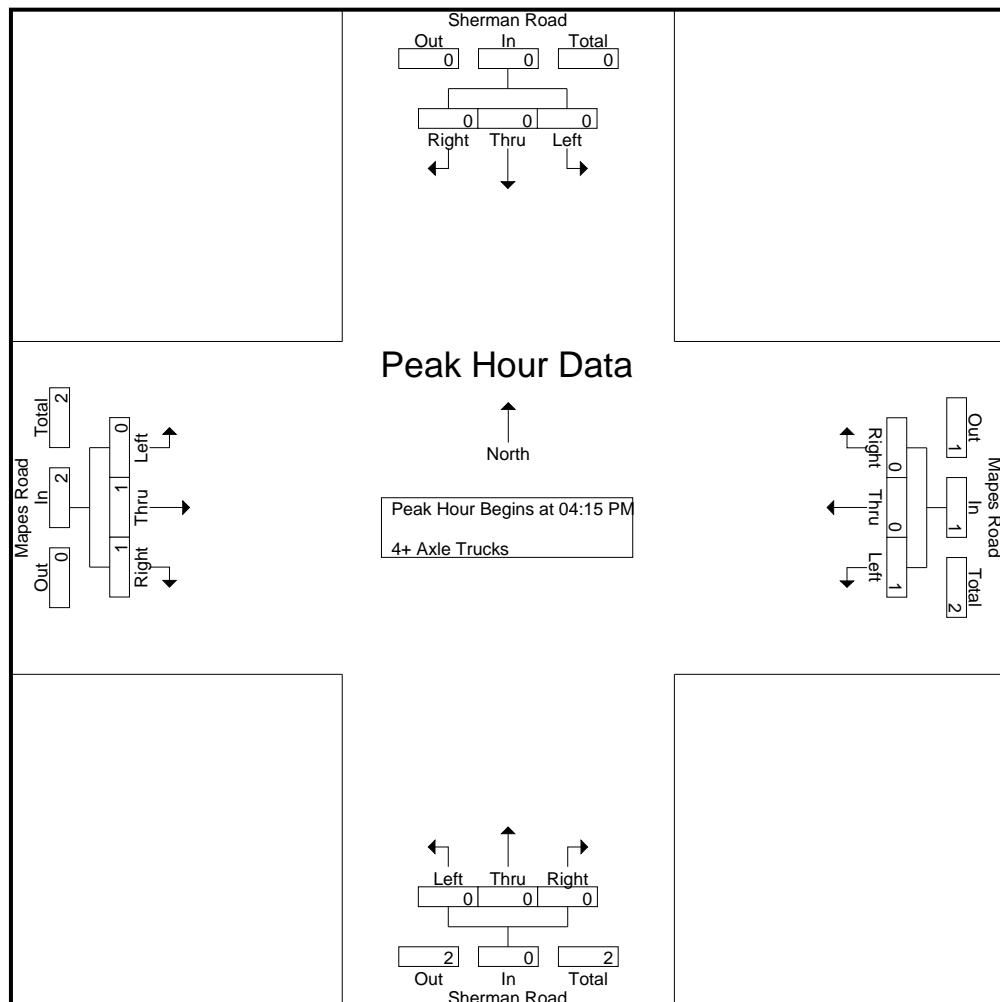
| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total |
|-------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| Grand Total | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 4 |
| Apprch % | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66.7 | 33.3 | | |
| Total % | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 50 | 25 | 75 | |

| Start Time | Sherman Road Southbound | | | | Mapes Road Westbound | | | | Sherman Road Northbound | | | | Mapes Road Eastbound | | | | Int. Total | |
|---|-------------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|----------------------|------|-------|------------|------------|--|
| | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | | |
| Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:15 PM | | | | | | | | | | | | | | | | | | |
| 04:15 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | |
| Total Volume | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | |
| % App. Total | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | | | |
| PHF | .000 | .000 | .000 | .000 | .250 | .000 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .500 | .375 | |

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City of Menifee
 N/S: Sherman Road
 E/W: Mapes Road
 Weather: Clear

File Name : 05_MEN_Sherman_Mapes PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 2



Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:15 PM | | | | 04:15 PM | | | | 04:15 PM | | | | 04:15 PM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total Volume | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| % App. Total | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 |
| PHF | .000 | .000 | .000 | .000 | .250 | .000 | .000 | .250 | .000 | .000 | .000 | .000 | .000 | .250 | .250 | .500 |

Location: Menifee
N/S: Sherman Road
E/W: Mapes Road



Date: 10/5/2021
Day: Tuesday

PEDESTRIANS

| | North Leg Sherman Road Pedestrians | East Leg Mapes Road Pedestrians | South Leg Sherman Road Pedestrians | West Leg Mapes Road Pedestrians | |
|----------------|--|---------------------------------------|--|---------------------------------------|----|
| 7:00 AM | 0 | 2 | 0 | 2 | 4 |
| 7:15 AM | 2 | 1 | 1 | 0 | 4 |
| 7:30 AM | 0 | 1 | 1 | 0 | 2 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 2 | 1 | 1 | 1 | 5 |
| 8:15 AM | 2 | 0 | 0 | 0 | 2 |
| 8:30 AM | 1 | 0 | 0 | 0 | 1 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 7 | 5 | 3 | 3 | 18 |

| | North Leg Sherman Road Pedestrians | East Leg Mapes Road Pedestrians | South Leg Sherman Road Pedestrians | West Leg Mapes Road Pedestrians | |
|----------------|--|---------------------------------------|--|---------------------------------------|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 1 | 0 | 0 | 1 |
| 4:30 PM | 0 | 1 | 0 | 0 | 1 |
| 4:45 PM | 0 | 2 | 0 | 0 | 2 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 2 | 2 | 4 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 1 | 0 | 0 | 0 | 1 |
| TOTAL VOLUMES: | 1 | 4 | 2 | 2 | 9 |

Location: Menifee
 N/S: Sherman Road
 E/W: Mapes Road



Date: 10/5/2021
 Day: Tuesday

BICYCLES

| | Southbound Sherman Road | | | Westbound Mapes Road | | | Northbound Sherman Road | | | Eastbound Mapes Road | | | |
|----------------|----------------------------|------|-------|-------------------------|------|-------|----------------------------|------|-------|-------------------------|------|-------|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |

| | Southbound Sherman Road | | | Westbound Mapes Road | | | Northbound Sherman Road | | | Eastbound Mapes Road | | | |
|----------------|----------------------------|------|-------|-------------------------|------|-------|----------------------------|------|-------|-------------------------|------|-------|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

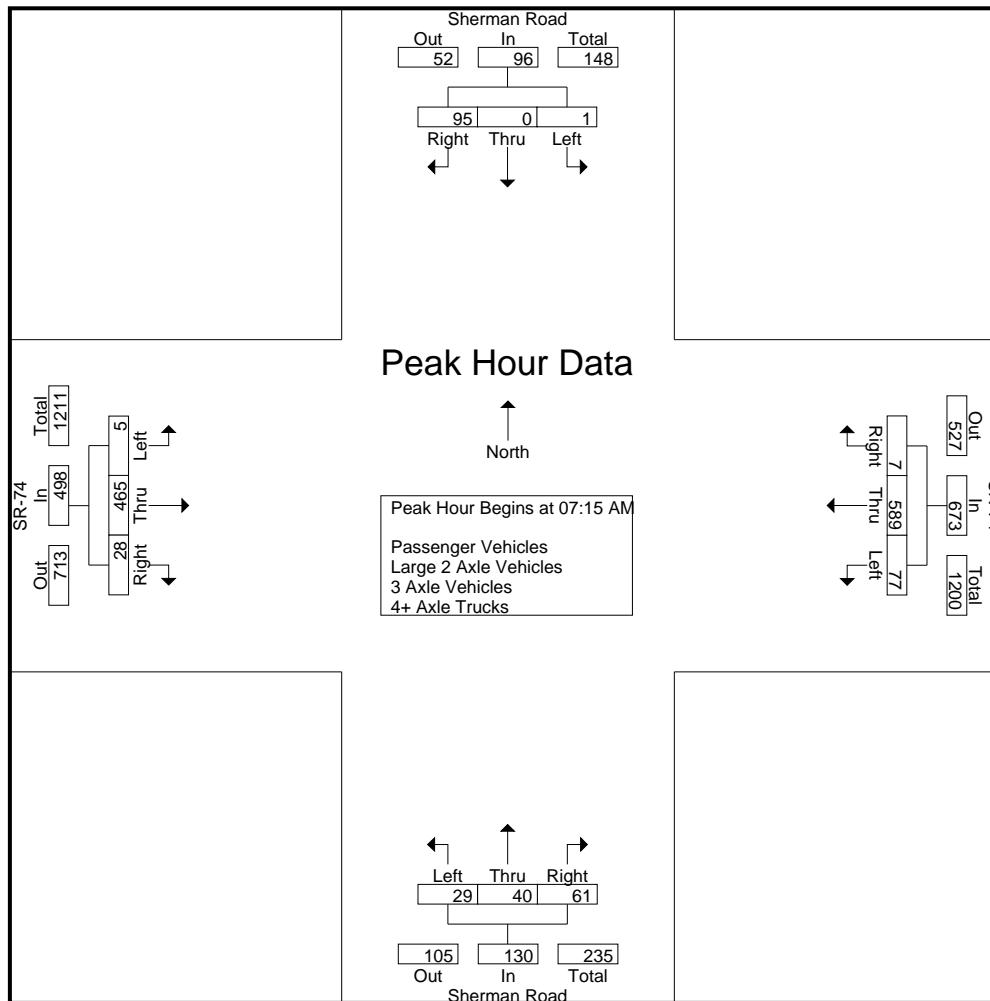
| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | | |
|-------------------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------|--------------|------------|--|
| Start Time | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Excl. Total | Inclu. Total | Int. Total | |
| 07:00 AM | 0 | 0 | 31 | 0 | 31 | 15 | 137 | 0 | 0 | 152 | 7 | 7 | 23 | 13 | 37 | 0 | 94 | 5 | 1 | 99 | 14 | 319 | 333 | |
| 07:15 AM | 1 | 0 | 19 | 0 | 20 | 13 | 138 | 0 | 0 | 151 | 9 | 7 | 18 | 13 | 34 | 0 | 134 | 8 | 1 | 142 | 14 | 347 | 361 | |
| 07:30 AM | 0 | 0 | 29 | 0 | 29 | 24 | 157 | 2 | 0 | 183 | 10 | 10 | 18 | 9 | 38 | 0 | 118 | 5 | 1 | 123 | 10 | 373 | 383 | |
| 07:45 AM | 0 | 0 | 27 | 0 | 27 | 26 | 149 | 1 | 0 | 176 | 4 | 7 | 16 | 7 | 27 | 4 | 103 | 6 | 0 | 113 | 7 | 343 | 350 | |
| Total | 1 | 0 | 106 | 0 | 107 | 78 | 581 | 3 | 0 | 662 | 30 | 31 | 75 | 42 | 136 | 4 | 449 | 24 | 3 | 477 | 45 | 1382 | 1427 | |
| 08:00 AM | 0 | 0 | 20 | 0 | 20 | 14 | 145 | 4 | 0 | 163 | 6 | 16 | 9 | 5 | 31 | 1 | 110 | 9 | 0 | 120 | 5 | 334 | 339 | |
| 08:15 AM | 0 | 0 | 27 | 0 | 27 | 10 | 127 | 3 | 0 | 140 | 6 | 12 | 11 | 5 | 29 | 6 | 111 | 4 | 0 | 121 | 5 | 317 | 322 | |
| 08:30 AM | 0 | 0 | 17 | 1 | 17 | 11 | 101 | 4 | 0 | 116 | 8 | 9 | 8 | 6 | 25 | 3 | 90 | 4 | 3 | 97 | 10 | 255 | 265 | |
| 08:45 AM | 0 | 0 | 20 | 0 | 20 | 12 | 124 | 4 | 0 | 140 | 1 | 13 | 10 | 3 | 24 | 1 | 103 | 3 | 0 | 107 | 3 | 291 | 294 | |
| Total | 0 | 0 | 84 | 1 | 84 | 47 | 497 | 15 | 0 | 559 | 21 | 50 | 38 | 19 | 109 | 11 | 414 | 20 | 3 | 445 | 23 | 1197 | 1220 | |
| Grand Total | 1 | 0 | 190 | 1 | 191 | 125 | 1078 | 18 | 0 | 1221 | 51 | 81 | 113 | 61 | 245 | 15 | 863 | 44 | 6 | 922 | 68 | 2579 | 2647 | |
| Apprch % | 0.5 | 0 | 99.5 | | | 10.2 | 88.3 | 1.5 | | | 20.8 | 33.1 | 46.1 | | | 1.6 | 93.6 | 4.8 | | | | | | |
| Total % | 0 | 0 | 7.4 | | 7.4 | 4.8 | 41.8 | 0.7 | | 47.3 | 2 | 3.1 | 4.4 | | 9.5 | 0.6 | 33.5 | 1.7 | | 35.8 | 2.6 | 97.4 | | |
| Passenger Vehicles | 1 | 0 | 179 | | 181 | 123 | 1007 | 16 | | 1146 | 47 | 69 | 111 | | 286 | 13 | 765 | 36 | | 820 | 0 | 0 | 2433 | |
| % Passenger Vehicles | 100 | 0 | 94.2 | 100 | 94.3 | 98.4 | 93.4 | 88.9 | 0 | 93.9 | 92.2 | 85.2 | 98.2 | 96.7 | 93.5 | 86.7 | 88.6 | 81.8 | 100 | 88.4 | 0 | 0 | 91.9 | |
| Large 2 Axle Vehicles | 0 | 0 | 5 | | 5 | 1 | 42 | 1 | | 44 | 3 | 12 | 2 | | 19 | 2 | 55 | 5 | | 62 | 0 | 0 | 130 | |
| % Large 2 Axle Vehicles | 0 | 0 | 2.6 | 0 | 2.6 | 0.8 | 3.9 | 5.6 | 0 | 3.6 | 5.9 | 14.8 | 1.8 | 3.3 | 6.2 | 13.3 | 6.4 | 11.4 | 0 | 6.7 | 0 | 0 | 4.9 | |
| 3 Axle Vehicles | 0 | 0 | 3 | | 3 | 1 | 7 | 0 | | 8 | 1 | 0 | 0 | | 1 | 0 | 17 | 0 | | 17 | 0 | 0 | 29 | |
| % 3 Axle Vehicles | 0 | 0 | 1.6 | 0 | 1.6 | 0.8 | 0.6 | 0 | 0 | 0.7 | 2 | 0 | 0 | 0 | 0.3 | 0 | 2 | 0 | 0 | 1.8 | 0 | 0 | 1.1 | |
| 4+ Axle Trucks | 0 | 0 | 3 | | 3 | 0 | 22 | 1 | | 23 | 0 | 0 | 0 | | 0 | 0 | 26 | 3 | | 29 | 0 | 0 | 55 | |
| % 4+ Axle Trucks | 0 | 0 | 1.6 | 0 | 1.6 | 0 | 2 | 5.6 | 0 | 1.9 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6.8 | 0 | 3.1 | 0 | 0 | 2.1 | |

| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | | |
|--|-------------------------|------|-------|------------|------|-----------------|-------|------------|------|------|-------------------------|------------|------|------|-------|-----------------|------|------|-------|------------|------------|--|--|-----|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total | | | |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 1 | 0 | 19 | 20 | 13 | 138 | 0 | 151 | 9 | 7 | 18 | 34 | 0 | 134 | 8 | 142 | | | | | | | | 347 |
| 07:30 AM | 0 | 0 | 29 | 29 | 24 | 157 | 2 | 183 | 10 | 10 | 18 | 38 | 0 | 118 | 5 | 123 | 373 | | | | | | | |
| 07:45 AM | 0 | 0 | 27 | 27 | 26 | 149 | 1 | 176 | 4 | 7 | 16 | 27 | 4 | 103 | 6 | 113 | 343 | | | | | | | |
| 08:00 AM | 0 | 0 | 20 | 20 | 14 | 145 | 4 | 163 | 6 | 16 | 9 | 31 | 1 | 110 | 9 | 120 | 334 | | | | | | | |
| Total Volume | 1 | 0 | 95 | 96 | 77 | 589 | 7 | 673 | 29 | 40 | 61 | 130 | 5 | 465 | 28 | 498 | 1397 | | | | | | | |
| % App. Total | 1 | 0 | 99 | | 11.4 | 87.5 | 1 | | 22.3 | 30.8 | 46.9 | | 1 | 93.4 | 5.6 | | | | | | | | | |
| PHF | .250 | .000 | .819 | .828 | .740 | .938 | .438 | .919 | .725 | .625 | .847 | .855 | .313 | .868 | .778 | .877 | .936 | | | | | | | |

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City of Menifee
N/S: Sherman Road
E/W: SR-74
Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
Site Code : 05121545
Start Date : 10/5/2021
Page No : 2



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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 3

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:00 AM | 07:15 AM | 07:00 AM | 07:15 AM |
|--------------|----------|----------|-----------|-----------|
| +0 mins. | 0 | 0 | 31 | 31 |
| +15 mins. | 1 | 0 | 19 | 20 |
| +30 mins. | 0 | 0 | 29 | 29 |
| +45 mins. | 0 | 0 | 27 | 27 |
| Total Volume | 1 | 0 | 106 | 107 |
| % App. Total | 0.9 | 0 | 99.1 | |
| PHF | .250 | .000 | .855 | .863 |
| | .740 | .938 | .438 | .919 |
| | | | .750 | .775 |
| | | | | .815 |
| | | | | .895 |
| | | | | .313 |
| | | | | .868 |
| | | | | .778 |
| | | | | .877 |

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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

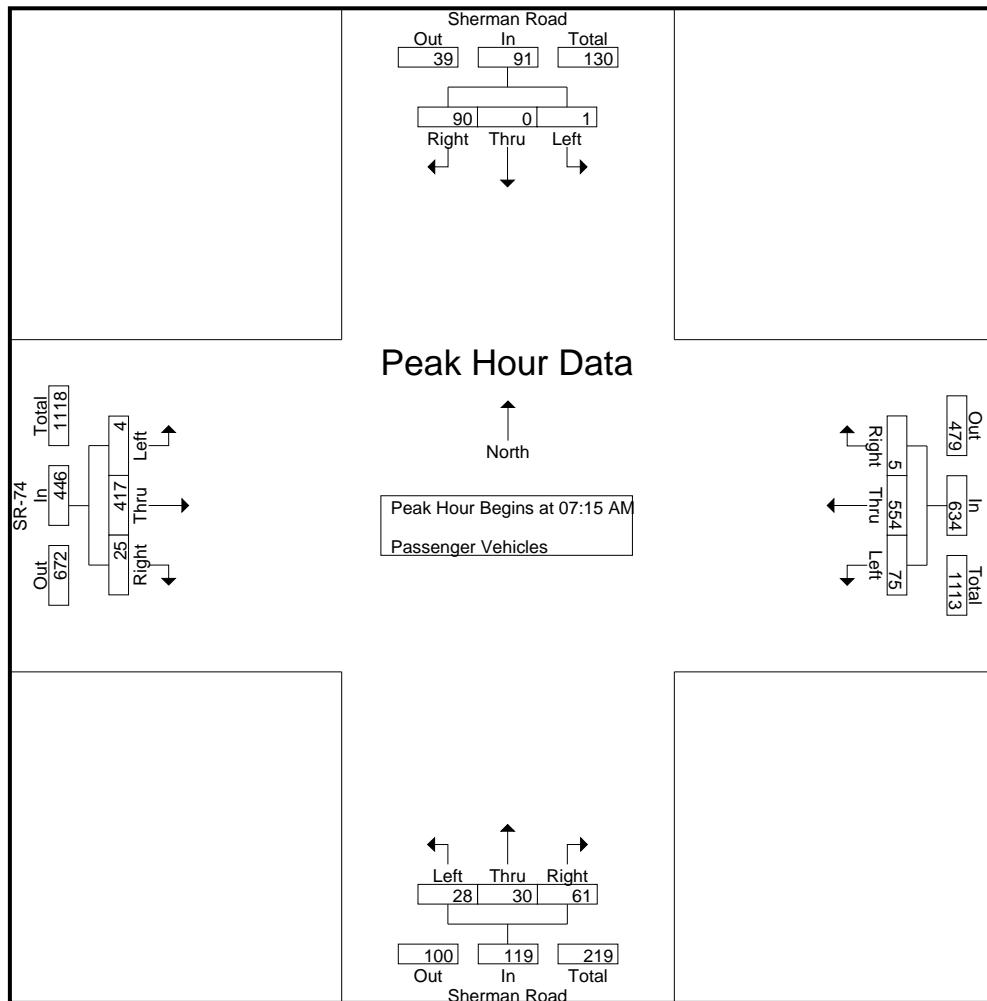
| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | | |
|-------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------|-------------|------------|--|
| Start Time | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Excl. Total | Incl. Total | Int. Total | |
| 07:00 AM | 0 | 0 | 27 | 0 | 27 | 15 | 133 | 0 | 0 | 148 | 5 | 7 | 22 | 12 | 34 | 0 | 76 | 4 | 1 | 80 | 13 | 289 | 302 | |
| 07:15 AM | 1 | 0 | 18 | 0 | 19 | 12 | 129 | 0 | 0 | 141 | 9 | 4 | 18 | 13 | 31 | 0 | 121 | 7 | 1 | 128 | 14 | 319 | 333 | |
| 07:30 AM | 0 | 0 | 28 | 0 | 28 | 23 | 151 | 2 | 0 | 176 | 10 | 8 | 18 | 9 | 36 | 0 | 104 | 5 | 1 | 109 | 10 | 349 | 359 | |
| 07:45 AM | 0 | 0 | 25 | 0 | 25 | 26 | 140 | 1 | 0 | 167 | 3 | 5 | 16 | 7 | 24 | 3 | 96 | 6 | 0 | 105 | 7 | 321 | 328 | |
| Total | 1 | 0 | 98 | 0 | 99 | 76 | 553 | 3 | 0 | 632 | 27 | 24 | 74 | 41 | 125 | 3 | 397 | 22 | 3 | 422 | 44 | 1278 | 1322 | |
| 08:00 AM | 0 | 0 | 19 | 0 | 19 | 14 | 134 | 2 | 0 | 150 | 6 | 13 | 9 | 5 | 28 | 1 | 96 | 7 | 0 | 104 | 5 | 301 | 306 | |
| 08:15 AM | 0 | 0 | 27 | 0 | 27 | 10 | 116 | 3 | 0 | 129 | 6 | 12 | 11 | 5 | 29 | 6 | 97 | 3 | 0 | 106 | 5 | 291 | 296 | |
| 08:30 AM | 0 | 0 | 16 | 1 | 16 | 11 | 91 | 4 | 0 | 106 | 7 | 7 | 7 | 5 | 21 | 2 | 83 | 3 | 3 | 88 | 9 | 231 | 240 | |
| 08:45 AM | 0 | 0 | 19 | 0 | 19 | 12 | 113 | 4 | 0 | 129 | 1 | 13 | 10 | 3 | 24 | 1 | 92 | 1 | 0 | 94 | 3 | 266 | 269 | |
| Total | 0 | 0 | 81 | 1 | 81 | 47 | 454 | 13 | 0 | 514 | 20 | 45 | 37 | 18 | 102 | 10 | 368 | 14 | 3 | 392 | 22 | 1089 | 1111 | |
| Grand Total | 1 | 0 | 179 | 1 | 180 | 123 | 1007 | 16 | 0 | 1146 | 47 | 69 | 111 | 59 | 227 | 13 | 765 | 36 | 6 | 814 | 66 | 2367 | 2433 | |
| Apprch % | 0.6 | 0 | 99.4 | | | 10.7 | 87.9 | 1.4 | | | 20.7 | 30.4 | 48.9 | | | 1.6 | 94 | 4.4 | | | | | | |
| Total % | 0 | 0 | 7.6 | | | 7.6 | 5.2 | 42.5 | 0.7 | | 48.4 | 2 | 2.9 | 4.7 | | 9.6 | 0.5 | 32.3 | 1.5 | | 34.4 | 2.7 | 97.3 | |

| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | |
|--|-------------------------|------|-------|------------|------|-----------------|-------|------------|------|------|-------------------------|------------|------|------|-------|-----------------|------|------|-------|------------|------------|--|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 1 | 0 | 18 | 19 | | 12 | 129 | 0 | 141 | | 9 | 4 | 18 | 31 | | 0 | 121 | 7 | 128 | | 319 | |
| 07:30 AM | 0 | 0 | 28 | 28 | | 23 | 151 | 2 | 176 | | 10 | 8 | 18 | 36 | | 0 | 104 | 5 | 109 | | 349 | |
| 07:45 AM | 0 | 0 | 25 | 25 | | 26 | 140 | 1 | 167 | | 3 | 5 | 16 | 24 | | 3 | 96 | 6 | 105 | | 321 | |
| 08:00 AM | 0 | 0 | 19 | 19 | | 14 | 134 | 2 | 150 | | 6 | 13 | 9 | 28 | | 1 | 96 | 7 | 104 | | 301 | |
| Total Volume | 1 | 0 | 90 | 91 | | 75 | 554 | 5 | 634 | | 28 | 30 | 61 | 119 | | 4 | 417 | 25 | 446 | | 1290 | |
| % App. Total | 1.1 | 0 | 98.9 | | | 11.8 | 87.4 | 0.8 | | | 23.5 | 25.2 | 51.3 | | | 0.9 | 93.5 | 5.6 | | | | |
| PHF | .250 | .000 | .804 | .813 | | .721 | .917 | .625 | .901 | | .700 | .577 | .847 | .826 | | .333 | .862 | .893 | .871 | | .924 | |

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Menifee
N/S: Sherman Road
E/W: SR-74
Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
Site Code : 05121545
Start Date : 10/5/2021
Page No : 2



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 (951)268-6268

City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 3

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | | 07:15 AM | | | | 07:15 AM | | | | 07:15 AM | | | |
|--------------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|
| +0 mins. | 1 | 0 | 18 | 19 | 12 | 129 | 0 | 141 | 9 | 4 | 18 | 31 | 0 | 121 | 7 | 128 |
| +15 mins. | 0 | 0 | 28 | 28 | 23 | 151 | 2 | 176 | 10 | 8 | 18 | 36 | 0 | 104 | 5 | 109 |
| +30 mins. | 0 | 0 | 25 | 25 | 26 | 140 | 1 | 167 | 3 | 5 | 16 | 24 | 3 | 96 | 6 | 105 |
| +45 mins. | 0 | 0 | 19 | 19 | 14 | 134 | 2 | 150 | 6 | 13 | 9 | 28 | 1 | 96 | 7 | 104 |
| Total Volume | 1 | 0 | 90 | 91 | 75 | 554 | 5 | 634 | 28 | 30 | 61 | 119 | 4 | 417 | 25 | 446 |
| % App. Total | 1.1 | 0 | 98.9 | | 11.8 | 87.4 | 0.8 | | 23.5 | 25.2 | 51.3 | | 0.9 | 93.5 | 5.6 | |
| PHF | .250 | .000 | .804 | .813 | .721 | .917 | .625 | .901 | .700 | .577 | .847 | .826 | .333 | .862 | .893 | .871 |

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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

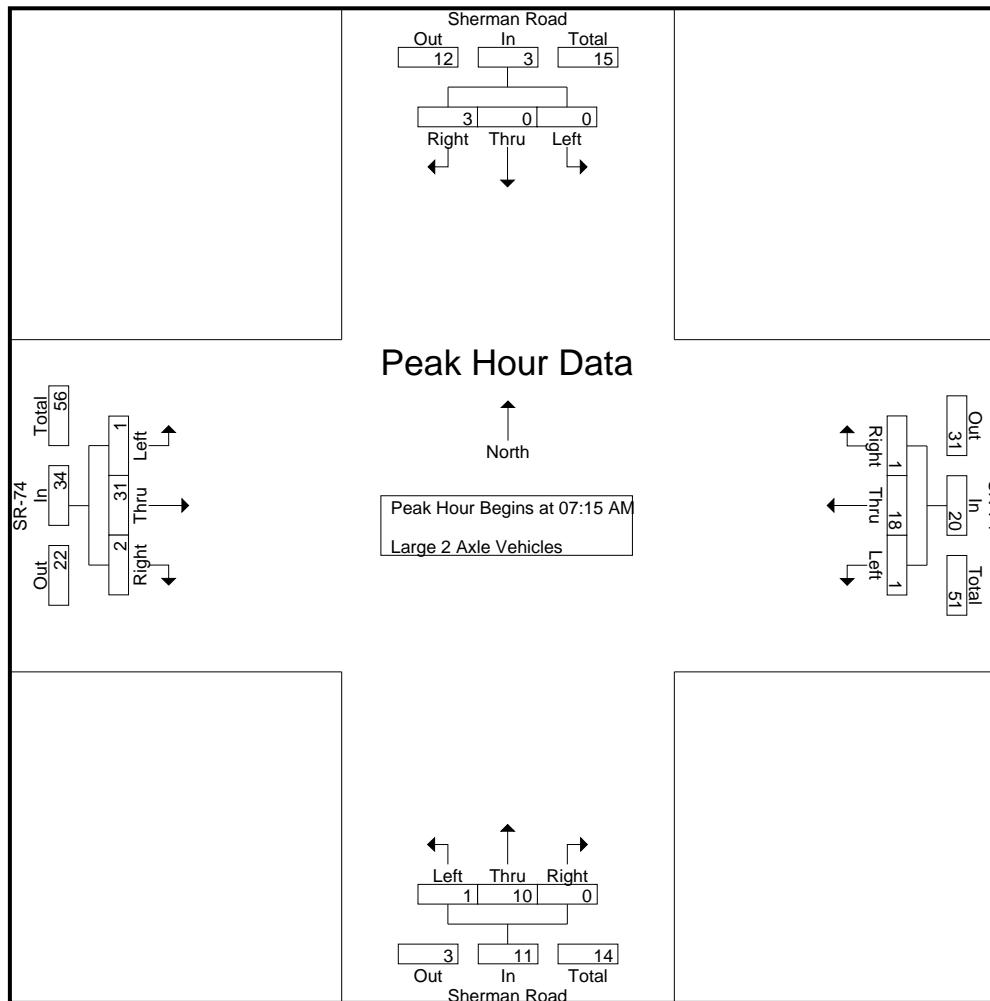
| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | |
|-------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------|--------------|------------|
| Start Time | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Excl. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 1 | 1 | 2 | 0 | 12 | 1 | 0 | 13 | 1 | 19 | 20 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 5 | 0 | 3 | 0 | 0 | 3 | 0 | 6 | 1 | 0 | 7 | 0 | 15 | 15 |
| 07:30 AM | 0 | 0 | 1 | 0 | 1 | 0 | 5 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 2 | 0 | 8 | 0 | 0 | 8 | 0 | 16 | 16 |
| 07:45 AM | 0 | 0 | 1 | 0 | 1 | 0 | 5 | 0 | 0 | 5 | 1 | 2 | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 5 | 0 | 14 | 14 |
| Total | 0 | 0 | 3 | 0 | 3 | 1 | 17 | 0 | 0 | 18 | 2 | 7 | 1 | 1 | 10 | 1 | 30 | 2 | 0 | 33 | 1 | 64 | 65 |
| 08:00 AM | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 1 | 0 | 5 | 0 | 3 | 0 | 0 | 3 | 0 | 13 | 1 | 0 | 14 | 0 | 23 | 23 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 10 | 10 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 1 | 2 | 1 | 1 | 4 | 1 | 3 | 0 | 0 | 4 | 1 | 15 | 16 |
| 08:45 AM | 0 | 0 | 1 | 0 | 1 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 7 | 0 | 16 | 16 |
| Total | 0 | 0 | 2 | 0 | 2 | 0 | 25 | 1 | 0 | 26 | 1 | 5 | 1 | 1 | 7 | 1 | 25 | 3 | 0 | 29 | 1 | 64 | 65 |
| Grand Total | 0 | 0 | 5 | 0 | 5 | 1 | 42 | 1 | 0 | 44 | 3 | 12 | 2 | 2 | 17 | 2 | 55 | 5 | 0 | 62 | 2 | 128 | 130 |
| Apprch % | 0 | 0 | 100 | | | 2.3 | 95.5 | 2.3 | | | 17.6 | 70.6 | 11.8 | | | 3.2 | 88.7 | 8.1 | | | | | |
| Total % | 0 | 0 | 3.9 | | 3.9 | 0.8 | 32.8 | 0.8 | | | 34.4 | 2.3 | 9.4 | 1.6 | | 13.3 | 1.6 | 43 | 3.9 | | 48.4 | 1.5 | 98.5 |

| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | |
|--|-------------------------|------|-------|------------|------|-----------------|-------|------------|------|------|-------------------------|------------|------|------|-------|-----------------|------------|--|--|--|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total | | | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 5 | 0 | 3 | 0 | 3 | 0 | 6 | 1 | 7 | 15 | | | |
| 07:30 AM | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 5 | 0 | 2 | 0 | 2 | 0 | 8 | 0 | 8 | 16 | | | |
| 07:45 AM | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 5 | 1 | 2 | 0 | 3 | 1 | 4 | 0 | 5 | 14 | | | |
| 08:00 AM | 0 | 0 | 1 | 1 | 0 | 4 | 1 | 5 | 0 | 3 | 0 | 3 | 0 | 13 | 1 | 14 | 23 | | | |
| Total Volume | 0 | 0 | 3 | 3 | 1 | 18 | 1 | 20 | 1 | 10 | 0 | 11 | 1 | 31 | 2 | 34 | 68 | | | |
| % App. Total | 0 | 0 | 100 | | 5 | 90 | 5 | | 9.1 | 90.9 | 0 | | 2.9 | 91.2 | 5.9 | | | | | |
| PHF | .000 | .000 | .750 | .750 | .250 | .900 | .250 | 1.00 | .250 | .833 | .000 | .917 | .250 | .596 | .500 | .607 | .739 | | | |

Counts Unlimited, Inc.
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(951)268-6268

City of Menifee
N/S: Sherman Road
E/W: SR-74
Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
Site Code : 05121545
Start Date : 10/5/2021
Page No : 2



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 Corona, CA 92878
 (951)268-6268

City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 3

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|--|----------------------------|------|-------|------------|--------------------|------|-------|------------|----------------------------|----------|-------|------------|--------------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | |
| +0 mins. | 0 | 0 | 0 | 0 | 07:15 AM | 1 | 4 | 0 | 5 | 07:15 AM | 3 | 0 | 3 | 0 | 6 | 1 | 7 |
| +15 mins. | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 5 | 0 | 2 | 0 | 2 | 0 | 8 | 0 | 8 | |
| +30 mins. | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 5 | 1 | 2 | 0 | 3 | 1 | 4 | 0 | 5 | |
| +45 mins. | 0 | 0 | 1 | 1 | 0 | 4 | 1 | 5 | 0 | 3 | 0 | 3 | 0 | 13 | 1 | 14 | |
| Total Volume | 0 | 0 | 3 | 3 | 1 | 18 | 1 | 20 | 1 | 10 | 0 | 11 | 1 | 31 | 2 | 34 | |
| % App. Total | 0 | 0 | 100 | | 5 | 90 | 5 | | 9.1 | 90.9 | 0 | | 2.9 | 91.2 | 5.9 | | |
| PHF | .000 | .000 | .750 | .750 | .250 | .900 | .250 | 1.000 | .250 | .833 | .000 | .917 | .250 | .596 | .500 | .607 | |

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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

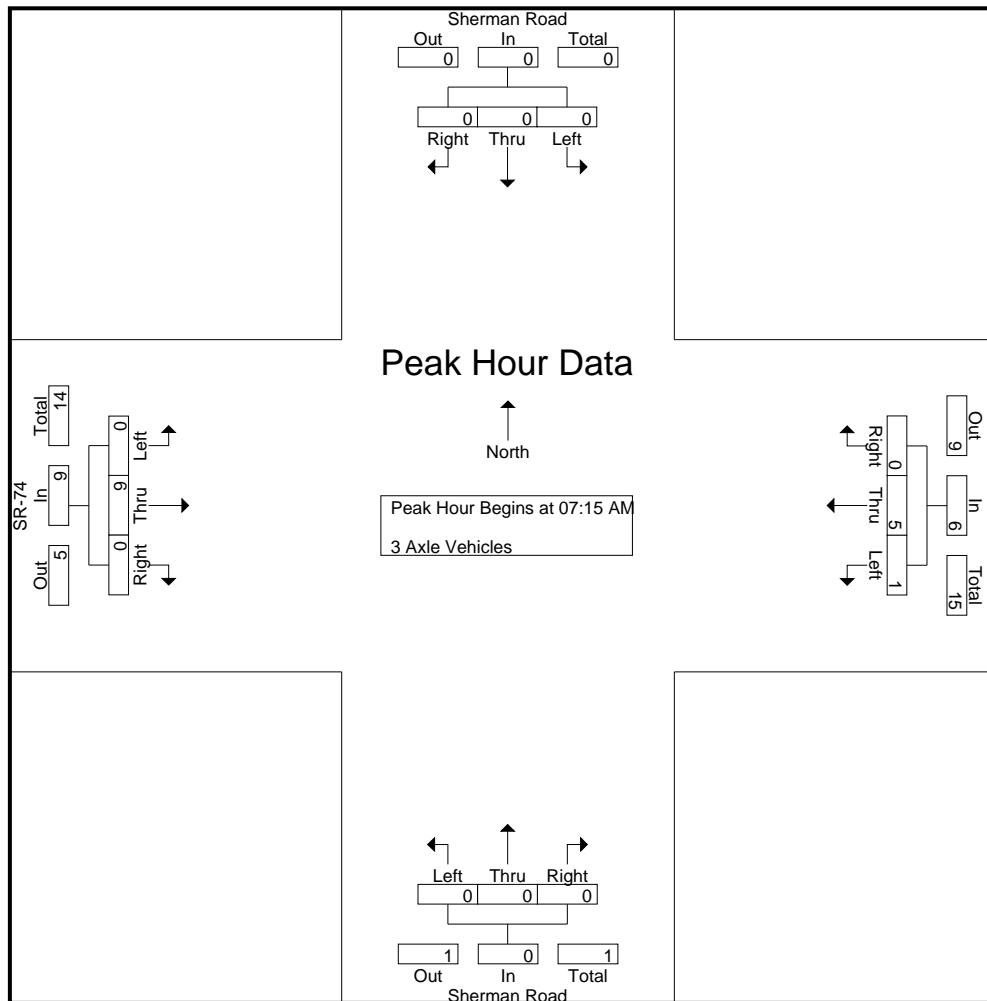
| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | |
|-------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------|--------------|------------|
| Start Time | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Excl. Total | Inclu. Total | Int. Total |
| 07:00 AM | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 7 | 7 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 5 | 5 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 3 | 3 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 2 |
| Total | 0 | 0 | 3 | 0 | 3 | 1 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 11 | 0 | 0 | 11 | 0 | 17 | 17 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 5 | 5 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 5 | 5 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 12 | 12 |
| Grand Total | 0 | 0 | 3 | 0 | 3 | 1 | 7 | 0 | 0 | 8 | 1 | 0 | 0 | 0 | 1 | 0 | 17 | 0 | 0 | 17 | 0 | 29 | 29 |
| Apprch % | 0 | 0 | 100 | | | 12.5 | 87.5 | 0 | | | 100 | 0 | 0 | | 0 | 0 | 100 | 0 | | | | | |
| Total % | 0 | 0 | 10.3 | | 10.3 | 3.4 | 24.1 | 0 | | 27.6 | 3.4 | 0 | 0 | | 3.4 | 0 | 58.6 | 0 | | 58.6 | 0 | 100 | |

| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | |
|--|-------------------------|------|-------|------------|------|-----------------|-------|------------|------|------|-------------------------|------------|------|------|-------|-----------------|------|------|-------|------------|------------|------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total | |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 5 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 3 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 5 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 15 |
| % App. Total | 0 | 0 | 0 | 0 | 16.7 | 83.3 | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | | | | |
| PHF | .000 | .000 | .000 | .000 | .250 | .313 | .000 | .375 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .563 | .000 | .563 | .000 | .563 | .750 |

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City of Menifee
N/S: Sherman Road
E/W: SR-74
Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
Site Code : 05121545
Start Date : 10/5/2021
Page No : 2



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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 3

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|--|----------------------------|------|-------|------------|--------------------|------|-------|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | |
| +15 mins. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| Total Volume | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | |
| % App. Total | 0 | 0 | 0 | 0 | 16.7 | 83.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | |
| PHF | .000 | .000 | .000 | .000 | .250 | .313 | .000 | .375 | .000 | .000 | .000 | .000 | .000 | .563 | .000 | .563 | |

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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

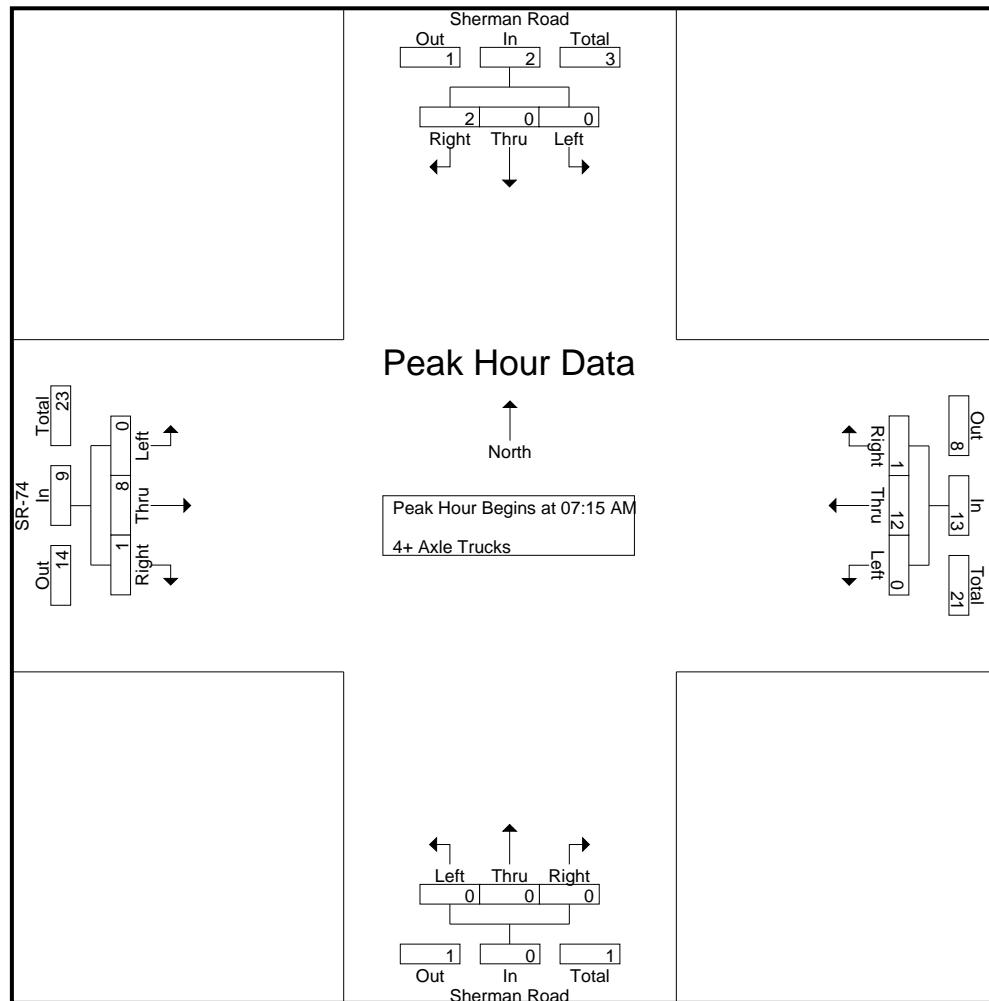
| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | |
|-------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------|-------------|------------|
| Start Time | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Excl. Total | Incl. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 4 | 4 |
| 07:15 AM | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 8 | 8 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 5 | 5 |
| 07:45 AM | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 6 | 6 |
| Total | 0 | 0 | 2 | 0 | 2 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 23 | 23 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 5 | 5 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 0 | 8 | 0 | 11 | 11 |
| 08:30 AM | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 8 | 8 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 8 | 8 |
| Total | 0 | 0 | 1 | 0 | 1 | 0 | 12 | 1 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 3 | 0 | 18 | 0 | 32 | 32 |
| Grand Total | 0 | 0 | 3 | 0 | 3 | 0 | 22 | 1 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 3 | 0 | 29 | 0 | 55 | 55 |
| Apprch % | 0 | 0 | 100 | | | 0 | 95.7 | 4.3 | | | 0 | 0 | 0 | 0 | 0 | 0 | 89.7 | 10.3 | | | | | |
| Total % | 0 | 0 | 5.5 | | 5.5 | 0 | 40 | 1.8 | | 41.8 | 0 | 0 | 0 | 0 | 0 | 0 | 47.3 | 5.5 | | 52.7 | 0 | 100 | |

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|--|-------------------------|------|-------|------------|-----------------|------|-------|------------|-------------------------|------|-------|------------|-----------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | |
| 07:15 AM | 0 | 0 | 1 | 1 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 8 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 5 |
| 07:45 AM | 0 | 0 | 1 | 1 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 6 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 |
| Total Volume | 0 | 0 | 2 | 2 | 0 | 12 | 1 | 13 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 9 | 24 |
| % App. Total | 0 | 0 | 100 | | 0 | 92.3 | 7.7 | | 0 | 0 | 0 | 0 | 0 | 88.9 | 11.1 | | |
| PHF | .000 | .000 | .500 | .500 | .000 | .750 | .250 | .813 | .000 | .000 | .000 | .000 | .000 | .500 | .250 | .563 | .750 |

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Corona, CA 92878
(951)268-6268

City of Menifee
N/S: Sherman Road
E/W: SR-74
Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
Site Code : 05121545
Start Date : 10/5/2021
Page No : 2



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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 AM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 3

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|--|----------------------------|------|-------|------------|--------------------|------|-------|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | |
| +0 mins. | 0 | 0 | 1 | 1 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 3 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 4 |
| +30 mins. | 0 | 0 | 1 | 1 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Total Volume | 0 | 0 | 2 | 2 | 0 | 12 | 1 | 13 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 9 | |
| % App. Total | 0 | 0 | 100 | | 0 | 92.3 | 7.7 | | 0 | 0 | 0 | | 0 | 88.9 | 11.1 | | |
| PHF | .000 | .000 | .500 | .500 | .000 | .750 | .250 | .813 | .000 | .000 | .000 | .000 | .000 | .500 | .250 | .563 | |

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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

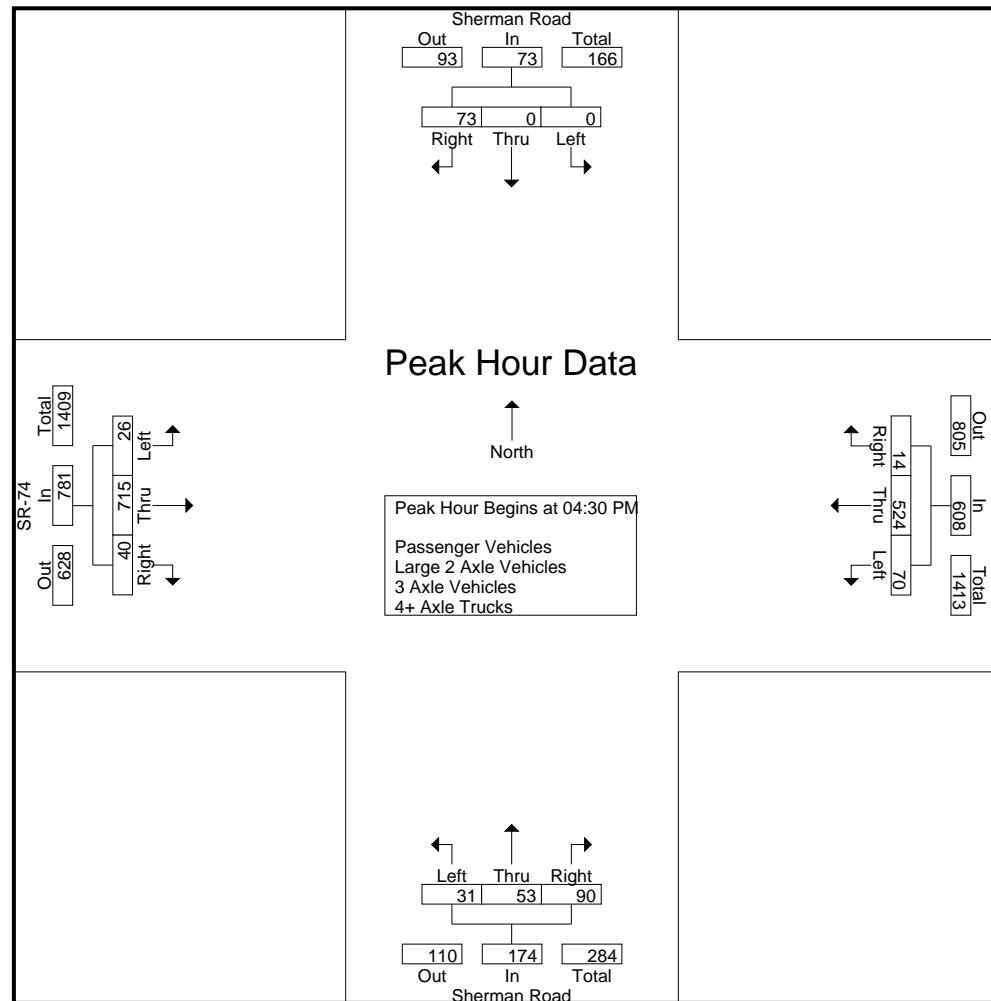
| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | | |
|-------------------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------|-------------|------------|--|
| Start Time | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Excl. Total | Incl. Total | Int. Total | |
| 04:00 PM | 0 | 0 | 14 | 0 | 14 | 16 | 142 | 1 | 0 | 159 | 9 | 16 | 23 | 14 | 48 | 7 | 150 | 8 | 0 | 165 | 14 | 386 | 400 | |
| 04:15 PM | 0 | 0 | 25 | 0 | 25 | 11 | 121 | 1 | 0 | 133 | 9 | 13 | 24 | 1 | 46 | 2 | 180 | 11 | 3 | 193 | 4 | 397 | 401 | |
| 04:30 PM | 0 | 0 | 25 | 0 | 25 | 21 | 142 | 2 | 0 | 165 | 9 | 18 | 20 | 10 | 47 | 7 | 168 | 9 | 5 | 184 | 15 | 421 | 436 | |
| 04:45 PM | 0 | 0 | 13 | 0 | 13 | 10 | 120 | 3 | 0 | 133 | 5 | 12 | 24 | 7 | 41 | 4 | 162 | 10 | 4 | 176 | 11 | 363 | 374 | |
| Total | 0 | 0 | 77 | 0 | 77 | 58 | 525 | 7 | 0 | 590 | 32 | 59 | 91 | 32 | 182 | 20 | 660 | 38 | 12 | 718 | 44 | 1567 | 1611 | |
| 05:00 PM | 0 | 0 | 10 | 0 | 10 | 21 | 140 | 4 | 0 | 165 | 11 | 9 | 18 | 8 | 38 | 3 | 208 | 6 | 1 | 217 | 9 | 430 | 439 | |
| 05:15 PM | 0 | 0 | 25 | 0 | 25 | 18 | 122 | 5 | 0 | 145 | 6 | 14 | 28 | 9 | 48 | 12 | 177 | 15 | 1 | 204 | 10 | 422 | 432 | |
| 05:30 PM | 0 | 0 | 17 | 0 | 17 | 25 | 151 | 4 | 0 | 180 | 6 | 7 | 25 | 12 | 38 | 6 | 163 | 11 | 4 | 180 | 16 | 415 | 431 | |
| 05:45 PM | 1 | 0 | 17 | 0 | 18 | 15 | 120 | 2 | 0 | 137 | 4 | 9 | 21 | 5 | 34 | 0 | 139 | 12 | 1 | 151 | 6 | 340 | 346 | |
| Total | 1 | 0 | 69 | 0 | 70 | 79 | 533 | 15 | 0 | 627 | 27 | 39 | 92 | 34 | 158 | 21 | 687 | 44 | 7 | 752 | 41 | 1607 | 1648 | |
| Grand Total | 1 | 0 | 146 | 0 | 147 | 137 | 1058 | 22 | 0 | 1217 | 59 | 98 | 183 | 66 | 340 | 41 | 1347 | 82 | 19 | 1470 | 85 | 3174 | 3259 | |
| Apprch % | 0.7 | 0 | 99.3 | | | 11.3 | 86.9 | 1.8 | | | 17.4 | 28.8 | 53.8 | | | 2.8 | 91.6 | 5.6 | | | | | | |
| Total % | 0 | 0 | 4.6 | | 4.6 | 4.3 | 33.3 | 0.7 | | 38.3 | 1.9 | 3.1 | 5.8 | | 10.7 | 1.3 | 42.4 | 2.6 | | 46.3 | 2.6 | 97.4 | | |
| Passenger Vehicles | 1 | 0 | 139 | | 140 | 136 | 994 | 16 | | 1146 | 54 | 89 | 179 | | 388 | 40 | 1305 | 76 | | 1439 | 0 | 0 | 3113 | |
| % Passenger Vehicles | 100 | 0 | 95.2 | 0 | 95.2 | 99.3 | 94 | 72.7 | 0 | 94.2 | 91.5 | 90.8 | 97.8 | 100 | 95.6 | 97.6 | 96.9 | 92.7 | 94.7 | 96.6 | 0 | 0 | 95.5 | |
| Large 2 Axle Vehicles | 0 | 0 | 5 | | 5 | 1 | 39 | 6 | | 46 | 3 | 9 | 4 | | 16 | 1 | 27 | 3 | | 31 | 0 | 0 | 98 | |
| % Large 2 Axle Vehicles | 0 | 0 | 3.4 | 0 | 3.4 | 0.7 | 3.7 | 27.3 | 0 | 3.8 | 5.1 | 9.2 | 2.2 | 0 | 3.9 | 2.4 | 2 | 3.7 | 0 | 2.1 | 0 | 0 | 3 | |
| 3 Axle Vehicles | 0 | 0 | 1 | | 1 | 0 | 22 | 0 | | 22 | 0 | 0 | 0 | | 0 | 0 | 7 | 2 | | 10 | 0 | 0 | 33 | |
| % 3 Axle Vehicles | 0 | 0 | 0.7 | 0 | 0.7 | 0 | 2.1 | 0 | 0 | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 2.4 | 5.3 | 0.7 | 0 | 0 | 1 | |
| 4+ Axle Trucks | 0 | 0 | 1 | | 1 | 0 | 3 | 0 | | 3 | 2 | 0 | 0 | | 2 | 0 | 8 | 1 | | 9 | 0 | 0 | 15 | |
| % 4+ Axle Trucks | 0 | 0 | 0.7 | 0 | 0.7 | 0 | 0.3 | 0 | 0 | 0.2 | 3.4 | 0 | 0 | 0 | 0.5 | 0 | 0.6 | 1.2 | 0 | 0.6 | 0 | 0 | 0.5 | |

| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | | |
|--|-------------------------|------|-------|------------|------|-----------------|-------|------------|------|------|-------------------------|------------|------|------|-------|-----------------|------|------|-------|------------|------------|--|--|------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total | | | |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 25 | 25 | 21 | 142 | 2 | 165 | 9 | 18 | 20 | 47 | 7 | 168 | 9 | 184 | | | | | | | | 421 |
| 04:45 PM | 0 | 0 | 13 | 13 | 10 | 120 | 3 | 133 | 5 | 12 | 24 | 41 | 4 | 162 | 10 | 176 | | | | | | | | 363 |
| 05:00 PM | 0 | 0 | 10 | 10 | 21 | 140 | 4 | 165 | 11 | 9 | 18 | 38 | 3 | 208 | 6 | 217 | | | | | | | | 430 |
| 05:15 PM | 0 | 0 | 25 | 25 | 18 | 122 | 5 | 145 | 6 | 14 | 28 | 48 | 12 | 177 | 15 | 204 | | | | | | | | 422 |
| Total Volume | 0 | 0 | 73 | 73 | 70 | 524 | 14 | 608 | 31 | 53 | 90 | 174 | 26 | 715 | 40 | 781 | | | | | | | | 1636 |
| % App. Total | 0 | 0 | 100 | | 11.5 | 86.2 | 2.3 | | 17.8 | 30.5 | 51.7 | | 3.3 | 91.5 | 5.1 | | | | | | | | | |
| PHF | .000 | .000 | .730 | .730 | .833 | .923 | .700 | .921 | .705 | .736 | .804 | .906 | .542 | .859 | .667 | .900 | .951 | | | | | | | |

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City of Menifee
N/S: Sherman Road
E/W: SR-74
Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
Site Code : 05121545
Start Date : 10/5/2021
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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 3

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:00 PM | 05:00 PM | 04:00 PM | 04:30 PM |
|--------------|---------------------|---------------------|---------------------|---------------------|
| +0 mins. | 0 0 14 14 | 21 140 4 165 | 9 16 23 48 | 7 168 9 184 |
| +15 mins. | 0 0 25 25 | 18 122 5 145 | 9 13 24 46 | 4 162 10 176 |
| +30 mins. | 0 0 25 25 | 25 151 4 180 | 9 18 20 47 | 3 208 6 217 |
| +45 mins. | 0 0 13 13 | 15 120 2 137 | 5 12 24 41 | 12 177 15 204 |
| Total Volume | 0 0 77 77 | 79 533 15 627 | 32 59 91 182 | 26 715 40 781 |
| % App. Total | 0 0 100 | 12.6 85 2.4 | 17.6 32.4 50 | 3.3 91.5 5.1 |
| PHF | .000 .000 .770 .770 | .790 .882 .750 .871 | .889 .819 .948 .948 | .542 .859 .667 .900 |

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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Passenger Vehicles

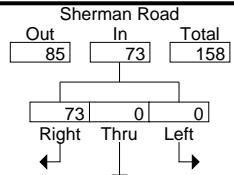
| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | |
|-------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------|-------------|------------|
| Start Time | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Excl. Total | Incl. Total | Int. Total |
| 04:00 PM | 0 | 0 | 11 | 0 | 11 | 16 | 132 | 1 | 0 | 149 | 8 | 14 | 23 | 14 | 45 | 6 | 144 | 8 | 0 | 158 | 14 | 363 | 377 |
| 04:15 PM | 0 | 0 | 23 | 0 | 23 | 11 | 117 | 1 | 0 | 129 | 9 | 13 | 23 | 1 | 45 | 2 | 177 | 9 | 3 | 188 | 4 | 385 | 389 |
| 04:30 PM | 0 | 0 | 25 | 0 | 25 | 20 | 140 | 2 | 0 | 162 | 8 | 18 | 19 | 10 | 45 | 7 | 165 | 9 | 5 | 181 | 15 | 413 | 428 |
| 04:45 PM | 0 | 0 | 13 | 0 | 13 | 10 | 111 | 3 | 0 | 124 | 5 | 9 | 23 | 7 | 37 | 4 | 157 | 8 | 3 | 169 | 10 | 343 | 353 |
| Total | 0 | 0 | 72 | 0 | 72 | 57 | 500 | 7 | 0 | 564 | 30 | 54 | 88 | 32 | 172 | 19 | 643 | 34 | 11 | 696 | 43 | 1504 | 1547 |
| 05:00 PM | 0 | 0 | 10 | 0 | 10 | 21 | 127 | 2 | 0 | 150 | 10 | 9 | 17 | 8 | 36 | 3 | 201 | 6 | 1 | 210 | 9 | 406 | 415 |
| 05:15 PM | 0 | 0 | 25 | 0 | 25 | 18 | 110 | 4 | 0 | 132 | 5 | 12 | 28 | 9 | 45 | 12 | 166 | 13 | 1 | 191 | 10 | 393 | 403 |
| 05:30 PM | 0 | 0 | 17 | 0 | 17 | 25 | 146 | 3 | 0 | 174 | 5 | 5 | 25 | 12 | 35 | 6 | 161 | 11 | 4 | 178 | 16 | 404 | 420 |
| 05:45 PM | 1 | 0 | 15 | 0 | 16 | 15 | 111 | 0 | 0 | 126 | 4 | 9 | 21 | 5 | 34 | 0 | 134 | 12 | 1 | 146 | 6 | 322 | 328 |
| Total | 1 | 0 | 67 | 0 | 68 | 79 | 494 | 9 | 0 | 582 | 24 | 35 | 91 | 34 | 150 | 21 | 662 | 42 | 7 | 725 | 41 | 1525 | 1566 |
| Grand Total | 1 | 0 | 139 | 0 | 140 | 136 | 994 | 16 | 0 | 1146 | 54 | 89 | 179 | 66 | 322 | 40 | 1305 | 76 | 18 | 1421 | 84 | 3029 | 3113 |
| Apprch % | 0.7 | 0 | 99.3 | | | 11.9 | 86.7 | 1.4 | | | 16.8 | 27.6 | 55.6 | | | 2.8 | 91.8 | 5.3 | | | | | |
| Total % | 0 | 0 | 4.6 | | | 4.6 | 4.5 | 32.8 | 0.5 | | 37.8 | 1.8 | 2.9 | 5.9 | | 10.6 | 1.3 | 43.1 | 2.5 | | | 2.7 | 97.3 |

| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | |
|--|-------------------------|------|-------|------------|------|-----------------|-------|------------|------|------|-------------------------|------------|------|------|-------|-----------------|------|------|-------|------------|------------|--|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 25 | 25 | | 20 | 140 | 2 | 162 | | 8 | 18 | 19 | 45 | | 7 | 165 | 9 | 181 | | 413 | |
| 04:45 PM | 0 | 0 | 13 | 13 | | 10 | 111 | 3 | 124 | | 5 | 9 | 23 | 37 | | 4 | 157 | 8 | 169 | | 343 | |
| 05:00 PM | 0 | 0 | 10 | 10 | | 21 | 127 | 2 | 150 | | 10 | 9 | 17 | 36 | | 3 | 201 | 6 | 210 | | 406 | |
| 05:15 PM | 0 | 0 | 25 | 25 | | 18 | 110 | 4 | 132 | | 5 | 12 | 28 | 45 | | 12 | 166 | 13 | 191 | | 393 | |
| Total Volume | 0 | 0 | 73 | 73 | | 69 | 488 | 11 | 568 | | 28 | 48 | 87 | 163 | | 26 | 689 | 36 | 751 | | 1555 | |
| % App. Total | 0 | 0 | 100 | | | 12.1 | 85.9 | 1.9 | | | 17.2 | 29.4 | 53.4 | | | 3.5 | 91.7 | 4.8 | | | | |
| PHF | .000 | .000 | .730 | .730 | | .821 | .871 | .688 | .877 | | .700 | .667 | .777 | .906 | | .542 | .857 | .692 | .894 | | .941 | |

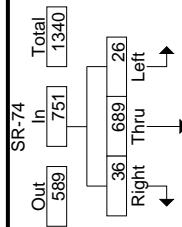
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Corona, CA 92878
(951)268-6268

City of Menifee
N/S: Sherman Road
E/W: SR-74
Weather: Clear

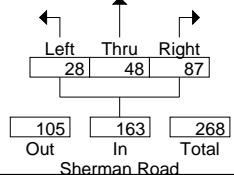
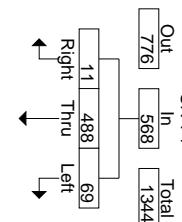
File Name : 06_MEN_Sherman_SR-74 PM
Site Code : 05121545
Start Date : 10/5/2021
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Peak Hour Data



Peak Hour Begins at 04:30 PM
Passenger Vehicles



Counts Unlimited, Inc.
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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 3

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 04:30 PM | | | | 04:30 PM | | | | 04:30 PM | | | |
|--------------|----------|------|-----------|-----------|-----------|------------|----------|------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|
| +0 mins. | 0 | 0 | 25 | 25 | 20 | 140 | 2 | 162 | 8 | 18 | 19 | 45 | 7 | 165 | 9 | 181 |
| +15 mins. | 0 | 0 | 13 | 13 | 10 | 111 | 3 | 124 | 5 | 9 | 23 | 37 | 4 | 157 | 8 | 169 |
| +30 mins. | 0 | 0 | 10 | 10 | 21 | 127 | 2 | 150 | 10 | 9 | 17 | 36 | 3 | 201 | 6 | 210 |
| +45 mins. | 0 | 0 | 25 | 25 | 18 | 110 | 4 | 132 | 5 | 12 | 28 | 45 | 12 | 166 | 13 | 191 |
| Total Volume | 0 | 0 | 73 | 73 | 69 | 488 | 11 | 568 | 28 | 48 | 87 | 163 | 26 | 689 | 36 | 751 |
| % App. Total | 0 | 0 | 100 | | 12.1 | 85.9 | 1.9 | | 17.2 | 29.4 | 53.4 | | 3.5 | 91.7 | 4.8 | |
| PHF | .000 | .000 | .730 | .730 | .821 | .871 | .688 | .877 | .700 | .667 | .777 | .906 | .542 | .857 | .692 | .894 |

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City of Menifee
 N/S: Sherman Road
 E/W: SR-74
 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- Large 2 Axle Vehicles

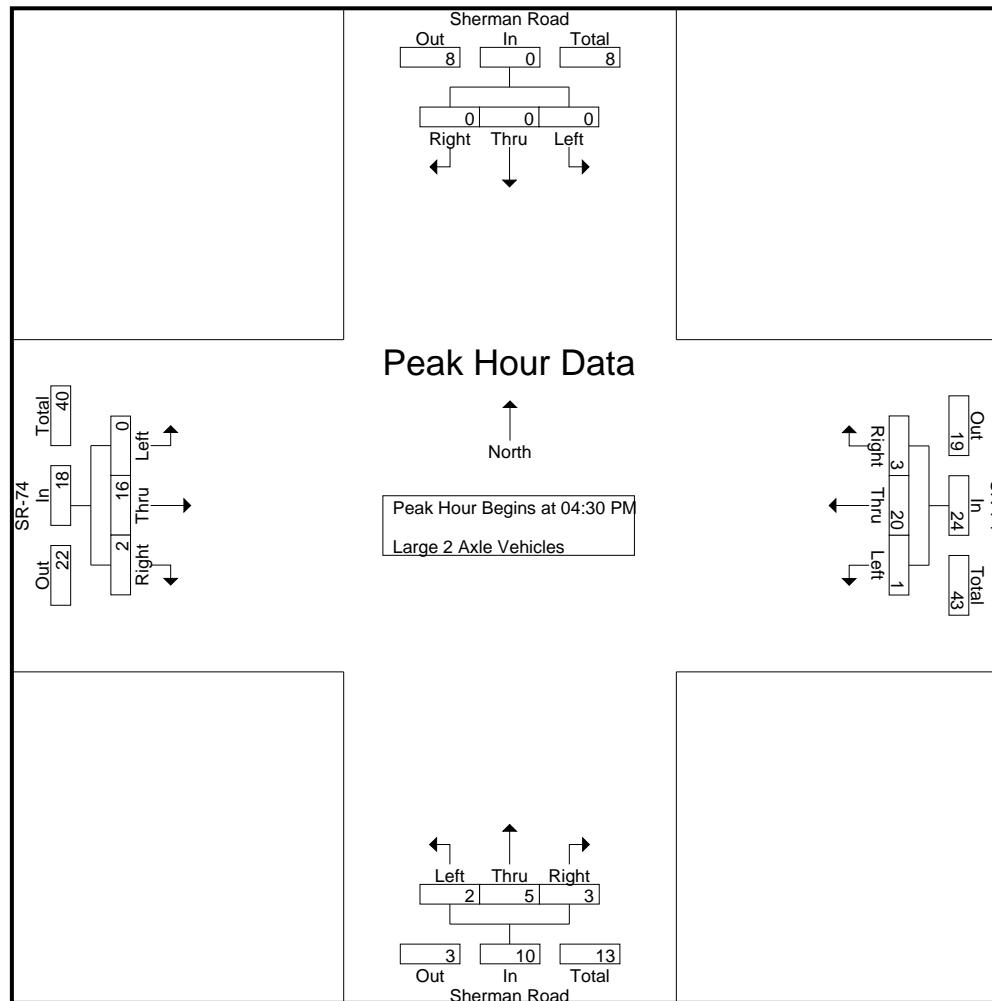
| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | |
|-------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------|--------------|------------|
| Start Time | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Excl. Total | Inclu. Total | Int. Total |
| 04:00 PM | 0 | 0 | 3 | 0 | 3 | 0 | 6 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 2 | 1 | 4 | 0 | 0 | 5 | 0 | 16 | 16 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 3 | 0 | 6 | 6 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 5 | 5 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 1 | 0 | 4 | 0 | 4 | 1 | 0 | 5 | 0 | 13 | 13 |
| Total | 0 | 0 | 3 | 0 | 3 | 1 | 13 | 0 | 0 | 14 | 1 | 5 | 3 | 0 | 9 | 1 | 11 | 2 | 0 | 14 | 0 | 40 | 40 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 12 | 12 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 1 | 0 | 10 | 1 | 2 | 0 | 0 | 3 | 0 | 8 | 1 | 0 | 9 | 0 | 22 | 22 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 1 | 2 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 2 | 0 | 9 | 9 |
| 05:45 PM | 0 | 0 | 2 | 0 | 2 | 0 | 8 | 2 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 15 | 15 |
| Total | 0 | 0 | 2 | 0 | 2 | 0 | 26 | 6 | 0 | 32 | 2 | 4 | 1 | 0 | 7 | 0 | 16 | 1 | 0 | 17 | 0 | 58 | 58 |
| Grand Total | 0 | 0 | 5 | 0 | 5 | 1 | 39 | 6 | 0 | 46 | 3 | 9 | 4 | 0 | 16 | 1 | 27 | 3 | 0 | 31 | 0 | 98 | 98 |
| Apprch % | 0 | 0 | 100 | | | 2.2 | 84.8 | 13 | | | 18.8 | 56.2 | 25 | | | 3.2 | 87.1 | 9.7 | | | | | |
| Total % | 0 | 0 | 5.1 | | 5.1 | 1 | 39.8 | 6.1 | | | 46.9 | 3.1 | 9.2 | 4.1 | | 16.3 | 1 | 27.6 | 3.1 | | 31.6 | 0 | 100 |

| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | |
|--|-------------------------|------|-------|------------|------|-----------------|-------|------------|------|------|-------------------------|------------|------|------|-------|-----------------|------|------|-------|------------|------------|--|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 0 | 0 | | 1 | 1 | 0 | 2 | | 1 | 0 | 1 | 2 | | 0 | 1 | 0 | 1 | | 5 | |
| 04:45 PM | 0 | 0 | 0 | 0 | | 0 | 4 | 0 | 4 | | 0 | 3 | 1 | 4 | | 0 | 4 | 1 | 5 | | 13 | |
| 05:00 PM | 0 | 0 | 0 | 0 | | 0 | 6 | 2 | 8 | | 0 | 0 | 1 | 1 | | 0 | 3 | 0 | 3 | | 12 | |
| 05:15 PM | 0 | 0 | 0 | 0 | | 0 | 9 | 1 | 10 | | 1 | 2 | 0 | 3 | | 0 | 8 | 1 | 9 | | 22 | |
| Total Volume | 0 | 0 | 0 | 0 | | 1 | 20 | 3 | 24 | | 2 | 5 | 3 | 10 | | 0 | 16 | 2 | 18 | | 52 | |
| % App. Total | 0 | 0 | 0 | 0 | | 4.2 | 83.3 | 12.5 | | | 20 | 50 | 30 | | | 0 | 88.9 | 11.1 | | | | |
| PHF | .000 | .000 | .000 | .000 | | .250 | .556 | .375 | .600 | | .500 | .417 | .750 | .625 | | .000 | .500 | .500 | .500 | | .591 | |

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Menifee
N/S: Sherman Road
E/W: SR-74
Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
Site Code : 05121545
Start Date : 10/5/2021
Page No : 2



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City of Menifee
 N/S: Sherman Road
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File Name : 06_MEN_Sherman_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 3

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | | | |
|--|----------------------------|------|-------|------------|--------------------|------|-------|------------|----------------------------|----------|-------|------------|--------------------|------|----------|------------|------------|------|------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total | | |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | | | |
| +0 mins. | 0 | 0 | 0 | 0 | 04:30 PM | 1 | 1 | 0 | 2 | 04:30 PM | 1 | 0 | 1 | 2 | 04:30 PM | 1 | 0 | 1 | 1 |
| +15 mins. | 0 | 0 | 0 | 0 | | 0 | 4 | 0 | 4 | | 0 | 3 | 1 | 4 | | 0 | 4 | 1 | 5 |
| +30 mins. | 0 | 0 | 0 | 0 | | 0 | 6 | 2 | 8 | | 0 | 0 | 1 | 1 | | 0 | 3 | 0 | 3 |
| +45 mins. | 0 | 0 | 0 | 0 | | 0 | 9 | 1 | 10 | | 1 | 2 | 0 | 3 | | 0 | 8 | 1 | 9 |
| Total Volume | 0 | 0 | 0 | 0 | | 1 | 20 | 3 | 24 | | 2 | 5 | 3 | 10 | | 0 | 16 | 2 | 18 |
| % App. Total | 0 | 0 | 0 | | | 4.2 | 83.3 | 12.5 | | | 20 | 50 | 30 | | | 0 | 88.9 | 11.1 | |
| PHF | .000 | .000 | .000 | .000 | | .250 | .556 | .375 | .600 | | .500 | .417 | .750 | .625 | | .000 | .500 | .500 | .500 |

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City of Menifee
 N/S: Sherman Road
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 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 3 Axle Vehicles

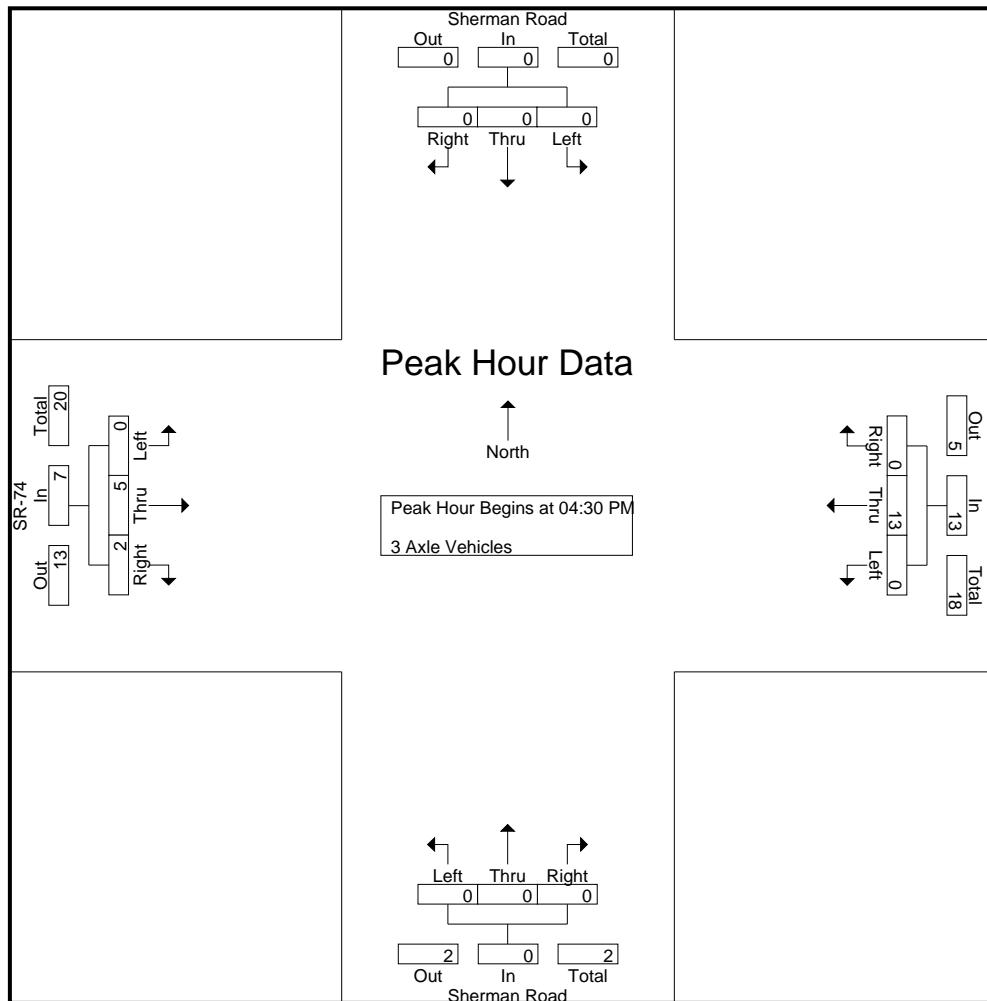
| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | |
|-------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------|--------------|------------|
| Start Time | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Excl. Total | Inclu. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 5 | 5 |
| 04:15 PM | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 5 | 6 |
| Total | 0 | 0 | 1 | 0 | 1 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 14 | 15 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 8 | 8 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 6 | 6 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 2 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 7 | 0 | 18 | 18 |
| Grand Total | 0 | 0 | 1 | 0 | 1 | 0 | 22 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 1 | 9 | 1 | 32 | 33 |
| Apprch % | 0 | 0 | 100 | | | 0 | 100 | 0 | | | 0 | 0 | 0 | | | 0 | 77.8 | 22.2 | | | | | |
| Total % | 0 | 0 | 3.1 | | 3.1 | 0 | 68.8 | 0 | | 68.8 | 0 | 0 | 0 | | 0 | 0 | 21.9 | 6.2 | | 28.1 | 3 | 97 | |

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|--|-------------------------|------|-------|------------|-----------------|------|-------|------------|-------------------------|------|-------|------------|-----------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 7 | 20 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 71.4 | 28.6 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .650 | .000 | .650 | .000 | .000 | .000 | .000 | .000 | .417 | .500 | .583 | .625 |

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City of Menifee
N/S: Sherman Road
E/W: SR-74
Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
Site Code : 05121545
Start Date : 10/5/2021
Page No : 2



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City of Menifee
 N/S: Sherman Road
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 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 3

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|--|----------------------------|------|-------|------------|--------------------|------|-------|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 3 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 3 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 7 | |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 71.4 | 28.6 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .650 | .000 | .650 | .000 | .000 | .000 | .000 | .000 | .417 | .500 | .583 | |

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City of Menifee
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 Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
 Site Code : 05121545
 Start Date : 10/5/2021
 Page No : 1

Groups Printed- 4+ Axle Trucks

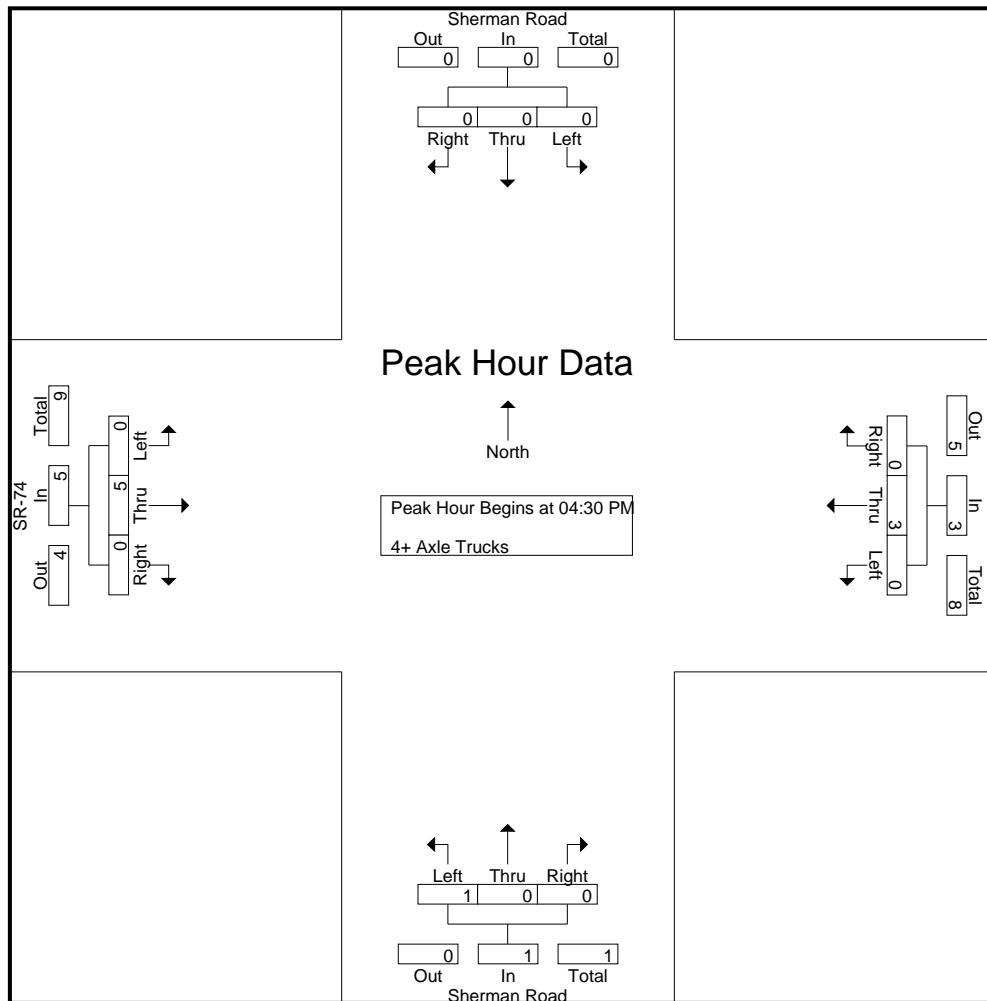
| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | | | |
|-------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------------------|------|-------|------|------------|-----------------|------|-------|------|------------|-------------|--------------|------------|
| Start Time | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Left | Thru | Right | RTOR | App. Total | Excl. Total | Inclu. Total | Int. Total |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 2 |
| 04:15 PM | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 3 | 3 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 2 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 2 |
| Total | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 5 | 1 | 0 | 6 | 0 | 9 | 9 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 4 | 4 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 6 | 6 |
| Grand Total | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 2 | 0 | 8 | 1 | 0 | 9 | 0 | 15 | 15 |
| Apprch % | 0 | 0 | 100 | | | 0 | 100 | 0 | | | 100 | 0 | 0 | | | 0 | 88.9 | 11.1 | | | | | |
| Total % | 0 | 0 | 6.7 | | 6.7 | 0 | 20 | 0 | | | 20 | 13.3 | 0 | 0 | 13.3 | 0 | 53.3 | 6.7 | | | 60 | 0 | 100 |

| | Sherman Road Southbound | | | | | SR-74 Westbound | | | | | Sherman Road Northbound | | | | | SR-74 Eastbound | | | | | |
|--|-------------------------|------|-------|------------|--|-----------------|------|-------|------------|--|-------------------------|------|-------|------------|--|-----------------|------|-------|------------|--|------------|
| Start Time | Left | Thru | Right | App. Total | | Left | Thru | Right | App. Total | | Left | Thru | Right | App. Total | | Left | Thru | Right | App. Total | | Int. Total |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 2 | 0 | 2 | | 2 |
| 04:45 PM | 0 | 0 | 0 | 0 | | 0 | 1 | 0 | 1 | | 0 | 0 | 0 | 0 | | 0 | 1 | 0 | 1 | | 2 |
| 05:00 PM | 0 | 0 | 0 | 0 | | 0 | 2 | 0 | 2 | | 1 | 0 | 0 | 1 | | 0 | 1 | 0 | 1 | | 4 |
| 05:15 PM | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 1 | 0 | 1 | | 1 |
| Total Volume | 0 | 0 | 0 | 0 | | 0 | 3 | 0 | 3 | | 1 | 0 | 0 | 1 | | 0 | 5 | 0 | 5 | | 9 |
| % App. Total | 0 | 0 | 0 | 0 | | 0 | 100 | 0 | 100 | | 100 | 0 | 0 | 100 | | 0 | 100 | 0 | 100 | | |
| PHF | .000 | .000 | .000 | .000 | | .000 | .375 | .000 | .375 | | .250 | .000 | .000 | .250 | | .000 | .625 | .000 | .625 | | .563 |

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City of Menifee
N/S: Sherman Road
E/W: SR-74
Weather: Clear

File Name : 06_MEN_Sherman_SR-74 PM
Site Code : 05121545
Start Date : 10/5/2021
Page No : 2



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 N/S: Sherman Road
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File Name : 06_MEN_Sherman_SR-74 PM
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 Page No : 3

| | Sherman Road Southbound | | | | SR-74 Westbound | | | | Sherman Road Northbound | | | | SR-74 Eastbound | | | | |
|--|----------------------------|------|-------|------------|--------------------|------|-------|------------|----------------------------|------|-------|------------|--------------------|------|-------|------------|------------|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Each Approach Begins at: | | | | | | | | | | | | | | | | | |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 5 | 0 | 5 | |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | |
| PHF | .000 | .000 | .000 | .000 | .000 | .375 | .000 | .375 | .250 | .000 | .000 | .250 | .000 | .625 | .000 | .625 | |

Location: Menifee
N/S: Sherman Road
E/W: SR-74



Date: 10/5/2021
Day: Tuesday

PEDESTRIANS

| | North Leg Sherman Road Pedestrians | East Leg SR-74 Pedestrians | South Leg Dead End Pedestrians | West Leg SR-74 Pedestrians | |
|----------------|--|----------------------------------|--------------------------------------|----------------------------------|---|
| 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 |

| | North Leg Sherman Road Pedestrians | East Leg SR-74 Pedestrians | South Leg Dead End Pedestrians | West Leg SR-74 Pedestrians | |
|----------------|--|----------------------------------|--------------------------------------|----------------------------------|---|
| 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 1 | 0 | 0 | 1 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 1 | 0 | 0 | 1 |

Location: Menifee
 N/S: Sherman Road
 E/W: SR-74



Date: 10/5/2021
 Day: Tuesday

BICYCLES

| | Southbound Sherman Road | | | Westbound SR-74 | | | Northbound Dead End | | | Eastbound SR-74 | | | |
|----------------|----------------------------|------|-------|--------------------|------|-------|------------------------|------|-------|--------------------|------|-------|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | Southbound Sherman Road | | | Westbound SR-74 | | | Northbound Dead End | | | Eastbound SR-74 | | | |
|----------------|----------------------------|------|-------|--------------------|------|-------|------------------------|------|-------|--------------------|------|-------|---|
| | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Counts Unlimited, Inc.

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City of Menifee

Mapes Road

W/ Sherman Road

24 Hour Directional Classification Count

Eastbound, Westbound

MENMAWSH

Site Code: 051-21545

| Start Time | Bikes | Cars & Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | <5 Axl Double | 5 Axle Double | >6 Axl Double | <6 Axl Multi | 6 Axle Multi | >6 Axl Multi | Total |
|--------------|----------|-----------------|-------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|
| 10/05/21 | 0 | 26 | 4 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 33 |
| 01:00 | 0 | 17 | 5 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 24 |
| 02:00 | 0 | 44 | 5 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 54 |
| 03:00 | 0 | 43 | 14 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 65 |
| 04:00 | 0 | 65 | 26 | 1 | 18 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 112 |
| 05:00 | 2 | 117 | 53 | 0 | 27 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 203 |
| 06:00 | 0 | 166 | 42 | 0 | 28 | 1 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 243 |
| 07:00 | 3 | 230 | 84 | 1 | 55 | 2 | 0 | 5 | 1 | 0 | 2 | 0 | 0 | 383 |
| 08:00 | 0 | 212 | 71 | 2 | 29 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 319 |
| 09:00 | 0 | 159 | 51 | 0 | 26 | 1 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 243 |
| 10:00 | 1 | 124 | 39 | 1 | 33 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 202 |
| 11:00 | 0 | 117 | 59 | 1 | 30 | 2 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 215 |
| 12 PM | 2 | 146 | 53 | 1 | 42 | 3 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 255 |
| 13:00 | 3 | 185 | 66 | 0 | 34 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 291 |
| 14:00 | 1 | 169 | 70 | 3 | 38 | 1 | 1 | 3 | 5 | 0 | 0 | 0 | 0 | 291 |
| 15:00 | 1 | 235 | 95 | 2 | 63 | 2 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 403 |
| 16:00 | 4 | 268 | 82 | 1 | 48 | 3 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 409 |
| 17:00 | 4 | 225 | 84 | 0 | 41 | 3 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 362 |
| 18:00 | 0 | 230 | 63 | 0 | 40 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 338 |
| 19:00 | 1 | 162 | 49 | 1 | 24 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 242 |
| 20:00 | 0 | 138 | 24 | 1 | 17 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 183 |
| 21:00 | 0 | 110 | 19 | 0 | 18 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 148 |
| 22:00 | 0 | 59 | 17 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 80 |
| 23:00 | 1 | 37 | 11 | 0 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 57 |
| Total | 23 | 3284 | 1086 | 16 | 634 | 24 | 2 | 54 | 24 | 0 | 7 | 1 | 0 | 5155 |
| Percent | 0.4% | 63.7% | 21.1% | 0.3% | 12.3% | 0.5% | 0.0% | 1.0% | 0.5% | 0.0% | 0.1% | 0.0% | 0.0% | |
| AM Peak Vol. | 07:00 | 07:00 | 07:00 | 08:00 | 07:00 | 07:00 | | 06:00 | 11:00 | | 07:00 | | | 07:00 |
| PM Peak Vol. | 16:00 | 16:00 | 15:00 | 14:00 | 15:00 | 12:00 | 13:00 | 12:00 | 14:00 | | 13:00 | 22:00 | | 16:00 |
| | 4 | 268 | 95 | 3 | 63 | 3 | 1 | 4 | 5 | | 1 | 1 | | 409 |
| Grand Total | 23 | 3284 | 1086 | 16 | 634 | 24 | 2 | 54 | 24 | 0 | 7 | 1 | 0 | 5155 |
| Percent | 0.4% | 63.7% | 21.1% | 0.3% | 12.3% | 0.5% | 0.0% | 1.0% | 0.5% | 0.0% | 0.1% | 0.0% | 0.0% | |

Counts Unlimited, Inc.

PO Box 1178

Corona, CA 92878

Phone: (951) 268-6268

email: counts@countsunlimited.com

City of Menifee

State Route 74

W/ Trumble Road

24 Hour Directional Classification Count

Eastbound, Westbound

MEN74WTR

Site Code: 051-21545

| Start Time | Bikes | Cars & Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | <5 Axl Double | 5 Axle Double | >6 Axl Double | <6 Axl Multi | 6 Axle Multi | >6 Axl Multi | Total |
|--------------|-------|-----------------|-------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|-------|
| 10/05/21 | 2 | 140 | 53 | 0 | 19 | 2 | 0 | 2 | 7 | 0 | 1 | 0 | 0 | 226 |
| 01:00 | 0 | 95 | 33 | 2 | 4 | 0 | 0 | 2 | 5 | 1 | 0 | 0 | 0 | 142 |
| 02:00 | 0 | 109 | 56 | 1 | 23 | 4 | 0 | 4 | 7 | 0 | 1 | 0 | 0 | 205 |
| 03:00 | 2 | 198 | 73 | 1 | 41 | 0 | 0 | 6 | 6 | 0 | 1 | 1 | 0 | 329 |
| 04:00 | 3 | 482 | 168 | 9 | 91 | 5 | 0 | 23 | 10 | 1 | 2 | 3 | 0 | 797 |
| 05:00 | 6 | 621 | 300 | 15 | 222 | 10 | 2 | 25 | 11 | 5 | 2 | 0 | 0 | 1219 |
| 06:00 | 9 | 735 | 337 | 26 | 233 | 20 | 1 | 81 | 23 | 7 | 17 | 2 | 3 | 1494 |
| 07:00 | 13 | 867 | 416 | 20 | 237 | 20 | 3 | 82 | 12 | 2 | 39 | 4 | 3 | 1718 |
| 08:00 | 8 | 749 | 354 | 28 | 202 | 13 | 2 | 52 | 18 | 5 | 58 | 4 | 5 | 1498 |
| 09:00 | 10 | 591 | 315 | 17 | 256 | 19 | 1 | 53 | 21 | 7 | 63 | 5 | 5 | 1363 |
| 10:00 | 5 | 566 | 291 | 16 | 177 | 7 | 1 | 53 | 21 | 3 | 65 | 4 | 3 | 1212 |
| 11:00 | 6 | 614 | 276 | 20 | 172 | 10 | 5 | 71 | 20 | 6 | 57 | 4 | 6 | 1267 |
| 12 PM | 11 | 694 | 300 | 18 | 177 | 19 | 1 | 55 | 20 | 8 | 57 | 4 | 5 | 1369 |
| 13:00 | 14 | 749 | 323 | 27 | 170 | 18 | 2 | 62 | 24 | 6 | 63 | 6 | 2 | 1466 |
| 14:00 | 4 | 847 | 369 | 26 | 195 | 12 | 0 | 93 | 22 | 9 | 51 | 1 | 2 | 1631 |
| 15:00 | 14 | 965 | 383 | 25 | 211 | 13 | 2 | 98 | 12 | 11 | 8 | 2 | 3 | 1747 |
| 16:00 | 14 | 947 | 377 | 10 | 203 | 18 | 3 | 107 | 4 | 19 | 3 | 1 | 3 | 1709 |
| 17:00 | 13 | 997 | 363 | 14 | 194 | 10 | 3 | 108 | 4 | 9 | 4 | 1 | 0 | 1720 |
| 18:00 | 8 | 830 | 351 | 13 | 179 | 12 | 4 | 84 | 5 | 6 | 4 | 1 | 0 | 1497 |
| 19:00 | 3 | 704 | 263 | 17 | 108 | 3 | 0 | 61 | 4 | 4 | 2 | 1 | 1 | 1171 |
| 20:00 | 8 | 547 | 224 | 10 | 86 | 2 | 2 | 32 | 8 | 0 | 3 | 0 | 0 | 922 |
| 21:00 | 5 | 441 | 112 | 4 | 55 | 1 | 0 | 19 | 1 | 1 | 1 | 0 | 0 | 640 |
| 22:00 | 0 | 339 | 97 | 4 | 26 | 0 | 1 | 10 | 9 | 0 | 3 | 1 | 0 | 490 |
| 23:00 | 1 | 212 | 58 | 4 | 28 | 0 | 0 | 6 | 2 | 0 | 4 | 0 | 0 | 315 |
| Total | 159 | 14039 | 5892 | 327 | 3309 | 218 | 33 | 1189 | 276 | 110 | 509 | 45 | 41 | 26147 |
| Percent | 0.6% | 53.7% | 22.5% | 1.3% | 12.7% | 0.8% | 0.1% | 4.5% | 1.1% | 0.4% | 1.9% | 0.2% | 0.2% | |
| AM Peak Vol. | 07:00 | 07:00 | 07:00 | 08:00 | 09:00 | 06:00 | 11:00 | 07:00 | 06:00 | 06:00 | 10:00 | 09:00 | 11:00 | 07:00 |
| PM Peak Vol. | 13:00 | 17:00 | 15:00 | 13:00 | 15:00 | 12:00 | 18:00 | 17:00 | 13:00 | 16:00 | 13:00 | 13:00 | 12:00 | 15:00 |
| Grand Total | 159 | 14039 | 5892 | 327 | 3309 | 218 | 33 | 1189 | 276 | 110 | 509 | 45 | 41 | 26147 |
| Percent | 0.6% | 53.7% | 22.5% | 1.3% | 12.7% | 0.8% | 0.1% | 4.5% | 1.1% | 0.4% | 1.9% | 0.2% | 0.2% | |

**APPENDIX 3.2: EXISTING (2022) CONDITIONS INTERSECTION
OPERATIONS ANALYSIS WORKSHEETS**

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Volume Development

| | | | | |
|-----------|---|-------------|-----------|-----|
| | 1: I-215 Southbound Ramps & Case Rd. | Count Date: | 10/5/2021 | |
| | PHF: <u>0.967</u> 7:15 | NBL | NBT | NBR |
| | | 269 | 383 | 0 |
| | | SBL | SBT | SBR |
| | | 0 | 477 | 37 |
| | | EBL | EBT | EBR |
| | | 22 | 0 | 232 |
| | | WBL | WBT | WBL |
| | | 0 | 0 | 0 |
| | | WBR | WBR | WBR |
| | | 0 | 0 | 0 |
| 2022 PCE: | TOTAL | 1,420 | | |
| | 2: I-215 Northbound Ramps & SR-74 | Count Date: | 10/5/2021 | |
| | PHF: <u>0.941</u> 7:15 | NBL | NBT | NBR |
| | | 0 | 0 | 0 |
| | | SBL | SBT | SBR |
| | | 178 | 0 | 12 |
| | | EBL | EBT | EBR |
| | | 28 | 681 | 0 |
| | | WBL | WBT | WBL |
| | | 640 | 659 | 0 |
| | | WBR | WBR | WBR |
| 2022 PCE: | TOTAL | 2,198 | | |
| | 3: Trumble Rd. & Mapes Rd. | Count Date: | 10/5/2021 | |
| | PHF: <u>0.886</u> 7:00 | NBL | NBT | NBR |
| | | 62 | 132 | 133 |
| | | SBL | SBT | SBR |
| | | 3 | 121 | 2 |
| | | EBL | EBT | EBR |
| | | 1 | 22 | 56 |
| | | WBL | WBT | WBL |
| | | 12 | 12 | 260 |
| | | WBR | WBR | WBR |
| 2022 PCE: | TOTAL | 810 | | |
| | 4: Trumble Rd. & SR-74 | Count Date: | 10/5/2021 | |
| | PHF: <u>0.970</u> 7:15 | NBL | NBT | NBR |
| | | 0 | 0 | 0 |
| | | SBL | SBT | SBR |
| | | 36 | 0 | 531 |
| | | EBL | EBT | EBR |
| | | 298 | 560 | 0 |
| | | WBL | WBT | WBL |
| | | 26 | 768 | 0 |
| 2022 PCE: | TOTAL | 2,220 | | |
| | 5: Driveway 1 & Mapes Rd. | Count Date: | | |
| | PHF: <u>0.920</u> | NBL | NBT | NBR |
| | | 0 | 0 | 0 |
| | | SBL | SBT | SBR |
| | | 0 | 0 | 0 |
| | | EBL | EBT | EBR |
| | | 0 | 158 | 0 |
| | | WBL | WBT | WBL |
| | | 0 | 278 | 0 |
| 2022 PCE: | TOTAL | 437 | | |
| | 6: Driveway 2 & Mapes Rd. | Count Date: | | |
| | PHF: <u>0.920</u> | NBL | NBT | NBR |
| | | 0 | 0 | 0 |
| | | SBL | SBT | SBR |
| | | 0 | 0 | 0 |
| | | EBL | EBT | EBR |
| | | 0 | 158 | 0 |
| | | WBL | WBT | WBL |
| | | 0 | 278 | 0 |
| 2022 PCE: | TOTAL | 437 | | |
| | 7: Sherman Rd. & Mapes Rd. | Count Date: | 10/5/2021 | |
| | PHF: <u>0.920</u> 7:30 | NBL | NBT | NBR |
| | | 3 | 14 | 16 |
| | | SBL | SBT | SBR |
| | | 5 | 2 | 24 |
| | | EBL | EBT | EBR |
| | | 15 | 106 | 37 |
| | | WBL | WBT | WBL |
| | | 2 | 251 | 12 |
| 2022 PCE: | TOTAL | 488 | | |
| | 8: Sherman Rd. & Driveway 3 | Count Date: | | |
| | PHF: <u>0.920</u> | NBL | NBT | NBR |
| | | 0 | 33 | 0 |
| | | SBL | SBT | SBR |
| | | 0 | 51 | 0 |
| | | EBL | EBT | EBR |
| | | 0 | 0 | 0 |
| | | WBL | WBT | WBL |
| | | 0 | 0 | 0 |
| 2022 PCE: | TOTAL | 84 | | |
| | 9: Sherman Rd. & Driveway 4 | Count Date: | | |
| | PHF: <u>0.920</u> | NBL | NBT | NBR |
| | | 0 | 33 | 0 |
| | | SBL | SBT | SBR |
| | | 0 | 51 | 0 |
| | | EBL | EBT | EBR |
| | | 0 | 0 | 0 |
| | | WBL | WBT | WBL |
| | | 0 | 0 | 0 |
| 2022 PCE: | TOTAL | 84 | | |
| | 10: Sherman Rd. & Driveway 5 | Count Date: | | |
| | PHF: <u>0.920</u> | NBL | NBT | NBR |
| | | 0 | 33 | 0 |
| | | SBL | SBT | SBR |
| | | 0 | 51 | 0 |
| | | EBL | EBT | EBR |
| | | 0 | 0 | 0 |
| | | WBL | WBT | WBL |
| | | 0 | 0 | 0 |
| 2022 PCE: | TOTAL | 84 | | |
| | 11. Sherman Rd. & SR-74 | Count Date: | 10/5/2021 | |
| | PHF: <u>0.936</u> 7:15 | NBL | NBT | NBR |
| | | 0 | 0 | 0 |
| | | SBL | SBT | SBR |
| | | 0 | 0 | 103 |
| | | EBL | EBT | EBR |
| | | 0 | 553 | 0 |
| | | WBL | WBT | WBL |
| | | 10 | 640 | 0 |
| 2022 PCE: | TOTAL | 1,305 | | |

Volume Development

| | | | | | | | | | | | | | | | |
|--|---|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|--|--|
| | 1: I-215 Southbound Ramps & Case Rd. | | | | | | | | | | | | | | |
| | PHF: <u>0.928</u> | | 4:30 | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>224</u> | <u>288</u> | <u>0</u> | <u>0</u> | <u>726</u> | <u>47</u> | <u>19</u> | <u>0</u> | <u>168</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>1,472</u> | | |
| 2: I-215 Northbound Ramps & SR-74 | | | | | | | | | | | | | | | |
| | PHF: <u>0.909</u> | | 4:30 | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>0</u> | <u>0</u> | <u>0</u> | <u>205</u> | <u>0</u> | <u>37</u> | <u>13</u> | <u>881</u> | <u>0</u> | <u>0</u> | <u>475</u> | <u>565</u> | <u>2,176</u> | | |
| 3: Trumble Rd. & Mapes Rd. | | | | | | | | | | | | | | | |
| | PHF: <u>0.832</u> | | 4:30 | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>10</u> | <u>81</u> | <u>214</u> | <u>51</u> | <u>187</u> | <u>2</u> | <u>0</u> | <u>6</u> | <u>6</u> | <u>165</u> | <u>1</u> | <u>9</u> | <u>731</u> | | |
| 4: Trumble Rd. & SR-74 | | | | | | | | | | | | | | | |
| | PHF: <u>0.927</u> | | 4:30 | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>0</u> | <u>0</u> | <u>0</u> | <u>38</u> | <u>0</u> | <u>370</u> | <u>292</u> | <u>793</u> | <u>0</u> | <u>0</u> | <u>670</u> | <u>41</u> | <u>2,204</u> | | |
| 5: Driveway 1 & Mapes Rd. | | | | | | | | | | | | | | | |
| | PHF: <u>0.920</u> | | | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>270</u> | <u>0</u> | <u>0</u> | <u>175</u> | <u>0</u> | <u>445</u> | | |
| 6: Driveway 2 & Mapes Rd. | | | | | | | | | | | | | | | |
| | PHF: <u>0.920</u> | | | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>270</u> | <u>0</u> | <u>0</u> | <u>175</u> | <u>0</u> | <u>445</u> | | |
| 7: Sherman Rd. & Mapes Rd. | | | | | | | | | | | | | | | |
| | PHF: <u>0.862</u> | | 4:15 | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>7</u> | <u>6</u> | <u>20</u> | <u>2</u> | <u>7</u> | <u>27</u> | <u>26</u> | <u>222</u> | <u>22</u> | <u>11</u> | <u>141</u> | <u>4</u> | <u>495</u> | | |
| 8: Sherman Rd. & Driveway 3 | | | | | | | | | | | | | | | |
| | PHF: <u>0.920</u> | | | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>0</u> | <u>33</u> | <u>0</u> | <u>0</u> | <u>40</u> | <u>0</u> | <u>73</u> | | |
| 9: Sherman Rd. & Driveway 4 | | | | | | | | | | | | | | | |
| | PHF: <u>0.920</u> | | | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>0</u> | <u>33</u> | <u>0</u> | <u>0</u> | <u>40</u> | <u>0</u> | <u>73</u> | | |
| 10: Sherman Rd. & Driveway 5 | | | | | | | | | | | | | | | |
| | PHF: <u>0.920</u> | | | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>0</u> | <u>33</u> | <u>0</u> | <u>0</u> | <u>40</u> | <u>0</u> | <u>73</u> | | |
| 11. Sherman Rd. & SR-74 | | | | | | | | | | | | | | | |
| | PHF: <u>0.951</u> | | 4:30 | | | | | | | | | | | | |
| 2022 PCE: | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBC</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> | <u>TOTAL</u> | | |
| | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>74</u> | <u>0</u> | <u>823</u> | <u>0</u> | <u>0</u> | <u>564</u> | <u>16</u> | <u>1,477</u> | | |



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------|-------|------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 22 | 232 | 269 | 383 | 477 | 37 |
| Future Volume (vph) | 22 | 232 | 269 | 383 | 477 | 37 |
| Turn Type | Prot | Free | Prot | NA | NA | Perm |
| Protected Phases | 8 | | 1 | 6 | 2 | |
| Permitted Phases | | Free | | | | 2 |
| Detector Phase | 8 | | 1 | 6 | 2 | 2 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 22.6 | | 10.0 | 24.2 | 24.2 | 24.2 |
| Total Split (s) | 22.6 | | 27.0 | 67.4 | 40.4 | 40.4 |
| Total Split (%) | 25.1% | | 30.0% | 74.9% | 44.9% | 44.9% |
| Yellow Time (s) | 5.0 | | 4.0 | 5.0 | 5.0 | 5.0 |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.0 | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | Lead | | Lag | Lag | |
| Lead-Lag Optimize? | | Yes | | Yes | Yes | |
| Recall Mode | None | | None | None | None | None |
| Act Effect Green (s) | 6.3 | 47.8 | 13.3 | 35.2 | 18.2 | 18.2 |
| Actuated g/C Ratio | 0.13 | 1.00 | 0.28 | 0.74 | 0.38 | 0.38 |
| v/c Ratio | 0.10 | 0.15 | 0.55 | 0.28 | 0.68 | 0.06 |
| Control Delay | 28.7 | 0.2 | 22.5 | 3.1 | 19.5 | 7.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 28.7 | 0.2 | 22.5 | 3.1 | 19.5 | 7.8 |
| LOS | C | A | C | A | B | A |
| Approach Delay | 2.7 | | | 11.1 | 18.6 | |
| Approach LOS | A | | | B | B | |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 47.8

Natural Cycle: 65

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.68

Intersection Signal Delay: 12.3

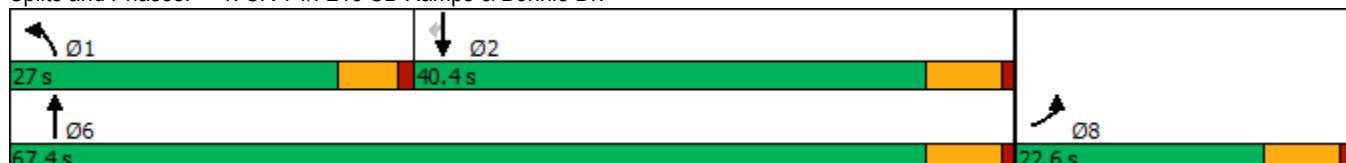
Intersection LOS: B

Intersection Capacity Utilization 58.3%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 1: SR-74/I-215 SB Ramps & Bonnie Dr.



HCM 6th Signalized Intersection Summary
1: SR-74/I-215 SB Ramps & Bonnie Dr.

Mapes & Sherman (JN 14804)
08/19/2022



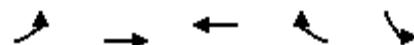
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 22 | 232 | 269 | 383 | 477 | 37 |
| Future Volume (veh/h) | 22 | 232 | 269 | 383 | 477 | 37 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | No | | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 23 | 0 | 277 | 395 | 492 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 51 | | 353 | 1247 | 626 | |
| Arrive On Green | 0.03 | 0.00 | 0.20 | 0.66 | 0.33 | 0.00 |
| Sat Flow, veh/h | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Grp Volume(v), veh/h | 23 | 0 | 277 | 395 | 492 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Q Serve(g_s), s | 0.5 | 0.0 | 5.5 | 3.4 | 8.9 | 0.0 |
| Cycle Q Clear(g_c), s | 0.5 | 0.0 | 5.5 | 3.4 | 8.9 | 0.0 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 51 | | 353 | 1247 | 626 | |
| V/C Ratio(X) | 0.45 | | 0.78 | 0.32 | 0.79 | |
| Avail Cap(c_a), veh/h | 790 | | 1047 | 3068 | 1719 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 18.2 | 0.0 | 14.5 | 2.8 | 11.5 | 0.0 |
| Incr Delay (d2), s/veh | 2.3 | 0.0 | 1.5 | 0.1 | 0.8 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.2 | 0.0 | 1.7 | 0.0 | 2.5 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 20.4 | 0.0 | 16.0 | 2.9 | 12.4 | 0.0 |
| LnGrp LOS | C | | B | A | B | |
| Approach Vol, veh/h | 23 | | | 672 | 492 | |
| Approach Delay, s/veh | 20.4 | | | 8.3 | 12.4 | |
| Approach LOS | C | | | A | B | |
| Timer - Assigned Phs | 1 | 2 | | 6 | 8 | |
| Phs Duration (G+Y+R _c), s | 12.4 | 18.5 | | 30.9 | 7.1 | |
| Change Period (Y+R _c), s | 5.0 | 6.0 | | 6.0 | 6.0 | |
| Max Green Setting (Gmax), s | 22.0 | 34.4 | | 61.4 | 16.6 | |
| Max Q Clear Time (g_c+l1), s | 7.5 | 10.9 | | 5.4 | 2.5 | |
| Green Ext Time (p_c), s | 0.3 | 1.7 | | 1.3 | 0.0 | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 10.2 |
| HCM 6th LOS | B |

Notes

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



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|----------------------|-------|-------|-------|------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ |
| Traffic Volume (vph) | 28 | 681 | 640 | 659 | 178 |
| Future Volume (vph) | 28 | 681 | 640 | 659 | 178 |
| Turn Type | Prot | NA | NA | Free | Prot |
| Protected Phases | 5 | 2 | 6 | | 4 |
| Permitted Phases | | | | Free | |
| Detector Phase | 5 | 2 | 6 | | 4 |
| Switch Phase | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | | 5.0 |
| Minimum Split (s) | 10.3 | 22.5 | 22.5 | | 22.5 |
| Total Split (s) | 15.0 | 59.0 | 44.0 | | 31.0 |
| Total Split (%) | 16.7% | 65.6% | 48.9% | | 34.4% |
| Yellow Time (s) | 4.3 | 4.3 | 4.3 | | 4.3 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Lost Time (s) | 5.3 | 5.3 | 5.3 | | 5.3 |
| Lead/Lag | Lead | | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | | |
| Recall Mode | None | None | None | | None |
| Act Effect Green (s) | 6.7 | 18.0 | 16.6 | 33.3 | 10.2 |
| Actuated g/C Ratio | 0.20 | 0.54 | 0.50 | 1.00 | 0.31 |
| v/c Ratio | 0.08 | 0.37 | 0.38 | 0.43 | 0.37 |
| Control Delay | 18.4 | 7.4 | 9.9 | 0.9 | 14.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 18.4 | 7.4 | 9.9 | 0.9 | 14.6 |
| LOS | B | A | A | A | B |
| Approach Delay | | 7.8 | 5.3 | | 14.6 |
| Approach LOS | | A | A | | B |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 33.3

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.43

Intersection Signal Delay: 6.9

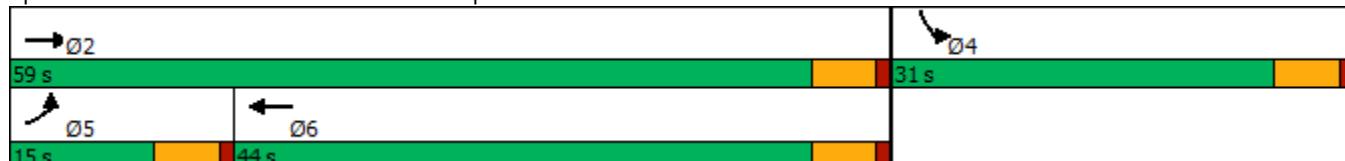
Intersection LOS: A

Intersection Capacity Utilization 42.7%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 2: SR-74 & I-215 NB Ramps



HCM 6th Signalized Intersection Summary
2: SR-74 & I-215 NB Ramps

Mapes & Sherman (JN 14804)
08/19/2022



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ | |
| Traffic Volume (veh/h) | 28 | 681 | 640 | 659 | 178 | 12 |
| Future Volume (veh/h) | 28 | 681 | 640 | 659 | 178 | 12 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 30 | 724 | 681 | 0 | 189 | 7 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 66 | 1862 | 1118 | | 251 | 9 |
| Arrive On Green | 0.04 | 0.52 | 0.31 | 0.00 | 0.15 | 0.15 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1729 | 64 |
| Grp Volume(v), veh/h | 30 | 724 | 681 | 0 | 197 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1802 | 0 |
| Q Serve(g_s), s | 0.5 | 3.8 | 5.0 | 0.0 | 3.3 | 0.0 |
| Cycle Q Clear(g_c), s | 0.5 | 3.8 | 5.0 | 0.0 | 3.3 | 0.0 |
| Prop In Lane | 1.00 | | | 1.00 | 0.96 | 0.04 |
| Lane Grp Cap(c), veh/h | 66 | 1862 | 1118 | | 262 | 0 |
| V/C Ratio(X) | 0.45 | 0.39 | 0.61 | | 0.75 | 0.00 |
| Avail Cap(c_a), veh/h | 561 | 6196 | 4465 | | 1480 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 14.8 | 4.6 | 9.2 | 0.0 | 12.8 | 0.0 |
| Incr Delay (d2), s/veh | 1.8 | 0.0 | 0.2 | 0.0 | 1.7 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.2 | 0.2 | 1.0 | 0.0 | 1.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 16.5 | 4.6 | 9.4 | 0.0 | 14.5 | 0.0 |
| LnGrp LOS | B | A | A | | B | A |
| Approach Vol, veh/h | 754 | 681 | | 197 | | |
| Approach Delay, s/veh | 5.1 | 9.4 | | 14.5 | | |
| Approach LOS | A | A | | B | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 21.4 | | 9.8 | 6.4 | 15.0 | |
| Change Period (Y+R _c), s | 5.3 | | 5.3 | 5.3 | 5.3 | |
| Max Green Setting (Gmax), s | 53.7 | | 25.7 | 9.7 | 38.7 | |
| Max Q Clear Time (g_c+l1), s | 5.8 | | 5.3 | 2.5 | 7.0 | |
| Green Ext Time (p_c), s | 2.9 | | 0.3 | 0.0 | 2.7 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 8.0 | | | | |
| HCM 6th LOS | | A | | | | |
| Notes | | | | | | |
| User approved volume balancing among the lanes for turning movement. | | | | | | |
| Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay. | | | | | | |

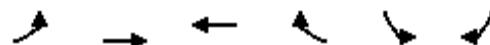
Intersection

Intersection Delay, s/veh 10.9

Intersection LOS B

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 1 | 22 | 56 | 260 | 12 | 6 | 62 | 132 | 133 | 3 | 121 | 2 |
| Future Vol, veh/h | 1 | 22 | 56 | 260 | 12 | 6 | 62 | 132 | 133 | 3 | 121 | 2 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 25 | 63 | 292 | 13 | 7 | 70 | 148 | 149 | 3 | 136 | 2 |
| Number of Lanes | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 2 | 0 |
| Approach | | | | | | | | | | | | |
| Opposing Approach | WB | | | WB | | | NB | | | SB | | |
| Opposing Lanes | 3 | | | 2 | | | 3 | | | 3 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 3 | | | 3 | | | 2 | | | 3 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 3 | | | 3 | | | 3 | | | 2 | | |
| HCM Control Delay | 9.8 | | | 11.8 | | | 10.7 | | | 10.4 | | |
| HCM LOS | A | | | B | | | B | | | B | | |

| Lane | NBLn1 | NBLn2 | NBLn3 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | WBLn3 | SBLn1 | SBLn2 | SBLn3 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 0% | 8% | 0% | 100% | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 25% | 92% | 16% | 0% | 0% | 67% | 0% | 100% | 95% |
| Vol Right, % | 0% | 0% | 75% | 0% | 84% | 0% | 0% | 33% | 0% | 0% | 5% |
| Sign Control | Stop |
| Traffic Vol by Lane | 62 | 88 | 177 | 12 | 67 | 130 | 130 | 18 | 3 | 81 | 42 |
| LT Vol | 62 | 0 | 0 | 1 | 0 | 130 | 130 | 0 | 3 | 0 | 0 |
| Through Vol | 0 | 88 | 44 | 11 | 11 | 0 | 0 | 12 | 0 | 81 | 40 |
| RT Vol | 0 | 0 | 133 | 0 | 56 | 0 | 0 | 6 | 0 | 0 | 2 |
| Lane Flow Rate | 70 | 99 | 199 | 13 | 75 | 146 | 146 | 20 | 3 | 91 | 48 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.13 | 0.17 | 0.313 | 0.025 | 0.129 | 0.273 | 0.273 | 0.034 | 0.007 | 0.167 | 0.087 |
| Departure Headway (Hd) | 6.704 | 6.2 | 5.67 | 6.776 | 6.149 | 6.722 | 6.722 | 5.988 | 7.155 | 6.65 | 6.617 |
| Convergence, Y/N | Yes |
| Cap | 534 | 577 | 632 | 527 | 581 | 535 | 535 | 597 | 499 | 538 | 540 |
| Service Time | 4.45 | 3.947 | 3.417 | 4.531 | 3.905 | 4.465 | 4.465 | 3.731 | 4.913 | 4.408 | 4.374 |
| HCM Lane V/C Ratio | 0.131 | 0.172 | 0.315 | 0.025 | 0.129 | 0.273 | 0.273 | 0.034 | 0.006 | 0.169 | 0.089 |
| HCM Control Delay | 10.5 | 10.2 | 11 | 9.7 | 9.8 | 12 | 12 | 8.9 | 10 | 10.7 | 10 |
| HCM Lane LOS | B | B | B | A | A | B | B | A | A | B | A |
| HCM 95th-tile Q | 0.4 | 0.6 | 1.3 | 0.1 | 0.4 | 1.1 | 1.1 | 0.1 | 0 | 0.6 | 0.3 |



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 298 | 560 | 768 | 26 | 36 | 531 |
| Future Volume (vph) | 298 | 560 | 768 | 26 | 36 | 531 |
| Turn Type | Prot | NA | NA | Perm | Prot | Perm |
| Protected Phases | 5 | 2 | 6 | | 4 | |
| Permitted Phases | | | | 6 | | 4 |
| Detector Phase | 5 | 2 | 6 | 6 | 4 | 4 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.0 | 11.0 | 41.6 | 41.6 | 30.5 | 30.5 |
| Total Split (s) | 35.0 | 80.0 | 45.0 | 45.0 | 40.0 | 40.0 |
| Total Split (%) | 29.2% | 66.7% | 37.5% | 37.5% | 33.3% | 33.3% |
| Yellow Time (s) | 3.0 | 5.0 | 5.0 | 5.0 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 |
| Lead/Lag | Lead | | Lag | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | Yes | | |
| Recall Mode | None | None | None | None | None | None |
| Act Effect Green (s) | 17.4 | 44.5 | 22.7 | 22.7 | 10.2 | 10.2 |
| Actuated g/C Ratio | 0.26 | 0.67 | 0.34 | 0.34 | 0.15 | 0.15 |
| v/c Ratio | 0.65 | 0.24 | 0.64 | 0.05 | 0.13 | 0.81 |
| Control Delay | 31.5 | 5.0 | 22.7 | 8.8 | 28.7 | 15.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 31.5 | 5.0 | 22.7 | 8.8 | 28.7 | 15.3 |
| LOS | C | A | C | A | C | B |
| Approach Delay | | 14.2 | 22.3 | | 16.1 | |
| Approach LOS | | B | C | | B | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 66.3

Natural Cycle: 85

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.81

Intersection Signal Delay: 17.6

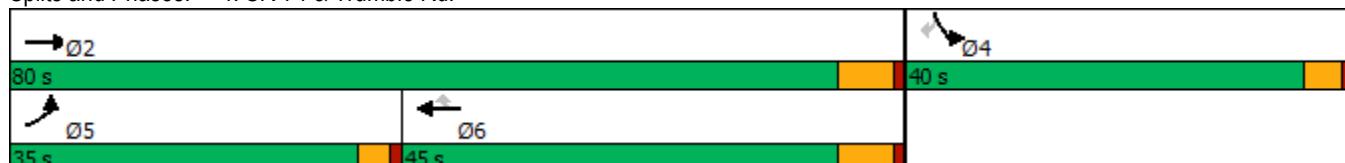
Intersection LOS: B

Intersection Capacity Utilization 63.2%

ICU Level of Service B

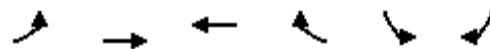
Analysis Period (min) 15

Splits and Phases: 4: SR-74 & Trumble Rd.



HCM 6th Signalized Intersection Summary
4: SR-74 & Trumble Rd.

Mapes & Sherman (JN 14804)
08/19/2022



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 298 | 560 | 768 | 26 | 36 | 531 |
| Future Volume (veh/h) | 298 | 560 | 768 | 26 | 36 | 531 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 0.98 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 307 | 577 | 792 | 24 | 37 | 356 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 363 | 2083 | 1126 | 490 | 459 | 409 |
| Arrive On Green | 0.20 | 0.58 | 0.31 | 0.31 | 0.25 | 0.25 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1571 | 1810 | 1610 |
| Grp Volume(v), veh/h | 307 | 577 | 792 | 24 | 37 | 356 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1571 | 1810 | 1610 |
| Q Serve(g_s), s | 10.1 | 5.0 | 12.0 | 0.7 | 1.0 | 13.1 |
| Cycle Q Clear(g_c), s | 10.1 | 5.0 | 12.0 | 0.7 | 1.0 | 13.1 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 363 | 2083 | 1126 | 490 | 459 | 409 |
| V/C Ratio(X) | 0.85 | 0.28 | 0.70 | 0.05 | 0.08 | 0.87 |
| Avail Cap(c_a), veh/h | 905 | 4309 | 2271 | 988 | 1036 | 922 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.9 | 6.6 | 18.8 | 14.9 | 17.6 | 22.2 |
| Incr Delay (d2), s/veh | 2.1 | 0.1 | 0.8 | 0.0 | 0.0 | 2.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 3.9 | 1.2 | 4.2 | 0.2 | 0.4 | 11.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 26.0 | 6.7 | 19.6 | 14.9 | 17.7 | 24.5 |
| LnGrp LOS | C | A | B | B | B | C |
| Approach Vol, veh/h | | 884 | 816 | | 393 | |
| Approach Delay, s/veh | | 13.4 | 19.5 | | 23.8 | |
| Approach LOS | | B | B | | C | |
| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
| Phs Duration (G+Y+R _c), s | | 41.8 | | 20.2 | 16.4 | 25.3 |
| Change Period (Y+R _c), s | | 6.0 | | 4.5 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | | 74.0 | | 35.5 | 31.0 | 39.0 |
| Max Q Clear Time (g_c+l1), s | | 7.0 | | 15.1 | 12.1 | 14.0 |
| Green Ext Time (p_c), s | | 3.8 | | 0.6 | 0.4 | 5.2 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 17.7 | | | |
| HCM 6th LOS | | | B | | | |

HCM 6th TWSC
7. Sherman Rd. & Mapes Rd.

Mapes & Sherman (JN 14804)
08/19/2022

Intersection
Int Delay, s/veh
1.8

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Traffic Vol, veh/h | 15 | 106 | 37 | 12 | 251 | 2 | 3 | 14 | 16 | 5 | 2 | 24 |
| Future Vol, veh/h | 15 | 106 | 37 | 12 | 251 | 2 | 3 | 14 | 16 | 5 | 2 | 24 |
| Conflicting Peds, #/hr | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 1 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - |
| Storage Length | - | - | - | - | 0 | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | 0 | - | - | 1 | - | - | 1 | - | - |
| Grade, % | - | 0 | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 16 | 115 | 40 | 13 | 273 | 2 | 3 | 15 | 17 | 5 | 2 | 26 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 279 | 0 | 157 | 0 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.1 | - | 4.1 | - |
| Critical Hdwy Sig 1 | - | - | - | - |
| Critical Hdwy Sig 2 | - | - | - | - |
| Follow-up Hdwy | 2.2 | - | 2.2 | - |
| Pot Cap-1 Maneuver | 1295 | - | 1435 | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 1290 | - | 1432 | - |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Approach | EB | WB | NB | SB |
| HCM Control Delay, s | 0.7 | 0.3 | 10.7 | 10.4 |
| HCM LOS | | B | B | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBC | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 665 | 1290 | - | - | 1432 | - | - | 696 |
| HCM Lane V/C Ratio | 0.054 | 0.013 | - | - | 0.009 | - | - | 0.048 |
| HCM Control Delay (s) | 10.7 | 7.8 | 0 | - | 7.5 | 0 | - | 10.4 |
| HCM Lane LOS | B | A | - | A | A | - | B | |
| HCM 95th %tile Q(veh) | 0.2 | 0 | - | 0 | - | 0 | - | 0.2 |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|------|------|
| Int Delay, s/veh | 0.9 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | ↑↑ | ↑↑ | | ↑ | |
| Traffic Vol, veh/h | 0 | 553 | 640 | 10 | 0 | 103 |
| Future Vol, veh/h | 0 | 553 | 640 | 10 | 0 | 103 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 588 | 681 | 11 | 0 | 110 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | - | 0 | - | 0 | - | 346 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.3 |
| Pot Cap-1 Maneuver | 0 | - | - | - | 0 | 656 |
| Stage 1 | 0 | - | - | - | 0 | - |
| Stage 2 | 0 | - | - | - | 0 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | - | 656 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0 | 0 | 11.6 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBT | WBT | WBR | SBLn1 | | |
| Capacity (veh/h) | - | - | - | 656 | | |
| HCM Lane V/C Ratio | - | - | - | 0.167 | | |
| HCM Control Delay (s) | - | - | - | 11.6 | | |
| HCM Lane LOS | - | - | - | B | | |
| HCM 95th %tile Q(veh) | - | - | - | 0.6 | | |



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------|-------|------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 19 | 168 | 224 | 288 | 726 | 47 |
| Future Volume (vph) | 19 | 168 | 224 | 288 | 726 | 47 |
| Turn Type | Prot | Free | Prot | NA | NA | Perm |
| Protected Phases | 8 | | 1 | 6 | 2 | |
| Permitted Phases | | Free | | | | 2 |
| Detector Phase | 8 | | 1 | 6 | 2 | 2 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 22.6 | | 10.0 | 24.2 | 24.2 | 24.2 |
| Total Split (s) | 22.6 | | 19.0 | 67.4 | 48.4 | 48.4 |
| Total Split (%) | 25.1% | | 21.1% | 74.9% | 53.8% | 53.8% |
| Yellow Time (s) | 5.0 | | 4.0 | 5.0 | 5.0 | 5.0 |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.0 | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | Lead | | Lag | Lag | |
| Lead-Lag Optimize? | | Yes | | Yes | Yes | |
| Recall Mode | None | | None | None | None | None |
| Act Effect Green (s) | 5.9 | 58.8 | 13.2 | 33.0 | 29.8 | 29.8 |
| Actuated g/C Ratio | 0.10 | 1.00 | 0.22 | 0.56 | 0.51 | 0.51 |
| v/c Ratio | 0.11 | 0.11 | 0.59 | 0.29 | 0.81 | 0.06 |
| Control Delay | 33.4 | 0.1 | 32.9 | 6.3 | 20.9 | 5.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 33.4 | 0.1 | 32.9 | 6.3 | 20.9 | 5.7 |
| LOS | C | A | C | A | C | A |
| Approach Delay | 3.4 | | | 17.9 | 20.0 | |
| Approach LOS | A | | | B | B | |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 58.8

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.81

Intersection Signal Delay: 17.2

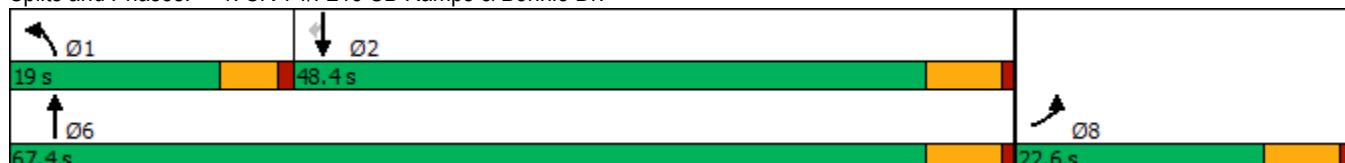
Intersection LOS: B

Intersection Capacity Utilization 69.0%

ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 1: SR-74/I-215 SB Ramps & Bonnie Dr.



HCM 6th Signalized Intersection Summary
1: SR-74/I-215 SB Ramps & Bonnie Dr.

Mapes & Sherman (JN 14804)
08/19/2022



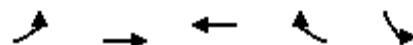
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 19 | 168 | 224 | 288 | 726 | 47 |
| Future Volume (veh/h) | 19 | 168 | 224 | 288 | 726 | 47 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | No | | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 20 | 0 | 241 | 310 | 781 | 0 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 44 | | 299 | 1399 | 896 | |
| Arrive On Green | 0.02 | 0.00 | 0.17 | 0.74 | 0.47 | 0.00 |
| Sat Flow, veh/h | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Grp Volume(v), veh/h | 20 | 0 | 241 | 310 | 781 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Q Serve(g_s), s | 0.5 | 0.0 | 6.4 | 2.6 | 18.5 | 0.0 |
| Cycle Q Clear(g_c), s | 0.5 | 0.0 | 6.4 | 2.6 | 18.5 | 0.0 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 44 | | 299 | 1399 | 896 | |
| V/C Ratio(X) | 0.46 | | 0.81 | 0.22 | 0.87 | |
| Avail Cap(c_a), veh/h | 599 | | 505 | 2327 | 1607 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 24.1 | 0.0 | 20.1 | 2.1 | 11.9 | 0.0 |
| Incr Delay (d2), s/veh | 2.7 | 0.0 | 2.0 | 0.0 | 1.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.2 | 0.0 | 2.3 | 0.0 | 5.3 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 26.9 | 0.0 | 22.1 | 2.1 | 13.0 | 0.0 |
| LnGrp LOS | C | | C | A | B | |
| Approach Vol, veh/h | 20 | | | 551 | 781 | |
| Approach Delay, s/veh | 26.9 | | | 10.9 | 13.0 | |
| Approach LOS | C | | | B | B | |
| Timer - Assigned Phs | 1 | 2 | | 6 | 8 | |
| Phs Duration (G+Y+R _c), s | 13.3 | 29.6 | | 42.9 | 7.2 | |
| Change Period (Y+R _c), s | 5.0 | 6.0 | | 6.0 | 6.0 | |
| Max Green Setting (Gmax), s | 14.0 | 42.4 | | 61.4 | 16.6 | |
| Max Q Clear Time (g_c+l1), s | 8.4 | 20.5 | | 4.6 | 2.5 | |
| Green Ext Time (p_c), s | 0.2 | 3.1 | | 1.0 | 0.0 | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 12.3 |
| HCM 6th LOS | B |

Notes

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



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|----------------------|-------|-------|-------|------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ |
| Traffic Volume (vph) | 13 | 881 | 475 | 565 | 205 |
| Future Volume (vph) | 13 | 881 | 475 | 565 | 205 |
| Turn Type | Prot | NA | NA | Free | Prot |
| Protected Phases | 5 | 2 | 6 | | 4 |
| Permitted Phases | | | | Free | |
| Detector Phase | 5 | 2 | 6 | | 4 |
| Switch Phase | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | | 5.0 |
| Minimum Split (s) | 10.3 | 22.5 | 22.5 | | 22.5 |
| Total Split (s) | 13.0 | 54.0 | 41.0 | | 36.0 |
| Total Split (%) | 14.4% | 60.0% | 45.6% | | 40.0% |
| Yellow Time (s) | 4.3 | 4.3 | 4.3 | | 4.3 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Lost Time (s) | 5.3 | 5.3 | 5.3 | | 5.3 |
| Lead/Lag | Lead | | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | | |
| Recall Mode | None | None | None | | None |
| Act Effect Green (s) | 5.4 | 16.7 | 15.1 | 38.6 | 10.7 |
| Actuated g/C Ratio | 0.14 | 0.43 | 0.39 | 1.00 | 0.28 |
| v/c Ratio | 0.06 | 0.62 | 0.37 | 0.38 | 0.53 |
| Control Delay | 19.5 | 10.5 | 10.7 | 0.7 | 16.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 19.5 | 10.5 | 10.7 | 0.7 | 16.8 |
| LOS | B | B | B | A | B |
| Approach Delay | | 10.7 | 5.3 | | 16.8 |
| Approach LOS | | B | A | | B |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 38.6

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.62

Intersection Signal Delay: 8.8

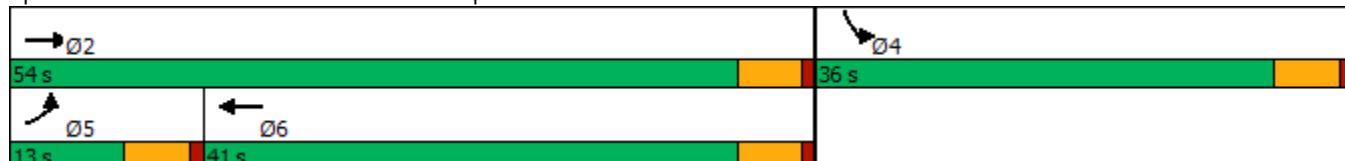
Intersection LOS: A

Intersection Capacity Utilization 46.8%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 2: SR-74 & I-215 NB Ramps



HCM 6th Signalized Intersection Summary
2: SR-74 & I-215 NB Ramps

Mapes & Sherman (JN 14804)
08/19/2022



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ | |
| Traffic Volume (veh/h) | 13 | 881 | 475 | 565 | 205 | 37 |
| Future Volume (veh/h) | 13 | 881 | 475 | 565 | 205 | 37 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 14 | 968 | 522 | 0 | 225 | 28 |
| Peak Hour Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 33 | 1638 | 926 | | 298 | 37 |
| Arrive On Green | 0.02 | 0.45 | 0.26 | 0.00 | 0.19 | 0.19 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1582 | 197 |
| Grp Volume(v), veh/h | 14 | 968 | 522 | 0 | 254 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1785 | 0 |
| Q Serve(g_s), s | 0.2 | 5.9 | 3.7 | 0.0 | 4.0 | 0.0 |
| Cycle Q Clear(g_c), s | 0.2 | 5.9 | 3.7 | 0.0 | 4.0 | 0.0 |
| Prop In Lane | 1.00 | | | 1.00 | 0.89 | 0.11 |
| Lane Grp Cap(c), veh/h | 33 | 1638 | 926 | | 336 | 0 |
| V/C Ratio(X) | 0.42 | 0.59 | 0.56 | | 0.76 | 0.00 |
| Avail Cap(c_a), veh/h | 471 | 5938 | 4353 | | 1851 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 14.4 | 6.0 | 9.6 | 0.0 | 11.4 | 0.0 |
| Incr Delay (d2), s/veh | 3.1 | 0.1 | 0.2 | 0.0 | 1.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.1 | 0.5 | 0.7 | 0.0 | 1.3 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 17.5 | 6.2 | 9.8 | 0.0 | 12.7 | 0.0 |
| LnGrp LOS | B | A | A | | B | A |
| Approach Vol, veh/h | 982 | 522 | | 254 | | |
| Approach Delay, s/veh | 6.3 | 9.8 | | 12.7 | | |
| Approach LOS | A | A | | B | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 18.7 | | 10.9 | 5.8 | 12.9 | |
| Change Period (Y+R _c), s | 5.3 | | 5.3 | 5.3 | 5.3 | |
| Max Green Setting (Gmax), s | 48.7 | | 30.7 | 7.7 | 35.7 | |
| Max Q Clear Time (g_c+l1), s | 7.9 | | 6.0 | 2.2 | 5.7 | |
| Green Ext Time (p_c), s | 4.2 | | 0.4 | 0.0 | 2.0 | |

Intersection Summary

| | |
|--------------------|-----|
| HCM 6th Ctrl Delay | 8.3 |
| HCM 6th LOS | A |

Notes

User approved volume balancing among the lanes for turning movement.

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

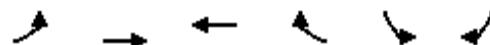
Intersection

Intersection Delay, s/veh 11

Intersection LOS B

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↔↔ | ↑↑ | ↔↔ | ↑↑ | ↔ | ↑ | ↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ |
| Traffic Vol, veh/h | 0 | 6 | 6 | 165 | 1 | 9 | 10 | 81 | 214 | 51 | 187 | 2 |
| Future Vol, veh/h | 0 | 6 | 6 | 165 | 1 | 9 | 10 | 81 | 214 | 51 | 187 | 2 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 7 | 7 | 199 | 1 | 11 | 12 | 98 | 258 | 61 | 225 | 2 |
| Number of Lanes | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 2 | 0 |
| Approach | EB | | WB | | NB | | SB | | | | | |
| Opposing Approach | WB | | EB | | SB | | NB | | | | | |
| Opposing Lanes | 3 | | 2 | | 3 | | 3 | | | | | |
| Conflicting Approach Left | SB | | NB | | EB | | WB | | | | | |
| Conflicting Lanes Left | 3 | | 3 | | 2 | | 3 | | | | | |
| Conflicting Approach Right | NB | | SB | | WB | | EB | | | | | |
| Conflicting Lanes Right | 3 | | 3 | | 3 | | 2 | | | | | |
| HCM Control Delay | 9.3 | | 11.1 | | 11.5 | | 10.4 | | | | | |
| HCM LOS | A | | B | | B | | B | | | | | |

| Lane | NBLn1 | NBLn2 | NBLn3 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | WBLn3 | SBLn1 | SBLn2 | SBLn3 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 11% | 100% | 25% | 0% | 0% | 10% | 0% | 100% | 97% |
| Vol Right, % | 0% | 0% | 89% | 0% | 75% | 0% | 0% | 90% | 0% | 0% | 3% |
| Sign Control | Stop |
| Traffic Vol by Lane | 10 | 54 | 241 | 4 | 8 | 83 | 83 | 10 | 51 | 125 | 64 |
| LT Vol | 10 | 0 | 0 | 0 | 0 | 83 | 83 | 0 | 51 | 0 | 0 |
| Through Vol | 0 | 54 | 27 | 4 | 2 | 0 | 0 | 1 | 0 | 125 | 62 |
| RT Vol | 0 | 0 | 214 | 0 | 6 | 0 | 0 | 9 | 0 | 0 | 2 |
| Lane Flow Rate | 12 | 65 | 290 | 5 | 10 | 99 | 99 | 12 | 61 | 150 | 78 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.022 | 0.108 | 0.431 | 0.009 | 0.017 | 0.189 | 0.189 | 0.019 | 0.112 | 0.253 | 0.13 |
| Departure Headway (Hd) | 6.472 | 5.969 | 5.345 | 6.821 | 6.296 | 6.843 | 6.843 | 5.713 | 6.577 | 6.074 | 6.053 |
| Convergence, Y/N | Yes |
| Cap | 553 | 601 | 674 | 524 | 568 | 525 | 525 | 626 | 545 | 592 | 592 |
| Service Time | 4.206 | 3.703 | 3.079 | 4.569 | 4.044 | 4.581 | 4.581 | 3.452 | 4.314 | 3.812 | 3.79 |
| HCM Lane V/C Ratio | 0.022 | 0.108 | 0.43 | 0.01 | 0.018 | 0.189 | 0.189 | 0.019 | 0.112 | 0.253 | 0.132 |
| HCM Control Delay | 9.4 | 9.4 | 12.1 | 9.6 | 9.2 | 11.2 | 11.2 | 8.6 | 10.1 | 10.9 | 9.7 |
| HCM Lane LOS | A | A | B | A | A | B | B | A | B | B | A |
| HCM 95th-tile Q | 0.1 | 0.4 | 2.2 | 0 | 0.1 | 0.7 | 0.7 | 0.1 | 0.4 | 1 | 0.4 |



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 292 | 793 | 670 | 41 | 38 | 370 |
| Future Volume (vph) | 292 | 793 | 670 | 41 | 38 | 370 |
| Turn Type | Prot | NA | NA | Perm | Prot | Perm |
| Protected Phases | 5 | 2 | 6 | | 4 | |
| Permitted Phases | | | | 6 | | 4 |
| Detector Phase | 5 | 2 | 6 | 6 | 4 | 4 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.0 | 11.0 | 41.6 | 41.6 | 30.5 | 30.5 |
| Total Split (s) | 39.0 | 86.0 | 47.0 | 47.0 | 34.0 | 34.0 |
| Total Split (%) | 32.5% | 71.7% | 39.2% | 39.2% | 28.3% | 28.3% |
| Yellow Time (s) | 3.0 | 5.0 | 5.0 | 5.0 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 |
| Lead/Lag | Lead | | Lag | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | Yes | | |
| Recall Mode | None | None | None | None | None | None |
| Act Effect Green (s) | 16.7 | 41.3 | 20.2 | 20.2 | 8.9 | 8.9 |
| Actuated g/C Ratio | 0.27 | 0.67 | 0.33 | 0.33 | 0.14 | 0.14 |
| v/c Ratio | 0.64 | 0.35 | 0.61 | 0.08 | 0.16 | 0.69 |
| Control Delay | 29.1 | 5.3 | 21.6 | 7.4 | 27.8 | 10.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 29.1 | 5.3 | 21.6 | 7.4 | 27.8 | 10.5 |
| LOS | C | A | C | A | C | B |
| Approach Delay | | 11.7 | 20.8 | | 12.2 | |
| Approach LOS | | B | C | | B | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 61.9

Natural Cycle: 85

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.69

Intersection Signal Delay: 14.7

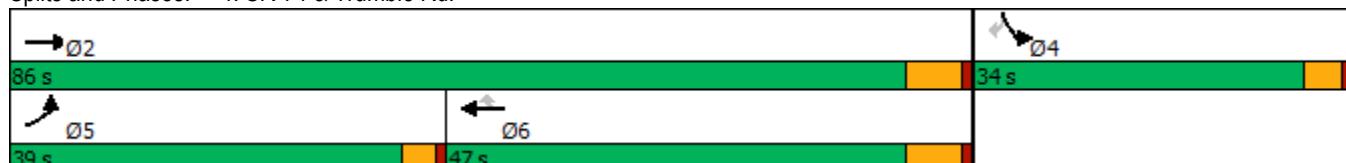
Intersection LOS: B

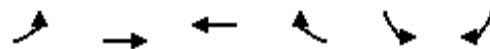
Intersection Capacity Utilization 50.9%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 4: SR-74 & Trumble Rd.





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 292 | 793 | 670 | 41 | 38 | 370 |
| Future Volume (veh/h) | 292 | 793 | 670 | 41 | 38 | 370 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 314 | 853 | 720 | 38 | 41 | 208 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 384 | 2209 | 1137 | 507 | 302 | 269 |
| Arrive On Green | 0.21 | 0.61 | 0.32 | 0.32 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1810 | 1610 |
| Grp Volume(v), veh/h | 314 | 853 | 720 | 38 | 41 | 208 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1810 | 1610 |
| Q Serve(g_s), s | 7.8 | 5.7 | 8.1 | 0.8 | 0.9 | 5.9 |
| Cycle Q Clear(g_c), s | 7.8 | 5.7 | 8.1 | 0.8 | 0.9 | 5.9 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 384 | 2209 | 1137 | 507 | 302 | 269 |
| V/C Ratio(X) | 0.82 | 0.39 | 0.63 | 0.07 | 0.14 | 0.77 |
| Avail Cap(c_a), veh/h | 1335 | 6089 | 3121 | 1392 | 1125 | 1001 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 17.8 | 4.7 | 13.9 | 11.4 | 16.8 | 18.9 |
| Incr Delay (d2), s/veh | 1.6 | 0.1 | 0.6 | 0.1 | 0.1 | 1.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 2.7 | 0.8 | 2.4 | 0.2 | 0.3 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 19.4 | 4.8 | 14.5 | 11.5 | 16.9 | 20.7 |
| LnGrp LOS | B | A | B | B | B | C |
| Approach Vol, veh/h | 1167 | 758 | | 249 | | |
| Approach Delay, s/veh | 8.7 | 14.3 | | 20.1 | | |
| Approach LOS | A | B | | C | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 35.0 | | 12.4 | 14.1 | 20.9 | |
| Change Period (Y+R _c), s | 6.0 | | 4.5 | 4.0 | 6.0 | |
| Max Green Setting (Gmax), s | 80.0 | | 29.5 | 35.0 | 41.0 | |
| Max Q Clear Time (g_c+l1), s | 7.7 | | 7.9 | 9.8 | 10.1 | |
| Green Ext Time (p_c), s | 6.2 | | 0.4 | 0.4 | 4.9 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 12.0 | | | |
| HCM 6th LOS | | | B | | | |

HCM 6th TWSC
7. Sherman Rd. & Mapes Rd.

Mapes & Sherman (JN 14804)
08/19/2022

| Intersection | | 2 | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 4 | 4 | 4 | 7 | 6 | 20 | 2 | 7 | 7 | 27 | 4 | 4 |
| Traffic Vol, veh/h | 26 | 222 | 22 | 11 | 141 | 4 | 7 | 6 | 20 | 2 | 7 | 7 |
| Future Vol, veh/h | 26 | 222 | 22 | 11 | 141 | 4 | 7 | 6 | 20 | 2 | 7 | 27 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Stop |
| RT Channelized | - | - | None | - | None | - | None | - | - | - | - | None |
| Storage Length | - | - | - | - | 0 | - | - | 1 | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 1 |
| Grade, % | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | - |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 30 | 258 | 26 | 13 | 164 | 5 | 8 | 7 | 23 | 2 | 8 | 31 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 169 | 0 | 0 | 284 |
| Stage 1 | - | - | - | 0 |
| Stage 2 | - | - | - | 331 |
| Critical Hdwy | 4.1 | - | 4.1 | - |
| Critical Hdwy Sig 1 | - | - | - | 212 |
| Critical Hdwy Sig 2 | - | - | - | 195 |
| Follow-up Hdwy | 2.2 | - | 2.2 | - |
| Pot Cap-1 Maneuver | 1421 | - | 1290 | - |
| Stage 1 | - | - | - | 454 |
| Stage 2 | - | - | - | 460 |
| Platoon blocked, % | - | - | - | 769 |
| Mov Cap-1 Maneuver | 1421 | - | 1290 | - |
| Mov Cap-2 Maneuver | - | - | - | 456 |
| Stage 1 | - | - | - | 455 |
| Stage 2 | - | - | - | 886 |
| Approach | EB | WB | NB | SB |
| HCM Control Delay, s | 0.7 | 0.6 | 11 | 10.1 |
| HCM LOS | | B | B | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBC | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|------|-----|-----|-------|
| Capacity (veh/h) | 637 | 1421 | - | - | 1290 | - | - | 743 |
| HCM Lane V/C Ratio | 0.06 | 0.021 | - | - | 0.01 | - | - | 0.056 |
| HCM Control Delay (s) | 11 | 7.6 | 0 | - | 7.8 | 0 | - | 10.1 |
| HCM Lane LOS | B | A | A | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0.2 | 0.1 | - | - | 0 | - | - | 0.2 |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | ↑↑ | ↑↑ | | ↗ | |
| Traffic Vol, veh/h | 0 | 823 | 564 | 16 | 0 | 74 |
| Future Vol, veh/h | 0 | 823 | 564 | 16 | 0 | 74 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 876 | 600 | 17 | 0 | 79 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | - | 0 | - | 0 | - | 309 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.3 |
| Pot Cap-1 Maneuver | 0 | - | - | - | 0 | 693 |
| Stage 1 | 0 | - | - | - | 0 | - |
| Stage 2 | 0 | - | - | - | 0 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | - | 693 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0 | 0 | 10.9 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBT | WBT | WBR | SBLn1 | | |
| Capacity (veh/h) | - | - | - | 693 | | |
| HCM Lane V/C Ratio | - | - | - | 0.114 | | |
| HCM Control Delay (s) | - | - | - | 10.9 | | |
| HCM Lane LOS | - | - | - | B | | |
| HCM 95th %tile Q(veh) | - | - | - | 0.4 | | |

**APPENDIX 3.3: EXISTING (2022) CONDITIONS TRAFFIC SIGNAL
WARRANT ANALYSIS WORKSHEETS**

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = Existing (2022) Conditions - Weekday AM Peak Hour

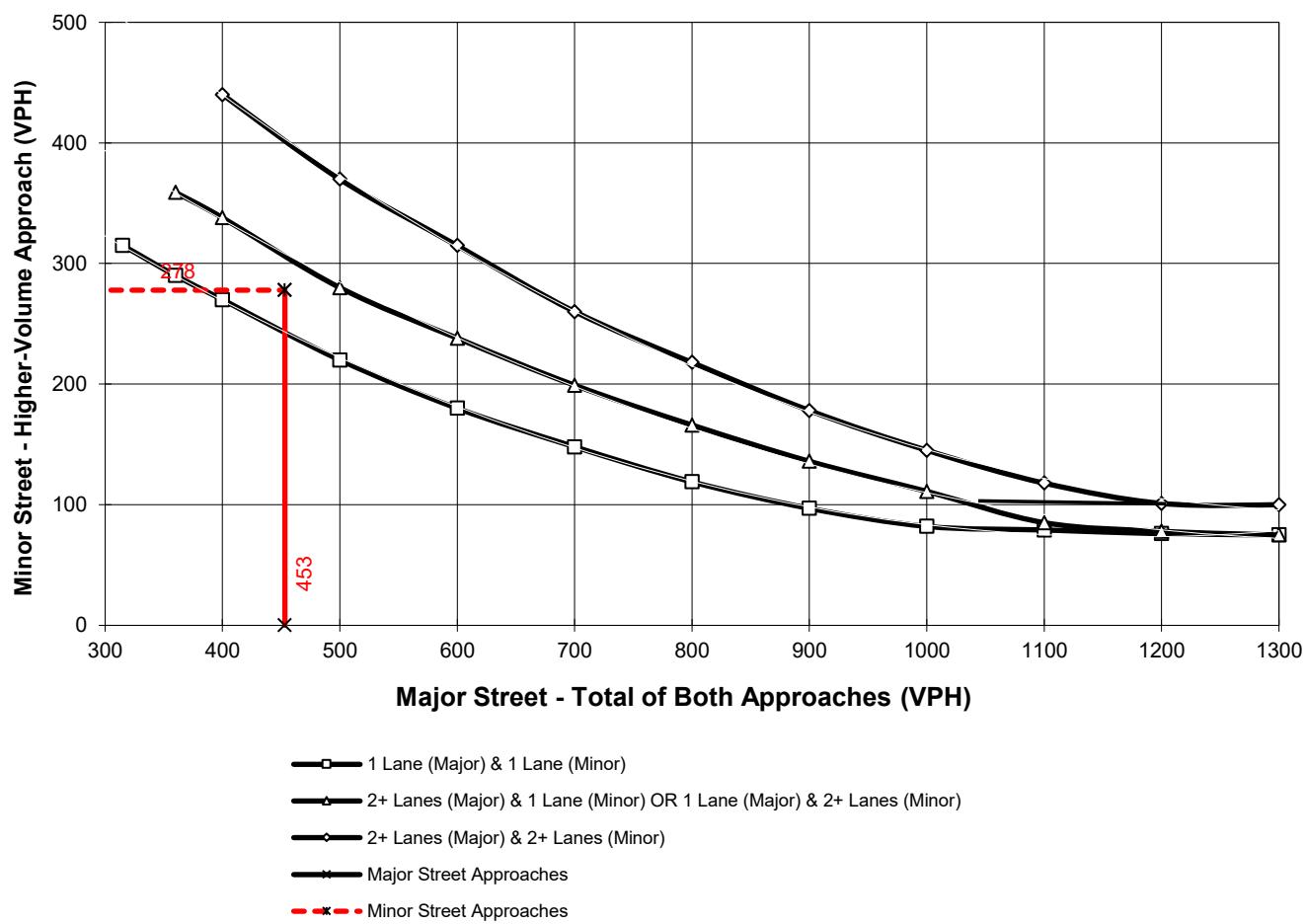
Major Street Name = Trumble Rd.

Total of Both Approaches (VPH) = 453
Number of Approach Lanes Major Street = 2

Minor Street Name = Mapes Rd.

High Volume Approach (VPH) = 278
Number of Approach Lanes Minor Street = 1

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = Existing (2022) Conditions - Weekday PM Peak Hour

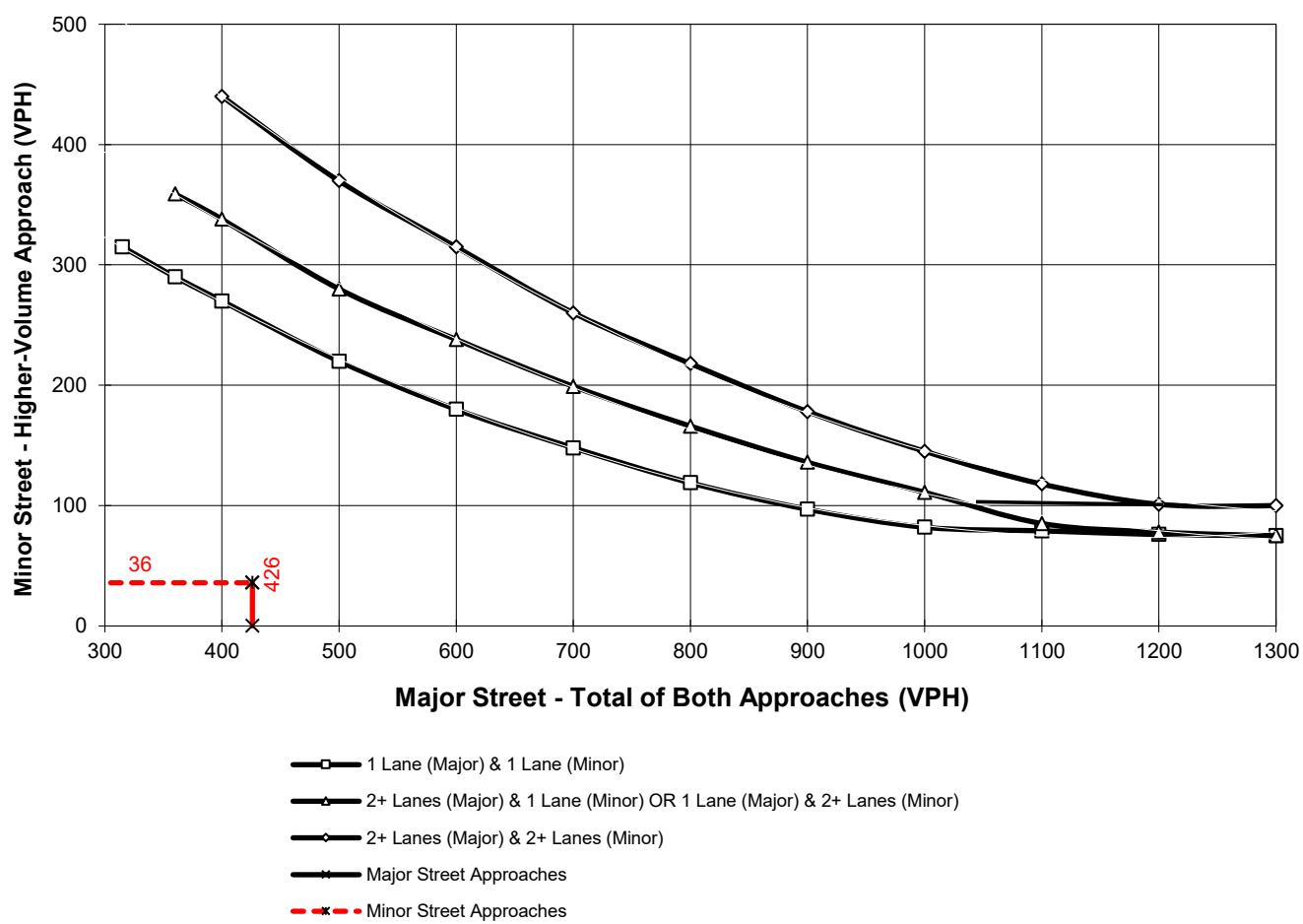
Major Street Name = Mapes Rd.

Total of Both Approaches (VPH) = 426
Number of Approach Lanes Major Street = 1

Minor Street Name = Sherman Rd.

High Volume Approach (VPH) = 36
Number of Approach Lanes Minor Street = 1

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

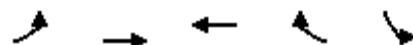
**APPENDIX 3.4: EXISTING (2022) CONDITIONS OFF-RAMP QUEUING
ANALYSIS WORKSHEETS**

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| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|-------------------------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 23 | 239 | 277 | 395 | 492 | 38 |
| V/c Ratio | 0.10 | 0.15 | 0.55 | 0.28 | 0.68 | 0.06 |
| Control Delay | 28.7 | 0.2 | 22.5 | 3.1 | 19.5 | 7.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 28.7 | 0.2 | 22.5 | 3.1 | 19.5 | 7.8 |
| Queue Length 50th (ft) | 4 | 0 | 46 | 0 | 76 | 2 |
| Queue Length 95th (ft) | 32 | 0 | 189 | 72 | 286 | 21 |
| Internal Link Dist (ft) | 1025 | | | 1452 | 226 | |
| Turn Bay Length (ft) | | 50 | 120 | | | 100 |
| Base Capacity (vph) | 734 | 1615 | 973 | 1805 | 1480 | 1263 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.03 | 0.15 | 0.28 | 0.22 | 0.33 | 0.03 |

Intersection Summary



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|-------------------------|------|------|------|------|------|
| Lane Group Flow (vph) | 30 | 724 | 681 | 701 | 202 |
| V/c Ratio | 0.08 | 0.37 | 0.38 | 0.43 | 0.37 |
| Control Delay | 18.4 | 7.4 | 9.9 | 0.9 | 14.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 18.4 | 7.4 | 9.9 | 0.9 | 14.6 |
| Queue Length 50th (ft) | 4 | 42 | 39 | 0 | 24 |
| Queue Length 95th (ft) | 30 | 94 | 143 | 0 | 109 |
| Internal Link Dist (ft) | | 1452 | 714 | | 376 |
| Turn Bay Length (ft) | 245 | | | 150 | |
| Base Capacity (vph) | 665 | 3556 | 3370 | 1615 | 1412 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.05 | 0.20 | 0.20 | 0.43 | 0.14 |

Intersection Summary

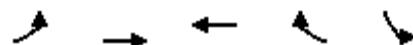


| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|-------------------------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 20 | 181 | 241 | 310 | 781 | 51 |
| v/c Ratio | 0.11 | 0.11 | 0.59 | 0.29 | 0.81 | 0.06 |
| Control Delay | 33.4 | 0.1 | 32.9 | 6.3 | 20.9 | 5.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 33.4 | 0.1 | 32.9 | 6.3 | 20.9 | 5.7 |
| Queue Length 50th (ft) | 6 | 0 | 62 | 0 | 176 | 4 |
| Queue Length 95th (ft) | 30 | 0 | #227 | 53 | 449 | 22 |
| Internal Link Dist (ft) | 1025 | | | 1452 | 226 | |
| Turn Bay Length (ft) | | 50 | 120 | | | 100 |
| Base Capacity (vph) | 558 | 1615 | 470 | 1727 | 1442 | 1231 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.04 | 0.11 | 0.51 | 0.18 | 0.54 | 0.04 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|-------------------------|------|------|------|------|------|
| Lane Group Flow (vph) | 14 | 968 | 522 | 621 | 266 |
| V/c Ratio | 0.06 | 0.62 | 0.37 | 0.38 | 0.53 |
| Control Delay | 19.5 | 10.5 | 10.7 | 0.7 | 16.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 19.5 | 10.5 | 10.7 | 0.7 | 16.8 |
| Queue Length 50th (ft) | 3 | 72 | 33 | 0 | 42 |
| Queue Length 95th (ft) | 18 | 146 | 111 | 0 | 123 |
| Internal Link Dist (ft) | | 1452 | 714 | | 376 |
| Turn Bay Length (ft) | 245 | | | 150 | |
| Base Capacity (vph) | 380 | 3538 | 3231 | 1615 | 1453 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.04 | 0.27 | 0.16 | 0.38 | 0.18 |

Intersection Summary

**APPENDIX 4.1: CUMULATIVE DEVELOPMENT PROJECT VOLUME
WORKSHEETS**

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Total Cumulative Volumes

| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBR</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> |
|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1 | 313 | 206 | 0 | 0 | 102 | 45 | 47 | 0 | 115 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 120 | 0 | 107 | 28 | 189 | 0 | 0 | 412 | 202 |
| 3 | 0 | 35 | 117 | 0 | 22 | 0 | 0 | 0 | 0 | 285 | 0 | 0 |
| 4 | 0 | 0 | 0 | 71 | 0 | 378 | 221 | 89 | 0 | 0 | 236 | 75 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 117 | 0 | 0 | 285 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 117 | 0 | 0 | 285 | 0 |
| 7 | 0 | 8 | 0 | 0 | 24 | 89 | 48 | 69 | 0 | 0 | 197 | 0 |
| 8 | 0 | 8 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 8 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 8 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 159 | 0 | 0 | 311 | 8 |

Project Volumes from Trumble Retail TIA:

| | | | | | | | | | | | | |
|----|----|----|---|----|----|----|----|-----|----|---|-----|----|
| 1 | 18 | 25 | 0 | 0 | 26 | 0 | 0 | 0 | 19 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 45 | 0 | 0 | 43 | 25 |
| 3 | | | | | | | | | | | | |
| 4 | 0 | 0 | 0 | 61 | 0 | 81 | 87 | -17 | 0 | 0 | -12 | 57 |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | 43 | | | 45 | |

Cumulative Volumes from Trumble Retail TIA:

| | | | | | | | | | | | | |
|----|-----|----|---|----|----|----|----|----|----|---|-----|----|
| 1 | 154 | 14 | 0 | 0 | 10 | 0 | 18 | 0 | 24 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 9 | 0 | 73 | 0 | 34 | 0 | 0 | 95 | 16 |
| 3 | | 35 | | | 22 | | | | | | | |
| 4 | 0 | 0 | 0 | 10 | 0 | 12 | 17 | 27 | 0 | 0 | 99 | 18 |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | 37 | | | 117 | |

New Cumulative Projects: Perris Airport Industrial & Ellis/Sherman Warehouse

| | | | | | | | | | | | | |
|----|----|---|----|----|---|----|----|----|----|---|---|---|
| 1 | 34 | 6 | 0 | 0 | 0 | 45 | 29 | 0 | 28 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 19 | 0 | 34 | 28 | 0 | 0 | 0 | 6 | 0 |
| 3 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 6 | 19 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 6 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 6 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 | 6 | 19 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

New Cumulative Projects: RC2, RC4, RC5, M6, M8

| | | | | | | | | | | | | |
|----|-----|-----|----|----|----|-----|----|-----|----|-----|-----|-----|
| 1 | 107 | 161 | 0 | 0 | 66 | 0 | 0 | 0 | 44 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 66 | 0 | 0 | 0 | 110 | 0 | 0 | 268 | 161 |
| 3 | 0 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 279 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 279 | 98 | 79 | 0 | 0 | 149 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | 0 | 279 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | 0 | 279 | 0 |
| 7 | 0 | 8 | 0 | 0 | 24 | 83 | 29 | 69 | 0 | 0 | 197 | 0 |
| 8 | 0 | 8 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 8 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 8 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 79 | 0 | 0 | 149 | 8 |

Source: Volumes developed from either TIA or scoping agreement.

Total Cumulative Volumes

| | <u>NBL</u> | <u>NBT</u> | <u>NBR</u> | <u>SBL</u> | <u>SBT</u> | <u>SBR</u> | <u>EBL</u> | <u>EBT</u> | <u>EBR</u> | <u>WBL</u> | <u>WBT</u> | <u>WBR</u> |
|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1 | 251 | 181 | 0 | 0 | 236 | 31 | 113 | 0 | 237 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 242 | 0 | 84 | 37 | 437 | 0 | 0 | 347 | 158 |
| 3 | 0 | 33 | 328 | 0 | 35 | 0 | 0 | 0 | 0 | 212 | 0 | 0 |
| 4 | 0 | 0 | 0 | 81 | 0 | 309 | 441 | 237 | 0 | 0 | 198 | 78 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 328 | 0 | 0 | 212 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 328 | 0 | 0 | 212 | 0 |
| 7 | 0 | 27 | 0 | 0 | 16 | 79 | 104 | 225 | 0 | 0 | 132 | 0 |
| 8 | 0 | 27 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 27 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 27 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 11 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 317 | 0 | 0 | 275 | 27 |

Project Volumes from Trumble Retail TIA:

| | | | | | | | | | | | | |
|----|----|----|---|----|----|----|----|-----|----|---|-----|----|
| 1 | 19 | 25 | 0 | 0 | 28 | 0 | 0 | 0 | 21 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 50 | 0 | 0 | 43 | 25 |
| 3 | | | | | | | | | | | | |
| 4 | 0 | 0 | 0 | 62 | 0 | 81 | 96 | -18 | 0 | 0 | -12 | 62 |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | 44 | | | 49 |

Cumulative Volumes from Trumble Retail TIA:

| | | | | | | | | | | | | |
|----|-----|----|---|----|----|----|----|----|----|---|----|----|
| 1 | 131 | 14 | 0 | 0 | 21 | 0 | 44 | 0 | 55 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 18 | 0 | 61 | 0 | 76 | 0 | 0 | 84 | 15 |
| 3 | | 33 | | | 35 | | | | | | | |
| 4 | 0 | 0 | 0 | 19 | 0 | 16 | 17 | 77 | 0 | 0 | 83 | 16 |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | 95 | | | 99 |

New Cumulative Projects: Perris Airport Industrial & Ellis/Sherman Warehouse

| | | | | | | | | | | | | |
|----|----|----|---|---|---|----|----|---|----|---|----|---|
| 1 | 23 | 24 | 0 | 0 | 0 | 31 | 69 | 0 | 37 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 9 | 0 | 23 | 37 | 0 | 0 | 0 | 24 | 0 |
| 3 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 24 | 9 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 24 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 24 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 | 24 | 9 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

New Cumulative Projects: RC2, RC4, RC5, M6, M8

| | | | | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 78 | 118 | 0 | 0 | 187 | 0 | 0 | 0 | 124 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 187 | 0 | 0 | 0 | 311 | 0 | 0 | 196 | 118 |
| 3 | 0 | 0 | 319 | 0 | 0 | 0 | 0 | 0 | 0 | 188 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 188 | 319 | 178 | 0 | 0 | 127 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 319 | 0 | 0 | 188 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 319 | 0 | 0 | 188 | 0 |
| 7 | 0 | 27 | 0 | 0 | 16 | 55 | 95 | 225 | 0 | 0 | 132 | 0 |
| 8 | 0 | 27 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 27 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 27 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 11 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 178 | 0 | 0 | 127 | 27 |

Source: Volumes developed from either TIA or scoping agreement.

Total Cumulative Volumes

| | Northbound | Southbound | Eastbound | Westbound |
|----|------------|------------|-----------|-----------|
| 1 | 8,592 | 5,463 | 5,241 | 0 |
| 2 | 0 | 5,153 | 8,593 | 12,252 |
| 3 | 6,367 | 869 | 0 | 5,498 |
| 4 | 0 | 11,117 | 12,251 | 6,050 |
| 5 | 0 | 0 | 5,498 | 5,498 |
| 6 | 0 | 0 | 5,498 | 5,498 |
| 7 | 430 | 2,346 | 5,500 | 3,584 |
| 8 | 430 | 430 | 0 | 0 |
| 9 | 430 | 430 | 0 | 0 |
| 10 | 430 | 430 | 1,180 | 1,180 |
| 11 | 0 | 430 | 4,870 | 5,300 |

Project Volumes from Trumble Retail TIA:

| | | | | |
|----|-------|-------|-------|-------|
| 1 | 1,180 | 674 | 506 | 0 |
| 2 | 0 | 674 | 1,180 | 1,854 |
| 3 | | | | |
| 4 | 0 | 4,750 | 1,854 | 1,180 |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | 1,180 | 1,180 |
| 11 | | | | |

Cumulative Volumes from Trumble Retail TIA:

| | | | | |
|----|-------|-----|-------|-------|
| 1 | 1,524 | 681 | 1,461 | 0 |
| 2 | 0 | 681 | 1,523 | 1,584 |
| 3 | 869 | 869 | | |
| 4 | 0 | 869 | 1,583 | 1,554 |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | 1,554 | 1,554 |

New Cumulative Projects: Perris Airport Industrial & Ellis/Sherman Warehouse

| | | | | |
|----|-----|-----|-------|-----|
| 1 | 642 | 952 | 1,184 | 0 |
| 2 | 0 | 642 | 642 | 410 |
| 3 | 410 | 0 | 0 | 410 |
| 4 | 0 | 410 | 410 | 0 |
| 5 | 0 | 0 | 410 | 410 |
| 6 | 0 | 0 | 410 | 410 |
| 7 | 0 | 410 | 410 | 0 |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |

New Cumulative Projects: RC2, RC4, RC5, M6, M8

| | | | | |
|----|-------|-------|-------|-------|
| 1 | 5,246 | 3,156 | 2,090 | 0 |
| 2 | 0 | 3,156 | 5,248 | 8,404 |
| 3 | 5,088 | 0 | 0 | 5,088 |
| 4 | 0 | 5,088 | 8,404 | 3,316 |
| 5 | 0 | 0 | 5,088 | 5,088 |
| 6 | 0 | 0 | 5,088 | 5,088 |
| 7 | 430 | 1,936 | 5,090 | 3,584 |
| 8 | 430 | 430 | 0 | 0 |
| 9 | 430 | 430 | 0 | 0 |
| 10 | 430 | 430 | 0 | 0 |
| 11 | 0 | 430 | 3,316 | 3,746 |

Source: Volumes developed from either TIA or scoping agreement.

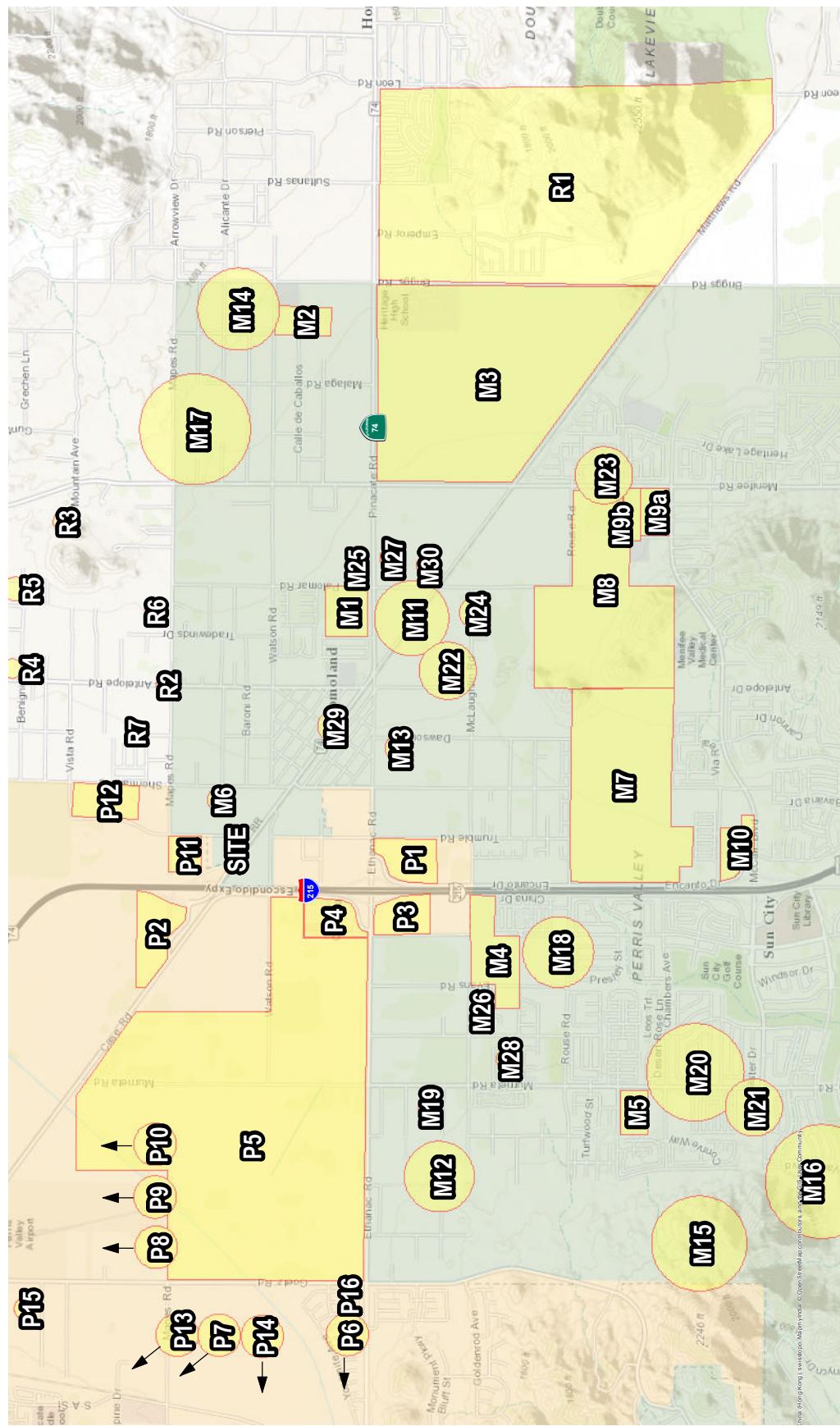
EXHIBIT 4-3: CUMULATIVE DEVELOPMENT LOCATION MAP

Table 4-2
(Page 1 of 4)

Summary of Cumulative Development Projects

| No. | Project Name | Land Use | Quantity ¹ |
|------------------------|---|-------------------------------|-----------------------|
| City of Menifee | | | |
| M1 | TR 34118 | Single Family Residential | 169 DU |
| M2 | TR34600 | Single Family Residential | 153 DU |
| M3 | TR 31811 | Single Family Residential | 559 DU |
| | TR 31812 | Senior Adult Detached Housing | 742 DU |
| M4 | TR 30182 | Single Family Residential | 84 DU |
| | TR 33419 | Single Family Residential | 140 DU |
| | TR 35143 | Single Family Residential | 15 DU |
| M5 | TR 32314 | Single Family Residential | 33 DU |
| M6 | PP 22354 | Trailer and Boat Storage | 2.39 AC |
| M7 | Fleming Ranch Specific Plan | Single Family Residential | 1,169 DU |
| | | Apartments | 556 DU |
| | | Active Parks | 16.1 AC |
| | | City Parks | 11.5 AC |
| | | Elementary School | 1,050 STU |
| | | Business Park | 163.000 TSF |
| M8 | TR 29835 | Single Family Residential | 543 DU |
| | TR 31098 | Single Family Residential | 264 DU |
| M9a | CUP 03549 | Shopping Center | 81.700 TSF |
| M9b | Village at Junipero | Apartments | 240 DU |
| M10 | Menifee North Shopping Center | Free-Standing Discount Store | 200.000 TSF |
| | | Bank w/ Drive-Thru | 5.500 TSF |
| | | Fast-food w/ Drive-Thru | 6.700 TSF |
| | | Fast-food w/o Drive-Thru | 5.500 TSF |
| | | Coffee Shop w/ Drive-Thru | 2.000 TSF |
| | | Retail | 7.500 TSF |
| M11 | Motte Town Center | Industrial | 97.564 TSF |
| M12 | TTM 34037 | Single Family Residential | 128 DU |
| M13 | PP 21748/CUP 03300 | Heavy Warehouse | 9.70 AC |
| M14 | TTM 33738 | Single Family Residential | 52 DU |
| M15 | Cimarron Ridge (TTM 36657 / PM 36658) | Single Family Residential | 756 DU |
| M16 | Stonegate (TM31456) | Single Family Residential | 177 DU |
| M17 | TR31536 | Single Family Residential | 44 DU |
| M18 | McLaughlin Village (PAR 2015-133) | Townhomes | 126 DU |
| M19 | TR 31856 | Single Family Residential | 79 DU |
| M20 | Thorton Terraces (TTM 2014-225) | Townhomes | 19 DU |
| M21 | Valley Blvd. Tract (TR 2015-211) | SFDR | 75 DU |
| M22 | Trumble Office and Warehouse (PP 2011-003, EOT 205-2) | Industrial | 61.730 TSF |
| M23 | 2015-246 PAR | Fast Food | 2.400 TSF |

Table 4-2
(Page 2 of 4)

Summary of Cumulative Development Projects

| No. | Project Name | Land Use | Quantity ¹ |
|-----------------------|---|------------------------------|-----------------------|
| M24 | PP 16208 | Storage Yard | 14.76 AC |
| M25 | PP 17864 | Warehouse/Office | 32.000 TSF |
| M26 | TR 25530/TR 25530M1 | Single Family Residential | 76 DU |
| M27 | PP 21050 | Industrial | 9.350 TSF |
| M28 | TR 25529 | Single Family Residential | 168 DU |
| M29 | PP 15480 | Auto Parts Store | 3.000 TSF |
| M30 | PP 23821 | Warehouse | 29.162 TSF |
| City of Perris | | | |
| P1 | Towne Center (DPR 06-0337) | Shopping Center | 286.000 TSF |
| | | Free-Standing Discount Store | 221.000 TSF |
| P2 | Metrolink Station | Light Rail Transit | 680 SP |
| P3 | PDO 07-12-0006 | Shopping Center | 60.000 TSF |
| P4 | Remaining DPR 04-0621 (Perris Crossing) | Fast-food w/ Drive-Thru | 16.300 TSF |
| | | General Office | 24.200 TSF |
| | | Specialty Retail | 26.825 TSF |
| | | Shopping Center | 209.500 TSF |
| P5 | Green Valley Specific Plan | Single Family Residential | 976 DU |
| | | Condo/Townhomes | 1,472 DU |
| | | Apartments | 926 DU |
| | | Community Center | 131.769 TSF |
| | | Shopping Center | 303.831 TSF |
| P6 | Riverwoods Specific Plan | Single Family Residential | 663 DU |
| | | Elementary School | 600 STU |
| | | City Park | 12 AC |
| | | Community Center | 2.500 TSF |
| P7 | DPR 07-0130 (First Industrial) | High-Cube Warehouse | 760.000 TSF |
| | DPR 08-01-0007 (First Industrial) | High-Cube Warehouse | 3200.000 TSF |
| | DPR 08-01-0006 (First Industrial) | High-Cube Warehouse | 3400.000 TSF |
| P8 | DPR 08-04-0016 (Redlands Retail) | Shopping Center | 643.000 TSF |
| | DPR 10-01-0008 | Shopping Center | 43.000 TSF |
| | DPR 07-07-0032 | Shopping Center | 83.464 TSF |
| P9 | Parkwest Specific Plan | Single Family Residential | 2,027 DU |
| | TR 34078 | Single Family Residential | 72 DU |
| | TR 31678 | Single Family Residential | 67 DU |
| | DPR 06-0378 | Senior Apartments | 429 DU |
| | DPR 10-03-0001 | Senior Apartments | 190 DU |
| | TR 31651 | Single Family Residential | 57 DU |
| | TR 31240-1 | Single Family Residential | 114 DU |
| | DPR 12-05-0013 | Apartments | 75 DU |

Table 4-2
(Page 3 of 4)

Summary of Cumulative Development Projects

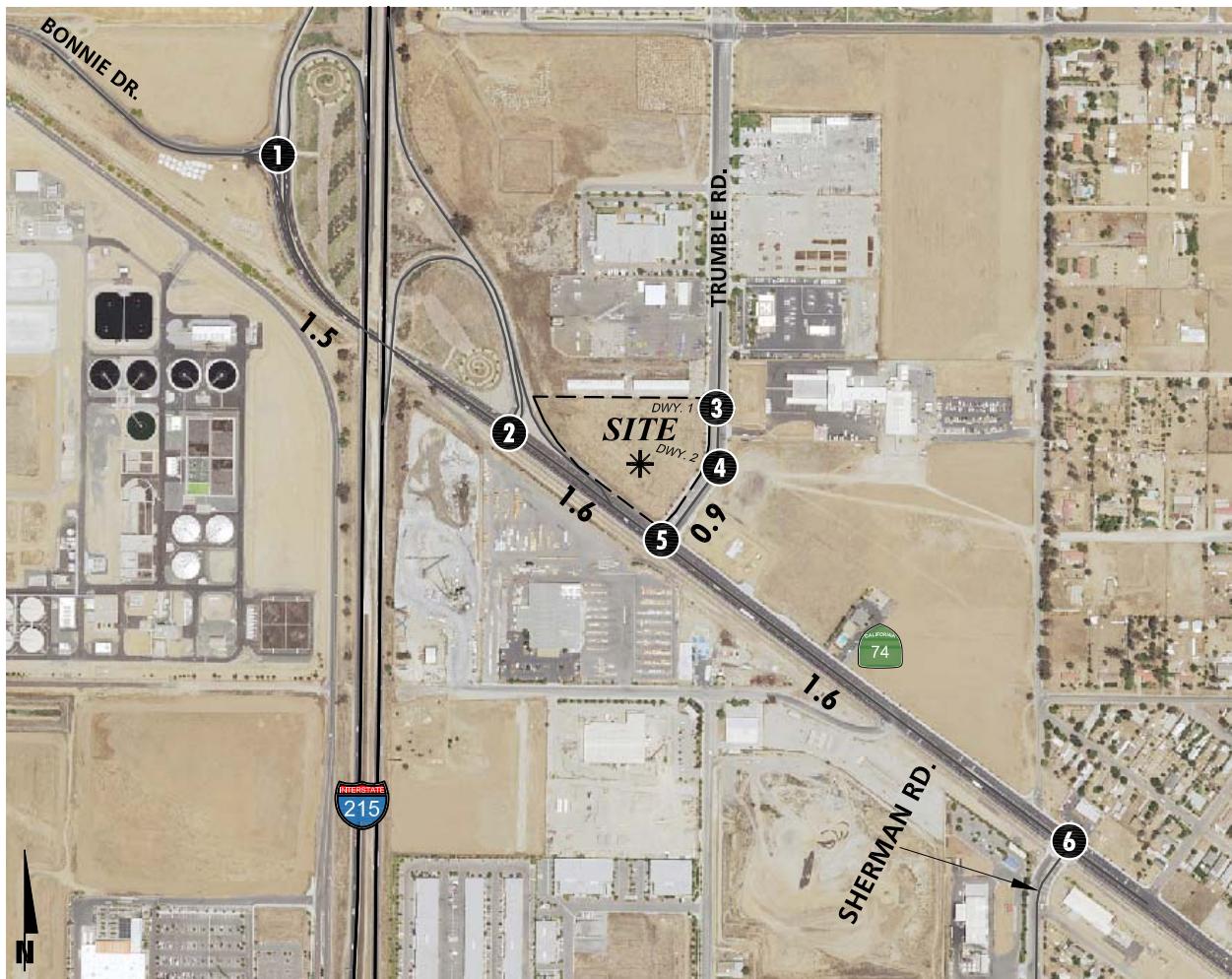
| No. | Project Name | Land Use | Quantity ¹ |
|-----|--------------------------|--|-----------------------|
| P10 | Downtown Specific Plan | Single Family Residential | 391 DU |
| | | Apartments | 2,598 DU |
| | | Condo/Townhomes | 377 DU |
| | | General Office | 1588.271 TSF |
| | | Shopping Center | 536.576 TSF |
| | | General Light Industrial (Existing Uses) | -344.485 TSF |
| | DPR 12-07-0011 | Specialty Retail | 12.480 TSF |
| P11 | DPR 11-12-0009 | Hotel | 100 ROOM |
| P12 | Aquatic Center in Perris | Aquatic Center | 250 PS |
| P13 | TR 31304 | Single Family Residential | 123 DU |
| | TR 31407 | Single Family Residential | 243 DU |
| | TR 30973 | Single Family Residential | 35 DU |
| | TR 31225 | Single Family Residential | 57 DU |
| | TR 31226 | Single Family Residential | 82 DU |
| | TR 33050 | Single Family Residential | 35 DU |
| | TR 33199 | Single Family Residential | 26 DU |
| | TR 33200 | Single Family Residential | 130 DU |
| | TR 33274 | Single Family Residential | 28 DU |
| | TR 33193 | Condo/Townhomes | 94 DU |
| | TR 32032 | Single Family Residential | 108 DU |
| | TR 31926 | Single Family Residential | 337 DU |
| | TR 33900 | Single Family Residential | 198 DU |
| | TR 33973 | Single Family Residential | 384 DU |
| | TR 31925 | Single Family Residential | 10 DU |
| P14 | TR 32525 | Single Family Residential | 162 DU |
| P15 | DPR 14-03-0018 | Light Industrial | 47.121 TSF |
| P16 | TTM 36343 (10-10-0009) | Single Family Residential | 184 DU |

Table 4-2
(Page 4 of 4)

Summary of Cumulative Development Projects

| No. | Project Name | Land Use | Quantity ¹ | |
|----------------------------|--------------|---------------------------|-----------------------|----|
| County of Riverside | | | | |
| R1 | TR 31500 | Single Family Residential | 182 | DU |
| | TR 32514 | Condo/Townhomes | 86 | DU |
| | TR 28801 | Single Family Residential | 189 | DU |
| | TR 36430 | Single Family Residential | 340 | DU |
| | TR 30972 | Single Family Residential | 91 | DU |
| | | City Park | 1.50 | AC |
| R2 | TR 32748 | Single Family Residential | 22 | DU |
| R3 | TR 33389 | Single Family Residential | 31 | DU |
| R4 | TR 36157 | Single Family Residential | 8 | DU |
| R5 | PM 31122 | Single Family Residential | 4 | DU |
| R6 | TR 31687 | Single Family Residential | 65 | DU |
| R7 | TR 25901 | Single Family Residential | 124 | DU |

EXHIBIT 4-4: CUMULATIVE ONLY TRAFFIC VOLUMES



| 1 | SR-74 SB Ramp & Bonnie Dr. | 2 | I-215 NB Ramp & SR-74 | 3 | Trumble Rd. & Dwy. 1 | 4 | Trumble Rd. & Dwy. 2 | 5 | Trumble Rd. & SR-74 | 6 | Sherman Rd. & SR-74 |
|---|--|---|---|---|----------------------|---|----------------------|---|--|---|--|
| | | | | | Future Intersection | | Future Intersection | | | | |
| 1 | 18(44) ↓ 24(55) → 154(131) ↑ 14(14) → | 2 | 0(0) ↓ 73(61) → 9(18) ↓ 34(76) → 16(15) ↓ 95(84) → | 3 | | 4 | | 5 | 12(16) ↓ 10(19) → 17(17) → 27(77) → | 6 | 0(0) ↓ 0(0) → 98(82) → 5(4) ↓ 19(17) → 0(0) ↑ 2(6) → |

LEGEND:

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES
10.0 = VEHICLES PER DAY (1000'S)

Table 4-2
(Page 1 of 4)

Summary of Cumulative Development Projects

| No. | Project Name | Land Use | Quantity ¹ |
|------------------------|---|-------------------------------|-----------------------|
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| M1 | TR 34118 | Single Family Residential | 169 DU |
| M2 | TR34600 | Single Family Residential | 153 DU |
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| M4 | TR 30182 | Single Family Residential | 84 DU |
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| M6 | PP 22354 | Trailer and Boat Storage | 2.39 AC |
| M7 | Fleming Ranch Specific Plan | Single Family Residential | 1,169 DU |
| | | Apartments | 556 DU |
| | | Active Parks | 16.1 AC |
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| | | Elementary School | 1,050 STU |
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| M8 | TR 29835 | Single Family Residential | 543 DU |
| | TR 31098 | Single Family Residential | 264 DU |
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Summary of Cumulative Development Projects

| No. | Project Name | Land Use | Quantity ¹ |
|-----------------------|---|------------------------------|-----------------------|
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| | | Condo/Townhomes | 377 DU |
| | | General Office | 1588.271 TSF |
| | | Shopping Center | 536.576 TSF |
| | | General Light Industrial (Existing Uses) | -344.485 TSF |
| | DPR 12-07-0011 | Specialty Retail | 12.480 TSF |
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| P12 | Aquatic Center in Perris | Aquatic Center | 250 PS |
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| | TR 33193 | Condo/Townhomes | 94 DU |
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| P14 | TR 32525 | Single Family Residential | 162 DU |
| P15 | DPR 14-03-0018 | Light Industrial | 47.121 TSF |
| P16 | TTM 36343 (10-10-0009) | Single Family Residential | 184 DU |

Table 4-2
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Summary of Cumulative Development Projects

| No. | Project Name | Land Use | Quantity ¹ | |
|----------------------------|--------------|---------------------------|-----------------------|----|
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| | TR 32514 | Condo/Townhomes | 86 | DU |
| | TR 28801 | Single Family Residential | 189 | DU |
| | TR 36430 | Single Family Residential | 340 | DU |
| | TR 30972 | Single Family Residential | 91 | DU |
| | | City Park | 1.50 | AC |
| R2 | TR 32748 | Single Family Residential | 22 | DU |
| R3 | TR 33389 | Single Family Residential | 31 | DU |
| R4 | TR 36157 | Single Family Residential | 8 | DU |
| R5 | PM 31122 | Single Family Residential | 4 | DU |
| R6 | TR 31687 | Single Family Residential | 65 | DU |
| R7 | TR 25901 | Single Family Residential | 124 | DU |

Table 1
Page 1 of 1

Cumulative Development Trip Generation Summary

| Project | Quantity | Units ² | Weekday AM Peak Hour | | | Weekday PM Peak Hour | | | Weekday Daily | | | |
|--|----------|--------------------|----------------------|-----|-------|----------------------|-----|-------|---------------|--|--|--|
| | | | In | Out | Total | In | Out | Total | | | | |
| Project Trip Generation Summary | | | | | | | | | | | | |
| TAZ 1 | | | | | | | | | | | | |
| P11 - DPR11-12-0009 | 100 | RM | 31 | 22 | 53 | 31 | 29 | 60 | 817 | | | |
| TAZ 2 | | | | | | | | | | | | |
| M29 - PP 15480 | 3,000 | TSF | N/A | N/A | N/A | 6 | 8 | 13 | 134 | | | |
| TAZ 3 | | | | | | | | | | | | |
| M1 - TR 34118 | 169 | DU | 32 | 95 | 127 | 106 | 63 | 169 | 1,609 | | | |
| TAZ 4 | | | | | | | | | | | | |
| P2 - Metrolink | 680 | PARKING SPACES | 585 | 143 | 728 | 490 | 354 | 843 | 1,707 | | | |
| | | Total: | 648 | 259 | 907 | 633 | 453 | 1,086 | 4,266 | | | |

¹ Trip Generation Source: Institute of Transportation Engineers (ITE), *Trip Generation*, Ninth Edition (2012).

² DU = Dwelling Units; TSF = Thousand Square Feet

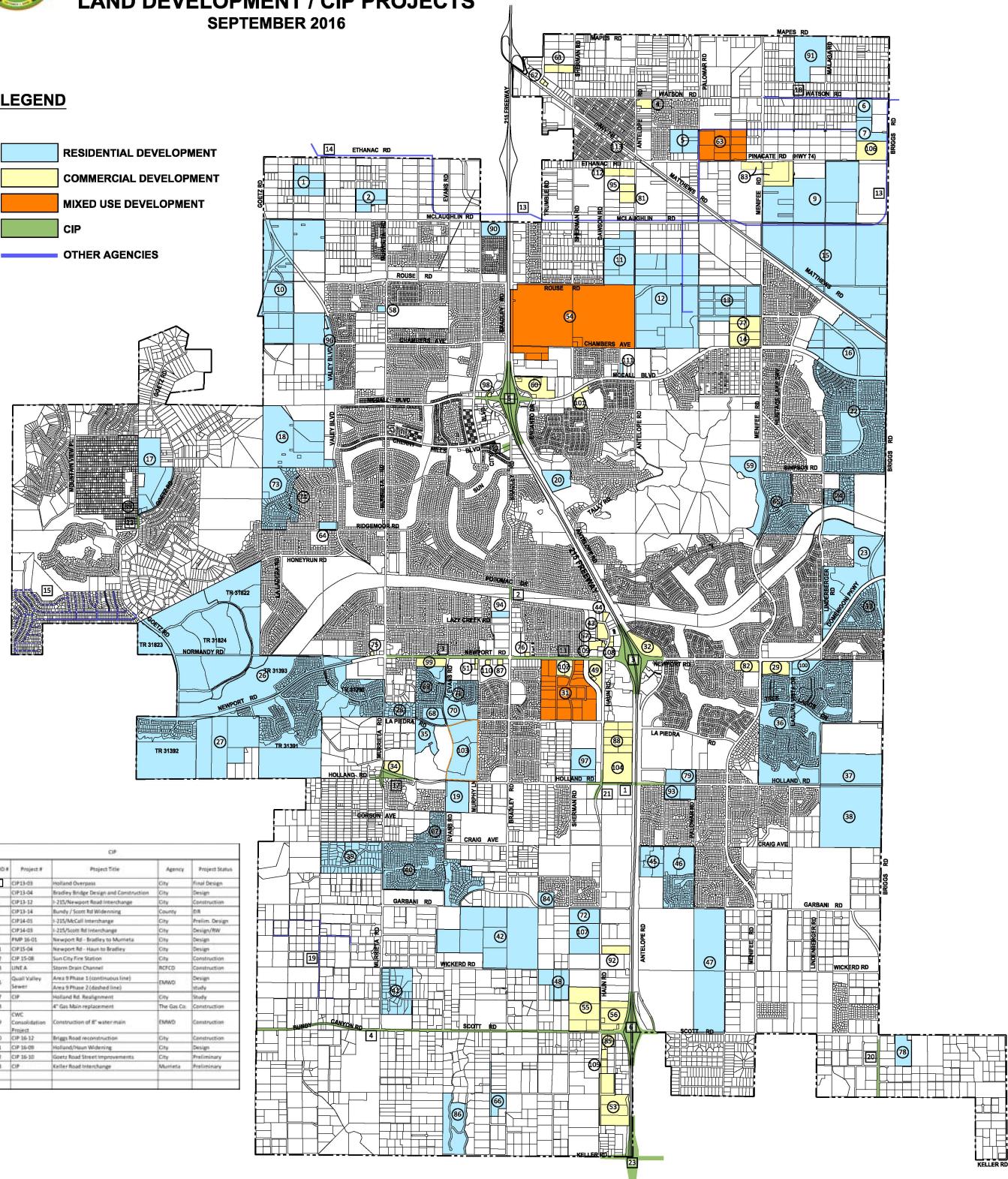


CITY OF MENIFEE

LAND DEVELOPMENT / CIP PROJECTS SEPTEMBER 2016

LEGEND

- RESIDENTIAL DEVELOPMENT
- COMMERCIAL DEVELOPMENT
- MIXED USE DEVELOPMENT
- CIP
- OTHER AGENCIES



U/E = Upcoming for Entitlement

C/E = Currently in-house for Entitlement

U/F = Upcoming for Final Engineering and/or Project Entitlement Approved

C/F = Currently in-house for Final Engineering

| Map # | Project Reference | Name | Approved By | Status | Map # | Project Reference | Name | Approved By | Status | Map # | Project Reference | Name | Approved By | Status | Map # | Project Reference | Name | Approved By | Status |
|-------|----------------------|------------------------------------|-------------|--------|----------|---------------------------|--|-------------|-------------|-------|----------------------|---------------------------------------|-------------|-------------|-------------------------|---------------------------------------|--------------------------------------|-------------|--------|
| O | TTM 14036 | Developer Captain | C/E | 27 | TR 10205 | Canyon Cross (Brookfield) | County | C/E | In progress | 73 | TR 28001 | Adorio | County | U/F | 97 | PAR 2015-039 | Tract Map - single family homes | In progress | G/E |
| 1 | TTM 33067 | Developer Sunwest | County | U/F | 28 | TR 30802 | Boulder Creek (CA Homes) | County | C/E | 74 | TR 28003-3 | American Tire Depot | County | In progress | 98 | 2015-023/CUP | Fast food | In progress | |
| 4 | TTM 33068 | Axonbridge Ranch LLC | City | C/E | 29 | 2014-095 / PM 36228 | Stater Brothers | City | C/E | 76 | CUP 2013-157 | North Bayport Industrial Park II, LTD | In progress | 99 | 2015-021/PM | C/P Menifee DPSS | In progress | | |
| 5 | TTM 34118 | MR-271LCE (Rancon) | County | U/F | 31 | SP 2006-069 | Town Center (Regency) | City | C/E | 54 | SP 2009-025 | Fleming Ranch (Fleming) | In progress | 100 | 2016-063/GPA-062 | Market Rate Apartments (Shrine Knoll) | In progress | G/E | |
| 6 | TTM 33736 | MR-361LCE (Rancon) | County | C/E | 32 | PP 2014-113 | Monica Lakes Plaza (Monica Lakes U/P) | City | C/E | 55 | PP 2014-202 | The Junction (PacTenn) | City | U/F | 78 | PAR 2014-188 | (Southern CA Properties) | In progress | |
| 7 | TTM 34002 | MR-271LCE (Rancon) | County | C/E | 33 | TTM 32102 | Developer: Rancon | County | U/F | 56 | PP 2013-122 | Walmart | City | U/F | 79 | PP 2013-164 | Pulse Homes | In progress | |
| 8 | TTM 34003 | MR-271LCE (Rancon) | County | U/F | 34 | TR 30803 | Westgate Ranches (Westgate) | County | U/F | 57 | PP 2013-155 | Monterey Town Square II | City | U/F | 80 | PP 2013-192 | Monterey Town Square II | In progress | |
| 10 | TTM 36517 / PM 36658 | Camino Ridge (Van Daele) | City | U/F | 35 | TR 30804 | Pacific Communities | County | U/F | 58 | PP 2013-237 | River Terrace (Baldwin Investments) | In progress | 81 | 2015-021/PM | Rice Acid/Archibald's Restaurant | In progress | C/F | |
| 11 | TTM 29777 | Talavera (Toro U/C Companies) | County | C/E | 36 | TR 3042/CUP 03831 | The Lakes (Pulne and Lennar) | County/City | C/E | 59 | 2013-040 | Diamond Apartments (Diamond U/C) | In progress | 82 | 2015-021/PM | SD Investments | In progress | | |
| 12 | TTM 29833 | Underwood (CV Communities) | County | C/E | 37 | TR 31229 | Menifee Nautical Cove (Rancon) | County | U/F | 60 | 2013-120 | Walmart | In progress | 83 | PP 2013-146 | SCS Expansion | In progress | | |
| 13 | TTM 33998 | 2014-204-MC (Strata Equity) | County | C/E | 38 | TR 32777 | Menifee Heights (CV Communities) | County | U/F | 61 | 2009-11 | UPS Expansion (LIPS) | City | C/E | 84 | TR 2014-102 | DD Investments | In progress | |
| 14 | 2014-204-MC | Heritage Square (Strata Equity) | County | C/E | 39 | TRM 29036 | Colder Ranch (Classic Pacific) | County | C/E | 62 | 2010-051/OSB | Jack in the Box and Gas Station | City | C/E | 85 | PP 2013-246 | Shops at Scott (Menifee Partners LP) | In progress | |
| 15 | TTM 34005 | Developer: Sunwest | County | U/F | 40 | TR 30805 | Valle Verde Ranch (Strata Equity) | County | C/E | 63 | PP 2013-247 | Deep in the Woods (Menifee Road U/P) | In progress | 86 | PAR 2015-053 / TR 36664 | Bundy Canyon Development Co. | In progress | | |
| 16 | TTM 34006 | Heritage Lakes (Standard Pacific) | County | U/F | 41 | TR 30564 | Golfview Estates (Pacific Communities) | County | C/E | 64 | 2010-038-TR | Redwoodne Investments LLC | County | U/F | 87 | PP 2013-129 | Deep in the Woods (Menifee Road U/P) | In progress | |
| 17 | TR 33794 | Quail Hill (Rancon) | City | C/E | 42 | TRM 31194 | Golden Meadows (Rancon) I | County | C/E | 65 | TRM 31562 | El Dorado (Rancon and Unear) | County | C/E | 88 | PP 2013-117 | El Rancho Market | In progress | |
| 18 | TTM 34156 | Stonegate (Gordon Youde) | County | U/F | 43 | 2014-146 | Menifee Unified School Dist HQ | City | C/E | 66 | PP 2013-135 | Sweetwater Canyon Rd (Mr. Cook) | County | U/F | 90 | PAR 2015-133 | McLaughlin Village | In progress | |
| 19 | PA 2014-218 | Rowland (Hawthorne Development) | City | C/E | 44 | 2013-235 | Int'l Auto Crushers | City | C/E | 67 | TRM 30504 | Alisia - Meritage Homes | County | Complete | 91 | TR 31536 | All Star Super Storage | In progress | |
| 20 | PP 34697 | Kensington Apartments (Bob Devine) | City | C/E | 45 | TRM 32620 | Christensen Ranch (Baron Comm.) | County | U/F | 68 | TRM 28782 | Country | C/E | 92 | 2015-020-156 | All Star Super Storage | In progress | | |
| 21 | TR 33790 / TR 34406 | Heritage Square (Standard Pacific) | County | U/F | 46 | TR 30806 | Heritage Square (Richardson, Ivan Comm.) | County | C/E | 69 | TR 30807 | Paradise Apartments (Bob Devine) | County | In progress | 93 | 2015-021-149 | Paradise Apartments (Bob Devine) | In progress | |
| 22 | TR 33230 / TR 33512 | Developer: Sunwest | County | U/F | 47 | TRM 33712 | Centerville (Richardson, Ivan Comm.) | County | C/E | 70 | TR 28189 | Parc Communities | County | C/E | 94 | 2015-020-PAR | Menifee Riverfront (Bob Devine) | In progress | |
| 23 | TR 33230 | Developer: Sunwest | County | C/E | 48 | TRM 33511 | Gracite (Gracite Investments) | County | C/E | 71 | TR 28990 | Parc Communities | County | C/E | 95 | 2015-020-PAR | Trumbull Offices and warehouse | In progress | |
| 24 | TRM 32186 | Audie Murphy Ranch (Brookfield) | County | C/E | 49 | PP 2014-009 | Shopping Center (Audie Dev.) | City | C/E | 72 | 2016-057PP...-058-C2 | Rancho Bonito | In progress | 96 | 2015-213 | Valley Blvd. Trap Lot | City | G/E | |
| 25 | TR 3099 | Audie Murphy Ranch (Brookfield) | County | C/E | | | | | | 73 | TR 28008 | Mapes Rd | County | In progress | 97 | 2016-028-CUP | Mapes Rd | In progress | |

Cumulative Project List for Green Valley Tract

(entitled – on hold for years) DPR 10-01-0008, TTM 36266 (10-01-0009) & CUP 10-04-0001 - To construct a 48,778 square foot retail shopping center and subdivide a 4.97-acre site into six parcels at the southwest corner of Redlands Avenue and San Jacinto Road. **Applicant:** Lewis Retail Centers

(entitled – on hold for years) Environmental Impact Report, Development Plan Review 08-04-0015, Conditional Use Permit 08-04-0016, Tentative Parcel Map 35700, and Variance 08-09-0005 to construct an approximately 643,000 sq. ft. commercial shopping center on 68 gross acres at the southeasterly corner of San Jacinto Avenue and Redlands Avenue. Applicant: Lewis Retail Centers

(entitled – on hold for years) Tentative Tract Map (TTM) 33973 for subdivision of a 153.7 acre property into 384 single family lots, plus a community park and open space, located north of San Jacinto River, west of McPherson Road, south of Ethanac Road, east of Sophie Street. **Applicant:** Portezuelo Partners, Inc.

(ENTITLED – submitted building plans) Conditional Use Permit 13-07-0010, General Plan Amendment 13-07-0008and Zone Change 13-07-0009-to permit an outdoor lumber and storage facility with a new 915 sq. ft. office building located at Watson Road, North of Ethanac Road, South of Highway 74 (APN #329-250-014). The project includes a General Plan Amendment (GPA) and Zone Change (ZC) to rezone and amend the General Plan Land Use designation of the project site from CC (Community Commercial) to LI (Light Industrial) to facilitate development of this project.

(in construction) Conditional Use Permit 11-12-0010 - Proposal to construct a Metrolink Station (Station "F") and layover facility within 40.55 acres located at the northwest corner of Case Road and Mapes Road, between the San Jacinto River and I-215. The Metrolink station includes a 510' long concrete platform with a steel canopy (1,908 sq. ft.), a 200 sq. ft. communication shelter, and a parking lot with 730 parking stalls. The layover facility consists of a second 567 sq. ft. maintenance building, 2,064 sq. ft. crew building, three (3) 234 sq. ft. trash enclosures, a 324 sq. ft. steel equipment canopy, and 37 parking stalls. Other off-site railroad track improvements proposed include fencing along both sides of the track, street improvements and signaling. **Applicant:** Riverside County Transportation Commission.

(in construction) Major Modification 11-12-0002 to Development Plan Review 05-0425 for Phase II of the Downtown Perris Train Station expansion. Phase II includes 250 new parking spaces, a platform expansion, a 567 sq. ft. storage/maintenance building, a communications shelter/tower and an 81 sq. ft. restroom facility. Other railroad track improvements are proposed, including fencing, street improvements and signaling. Project area is located between "C" and "D" Street, from San Jacinto Avenue to 6th Street **Applicant:** Riverside County Transportation Commission.

(in construction) Development Plan Review 13-10-0020 for a new 6,356 square foot retail pharmacy and office building on a vacant .56 acre site in the Community Commercial Zone on the north side of 4th Street, west of Park Avenue (i.e. 540 W. 4th Street). **Applicant:** Dave Madden Architect

(in construction) Conditional Use Permit 15-05069 – Request to operate a paintball and airsoft sports park for a five-year period with temporary improvements consisting of a gravel parking lot, two modular office buildings totaling 2,400 square feet and 160 square feet modular restroom building located on a 48.3 acre site. The site is located on the south side of Ellis Avenue between Case Road and the San Jacinto River Flood Control Channel. **Applicant:** Karen Woodruff; Action Star Games, Inc.

(in process) DPR 14-03-0018 and MA 14-03-0019 to construct a new 47,121 square-foot manufacturing building as an expansion facility for the recycling of plastic materials for mass production use such as plastic ties, water bottles, etc on the westerly side of Goetz Road, approximately 400-feet north of Malbert Street. **Applicant:** Mark Orman, Global Plastics

(entitled) Environmental Assessment/Stockpile Permit 15-05023 – A 4-phase stockpile permit plan to import approximately 1.2 million cubic yards of dirt from the Riverside County Flood Control District Line “A” construction site (Romoland Master Drainage Plan) to Tentative Map 24648 of the Green Valley Specific Plan, generally located at the northeast corner of Ethanac Road and Goetz Avenue. **Applicant:** Scott Hildebrandt, Webb and Associates

(entitled) Stockpile Permit 15-05053 – Proposal to move and pile approximately 150,000 cubic yards of excess dirt material generated from the RCFC and WCD Line A flood control project onto approximately 51 undeveloped acres, located north of Line A between I-215 and Trumble Road. (APN# 331-100-001,002,012,013,017,019,023,024, and 027 thru 032). **Applicant:** MTC Consolidated, LLC.

(in construction) General Plan Amendment 10-10-0010, Zone Change 10-10-0011, Text Amendment 11-08-0013, and Tentative Tract Map 36343 (10-10-0009) to facilitate the construction of a 184-lot residential subdivision, a detention basin, a 6-acre City Park, and a park access lot, totaling 187 lots, at the northwesterly corner of Goetz Road and Ethanac Road. Applicant: Chris Mounts, KB Home Coastal, Inc.

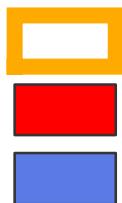
(in construction) ADPR 14-03-0008 - Proposal to develop a six-acre City Park in two phases, located at the northwest corner of Goetz Road and the San Jacinto River. The first phase will be developed by KB Home for the City of Perris, while the second phase will be engineered and designed for the City of Perris to build at a later date. **Applicant:** Chris Mounts, KB Home Coastal, Inc.

(in construction) Conditional Use Permit 13-02-0014 with Letter of Public Convenience & Necessity, Request for Exception, and Variance 13-02-0015 for a 3,010 s.f. 7-Eleven convenience store with off-site beer and wine sales and a fueling center at the southeast corner of 4th Street and Wilkerson Avenue. **Applicant:** Tom Bergerson, DMB Architects

(in process) Development Plan Review 14-03-0025 – Proposal to permanently establish an auction facility on 9.8-acres “WCA”, located at 2021 Goetz Road. The business has been in operation since 2008 under a Temporary Use Permit in connection with a previously approved Development Plan Review (DPR 08-04-0012). **Applicant:** Brian Moening, Western Construction Auctions.

Perris Valley Airport Master Plans (check with ALUC)

Metrolink Project (anticipated to start December 2015)

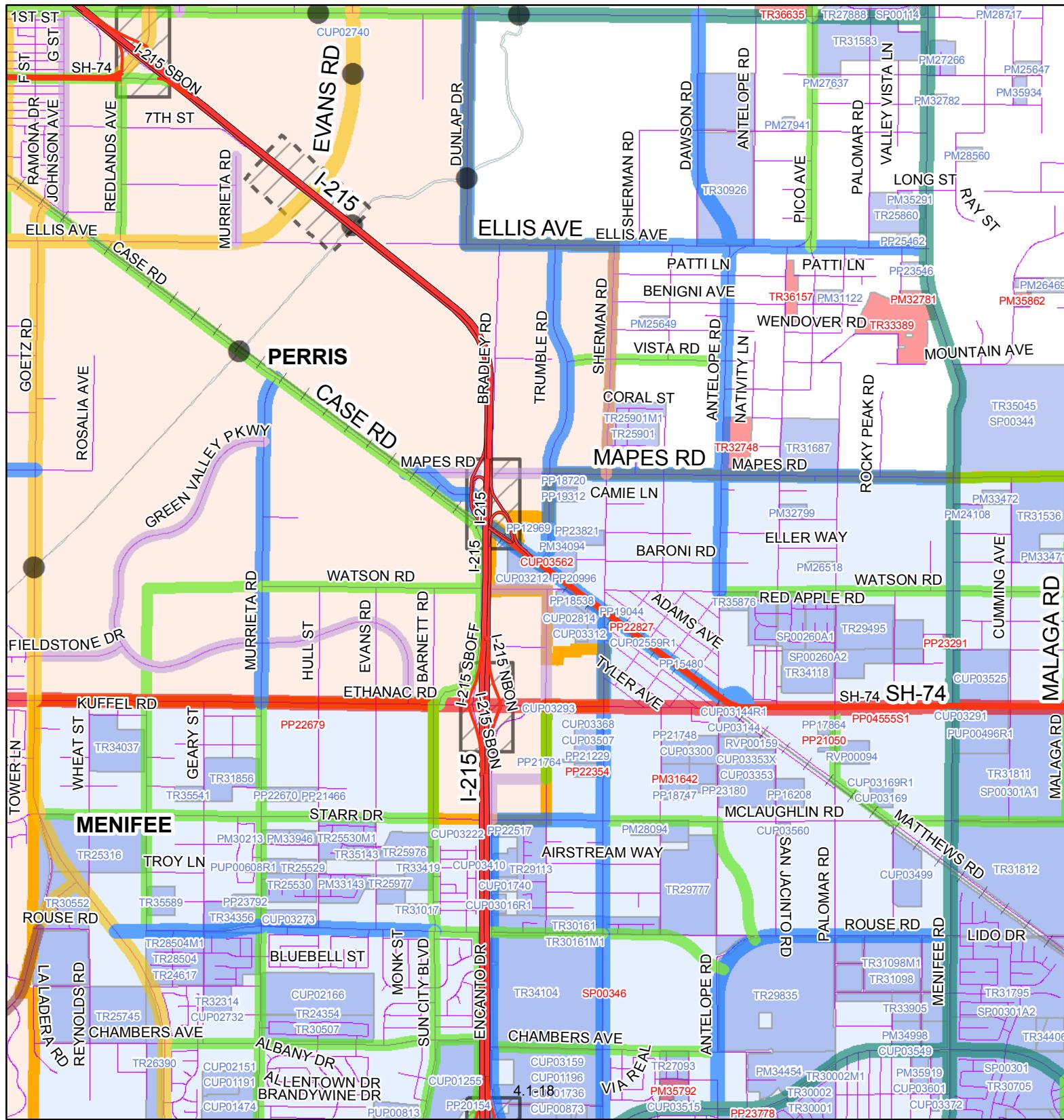


0 1,500 3,000 6,000 Feet



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| <u>CASE NAME</u> | <u>STATUS</u> | <u>APPLIED DATE</u> | <u>APPROVAL DATE</u> | <u>EXPIRED DATE</u> |
|--|---------------|---------------------|----------------------|---------------------|
| <u>CASE DESCRIPTION</u> | | | | |
| CUP03562 | ANNEXED | 20070827 | 0 | 0 |
| GAS STATION AND BEER AND WINE SALES | | | | |
| PM31642 | ANNEXED | 20030716 | 0 | 0 |
| DIVIDE 5 ACRES INTO 2 INDUSTRIAL PARCELS | | | | |
| PM32781 | DRT | 20070108 | 0 | 20000000 |
| SUBDIVIDE 5 ACRES INTO 4 PARCELS | | | | |
| PP04555S1 | VOID | 19960812 | 0 | 0 |
| ADDITION OF 2 STORAGE AREAS TO EXISTING BUILDING | | | | |
| PP21050 | DRT | 20051104 | 0 | 20000000 |
| ONE INDUSTRIAL BLDG 9,350 SF & 2000 SF MEZZANINE | | | | |
| PP22354 | ANNEXED | 20061129 | 0 | 20000000 |
| TRAILER AND BOAT STORAGE FACILITY | | | | |
| PP22679 | ANNEXED | 20070330 | 0 | 20000000 |
| PROPOSE A LARGE RENTAL/SALES CONTRACTOR EQUIPMENT. | | | | |
| PP22827 | DRT | 20070530 | 0 | 20000000 |
| CONSTRUCT A GROCERY STORE | | | | |
| TR32748 | PC | 20040930 | 0 | 20000000 |
| DIVIDE 20 ACRES INTO 22 SFR (20000 SF)LOTS - SCH B | | | | |
| TR33389 | DRT | 20051031 | 0 | 20000000 |
| SUBDIVIDE 38.2 AC INTO 31 SFR LOTS AND 1 OS LOTS | | | | |
| TR36157 | DRT | 20100811 | 0 | 20000000 |
| SUBDWD 9.3 AC INTO 8 SFR LOTS/SCHEDULE B | | | | |

| <u>CASE NAME</u> | <u>STATUS</u> | <u>APPLIED DATE</u> | <u>APPROVAL DATE</u> | <u>EXPIRED DATE</u> |
|---|---------------|---------------------|----------------------|---------------------|
| <u>CASE DESCRIPTION</u> | | | | |
| CUP01740 | APPROVED | 01/31/2008 | 0 | NA |
| PROPOSED AUTO SALES | | | | |
| CUP02086R1 | APPROVED | 05/30/2001 | 20030421 | 07/01/2006 |
| TEMPORARY CONTRACTORS STORAGE YARD | | | | |
| CUP02559R1 | APPROVED | 03/11/2005 | 20050726 | 06/22/2015 |
| AUTO SALES AND REPAIR AND SERVICE CENTER | | | | |
| CUP02814 | APPROVED | 12/21/2000 | 0 | 08/01/2011 |
| PROPOSED CONCRETE BATCH PLANT | | | | |
| CUP03016R1 | APPROVED | 04/13/1998 | 19990202 | NA |
| REV CUP FOR EXPANSION OF EXISTING CONTIG. SELF STO | | | | |
| CUP03144 | APPROVED | 07/15/1991 | 19920714 | 07/14/1995 |
| ASPHALT BATCH PLANT | | | | |
| CUP03144R1 | APPROVED | 11/13/2003 | 20040615 | 06/06/2025 |
| CUP03144 REVISE PERMIT TO EXTEND PERMIT LIFE | | | | |
| CUP03169 | APPROVED | 11/18/1992 | 19930629 | 06/29/1995 |
| WOOD RECYCLING WASTE LUMBER & WOOD PRODUCTS | | | | |
| CUP03169R1 | APPROVED | 09/20/2001 | 20030211 | 01/30/2018 |
| RELOCATE FLD CHANNEL/EASEMT, EXTEND DATE OF CUP | | | | |
| CUP03212 | APPROVED | 01/03/1995 | 19950314 | 03/14/1997 |
| SOIL RECYCLING & PROCESSING FACILITY | | | | |
| CUP03222 | EXPIRED | 08/04/1995 | 19970408 | 04/08/2007 |
| RECREATIONAL VEHICLE PARKING FOR APPROX. 39 VEHICL | | | | |
| CUP03237 | APPROVED | 04/30/1997 | 19970826 | 08/26/1999 |
| BUILD A MORTUARY/CREMATORIUM & INDUST. WAREHOUSE. | | | | |
| CUP03293 | APPROVED | 07/20/1999 | 20000620 | 05/18/2004 |
| FAST FOOD RESTAURANT | | | | |
| CUP03300 | APPROVED | 12/02/1999 | 20001128 | NA |
| HEAVY EQUIPMENT STORAGE YARD/WAREHOUSE/OFFICES | | | | |
| CUP03312 | APPROVED | 03/20/2000 | 20000502 | NA |
| 4 BLDGS TO MANUF AIR POLL EQUIP | | | | |
| CUP03353 | APPROVED | 08/30/2001 | 20020318 | NA |
| 670 MEGEWATT NATURAL GAS FIRED POWER PLANT | | | | |
| CUP03353X | APPROVED | 12/10/2001 | 20020318 | NA |
| NATURAL GAS COMPRESSER SITE (OFF-SITE FOR CUP03353) | | | | |
| CUP03368 | APPROVED | 03/25/2002 | 20021203 | NA |
| GUNITE AND CONCRETE BATCH PLAN | | | | |
| CUP03410 | APPROVED | 09/09/2003 | 20040309 | NA |
| RV DEALERSHIP & SERVICE CENTER PROPANE SALES | | | | |
| CUP03499 | APPROVED | 02/24/2006 | 0 | NA |
| BLD SUN VALLEY ENERGY FOR NATURAL GAS-FIRED | | | | |
| CUP03507 | ANNEXED | 04/19/2006 | 20090722 | NA |
| A concrete batch plant with a 33,984 square foot o | | | | |
| CUP03560 | APPROVED | 08/22/2007 | 20090317 | 03/17/2011 |
| CONCRETE BATCH FACILITY AND PRECAST MANUFACTURING | | | | |

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|-------------------------|--|---------------------|----------------------|---------------------|
| <u>CASE DESCRIPTION</u> | | | | |
| PM25649 | APPROVED DIVIDE 5 ACRES INTO 4 LOTS | 02/16/1990 | 19910108 | 01/08/2000 |
| PM26518 | APPROVED SPLIT 3.05 ACRES INTO 3 LOTS | 09/06/1990 | 19910521 | 05/21/1995 |
| PM28094 | APPROVED PM TO DIVIDE APPROX 5 ACRES INTO 3 PARCELS | 02/06/1995 | 19950523 | 05/23/1999 |
| PM30213 | APPROVED DIVIDE 5 ACRES INTO 4 PARCELS | 05/18/2001 | 20020514 | NA |
| PM30479 | APPROVED SUBDIVIDE 1.16 AC LOT INTO 2 RES LOTS W/WAIVER | 02/04/2002 | 20030401 | NA |
| PM31122 | APPROVED TO DIVIDE 4.72 ACRES INTO 4 SFR ONE ACRE LOTS | 11/06/2003 | 20040914 | 09/14/2007 |
| PM31163 | APPROVED SUBDIVIDE 4.0 ACRES INTO 2 INDUSTRIAL PARCELS | 05/06/2003 | 20060124 | 01/24/2009 |
| PM32799 | APPROVED SCHED H DIVISION OF 4.9 AC TO 4 PARCELS (SEWERED) | 11/18/2005 | 20070702 | 07/02/2013 |
| PM33143 | APPROVED SCHED F DIVISION OF 1.22 AC INTO 3 17,714 SF PARCE | 01/26/2005 | 20070827 | 08/27/2013 |
| PM33946 | APPROVED SCHED F DIVISION OF 1.43 AC. INTO 3 PARCELS. | 09/14/2005 | 20061016 | 10/16/2012 |
| PM34094 | APPROVED SUBDIVIDE 10AC TO 13 PARCELS FOR LEASE OR SALE | 10/28/2005 | 20070109 | 01/09/2015 |
| PM35291 | APPROVED DIVIDE LOT INTO 4 PARCELS & STREET DEDICATION | 04/11/2007 | 20080414 | 04/14/2015 |
| PM35846 | APPROVED 6.7 ACRE INDUTSRIAL CONDOMINIUM SITE WITH 4 BUILDI | 11/19/2007 | 20090203 | 02/03/2012 |
| PP12969 | APPROVED 154' CELLULAR TELEPHONE MONOPOLE | 09/05/1991 | 19921130 | 11/30/1994 |
| PP15480 | APPROVED AUTO PARTS STORE 3000 SF | 05/26/1998 | 19990422 | NA |
| PP16208 | APPROVED CONTRACTOR STORAGE YARD W/CARETAKER UNIT. | 10/12/1999 | 20010423 | NA |
| PP17864 | APPROVED OFFICE/WAREHOUSE BUILDINGS--POLAR BEER SYSTEMS | 04/30/2002 | 20030623 | NA |
| PP18538 | APPROVED LUMBER YARD W/ OFFICE TRAILER ON 3.69 AC | 03/27/2003 | 20080324 | 03/24/2010 |
| PP18720 | APPROVED 2 20,000 SF LIGHT INDUSTRIAL BUILDINGS IN M-SC | 07/03/2003 | 20060124 | 01/24/2008 |
| PP18747 | APPROVED EROSION CONTROL/CONTRACTOR STORAGE & FABRICATION | 07/16/2003 | 20090616 | 06/16/2011 |
| PP19044 | APPROVED REVIEW FOR AN EXISTING FOOD MARKET (CV033446) | 12/03/2003 | 20090203 | 03/03/2011 |
| PP19312 | APPROVED WIRELESS COMMUNICATION FACILITY (A T & T) | 03/23/2004 | 20051114 | 11/14/2007 |

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|--|---------------|---------------------|----------------------|---------------------|
| <u>CASE DESCRIPTION</u> | | | | |
| PP20996 | APPROVED | 10/28/2005 | 20070109 | 01/09/2009 |
| 1 MULTIUSE COMMERCIAL & 10 LIGHT INDST/MANFCT BLDG | | | | |
| PP21229 | ANNEXED | 12/13/2005 | 20090722 | NA |
| BATCH PLANT; SAND & GRAVEL CONTRRTR/MAINTNCE YARD | | | | |
| PP21466 | ANNEXED | 02/27/2006 | 20090619 | NA |
| CONSTRUCTION YARD/60X40 METAL STORAGE BLDG | | | | |
| PP21599 | APPROVED | 04/03/2006 | 20080226 | 02/26/2010 |
| STORAGE PARKING OF RV VEHICLES | | | | |
| PP21748 | APPROVED | 05/11/2006 | 20080225 | 02/25/2010 |
| STRGE YD/HVY EQUIP PRKN/MECH EQUIP/EXST CRTKR TRL | | | | |
| PP21764 | APPROVED | 05/18/2006 | 20070918 | 09/18/2009 |
| PROPSD MANUFACTURING FOUNTAINS, BIRDBTHS ETC. | | | | |
| PP22517 | APPROVED | 02/01/2007 | 20080908 | 09/08/2010 |
| 1 THREE STORY OFFICE BLDG, 2 SINGLE-STORY RETAIL | | | | |
| PP22670 | ANNEXED | 03/28/2007 | 20090619 | NA |
| MODULAR OFC BLDG AND MODULAR HOME STORAGE FACILITY | | | | |
| PP22807 | ANNEXED | 05/21/2007 | 20090619 | NA |
| (1) 2,599 SQFT JACK-IN-THE-BOX W/ DRIVE THRU | | | | |
| PP22854 | APPROVED | 06/12/2007 | 20090217 | 02/17/2011 |
| CONTRACTOR STORAGE YARD | | | | |
| PP23180 | APPROVED | 11/19/2007 | 20090203 | 02/03/2011 |
| 6.7 ACRE INDUSTRIAL CONDOMINIUM SITE WITH 4 BUILDING | | | | |
| PP23546 | APPROVED | 06/26/2008 | 20080925 | 09/25/2010 |
| INST 6 PANEL ANTENNAS 1 MICRO DISH IN FAUX WATR TK | | | | |
| PP23792 | ANNEXED | 09/26/2008 | 20090717 | NA |
| INSTALL NEW CO-LOCATE A 70 FT MONOPINE 6 PANEL ANT | | | | |
| PP23821 | ANNEXED | 09/30/2008 | 20090722 | NA |
| EXPAND WAREHOUSE FACILITY TO 49,024 S.F.(SEE DESC) | | | | |
| PP25462 | APPROVED | 10/29/2013 | 20150420 | NA |
| CLASS II KENNEL 11-25 DOGS (PASSION FOR PAWS) | | | | |
| PUP00608R1 | APPROVED | 03/07/2002 | 20020716 | NA |
| RESIDENTIAL TRAINING AND COUNSELING FACILITY | | | | |
| RVP00094 | APPROVED | 07/08/1992 | 19920824 | 08/24/1994 |
| RVP TO PP 9865 - MANUFACTURING BUILDING | | | | |
| RVP00159 | APPROVED | 03/30/1995 | 19950606 | 06/06/1997 |
| RVP TO CUP 3144 - REVISE ASPHALT AND CONCRETE BATC | | | | |
| SP00260A1 | APPROVED | 03/28/2002 | 20070403 | 04/03/2027 |
| AMD SP260 - REDUCE COMMERCIAL/RESIDENTIAL/PARK | | | | |
| SP00260A2 | APPROVED | 08/22/2005 | 20080508 | NA |
| SP PROPOSAL FOR APN 329-110-003/026/028/014/019/ | | | | |
| SP00301A1 | APPROVED | 05/25/1999 | 20021223 | NA |
| AMENDMENT TO SP00301 | | | | |
| SP00301A2 | APPROVED | 05/31/2005 | 20060425 | NA |
| AMENDMENT NO 2 TO SP 301 | | | | |

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|--|---------------|---------------------|----------------------|---------------------|
| <u>CASE DESCRIPTION</u> | | | | |
| TR25529 | APPROVED | 01/11/1990 | 19910924 | 09/24/2001 |
| DIVIDE APPROX 41 ACRES INTO 168 LOTS | | | | |
| TR25530 | APPROVED | 01/11/1990 | 19910924 | 09/24/2001 |
| DIVIDE 25 ACRES INTO 99 LOTS | | | | |
| TR25530M1 | APPROVED | 02/13/2001 | 20020129 | 09/24/2002 |
| REDUCE LOTS FROM 99 TO 76 AND ADD 3 ACRE PARK | | | | |
| TR25860 | APPROVED | 06/22/1990 | 19910813 | 08/13/1997 |
| DIVIDE 26.46 ACRES (8 LOTS COMBINED) INTO 49 HALF | | | | |
| TR25901 | APPROVED | 05/08/1991 | 19920728 | 07/28/2003 |
| SUBDIVIDE 39.5 AC INTO 152 LOTS | | | | |
| TR25901M1 | APPROVED | 06/14/2002 | 20030506 | NA |
| DELETE 28 LOTS TO DEDICATE PARK SPACE/BASIN | | | | |
| TR25976 | APPROVED | 06/12/1990 | 19920915 | 09/15/1998 |
| DIVIDE APPROX 27 ACRES INTO 106 LOTS | | | | |
| TR25977 | APPROVED | 06/12/1990 | 19920915 | 09/15/1998 |
| DIVIDE APPROX 9 ACRES INTO 36 LOTS | | | | |
| TR26482 | APPROVED | 08/27/1990 | 19920728 | 07/28/1998 |
| DIVIDE APPROX 5 ACRES INTO 20 LOTS | | | | |
| TR29113 | APPROVED | 01/27/1999 | 20000801 | 08/01/2003 |
| SUBDIVIDE 28.68 AC/138 SFR LOTS/1 REMAINDER | | | | |
| TR29495 | APPROVED | 03/31/2000 | 20010725 | 07/25/2013 |
| DIV 87 AC INTO 321 RES,2 DET BSNS, 1 OS LOTS | | | | |
| TR29777 | APPROVED | 03/01/2002 | 20050517 | 05/17/2008 |
| DIV 63.48 AC INTO 173 RES,1 OS,1 PARK & 1 WTR BSN | | | | |
| TR30926 | APPROVED | 10/14/2003 | 20071204 | 12/04/2017 |
| SCH "A" SUBDIVISION-79.90 ACRES INTO 330 R-4 LOTS | | | | |
| TR31687 | APPROVED | 11/19/2003 | 20050525 | 05/25/2016 |
| SUBDIVIDE 40.17 ACRES INTO 65 SFR LOTS AND 2 OPEN | | | | |
| TR31856 | APPROVED | 10/16/2003 | 20040810 | 08/10/2009 |
| DIVIDE 24.11 INTO 79 LOTS AND 1.3 AC. PARK | | | | |
| TR33419 | APPROVED | 02/02/2005 | 20070508 | 05/08/2015 |
| SUBDIVIDE 36.4 ACRES INTO 157 SF RES LOTS AND 1 | | | | |
| TR34118 | APPROVED | 03/03/2006 | 20080205 | 02/05/2017 |
| SUBDIVIDE 27.58 ACRES INTO 172 SFR/OPEN SPACE/PARK | | | | |
| TR35143 | ANNEXED | 10/03/2007 | 20090619 | NA |
| SUBDIVIDE INTO 15 LOTS SCHEDULE 'A' | | | | |
| TR35876 | APPROVED | 12/19/2007 | 20090217 | 02/17/2012 |
| DIVIDE 5.6AC INTO 17 SFR SCHEDULE A | | | | |

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**APPENDIX 5.1: E+P CONDITIONS INTERSECTION OPERATIONS
ANALYSIS WORKSHEETS**

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| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------|-------|------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 22 | 234 | 270 | 386 | 492 | 37 |
| Future Volume (vph) | 22 | 234 | 270 | 386 | 492 | 37 |
| Turn Type | Prot | Free | Prot | NA | NA | Perm |
| Protected Phases | 8 | | 1 | 6 | 2 | |
| Permitted Phases | | Free | | | | 2 |
| Detector Phase | 8 | | 1 | 6 | 2 | 2 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 22.6 | | 10.0 | 24.2 | 24.2 | 24.2 |
| Total Split (s) | 22.6 | | 27.0 | 67.4 | 40.4 | 40.4 |
| Total Split (%) | 25.1% | | 30.0% | 74.9% | 44.9% | 44.9% |
| Yellow Time (s) | 5.0 | | 4.0 | 5.0 | 5.0 | 5.0 |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.0 | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | Lead | | Lag | Lag | |
| Lead-Lag Optimize? | | Yes | | Yes | Yes | |
| Recall Mode | None | | None | None | None | None |
| Act Effect Green (s) | 6.3 | 48.6 | 13.4 | 35.9 | 18.8 | 18.8 |
| Actuated g/C Ratio | 0.13 | 1.00 | 0.28 | 0.74 | 0.39 | 0.39 |
| v/c Ratio | 0.10 | 0.15 | 0.56 | 0.28 | 0.69 | 0.06 |
| Control Delay | 29.2 | 0.2 | 23.0 | 3.1 | 19.6 | 7.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 29.2 | 0.2 | 23.0 | 3.1 | 19.6 | 7.8 |
| LOS | C | A | C | A | B | A |
| Approach Delay | 2.7 | | | 11.3 | 18.8 | |
| Approach LOS | A | | | B | B | |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 48.6

Natural Cycle: 65

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.69

Intersection Signal Delay: 12.5

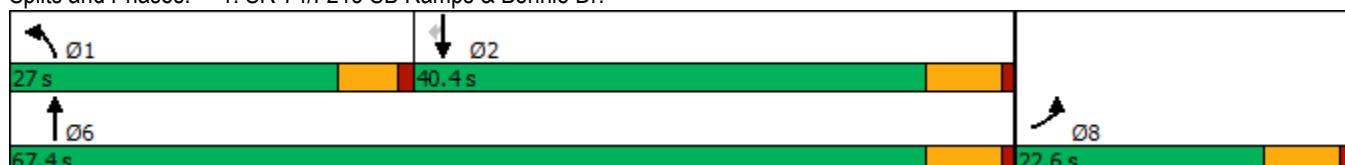
Intersection LOS: B

Intersection Capacity Utilization 59.2%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 1: SR-74/I-215 SB Ramps & Bonnie Dr.



HCM 6th Signalized Intersection Summary
1: SR-74/I-215 SB Ramps & Bonnie Dr.

Mapes & Sherman (JN 14804)
10/26/2022



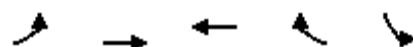
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 22 | 234 | 270 | 386 | 492 | 37 |
| Future Volume (veh/h) | 22 | 234 | 270 | 386 | 492 | 37 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | No | | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 23 | 0 | 278 | 398 | 507 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 51 | | 353 | 1257 | 640 | |
| Arrive On Green | 0.03 | 0.00 | 0.20 | 0.66 | 0.34 | 0.00 |
| Sat Flow, veh/h | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Grp Volume(v), veh/h | 23 | 0 | 278 | 398 | 507 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Q Serve(g_s), s | 0.5 | 0.0 | 5.6 | 3.5 | 9.3 | 0.0 |
| Cycle Q Clear(g_c), s | 0.5 | 0.0 | 5.6 | 3.5 | 9.3 | 0.0 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 51 | | 353 | 1257 | 640 | |
| V/C Ratio(X) | 0.45 | | 0.79 | 0.32 | 0.79 | |
| Avail Cap(c_a), veh/h | 777 | | 1029 | 3016 | 1690 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 18.5 | 0.0 | 14.8 | 2.8 | 11.6 | 0.0 |
| Incr Delay (d2), s/veh | 2.3 | 0.0 | 1.5 | 0.1 | 0.9 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.2 | 0.0 | 1.7 | 0.0 | 2.6 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 20.8 | 0.0 | 16.3 | 2.9 | 12.5 | 0.0 |
| LnGrp LOS | C | | B | A | B | |
| Approach Vol, veh/h | 23 | | | 676 | 507 | |
| Approach Delay, s/veh | 20.8 | | | 8.4 | 12.5 | |
| Approach LOS | C | | | A | B | |
| Timer - Assigned Phs | 1 | 2 | | 6 | 8 | |
| Phs Duration (G+Y+R _c), s | 12.6 | 19.0 | | 31.6 | 7.1 | |
| Change Period (Y+R _c), s | 5.0 | 6.0 | | 6.0 | 6.0 | |
| Max Green Setting (Gmax), s | 22.0 | 34.4 | | 61.4 | 16.6 | |
| Max Q Clear Time (g_c+l1), s | 7.6 | 11.3 | | 5.5 | 2.5 | |
| Green Ext Time (p_c), s | 0.3 | 1.7 | | 1.3 | 0.0 | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 10.3 |
| HCM 6th LOS | B |

Notes

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



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|----------------------|-------|-------|-------|------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ |
| Traffic Volume (vph) | 28 | 698 | 644 | 664 | 188 |
| Future Volume (vph) | 28 | 698 | 644 | 664 | 188 |
| Turn Type | Prot | NA | NA | Free | Prot |
| Protected Phases | 5 | 2 | 6 | | 4 |
| Permitted Phases | | | | Free | |
| Detector Phase | 5 | 2 | 6 | | 4 |
| Switch Phase | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | | 5.0 |
| Minimum Split (s) | 10.3 | 22.5 | 22.5 | | 22.5 |
| Total Split (s) | 15.0 | 59.0 | 44.0 | | 31.0 |
| Total Split (%) | 16.7% | 65.6% | 48.9% | | 34.4% |
| Yellow Time (s) | 4.3 | 4.3 | 4.3 | | 4.3 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Lost Time (s) | 5.3 | 5.3 | 5.3 | | 5.3 |
| Lead/Lag | Lead | | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | | |
| Recall Mode | None | None | None | | None |
| Act Effect Green (s) | 7.0 | 20.7 | 17.6 | 36.3 | 10.6 |
| Actuated g/C Ratio | 0.19 | 0.57 | 0.48 | 1.00 | 0.29 |
| v/c Ratio | 0.09 | 0.36 | 0.39 | 0.44 | 0.40 |
| Control Delay | 20.8 | 6.9 | 11.5 | 0.9 | 16.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 20.8 | 6.9 | 11.5 | 0.9 | 16.9 |
| LOS | C | A | B | A | B |
| Approach Delay | | 7.5 | 6.1 | | 16.9 |
| Approach LOS | | A | A | | B |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 36.3

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.44

Intersection Signal Delay: 7.5

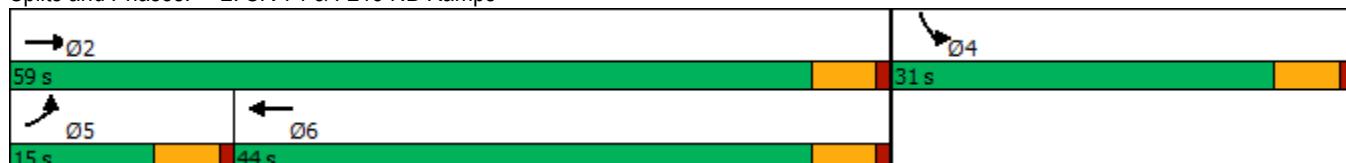
Intersection LOS: A

Intersection Capacity Utilization 43.2%

ICU Level of Service A

Analysis Period (min) 15

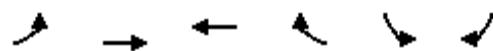
Splits and Phases: 2: SR-74 & I-215 NB Ramps



HCM 6th Signalized Intersection Summary
2: SR-74 & I-215 NB Ramps

Mapes & Sherman (JN 14804)

10/26/2022



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ | |
| Traffic Volume (veh/h) | 28 | 698 | 644 | 664 | 188 | 12 |
| Future Volume (veh/h) | 28 | 698 | 644 | 664 | 188 | 12 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 30 | 743 | 685 | 0 | 200 | 7 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 66 | 1852 | 1117 | | 265 | 9 |
| Arrive On Green | 0.04 | 0.51 | 0.31 | 0.00 | 0.15 | 0.15 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1733 | 61 |
| Grp Volume(v), veh/h | 30 | 743 | 685 | 0 | 208 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1802 | 0 |
| Q Serve(g_s), s | 0.5 | 4.0 | 5.1 | 0.0 | 3.5 | 0.0 |
| Cycle Q Clear(g_c), s | 0.5 | 4.0 | 5.1 | 0.0 | 3.5 | 0.0 |
| Prop In Lane | 1.00 | | | 1.00 | 0.96 | 0.03 |
| Lane Grp Cap(c), veh/h | 66 | 1852 | 1117 | | 276 | 0 |
| V/C Ratio(X) | 0.45 | 0.40 | 0.61 | | 0.75 | 0.00 |
| Avail Cap(c_a), veh/h | 553 | 6105 | 4399 | | 1459 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 15.0 | 4.7 | 9.3 | 0.0 | 12.9 | 0.0 |
| Incr Delay (d2), s/veh | 1.8 | 0.1 | 0.2 | 0.0 | 1.6 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.2 | 0.2 | 1.0 | 0.0 | 1.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 16.8 | 4.8 | 9.5 | 0.0 | 14.4 | 0.0 |
| LnGrp LOS | B | A | A | | B | A |
| Approach Vol, veh/h | 773 | 685 | | 208 | | |
| Approach Delay, s/veh | 5.3 | 9.5 | | 14.4 | | |
| Approach LOS | A | A | | B | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 21.6 | | 10.2 | 6.5 | 15.1 | |
| Change Period (Y+R _c), s | 5.3 | | 5.3 | 5.3 | 5.3 | |
| Max Green Setting (Gmax), s | 53.7 | | 25.7 | 9.7 | 38.7 | |
| Max Q Clear Time (g_c+l1), s | 6.0 | | 5.5 | 2.5 | 7.1 | |
| Green Ext Time (p_c), s | 3.0 | | 0.3 | 0.0 | 2.7 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 8.2 | | | | |
| HCM 6th LOS | | A | | | | |
| Notes | | | | | | |
| User approved volume balancing among the lanes for turning movement. | | | | | | |
| Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay. | | | | | | |

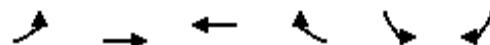
Intersection

Intersection Delay, s/veh 11.2

Intersection LOS B

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ |
| Traffic Vol, veh/h | 1 | 22 | 56 | 266 | 12 | 6 | 62 | 132 | 160 | 4 | 121 | 2 |
| Future Vol, veh/h | 1 | 22 | 56 | 266 | 12 | 6 | 62 | 132 | 160 | 4 | 121 | 2 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 25 | 63 | 299 | 13 | 7 | 70 | 148 | 180 | 4 | 136 | 2 |
| Number of Lanes | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 2 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 3 | | | 2 | | | 3 | | | 3 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 3 | | | 3 | | | 2 | | | 3 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 3 | | | 3 | | | 3 | | | 2 | | |
| HCM Control Delay | 10 | | | 12 | | | 11.1 | | | 10.6 | | |
| HCM LOS | A | | | B | | | B | | | B | | |

| Lane | NBLn1 | NBLn2 | NBLn3 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | WBLn3 | SBLn1 | SBLn2 | SBLn3 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 0% | 8% | 0% | 100% | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 22% | 92% | 16% | 0% | 0% | 67% | 0% | 100% | 95% |
| Vol Right, % | 0% | 0% | 78% | 0% | 84% | 0% | 0% | 33% | 0% | 0% | 5% |
| Sign Control | Stop |
| Traffic Vol by Lane | 62 | 88 | 204 | 12 | 67 | 133 | 133 | 18 | 4 | 81 | 42 |
| LT Vol | 62 | 0 | 0 | 1 | 0 | 133 | 133 | 0 | 4 | 0 | 0 |
| Through Vol | 0 | 88 | 44 | 11 | 11 | 0 | 0 | 12 | 0 | 81 | 40 |
| RT Vol | 0 | 0 | 160 | 0 | 56 | 0 | 0 | 6 | 0 | 0 | 2 |
| Lane Flow Rate | 70 | 99 | 229 | 13 | 75 | 149 | 149 | 20 | 4 | 91 | 48 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.131 | 0.171 | 0.362 | 0.026 | 0.131 | 0.283 | 0.283 | 0.034 | 0.009 | 0.17 | 0.089 |
| Departure Headway (Hd) | 6.747 | 6.243 | 5.69 | 6.883 | 6.257 | 6.81 | 6.81 | 6.076 | 7.256 | 6.751 | 6.717 |
| Convergence, Y/N | Yes |
| Cap | 531 | 573 | 630 | 519 | 571 | 528 | 528 | 588 | 492 | 530 | 532 |
| Service Time | 4.498 | 3.994 | 3.441 | 4.644 | 4.017 | 4.56 | 4.56 | 3.826 | 5.017 | 4.512 | 4.479 |
| HCM Lane V/C Ratio | 0.132 | 0.173 | 0.363 | 0.025 | 0.131 | 0.282 | 0.282 | 0.034 | 0.008 | 0.172 | 0.09 |
| HCM Control Delay | 10.5 | 10.3 | 11.7 | 9.8 | 10 | 12.2 | 12.2 | 9 | 10.1 | 10.9 | 10.1 |
| HCM Lane LOS | B | B | B | A | A | B | B | A | B | B | B |
| HCM 95th-tile Q | 0.4 | 0.6 | 1.6 | 0.1 | 0.4 | 1.2 | 1.2 | 0.1 | 0 | 0.6 | 0.3 |



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 325 | 560 | 772 | 26 | 37 | 535 |
| Future Volume (vph) | 325 | 560 | 772 | 26 | 37 | 535 |
| Turn Type | Prot | NA | NA | Perm | Prot | Perm |
| Protected Phases | 5 | 2 | 6 | | 4 | |
| Permitted Phases | | | | 6 | | 4 |
| Detector Phase | 5 | 2 | 6 | 6 | 4 | 4 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.0 | 11.0 | 41.6 | 41.6 | 30.5 | 30.5 |
| Total Split (s) | 35.0 | 80.0 | 45.0 | 45.0 | 40.0 | 40.0 |
| Total Split (%) | 29.2% | 66.7% | 37.5% | 37.5% | 33.3% | 33.3% |
| Yellow Time (s) | 3.0 | 5.0 | 5.0 | 5.0 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 |
| Lead/Lag | Lead | | Lag | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | Yes | | |
| Recall Mode | None | None | None | None | None | None |
| Act Effect Green (s) | 18.6 | 46.3 | 23.3 | 23.3 | 10.5 | 10.5 |
| Actuated g/C Ratio | 0.27 | 0.68 | 0.34 | 0.34 | 0.15 | 0.15 |
| v/c Ratio | 0.68 | 0.24 | 0.65 | 0.05 | 0.14 | 0.82 |
| Control Delay | 32.7 | 5.0 | 23.6 | 8.9 | 29.6 | 16.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 32.7 | 5.0 | 23.6 | 8.9 | 29.6 | 16.2 |
| LOS | C | A | C | A | C | B |
| Approach Delay | | 15.2 | 23.1 | | 17.0 | |
| Approach LOS | | B | C | | B | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 68.4

Natural Cycle: 85

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.82

Intersection Signal Delay: 18.4

Intersection LOS: B

Intersection Capacity Utilization 63.5%

ICU Level of Service B

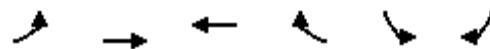
Analysis Period (min) 15

Splits and Phases: 4: SR-74 & Trumble Rd.



HCM 6th Signalized Intersection Summary
4: SR-74 & Trumble Rd.

Mapes & Sherman (JN 14804)
10/26/2022



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 325 | 560 | 772 | 26 | 37 | 535 |
| Future Volume (veh/h) | 325 | 560 | 772 | 26 | 37 | 535 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 0.98 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 335 | 577 | 796 | 24 | 38 | 361 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 389 | 2108 | 1112 | 484 | 462 | 411 |
| Arrive On Green | 0.21 | 0.58 | 0.31 | 0.31 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1571 | 1810 | 1610 |
| Grp Volume(v), veh/h | 335 | 577 | 796 | 24 | 38 | 361 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1571 | 1810 | 1610 |
| Q Serve(g_s), s | 11.6 | 5.2 | 12.8 | 0.7 | 1.0 | 14.1 |
| Cycle Q Clear(g_c), s | 11.6 | 5.2 | 12.8 | 0.7 | 1.0 | 14.1 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 389 | 2108 | 1112 | 484 | 462 | 411 |
| V/C Ratio(X) | 0.86 | 0.27 | 0.72 | 0.05 | 0.08 | 0.88 |
| Avail Cap(c_a), veh/h | 859 | 4092 | 2156 | 938 | 984 | 876 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 24.7 | 6.7 | 20.1 | 15.9 | 18.5 | 23.3 |
| Incr Delay (d2), s/veh | 2.2 | 0.1 | 0.9 | 0.0 | 0.0 | 2.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 4.5 | 1.3 | 4.6 | 0.2 | 0.4 | 11.7 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 26.9 | 6.8 | 20.9 | 15.9 | 18.5 | 25.8 |
| LnGrp LOS | C | A | C | B | B | C |
| Approach Vol, veh/h | 912 | 820 | | 399 | | |
| Approach Delay, s/veh | 14.2 | 20.8 | | 25.1 | | |
| Approach LOS | B | C | | C | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 44.1 | | 21.2 | 18.0 | 26.1 | |
| Change Period (Y+R _c), s | 6.0 | | 4.5 | 4.0 | 6.0 | |
| Max Green Setting (Gmax), s | 74.0 | | 35.5 | 31.0 | 39.0 | |
| Max Q Clear Time (g_c+l1), s | 7.2 | | 16.1 | 13.6 | 14.8 | |
| Green Ext Time (p_c), s | 3.8 | | 0.6 | 0.4 | 5.2 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 18.8 | | | |
| HCM 6th LOS | | | B | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | | ↑ | ↑↑ | Y | |
| Traffic Vol, veh/h | 172 | 14 | 0 | 278 | 6 | 0 |
| Future Vol, veh/h | 172 | 14 | 0 | 278 | 6 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 1 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 187 | 15 | 0 | 302 | 7 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 202 | 0 | 346 | 101 |
| Stage 1 | - | - | - | - | 195 | - |
| Stage 2 | - | - | - | - | 151 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 1382 | - | 630 | 941 |
| Stage 1 | - | - | - | - | 825 | - |
| Stage 2 | - | - | - | - | 867 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1382 | - | 630 | 941 |
| Mov Cap-2 Maneuver | - | - | - | - | 673 | - |
| Stage 1 | - | - | - | - | 825 | - |
| Stage 2 | - | - | - | - | 867 | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0 | 10.4 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT | |
| Capacity (veh/h) | 673 | - | - | 1382 | - | |
| HCM Lane V/C Ratio | 0.01 | - | - | - | - | |
| HCM Control Delay (s) | 10.4 | - | - | 0 | - | |
| HCM Lane LOS | B | - | - | A | - | |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|------|------|
| Int Delay, s/veh | 0 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | | | ↑↑ | | ↗ |
| Traffic Vol, veh/h | 166 | 5 | 0 | 278 | 0 | 0 |
| Future Vol, veh/h | 166 | 5 | 0 | 278 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 180 | 5 | 0 | 302 | 0 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | - | - | - | 93 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.3 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 952 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | - | 952 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0 | 0 | | | |
| HCM LOS | | | A | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT | | |
| Capacity (veh/h) | - | - | - | - | | |
| HCM Lane V/C Ratio | - | - | - | - | | |
| HCM Control Delay (s) | 0 | - | - | - | | |
| HCM Lane LOS | A | - | - | - | | |
| HCM 95th %tile Q(veh) | - | - | - | - | | |

HCM 6th TWSC
7. Sherman Rd. & Mapes Rd.

Mapes & Sherman (JN 14804)
10/26/2022

| Intersection | | Int Delay, s/veh | | | | | | | | | | | |
|--------------------------|------|------------------|------|------|------|------|------|------|------|------|------|------|-----|
| Movement | | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | 4 | 4 | 2 | 3 | 14 | 16 | 5 | 2 | 24 | 4 | 4 |
| Traffic Vol, veh/h | 15 | 106 | 45 | 12 | 251 | 2 | 3 | 14 | 16 | 5 | 2 | 24 | |
| Future Vol, veh/h | 15 | 106 | 45 | 12 | 251 | 2 | 3 | 14 | 16 | 5 | 2 | 24 | |
| Conflicting Peds, #/hr | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 1 | |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | |
| RT Channelized | - | - | None | - | None | - | None | - | None | - | None | - | |
| Storage Length | - | - | - | - | 0 | - | - | - | - | - | - | - | |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 1 | - | - | 1 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Mvmt Flow | 16 | 115 | 49 | 13 | 273 | 2 | 3 | 15 | 17 | 5 | 2 | 26 | |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 279 | 0 | 0 | 489 |
| Stage 1 | - | - | - | 479 |
| Stage 2 | - | - | - | 174 |
| Critical Hdwy | 4.1 | - | 4.1 | - |
| Critical Hdwy Sig 1 | - | - | - | 315 |
| Critical Hdwy Sig 2 | - | - | - | 7.1 |
| Follow-up Hdwy | 2.2 | - | 2.2 | - |
| Pot Cap-1 Maneuver | 1295 | - | 1424 | - |
| Stage 1 | - | - | - | 833 |
| Stage 2 | - | - | - | 700 |
| Platoon blocked, % | - | - | - | 666 |
| Mov Cap-1 Maneuver | 1290 | - | 1421 | - |
| Mov Cap-2 Maneuver | - | - | - | 464 |
| Stage 1 | - | - | - | 474 |
| Stage 2 | - | - | - | 906 |
| Approach | EB | WB | NB | SB |
| HCM Control Delay, s | 0.7 | 0.3 | 10.7 | 10.4 |
| HCM LOS | | B | B | |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBC | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 662 | 1290 | - | - | 1421 | - | - | 695 |
| HCM Lane V/C Ratio | 0.054 | 0.013 | - | - | 0.009 | - | - | 0.048 |
| HCM Control Delay (s) | 10.7 | 7.8 | 0 | - | 7.6 | 0 | - | 10.4 |
| HCM Lane LOS | B | A | A | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0.2 | 0 | - | - | 0 | - | - | 0.2 |

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|------|------|
| Int Delay, s/veh | 0.3 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | T | ↑ | ↑ | |
| Traffic Vol, veh/h | 0 | 2 | 2 | 33 | 57 | 2 |
| Future Vol, veh/h | 0 | 2 | 2 | 33 | 57 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | 50 | - | - | - |
| Veh in Median Storage, # | 1 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 2 | 2 | 36 | 62 | 2 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 103 | 63 | 64 | 0 | - | 0 |
| Stage 1 | 63 | - | - | - | - | - |
| Stage 2 | 40 | - | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 900 | 1007 | 1551 | - | - | - |
| Stage 1 | 965 | - | - | - | - | - |
| Stage 2 | 988 | - | - | - | - | - |
| Platoon blocked, % | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 899 | 1007 | 1551 | - | - | - |
| Mov Cap-2 Maneuver | 855 | - | - | - | - | - |
| Stage 1 | 964 | - | - | - | - | - |
| Stage 2 | 988 | - | - | - | - | - |
| Approach | EB | NB | | SB | | |
| HCM Control Delay, s | 8.6 | 0.4 | | 0 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
| Capacity (veh/h) | 1551 | - | 1007 | - | - | |
| HCM Lane V/C Ratio | 0.001 | - | 0.002 | - | - | |
| HCM Control Delay (s) | 7.3 | - | 8.6 | - | - | |
| HCM Lane LOS | A | - | A | - | - | |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|------|------|
| Int Delay, s/veh | 0.3 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | T | ↑ | ↑ | |
| Traffic Vol, veh/h | 0 | 2 | 2 | 35 | 53 | 6 |
| Future Vol, veh/h | 0 | 2 | 2 | 35 | 53 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | 50 | - | - | - |
| Veh in Median Storage, # | 1 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 2 | 2 | 38 | 58 | 7 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 104 | 62 | 65 | 0 | - | 0 |
| Stage 1 | 62 | - | - | - | - | - |
| Stage 2 | 42 | - | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 899 | 1009 | 1550 | - | - | - |
| Stage 1 | 966 | - | - | - | - | - |
| Stage 2 | 986 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 898 | 1009 | 1550 | - | - | - |
| Mov Cap-2 Maneuver | 854 | - | - | - | - | - |
| Stage 1 | 965 | - | - | - | - | - |
| Stage 2 | 986 | - | - | - | - | - |
| Approach | EB | NB | SB | | | |
| HCM Control Delay, s | 8.6 | 0.4 | 0 | | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
| Capacity (veh/h) | 1550 | - | 1009 | - | - | |
| HCM Lane V/C Ratio | 0.001 | - | 0.002 | - | - | |
| HCM Control Delay (s) | 7.3 | - | 8.6 | - | - | |
| HCM Lane LOS | A | - | A | - | - | |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|------|------|
| Int Delay, s/veh | 1 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | ↑↑ | ↑↑ | | ↑ | |
| Traffic Vol, veh/h | 0 | 554 | 640 | 14 | 0 | 107 |
| Future Vol, veh/h | 0 | 554 | 640 | 14 | 0 | 107 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 589 | 681 | 15 | 0 | 114 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | - | 0 | - | 0 | - | 348 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.3 |
| Pot Cap-1 Maneuver | 0 | - | - | - | 0 | 654 |
| Stage 1 | 0 | - | - | - | 0 | - |
| Stage 2 | 0 | - | - | - | 0 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | - | 654 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0 | 0 | 11.7 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBT | WBT | WBR | SBLn1 | | |
| Capacity (veh/h) | - | - | - | 654 | | |
| HCM Lane V/C Ratio | - | - | - | 0.174 | | |
| HCM Control Delay (s) | - | - | - | 11.7 | | |
| HCM Lane LOS | - | - | - | B | | |
| HCM 95th %tile Q(veh) | - | - | - | 0.6 | | |



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------|-------|------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 19 | 169 | 227 | 300 | 733 | 47 |
| Future Volume (vph) | 19 | 169 | 227 | 300 | 733 | 47 |
| Turn Type | Prot | Free | Prot | NA | NA | Perm |
| Protected Phases | 8 | | 1 | 6 | 2 | |
| Permitted Phases | | Free | | | | 2 |
| Detector Phase | 8 | | 1 | 6 | 2 | 2 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 22.6 | | 10.0 | 24.2 | 24.2 | 24.2 |
| Total Split (s) | 22.6 | | 19.0 | 67.4 | 48.4 | 48.4 |
| Total Split (%) | 25.1% | | 21.1% | 74.9% | 53.8% | 53.8% |
| Yellow Time (s) | 5.0 | | 4.0 | 5.0 | 5.0 | 5.0 |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.0 | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | Lead | | Lag | Lag | |
| Lead-Lag Optimize? | | Yes | | Yes | Yes | |
| Recall Mode | None | | None | None | None | None |
| Act Effect Green (s) | 5.9 | 59.5 | 13.4 | 33.4 | 30.4 | 30.4 |
| Actuated g/C Ratio | 0.10 | 1.00 | 0.23 | 0.56 | 0.51 | 0.51 |
| v/c Ratio | 0.11 | 0.11 | 0.60 | 0.30 | 0.81 | 0.06 |
| Control Delay | 33.6 | 0.1 | 33.4 | 6.6 | 21.0 | 5.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 33.6 | 0.1 | 33.4 | 6.6 | 21.0 | 5.8 |
| LOS | C | A | C | A | C | A |
| Approach Delay | 3.5 | | | 18.1 | 20.0 | |
| Approach LOS | A | | | B | C | |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 59.5

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.81

Intersection Signal Delay: 17.3

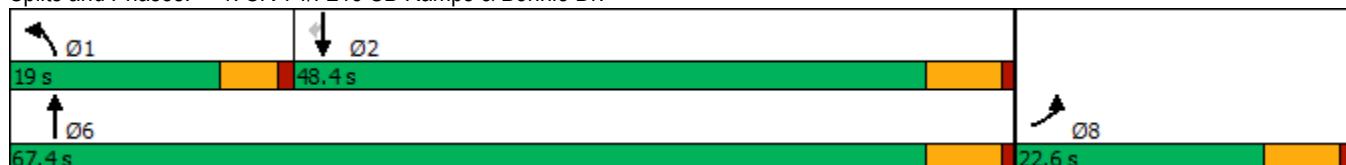
Intersection LOS: B

Intersection Capacity Utilization 69.5%

ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 1: SR-74/I-215 SB Ramps & Bonnie Dr.



HCM 6th Signalized Intersection Summary
1: SR-74/I-215 SB Ramps & Bonnie Dr.

Mapes & Sherman (JN 14804)
08/19/2022



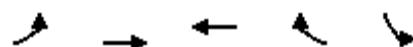
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 19 | 169 | 227 | 300 | 733 | 47 |
| Future Volume (veh/h) | 19 | 169 | 227 | 300 | 733 | 47 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | No | | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 20 | 0 | 244 | 323 | 788 | 0 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 44 | | 302 | 1405 | 901 | |
| Arrive On Green | 0.02 | 0.00 | 0.17 | 0.74 | 0.47 | 0.00 |
| Sat Flow, veh/h | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Grp Volume(v), veh/h | 20 | 0 | 244 | 323 | 788 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Q Serve(g_s), s | 0.6 | 0.0 | 6.6 | 2.7 | 18.9 | 0.0 |
| Cycle Q Clear(g_c), s | 0.6 | 0.0 | 6.6 | 2.7 | 18.9 | 0.0 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | 1.00 | |
| Lane Grp Cap(c), veh/h | 44 | | 302 | 1405 | 901 | |
| V/C Ratio(X) | 0.46 | | 0.81 | 0.23 | 0.87 | |
| Avail Cap(c_a), veh/h | 591 | | 499 | 2297 | 1586 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 24.5 | 0.0 | 20.4 | 2.1 | 12.0 | 0.0 |
| Incr Delay (d2), s/veh | 2.7 | 0.0 | 2.0 | 0.0 | 1.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.2 | 0.0 | 2.4 | 0.0 | 5.5 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 27.2 | 0.0 | 22.3 | 2.1 | 13.1 | 0.0 |
| LnGrp LOS | C | | C | A | B | |
| Approach Vol, veh/h | 20 | | | 567 | 788 | |
| Approach Delay, s/veh | 27.2 | | | 10.8 | 13.1 | |
| Approach LOS | C | | | B | B | |
| Timer - Assigned Phs | 1 | 2 | | 6 | 8 | |
| Phs Duration (G+Y+R _c), s | 13.5 | 30.1 | | 43.6 | 7.2 | |
| Change Period (Y+R _c), s | 5.0 | 6.0 | | 6.0 | 6.0 | |
| Max Green Setting (Gmax), s | 14.0 | 42.4 | | 61.4 | 16.6 | |
| Max Q Clear Time (g_c+l1), s | 8.6 | 20.9 | | 4.7 | 2.6 | |
| Green Ext Time (p_c), s | 0.2 | 3.2 | | 1.0 | 0.0 | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 12.4 |
| HCM 6th LOS | B |

Notes

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



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|----------------------|-------|-------|-------|------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ |
| Traffic Volume (vph) | 13 | 889 | 490 | 582 | 210 |
| Future Volume (vph) | 13 | 889 | 490 | 582 | 210 |
| Turn Type | Prot | NA | NA | Free | Prot |
| Protected Phases | 5 | 2 | 6 | | 4 |
| Permitted Phases | | | | Free | |
| Detector Phase | 5 | 2 | 6 | | 4 |
| Switch Phase | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | | 5.0 |
| Minimum Split (s) | 10.3 | 22.5 | 22.5 | | 22.5 |
| Total Split (s) | 13.0 | 54.0 | 41.0 | | 36.0 |
| Total Split (%) | 14.4% | 60.0% | 45.6% | | 40.0% |
| Yellow Time (s) | 4.3 | 4.3 | 4.3 | | 4.3 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Lost Time (s) | 5.3 | 5.3 | 5.3 | | 5.3 |
| Lead/Lag | Lead | | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | | |
| Recall Mode | None | None | None | | None |
| Act Effect Green (s) | 5.5 | 16.9 | 15.3 | 39.0 | 10.9 |
| Actuated g/C Ratio | 0.14 | 0.43 | 0.39 | 1.00 | 0.28 |
| v/c Ratio | 0.06 | 0.62 | 0.38 | 0.40 | 0.54 |
| Control Delay | 19.9 | 10.6 | 10.8 | 0.7 | 17.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 19.9 | 10.6 | 10.8 | 0.7 | 17.0 |
| LOS | B | B | B | A | B |
| Approach Delay | | 10.8 | 5.3 | | 17.0 |
| Approach LOS | | B | A | | B |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 39

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.62

Intersection Signal Delay: 8.8

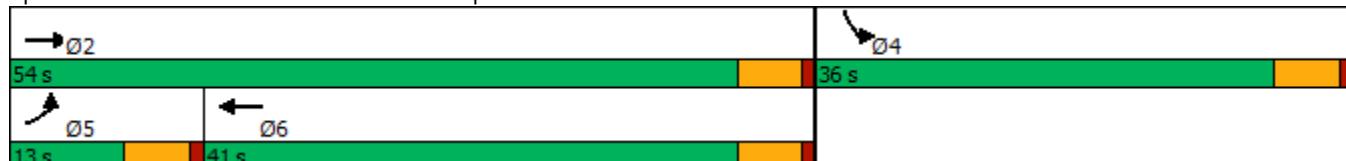
Intersection LOS: A

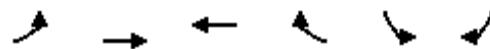
Intersection Capacity Utilization 47.3%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 2: SR-74 & I-215 NB Ramps





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ | |
| Traffic Volume (veh/h) | 13 | 889 | 490 | 582 | 210 | 37 |
| Future Volume (veh/h) | 13 | 889 | 490 | 582 | 210 | 37 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 14 | 977 | 538 | 0 | 231 | 28 |
| Peak Hour Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 33 | 1644 | 942 | | 305 | 37 |
| Arrive On Green | 0.02 | 0.46 | 0.26 | 0.00 | 0.19 | 0.19 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1587 | 192 |
| Grp Volume(v), veh/h | 14 | 977 | 538 | 0 | 260 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1786 | 0 |
| Q Serve(g_s), s | 0.2 | 6.1 | 3.9 | 0.0 | 4.1 | 0.0 |
| Cycle Q Clear(g_c), s | 0.2 | 6.1 | 3.9 | 0.0 | 4.1 | 0.0 |
| Prop In Lane | 1.00 | | | 1.00 | 0.89 | 0.11 |
| Lane Grp Cap(c), veh/h | 33 | 1644 | 942 | | 343 | 0 |
| V/C Ratio(X) | 0.42 | 0.59 | 0.57 | | 0.76 | 0.00 |
| Avail Cap(c_a), veh/h | 463 | 5845 | 4285 | | 1823 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 14.6 | 6.1 | 9.7 | 0.0 | 11.5 | 0.0 |
| Incr Delay (d2), s/veh | 3.1 | 0.1 | 0.2 | 0.0 | 1.3 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.1 | 0.5 | 0.8 | 0.0 | 1.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 17.7 | 6.2 | 9.9 | 0.0 | 12.8 | 0.0 |
| LnGrp LOS | B | A | A | | B | A |
| Approach Vol, veh/h | 991 | 538 | | 260 | | |
| Approach Delay, s/veh | 6.4 | 9.9 | | 12.8 | | |
| Approach LOS | A | A | | B | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 19.0 | | 11.1 | 5.9 | 13.1 | |
| Change Period (Y+R _c), s | 5.3 | | 5.3 | 5.3 | 5.3 | |
| Max Green Setting (Gmax), s | 48.7 | | 30.7 | 7.7 | 35.7 | |
| Max Q Clear Time (g_c+l1), s | 8.1 | | 6.1 | 2.2 | 5.9 | |
| Green Ext Time (p_c), s | 4.3 | | 0.4 | 0.0 | 2.0 | |

Intersection Summary

| | |
|--------------------|-----|
| HCM 6th Ctrl Delay | 8.4 |
| HCM 6th LOS | A |

Notes

User approved volume balancing among the lanes for turning movement.

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

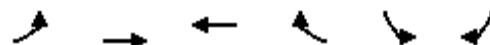
Intersection

Intersection Delay, s/veh 11.4

Intersection LOS B

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↔↔ | ↑↑ | ↔↔ | ↔ | ↑ | 10 | 10 | ↑↑ | 226 | 52 | 187 | 2 |
| Traffic Vol, veh/h | 0 | 6 | 6 | 187 | 1 | 10 | 10 | 81 | 226 | 52 | 187 | 2 |
| Future Vol, veh/h | 0 | 6 | 6 | 187 | 1 | 10 | 10 | 81 | 226 | 52 | 187 | 2 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 7 | 7 | 225 | 1 | 12 | 12 | 98 | 272 | 63 | 225 | 2 |
| Number of Lanes | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 2 | 0 |
| Approach | EB | | WB | | NB | | SB | | | | | |
| Opposing Approach | WB | | EB | | SB | | NB | | | | | |
| Opposing Lanes | 3 | | 2 | | 3 | | 3 | | | | | |
| Conflicting Approach Left | SB | | NB | | EB | | WB | | | | | |
| Conflicting Lanes Left | 3 | | 3 | | 2 | | 3 | | | | | |
| Conflicting Approach Right | NB | | SB | | WB | | EB | | | | | |
| Conflicting Lanes Right | 3 | | 3 | | 3 | | 2 | | | | | |
| HCM Control Delay | 9.5 | | 11.4 | | 12.2 | | 10.6 | | | | | |
| HCM LOS | A | | B | | B | | B | | | | | |

| Lane | NBLn1 | NBLn2 | NBLn3 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | WBLn3 | SBLn1 | SBLn2 | SBLn3 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 11% | 100% | 25% | 0% | 0% | 9% | 0% | 100% | 97% |
| Vol Right, % | 0% | 0% | 89% | 0% | 75% | 0% | 0% | 91% | 0% | 0% | 3% |
| Sign Control | Stop |
| Traffic Vol by Lane | 10 | 54 | 253 | 4 | 8 | 94 | 94 | 11 | 52 | 125 | 64 |
| LT Vol | 10 | 0 | 0 | 0 | 0 | 94 | 94 | 0 | 52 | 0 | 0 |
| Through Vol | 0 | 54 | 27 | 4 | 2 | 0 | 0 | 1 | 0 | 125 | 62 |
| RT Vol | 0 | 0 | 226 | 0 | 6 | 0 | 0 | 10 | 0 | 0 | 2 |
| Lane Flow Rate | 12 | 65 | 305 | 5 | 10 | 113 | 113 | 13 | 63 | 150 | 78 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.022 | 0.11 | 0.462 | 0.009 | 0.017 | 0.216 | 0.216 | 0.021 | 0.117 | 0.259 | 0.133 |
| Departure Headway (Hd) | 6.589 | 6.086 | 5.457 | 6.959 | 6.434 | 6.913 | 6.913 | 5.777 | 6.721 | 6.218 | 6.196 |
| Convergence, Y/N | Yes |
| Cap | 544 | 589 | 661 | 513 | 555 | 519 | 519 | 619 | 534 | 578 | 579 |
| Service Time | 4.323 | 3.82 | 3.191 | 4.714 | 4.189 | 4.655 | 4.655 | 3.519 | 4.459 | 3.956 | 3.934 |
| HCM Lane V/C Ratio | 0.022 | 0.11 | 0.461 | 0.01 | 0.018 | 0.218 | 0.218 | 0.021 | 0.118 | 0.26 | 0.135 |
| HCM Control Delay | 9.5 | 9.6 | 12.8 | 9.8 | 9.3 | 11.6 | 11.6 | 8.6 | 10.4 | 11.1 | 9.9 |
| HCM Lane LOS | A | A | B | A | A | B | B | A | B | B | A |
| HCM 95th-tile Q | 0.1 | 0.4 | 2.4 | 0 | 0.1 | 0.8 | 0.8 | 0.1 | 0.4 | 1 | 0.5 |



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 304 | 793 | 686 | 41 | 44 | 386 |
| Future Volume (vph) | 304 | 793 | 686 | 41 | 44 | 386 |
| Turn Type | Prot | NA | NA | Perm | Prot | Perm |
| Protected Phases | 5 | 2 | 6 | | 4 | |
| Permitted Phases | | | | 6 | | 4 |
| Detector Phase | 5 | 2 | 6 | 6 | 4 | 4 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.0 | 11.0 | 41.6 | 41.6 | 30.5 | 30.5 |
| Total Split (s) | 39.0 | 86.0 | 47.0 | 47.0 | 34.0 | 34.0 |
| Total Split (%) | 32.5% | 71.7% | 39.2% | 39.2% | 28.3% | 28.3% |
| Yellow Time (s) | 3.0 | 5.0 | 5.0 | 5.0 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 |
| Lead/Lag | Lead | | Lag | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | Yes | | |
| Recall Mode | None | None | None | None | None | None |
| Act Effect Green (s) | 17.6 | 43.1 | 21.1 | 21.1 | 9.1 | 9.1 |
| Actuated g/C Ratio | 0.28 | 0.67 | 0.33 | 0.33 | 0.14 | 0.14 |
| v/c Ratio | 0.66 | 0.35 | 0.62 | 0.08 | 0.18 | 0.71 |
| Control Delay | 29.9 | 5.2 | 22.1 | 7.4 | 29.2 | 10.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 29.9 | 5.2 | 22.1 | 7.4 | 29.2 | 10.9 |
| LOS | C | A | C | A | C | B |
| Approach Delay | | 12.1 | 21.3 | | 12.7 | |
| Approach LOS | | B | C | | B | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 63.9

Natural Cycle: 85

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.71

Intersection Signal Delay: 15.2

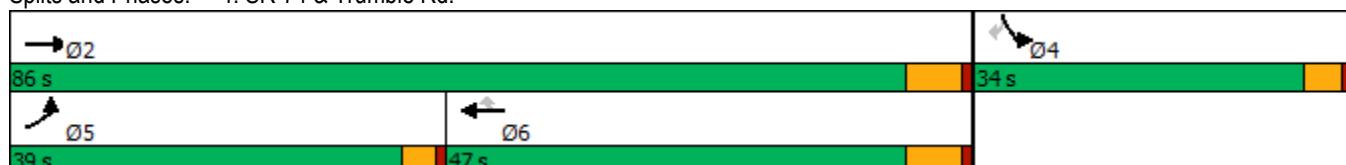
Intersection LOS: B

Intersection Capacity Utilization 52.1%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 4: SR-74 & Trumble Rd.



HCM 6th Signalized Intersection Summary
4: SR-74 & Trumble Rd.

Mapes & Sherman (JN 14804)
08/19/2022



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 304 | 793 | 686 | 41 | 44 | 386 |
| Future Volume (veh/h) | 304 | 793 | 686 | 41 | 44 | 386 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 327 | 853 | 738 | 38 | 47 | 225 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 395 | 2214 | 1138 | 508 | 321 | 285 |
| Arrive On Green | 0.22 | 0.61 | 0.32 | 0.32 | 0.18 | 0.18 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1810 | 1610 |
| Grp Volume(v), veh/h | 327 | 853 | 738 | 38 | 47 | 225 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1810 | 1610 |
| Q Serve(g_s), s | 8.6 | 6.0 | 8.8 | 0.8 | 1.1 | 6.7 |
| Cycle Q Clear(g_c), s | 8.6 | 6.0 | 8.8 | 0.8 | 1.1 | 6.7 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 395 | 2214 | 1138 | 508 | 321 | 285 |
| V/C Ratio(X) | 0.83 | 0.39 | 0.65 | 0.07 | 0.15 | 0.79 |
| Avail Cap(c_a), veh/h | 1264 | 5762 | 2953 | 1317 | 1065 | 948 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 18.7 | 4.9 | 14.8 | 12.0 | 17.4 | 19.7 |
| Incr Delay (d2), s/veh | 1.7 | 0.1 | 0.6 | 0.1 | 0.1 | 1.8 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 3.0 | 0.9 | 2.8 | 0.2 | 0.4 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 20.4 | 5.0 | 15.4 | 12.1 | 17.5 | 21.6 |
| LnGrp LOS | C | A | B | B | B | C |
| Approach Vol, veh/h | 1180 | 776 | | 272 | | |
| Approach Delay, s/veh | 9.3 | 15.2 | | 20.9 | | |
| Approach LOS | A | B | | C | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 36.7 | | 13.4 | 14.9 | 21.8 | |
| Change Period (Y+R _c), s | 6.0 | | 4.5 | 4.0 | 6.0 | |
| Max Green Setting (Gmax), s | 80.0 | | 29.5 | 35.0 | 41.0 | |
| Max Q Clear Time (g_c+l1), s | 8.0 | | 8.7 | 10.6 | 10.8 | |
| Green Ext Time (p_c), s | 6.2 | | 0.4 | 0.4 | 5.0 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 12.8 | | | |
| HCM 6th LOS | | | B | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | | ↑ | ↑↑ | Y | |
| Traffic Vol, veh/h | 277 | 6 | 0 | 177 | 21 | 0 |
| Future Vol, veh/h | 277 | 6 | 0 | 177 | 21 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 1 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 301 | 7 | 0 | 192 | 23 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 308 | 0 | 401 | 154 |
| Stage 1 | - | - | - | - | 305 | - |
| Stage 2 | - | - | - | - | 96 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 1264 | - | 582 | 871 |
| Stage 1 | - | - | - | - | 727 | - |
| Stage 2 | - | - | - | - | 923 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1264 | - | 582 | 871 |
| Mov Cap-2 Maneuver | - | - | - | - | 624 | - |
| Stage 1 | - | - | - | - | 727 | - |
| Stage 2 | - | - | - | - | 923 | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0 | 11 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT | |
| Capacity (veh/h) | 624 | - | - | 1264 | - | |
| HCM Lane V/C Ratio | 0.037 | - | - | - | - | |
| HCM Control Delay (s) | 11 | - | - | 0 | - | |
| HCM Lane LOS | B | - | - | A | - | |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0 | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|------|------|
| Int Delay, s/veh | 0 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | | | ↑↑ | | ↗ |
| Traffic Vol, veh/h | 274 | 3 | 0 | 177 | 0 | 0 |
| Future Vol, veh/h | 274 | 3 | 0 | 177 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 298 | 3 | 0 | 192 | 0 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | - | - | - | 151 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.3 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 875 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | - | 875 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0 | 0 | | | |
| HCM LOS | | | A | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT | | |
| Capacity (veh/h) | - | - | - | - | | |
| HCM Lane V/C Ratio | - | - | - | - | | |
| HCM Control Delay (s) | 0 | - | - | - | | |
| HCM Lane LOS | A | - | - | - | | |
| HCM 95th %tile Q(veh) | - | - | - | - | | |

HCM 6th TWSC
7. Sherman Rd. & Mapes Rd.

Mapes & Sherman (JN 14804)
08/19/2022

Intersection
Int Delay, s/veh

2.1

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | 4 | 4 | 4 | 4 | 9 | 6 | 20 | 2 | 7 | 7 | 27 | 4 |
| Traffic Vol, veh/h | 26 | 222 | 26 | 11 | 141 | 4 | 9 | 6 | 20 | 2 | 7 | 27 |
| Future Vol, veh/h | 26 | 222 | 26 | 11 | 141 | 4 | 9 | 6 | 20 | 2 | 7 | 27 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - |
| Storage Length | - | - | - | - | 0 | - | - | 1 | - | - | 1 | - |
| Veh in Median Storage, # | - | 0 | - | 0 | - | 0 | 0 | 0 | - | 0 | 0 | - |
| Grade, % | - | 0 | - | 0 | - | 0 | 0 | 0 | - | 0 | 0 | - |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 30 | 258 | 30 | 13 | 164 | 5 | 10 | 7 | 23 | 2 | 8 | 31 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 169 | 0 | 0 | 288 |
| Stage 1 | - | - | - | 0 |
| Stage 2 | - | - | - | 0 |
| Critical Hdwy | 4.1 | - | 4.1 | - |
| Critical Hdwy Sig 1 | - | - | - | - |
| Critical Hdwy Sig 2 | - | - | - | - |
| Follow-up Hdwy | 2.2 | - | 2.2 | - |
| Pot Cap-1 Maneuver | 1421 | - | 1286 | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 1421 | - | 1286 | - |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Approach | EB | WB | NB | SB |
| HCM Control Delay, s | 0.7 | 0.6 | 11.1 | 10.1 |
| HCM LOS | | B | B | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBC | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|------|-----|-----|-------|
| Capacity (veh/h) | 627 | 1421 | - | - | 1286 | - | - | 742 |
| HCM Lane V/C Ratio | 0.065 | 0.021 | - | - | 0.01 | - | - | 0.056 |
| HCM Control Delay (s) | 11.1 | 7.6 | 0 | - | 7.8 | 0 | - | 10.1 |
| HCM Lane LOS | B | A | - | A | A | - | B | |
| HCM 95th %tile Q(veh) | 0.2 | 0.1 | - | 0 | - | 0 | - | 0.2 |

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|------|------|
| Int Delay, s/veh | 0.8 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | T | ↑ | ↑ | |
| Traffic Vol, veh/h | 0 | 7 | 1 | 35 | 43 | 1 |
| Future Vol, veh/h | 0 | 7 | 1 | 35 | 43 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | 50 | - | - | - |
| Veh in Median Storage, # | 1 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 8 | 1 | 38 | 47 | 1 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 88 | 48 | 48 | 0 | - | 0 |
| Stage 1 | 48 | - | - | - | - | - |
| Stage 2 | 40 | - | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 918 | 1027 | 1572 | - | - | - |
| Stage 1 | 980 | - | - | - | - | - |
| Stage 2 | 988 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 917 | 1027 | 1572 | - | - | - |
| Mov Cap-2 Maneuver | 867 | - | - | - | - | - |
| Stage 1 | 979 | - | - | - | - | - |
| Stage 2 | 988 | - | - | - | - | - |
| Approach | EB | NB | SB | | | |
| HCM Control Delay, s | 8.5 | 0.2 | 0 | | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
| Capacity (veh/h) | 1572 | - | 1027 | - | - | |
| HCM Lane V/C Ratio | 0.001 | - | 0.007 | - | - | |
| HCM Control Delay (s) | 7.3 | - | 8.5 | - | - | |
| HCM Lane LOS | A | - | A | - | - | |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|------|------|
| Int Delay, s/veh | 1.1 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | T | ↑ | ↑ | |
| Traffic Vol, veh/h | 2 | 9 | 1 | 34 | 47 | 3 |
| Future Vol, veh/h | 2 | 9 | 1 | 34 | 47 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | 50 | - | - | - |
| Veh in Median Storage, # | 1 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 2 | 10 | 1 | 37 | 51 | 3 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 92 | 53 | 54 | 0 | - | 0 |
| Stage 1 | 53 | - | - | - | - | - |
| Stage 2 | 39 | - | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 913 | 1020 | 1564 | - | - | - |
| Stage 1 | 975 | - | - | - | - | - |
| Stage 2 | 989 | - | - | - | - | - |
| Platoon blocked, % | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 912 | 1020 | 1564 | - | - | - |
| Mov Cap-2 Maneuver | 864 | - | - | - | - | - |
| Stage 1 | 974 | - | - | - | - | - |
| Stage 2 | 989 | - | - | - | - | - |
| Approach | EB | NB | SB | | | |
| HCM Control Delay, s | 8.7 | 0.2 | 0 | | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
| Capacity (veh/h) | 1564 | - | 988 | - | - | |
| HCM Lane V/C Ratio | 0.001 | - | 0.012 | - | - | |
| HCM Control Delay (s) | 7.3 | - | 8.7 | - | - | |
| HCM Lane LOS | A | - | A | - | - | |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | ↑↑ | ↑↑ | | ↗ | |
| Traffic Vol, veh/h | 0 | 829 | 564 | 18 | 0 | 90 |
| Future Vol, veh/h | 0 | 829 | 564 | 18 | 0 | 90 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 882 | 600 | 19 | 0 | 96 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | - | 0 | - | 0 | - | 310 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.3 |
| Pot Cap-1 Maneuver | 0 | - | - | - | 0 | 692 |
| Stage 1 | 0 | - | - | - | 0 | - |
| Stage 2 | 0 | - | - | - | 0 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | - | 692 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0 | 0 | 11 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBT | WBT | WBR | SBLn1 | | |
| Capacity (veh/h) | - | - | - | 692 | | |
| HCM Lane V/C Ratio | - | - | - | 0.138 | | |
| HCM Control Delay (s) | - | - | - | 11 | | |
| HCM Lane LOS | - | - | - | B | | |
| HCM 95th %tile Q(veh) | - | - | - | 0.5 | | |

**APPENDIX 5.2: E+P CONDITIONS TRAFFIC SIGNAL WARRANT
ANALYSIS WORKSHEETS**

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **E+P Conditions - Weekday AM Peak Hour**

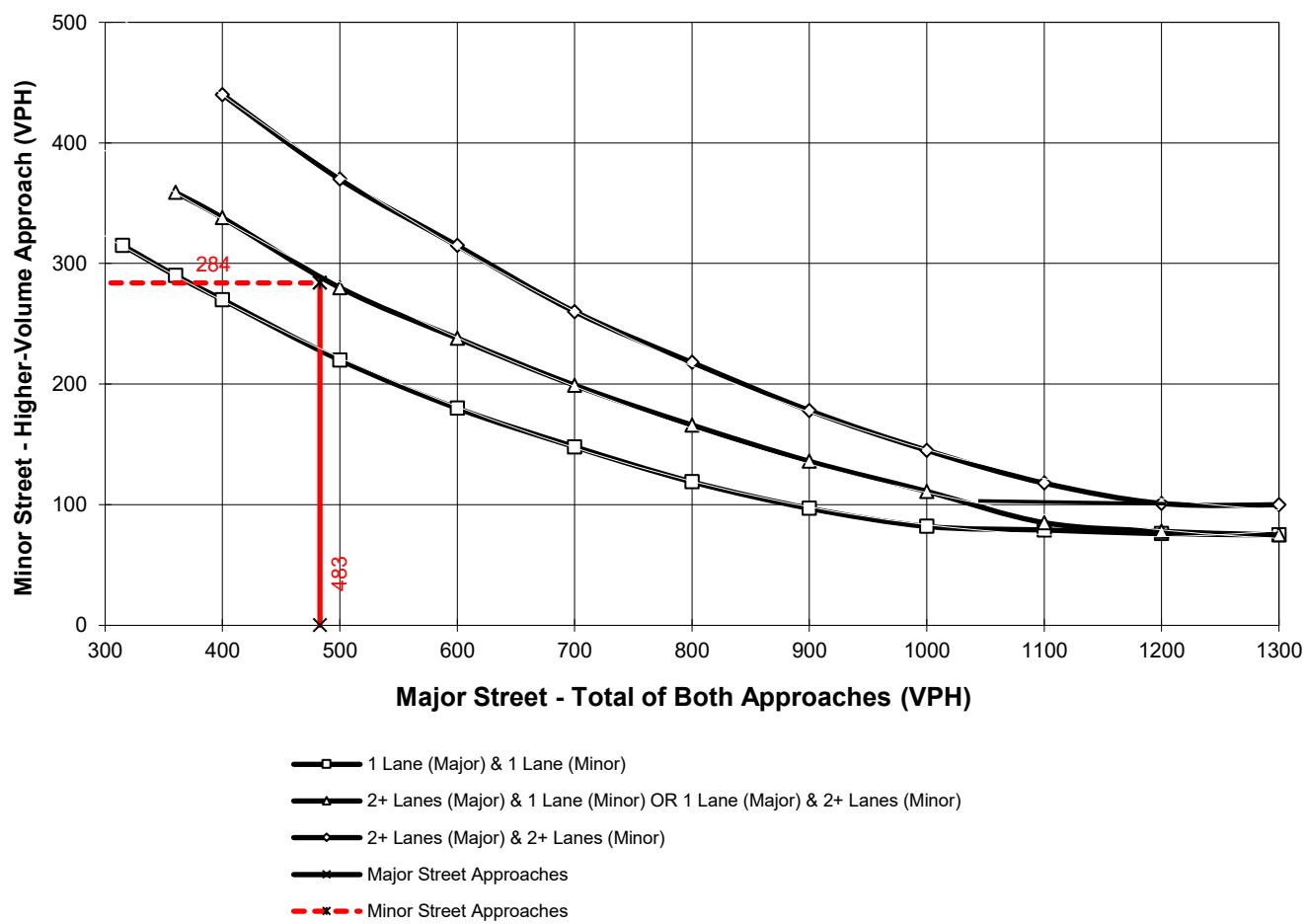
Major Street Name = **Trumble Rd.**

Total of Both Approaches (VPH) = **483**
Number of Approach Lanes Major Street = **2**

Minor Street Name = **Mapes Rd.**

High Volume Approach (VPH) = **284**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

**Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)**

| | | | | | | |
|---|----|-----|----|--|---|-----|
| DIST | CO | RTE | PM | CALC | TRAFFIC CONDITIONS | E+P |
| Jurisdiction: <u>City of Menifee</u> | | | | CALC <u>CS</u> | DATE <u>04/21/23</u> | |
| Major Street: <u>Mapes Rd.</u> | | | | CHK <u>CS</u> | DATE <u>04/21/23</u> | |
| Minor Street: <u>Driveway 1</u> | | | | | Critical Approach Speed (Major) <u>45 mph</u> | |
| | | | | | Critical Approach Speed (Minor) <u>25 mph</u> | |
| Major Street Approach Lanes = <u>1</u> lane | | | | Minor Street Approach Lanes <u>1</u> lane | | |
| Major Street Future ADT = <u>5,491</u> vpd | | | | Minor Street Future ADT = <u>136</u> vpd | | |
| Speed limit or critical speed on major street traffic > 64 km/h (40 mph); | | | | <input type="checkbox"/> or RURAL (R) | | |
| In built up area of isolated community of < 10,000 population | | | | <input type="checkbox"/> | | |

(Based on Estimated Average Daily Traffic - See Note)

| <u>URBAN</u> | <u>RURAL</u> XX | Minimum Requirements | | | |
|--|-----------------------------------|------------------------|---------------------|---|--|
| | | EADT | | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) | |
| CONDITION A - Minimum Vehicular Volume | | | | | |
| <u>Satisfied</u> | <u>Not Satisfied</u> XX | | | | |
| Number of lanes for moving traffic on each approach | | | | | |
| Major Street | Minor Street | | | | |
| <u>1 5,491</u> | <u>1 136</u> | | | | |
| 2 + | 1 | | | | |
| 2 + | 2 + | | | | |
| 1 | 2 + | | | | |
| CONDITION B - Interruption of Continuous Traffic | | | | | |
| <u>Satisfied</u> | <u>Not Satisfied</u> XX | | | | |
| Number of lanes for moving traffic on each approach | | | | | |
| Major Street | Minor Street | | | | |
| <u>1 5,491</u> | <u>1 136</u> | | | | |
| 2 + | 1 | | | | |
| 2 + | 2 + | | | | |
| 1 | 2 + | | | | |
| Combination of CONDITIONS A + B | | | | | |
| <u>Satisfied</u> | <u>Not Satisfied</u> XX | | | | |
| No one condition satisfied, but following conditions fulfilled 80% or more | <u>A</u> 8% | <u>B</u> 16% | 2 CONDITIONS 80% | 2 CONDITIONS 80% | |

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **E+P Conditions - Weekday PM Peak Hour**

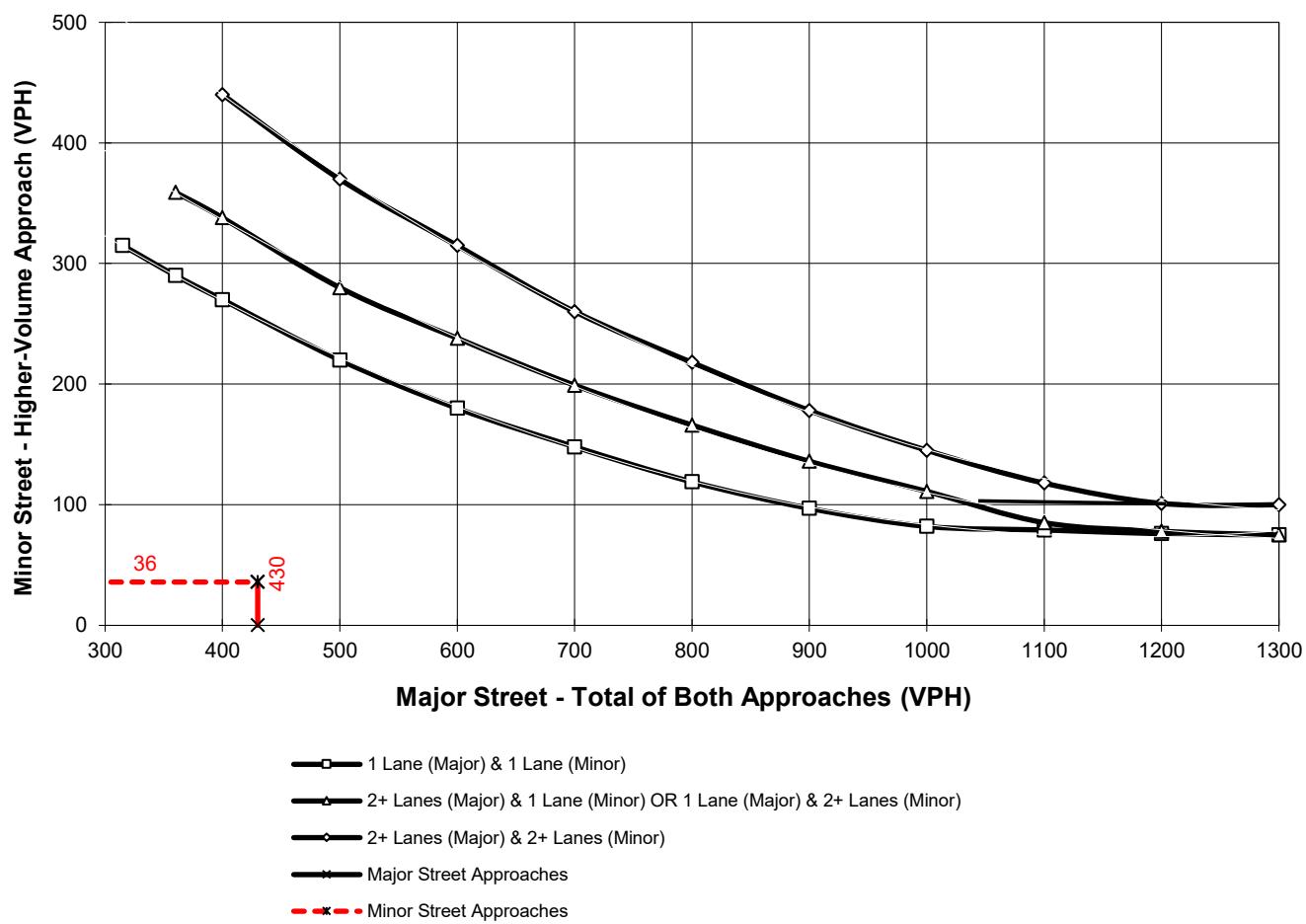
Major Street Name = **Mapes Rd.**

Total of Both Approaches (VPH) = **430**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Sherman Rd.**

High Volume Approach (VPH) = **36**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

**Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)**

| | | | | | | |
|---|----|-----|----|--|---|-----|
| DIST | CO | RTE | PM | CALC | TRAFFIC CONDITIONS | E+P |
| Jurisdiction: City of Menifee | | | | CALC CS | DATE 08/22/22 | |
| Major Street: Sherman Rd. | | | | CHK CS | DATE 08/22/22 | |
| Minor Street: Driveway 3 | | | | | Critical Approach Speed (Major) 40 mph | |
| | | | | | Critical Approach Speed (Minor) 25 mph | |
| Major Street Approach Lanes = 1 lane | | | | Minor Street Approach Lanes 1 lane | | |
| Major Street Future ADT = 992 vpd | | | | Minor Street Future ADT = 55 vpd | | |
| Speed limit or critical speed on major street traffic > 64 km/h (40 mph); | | | | <input type="checkbox"/> or RURAL (R) | | |
| In built up area of isolated community of < 10,000 population | | | | <input type="checkbox"/> | | |

(Based on Estimated Average Daily Traffic - See Note)

| <u>URBAN</u> XX | <u>RURAL</u> XX | Minimum Requirements | | | |
|--|---------------------------|---|---|---|-------|
| | | EADT | | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) | |
| CONDITION A - Minimum Vehicular Volume | Not Satisfied | Vehicles Per Day on Major Street (Total of Both Approaches) | Vehicles Per Day on Major Street (Total of Both Approaches) | Urban | Rural |
| <u>Satisfied</u> | XX | Urban | Rural | Urban | Rural |
| Number of lanes for moving traffic on each approach | | 8,000 | 5,600 | 2,400 | 1,680 |
| Major Street | Minor Street | 9,600 | 6,720 | 2,400 | 1,680 |
| 1 992 | 1 55 | 9,600 | 6,720 | 3,200 | 2,240 |
| 2 + | 1 | 8,000 | 5,600 | 3,200 | 2,240 |
| 2 + | 2 + | | | | |
| 1 | 2 + | | | | |
| CONDITION B - Interruption of Continuous Traffic | Not Satisfied | Vehicles Per Day on Major Street (Total of Both Approaches) | Vehicles Per Day on Major Street (Total of Both Approaches) | Urban | Rural |
| <u>Satisfied</u> | XX | Urban | Rural | Urban | Rural |
| Number of lanes for moving traffic on each approach | | 12,000 | 8,400 | 1,200 | 850 |
| Major Street | Minor Street | 14,400 | 10,080 | 1,200 | 850 |
| 1 992 | 1 55 | 14,400 | 10,080 | 1,600 | 1,120 |
| 2 + | 1 | 12,000 | 8,400 | 1,600 | 1,120 |
| 2 + | 2 + | | | | |
| 1 | 2 + | | | | |
| Combination of CONDITIONS A + B | Not Satisfied | 2 CONDITIONS 80% | 2 CONDITIONS 80% | | |
| <u>Satisfied</u> | XX | | | | |
| No one condition satisfied, but following conditions fulfilled 80% or more | A 2% | B 5% | | | |

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

**Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)**

| | | | | | | |
|---|----|-----|----|--|---|-----|
| DIST | CO | RTE | PM | CALC | TRAFFIC CONDITIONS | E+P |
| Jurisdiction: City of Menifee | | | | CALC CS | DATE 08/22/22 | |
| Major Street: Sherman Rd. | | | | CHK CS | DATE 08/22/22 | |
| Minor Street: Driveway 4 | | | | | Critical Approach Speed (Major) 40 mph | |
| | | | | | Critical Approach Speed (Minor) 25 mph | |
| Major Street Approach Lanes = 1 lane | | | | Minor Street Approach Lanes 1 lane | | |
| Major Street Future ADT = 1,038 vpd | | | | Minor Street Future ADT = 81 vpd | | |
| Speed limit or critical speed on major street traffic > 64 km/h (40 mph); | | | | <input type="checkbox"/> or RURAL (R) | | |
| In built up area of isolated community of < 10,000 population | | | | <input type="checkbox"/> | | |

(Based on Estimated Average Daily Traffic - See Note)

| <u>URBAN</u> XX | <u>RURAL</u> XX | Minimum Requirements | | | |
|---|--|---|---|---|---|
| | | EADT | | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) | |
| CONDITION A - Minimum Vehicular Volume <u>Satisfied</u> | CONDITION A - Minimum Vehicular Volume <u>Not Satisfied</u> | Vehicles Per Day on Major Street (Total of Both Approaches) | Vehicles Per Day on Major Street (Total of Both Approaches) | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) |
| Number of lanes for moving traffic on each approach Major Street 1 1,038 | Number of lanes for moving traffic on each approach Minor Street 1 81 | Urban | Rural | Urban | Rural |
| 1 1,038 | 1 81 | 8,000 | 5,600 | 2,400 | 1,680 |
| 2 + | 1 | 9,600 | 6,720 | 2,400 | 1,680 |
| 2 + | 2 + | 9,600 | 6,720 | 3,200 | 2,240 |
| 1 | 2 + | 8,000 | 5,600 | 3,200 | 2,240 |
| CONDITION B - Interruption of Continuous Traffic <u>Satisfied</u> | CONDITION B - Interruption of Continuous Traffic <u>Not Satisfied</u> | Vehicles Per Day on Major Street (Total of Both Approaches) | Vehicles Per Day on Major Street (Total of Both Approaches) | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) |
| Number of lanes for moving traffic on each approach Major Street 1 1,038 | Number of lanes for moving traffic on each approach Minor Street 1 81 | Urban | Rural | Urban | Rural |
| 1 1,038 | 1 81 | 12,000 | 8,400 | 1,200 | 850 |
| 2 + | 1 | 14,400 | 10,080 | 1,200 | 850 |
| 2 + | 2 + | 14,400 | 10,080 | 1,600 | 1,120 |
| 1 | 2 + | 12,000 | 8,400 | 1,600 | 1,120 |
| Combination of CONDITIONS A + B <u>Satisfied</u> | Combination of CONDITIONS A + B <u>Not Satisfied</u> | 2 CONDITIONS 80% | 2 CONDITIONS 80% | 2 CONDITIONS 80% | 2 CONDITIONS 80% |
| No one condition satisfied, but following conditions fulfilled 80% or more | A 3% | B 7% | | | |

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

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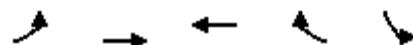
**APPENDIX 5.3: E+P CONDITIONS OFF-RAMP QUEUING ANALYSIS
WORKSHEETS**

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| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|-------------------------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 23 | 241 | 278 | 398 | 507 | 38 |
| v/c Ratio | 0.10 | 0.15 | 0.56 | 0.28 | 0.69 | 0.06 |
| Control Delay | 29.2 | 0.2 | 23.0 | 3.1 | 19.6 | 7.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 29.2 | 0.2 | 23.0 | 3.1 | 19.6 | 7.8 |
| Queue Length 50th (ft) | 4 | 0 | 47 | 0 | 80 | 2 |
| Queue Length 95th (ft) | 33 | 0 | 193 | 72 | 296 | 21 |
| Internal Link Dist (ft) | 1025 | | | 1452 | 226 | |
| Turn Bay Length (ft) | | 50 | 120 | | | 100 |
| Base Capacity (vph) | 724 | 1615 | 959 | 1794 | 1467 | 1253 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.03 | 0.15 | 0.29 | 0.22 | 0.35 | 0.03 |

Intersection Summary



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|-------------------------|------|------|------|------|------|
| Lane Group Flow (vph) | 30 | 743 | 685 | 706 | 213 |
| V/c Ratio | 0.09 | 0.36 | 0.39 | 0.44 | 0.40 |
| Control Delay | 20.8 | 6.9 | 11.5 | 0.9 | 16.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 20.8 | 6.9 | 11.5 | 0.9 | 16.9 |
| Queue Length 50th (ft) | 4 | 44 | 40 | 0 | 28 |
| Queue Length 95th (ft) | 30 | 99 | 146 | 0 | 116 |
| Internal Link Dist (ft) | | 1452 | 714 | | 376 |
| Turn Bay Length (ft) | 245 | | | 150 | |
| Base Capacity (vph) | 631 | 3544 | 3194 | 1615 | 1332 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.05 | 0.21 | 0.21 | 0.44 | 0.16 |

Intersection Summary

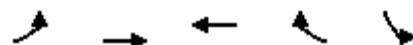


| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|-------------------------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 20 | 182 | 244 | 323 | 788 | 51 |
| v/c Ratio | 0.11 | 0.11 | 0.60 | 0.30 | 0.81 | 0.06 |
| Control Delay | 33.6 | 0.1 | 33.4 | 6.6 | 21.0 | 5.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 33.6 | 0.1 | 33.4 | 6.6 | 21.0 | 5.8 |
| Queue Length 50th (ft) | 6 | 0 | 64 | 0 | 178 | 4 |
| Queue Length 95th (ft) | 30 | 0 | #230 | 56 | 456 | 22 |
| Internal Link Dist (ft) | 1025 | | | 1452 | 226 | |
| Turn Bay Length (ft) | | 50 | 120 | | | 100 |
| Base Capacity (vph) | 549 | 1615 | 463 | 1725 | 1428 | 1220 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.04 | 0.11 | 0.53 | 0.19 | 0.55 | 0.04 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|-------------------------|------|------|------|------|------|
| Lane Group Flow (vph) | 14 | 977 | 538 | 640 | 272 |
| V/c Ratio | 0.06 | 0.62 | 0.38 | 0.40 | 0.54 |
| Control Delay | 19.9 | 10.6 | 10.8 | 0.7 | 17.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 19.9 | 10.6 | 10.8 | 0.7 | 17.0 |
| Queue Length 50th (ft) | 3 | 73 | 34 | 0 | 44 |
| Queue Length 95th (ft) | 18 | 152 | 115 | 0 | 127 |
| Internal Link Dist (ft) | | 1452 | 714 | | 376 |
| Turn Bay Length (ft) | 245 | | | 150 | |
| Base Capacity (vph) | 377 | 3526 | 3209 | 1615 | 1443 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.04 | 0.28 | 0.17 | 0.40 | 0.19 |

Intersection Summary

**APPENDIX 6.1: OPENING YEAR CUMULATIVE (2024) WITHOUT
PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS
WORKSHEETS**

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| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------|-------|------|-------|-------|-------|-------|
| Lane Configurations | ↑ ↗ | ↗ ↘ | ↖ ↗ | ↑ ↗ | ↗ ↘ | ↖ ↗ |
| Traffic Volume (vph) | 71 | 361 | 598 | 612 | 608 | 84 |
| Future Volume (vph) | 71 | 361 | 598 | 612 | 608 | 84 |
| Turn Type | Prot | Free | Prot | NA | NA | Perm |
| Protected Phases | 8 | | 1 | 6 | 2 | |
| Permitted Phases | | Free | | | | 2 |
| Detector Phase | 8 | | 1 | 6 | 2 | 2 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 22.6 | | 10.0 | 24.2 | 24.2 | 24.2 |
| Total Split (s) | 22.6 | | 27.0 | 67.4 | 40.4 | 40.4 |
| Total Split (%) | 25.1% | | 30.0% | 74.9% | 44.9% | 44.9% |
| Yellow Time (s) | 5.0 | | 4.0 | 5.0 | 5.0 | 5.0 |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.0 | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | Lead | | Lag | Lag | |
| Lead-Lag Optimize? | | Yes | | Yes | Yes | |
| Recall Mode | None | | None | None | None | None |
| Act Effect Green (s) | 7.7 | 73.0 | 22.8 | 57.9 | 28.1 | 28.1 |
| Actuated g/C Ratio | 0.11 | 1.00 | 0.31 | 0.79 | 0.38 | 0.38 |
| v/c Ratio | 0.39 | 0.23 | 1.09 | 0.42 | 0.86 | 0.13 |
| Control Delay | 39.8 | 0.3 | 95.5 | 4.7 | 34.5 | 9.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 39.8 | 0.3 | 95.5 | 4.7 | 34.5 | 9.2 |
| LOS | D | A | F | A | C | A |
| Approach Delay | 6.8 | | | 49.5 | 31.4 | |
| Approach LOS | A | | | D | C | |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 73

Natural Cycle: 100

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.09

Intersection Signal Delay: 36.2

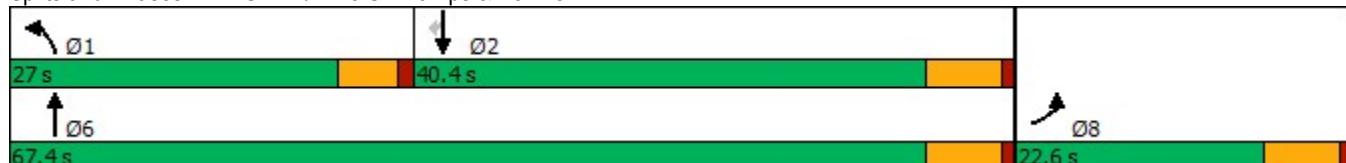
Intersection LOS: D

Intersection Capacity Utilization 83.5%

ICU Level of Service E

Analysis Period (min) 15

Splits and Phases: 1: SR-74/I-215 SB Ramps & Bonnie Dr.



HCM 6th Signalized Intersection Summary
1: SR-74/I-215 SB Ramps & Bonnie Dr.

Mapes & Sherman (JN 14804)
02/16/2023



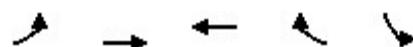
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 71 | 361 | 598 | 612 | 608 | 84 |
| Future Volume (veh/h) | 71 | 361 | 598 | 612 | 608 | 84 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | No | | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 73 | 0 | 616 | 631 | 627 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 100 | | 588 | 1458 | 700 | |
| Arrive On Green | 0.06 | 0.00 | 0.33 | 0.77 | 0.37 | 0.00 |
| Sat Flow, veh/h | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Grp Volume(v), veh/h | 73 | 0 | 616 | 631 | 627 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Q Serve(g_s), s | 2.7 | 0.0 | 22.0 | 7.8 | 21.0 | 0.0 |
| Cycle Q Clear(g_c), s | 2.7 | 0.0 | 22.0 | 7.8 | 21.0 | 0.0 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 100 | | 588 | 1458 | 700 | |
| V/C Ratio(X) | 0.73 | | 1.05 | 0.43 | 0.90 | |
| Avail Cap(c_a), veh/h | 444 | | 588 | 1724 | 966 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 31.5 | 0.0 | 22.8 | 2.7 | 20.1 | 0.0 |
| Incr Delay (d2), s/veh | 3.8 | 0.0 | 50.0 | 0.1 | 6.8 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.2 | 0.0 | 15.9 | 0.6 | 9.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 35.3 | 0.0 | 72.8 | 2.8 | 27.0 | 0.0 |
| LnGrp LOS | D | | F | A | C | |
| Approach Vol, veh/h | 73 | A | | 1247 | 627 | A |
| Approach Delay, s/veh | 35.3 | | | 37.4 | 27.0 | |
| Approach LOS | D | | | D | C | |
| Timer - Assigned Phs | 1 | 2 | | 6 | | 8 |
| Phs Duration (G+Y+R _c), s | 27.0 | 30.9 | | 57.9 | | 9.7 |
| Change Period (Y+R _c), s | 5.0 | 6.0 | | 6.0 | | 6.0 |
| Max Green Setting (Gmax), s | 22.0 | 34.4 | | 61.4 | | 16.6 |
| Max Q Clear Time (g_c+l1), s | 24.0 | 23.0 | | 9.8 | | 4.7 |
| Green Ext Time (p_c), s | 0.0 | 1.9 | | 2.3 | | 0.0 |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 34.0 |
| HCM 6th LOS | C |

Notes

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



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|----------------------|-------|-------|-------|------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ |
| Traffic Volume (vph) | 58 | 912 | 1091 | 902 | 309 |
| Future Volume (vph) | 58 | 912 | 1091 | 902 | 309 |
| Turn Type | Prot | NA | NA | Free | Prot |
| Protected Phases | 5 | 2 | 6 | | 4 |
| Permitted Phases | | | | Free | |
| Detector Phase | 5 | 2 | 6 | | 4 |
| Switch Phase | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | | 5.0 |
| Minimum Split (s) | 10.3 | 22.5 | 22.5 | | 22.5 |
| Total Split (s) | 15.0 | 59.0 | 44.0 | | 31.0 |
| Total Split (%) | 16.7% | 65.6% | 48.9% | | 34.4% |
| Yellow Time (s) | 4.3 | 4.3 | 4.3 | | 4.3 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Lost Time (s) | 5.3 | 5.3 | 5.3 | | 5.3 |
| Lead/Lag | Lead | | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | | |
| Recall Mode | None | None | None | | None |
| Act Effect Green (s) | 7.4 | 38.9 | 29.5 | 73.1 | 22.6 |
| Actuated g/C Ratio | 0.10 | 0.53 | 0.40 | 1.00 | 0.31 |
| v/c Ratio | 0.34 | 0.50 | 0.80 | 0.59 | 0.82 |
| Control Delay | 41.2 | 11.4 | 25.0 | 1.6 | 38.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 41.2 | 11.4 | 25.0 | 1.6 | 38.8 |
| LOS | D | B | C | A | D |
| Approach Delay | | 13.2 | 14.4 | | 38.8 |
| Approach LOS | | B | B | | D |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 73.1

Natural Cycle: 65

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.82

Intersection Signal Delay: 17.2

Intersection LOS: B

Intersection Capacity Utilization 72.0%

ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 2: SR-74 & I-215 NB Ramps





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ | ↑↑ |
| Traffic Volume (veh/h) | 58 | 912 | 1091 | 902 | 309 | 120 |
| Future Volume (veh/h) | 58 | 912 | 1091 | 902 | 309 | 120 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 62 | 970 | 1161 | 0 | 329 | 122 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 96 | 1940 | 1435 | | 369 | 137 |
| Arrive On Green | 0.05 | 0.54 | 0.40 | 0.00 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1275 | 473 |
| Grp Volume(v), veh/h | 62 | 970 | 1161 | 0 | 452 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1751 | 0 |
| Q Serve(g_s), s | 2.1 | 10.4 | 17.5 | 0.0 | 15.1 | 0.0 |
| Cycle Q Clear(g_c), s | 2.1 | 10.4 | 17.5 | 0.0 | 15.1 | 0.0 |
| Prop In Lane | 1.00 | | | 1.00 | 0.73 | 0.27 |
| Lane Grp Cap(c), veh/h | 96 | 1940 | 1435 | | 507 | 0 |
| V/C Ratio(X) | 0.64 | 0.50 | 0.81 | | 0.89 | 0.00 |
| Avail Cap(c_a), veh/h | 287 | 3169 | 2284 | | 736 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 28.4 | 8.9 | 16.4 | 0.0 | 20.8 | 0.0 |
| Incr Delay (d2), s/veh | 2.7 | 0.1 | 0.5 | 0.0 | 7.4 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.9 | 2.7 | 5.6 | 0.0 | 6.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 31.1 | 9.0 | 16.9 | 0.0 | 28.2 | 0.0 |
| LnGrp LOS | C | A | B | | C | A |
| Approach Vol, veh/h | 1032 | 1161 | A | 452 | | |
| Approach Delay, s/veh | 10.3 | 16.9 | | 28.2 | | |
| Approach LOS | B | B | | C | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 38.2 | | 23.0 | 8.6 | 29.6 | |
| Change Period (Y+R _c), s | 5.3 | | 5.3 | 5.3 | 5.3 | |
| Max Green Setting (Gmax), s | 53.7 | | 25.7 | 9.7 | 38.7 | |
| Max Q Clear Time (g_c+l1), s | 12.4 | | 17.1 | 4.1 | 19.5 | |
| Green Ext Time (p_c), s | 4.3 | | 0.6 | 0.0 | 4.9 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 16.3 | | | | |
| HCM 6th LOS | | B | | | | |
| Notes | | | | | | |
| User approved volume balancing among the lanes for turning movement. | | | | | | |
| Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay. | | | | | | |

Intersection

Intersection Delay, s/veh 21.2

Intersection LOS C

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ |
| Traffic Vol, veh/h | 1 | 23 | 59 | 561 | 13 | 6 | 66 | 175 | 258 | 3 | 150 | 2 |
| Future Vol, veh/h | 1 | 23 | 59 | 561 | 13 | 6 | 66 | 175 | 258 | 3 | 150 | 2 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 26 | 66 | 630 | 15 | 7 | 74 | 197 | 290 | 3 | 169 | 2 |
| Number of Lanes | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 2 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 3 | | | 2 | | | 3 | | | 3 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 3 | | | 3 | | | 2 | | | 3 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 3 | | | 3 | | | 3 | | | 2 | | |
| HCM Control Delay | 12.4 | | | 25.2 | | | 20.3 | | | 13.8 | | |
| HCM LOS | B | | | D | | | C | | | B | | |

| Lane | NBLn1 | NBLn2 | NBLn3 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | WBLn3 | SBLn1 | SBLn2 | SBLn3 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 0% | 8% | 0% | 100% | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 18% | 92% | 16% | 0% | 0% | 68% | 0% | 100% | 96% |
| Vol Right, % | 0% | 0% | 82% | 0% | 84% | 0% | 0% | 32% | 0% | 0% | 4% |
| Sign Control | Stop |
| Traffic Vol by Lane | 66 | 117 | 316 | 13 | 71 | 281 | 281 | 19 | 3 | 100 | 52 |
| LT Vol | 66 | 0 | 0 | 1 | 0 | 281 | 281 | 0 | 3 | 0 | 0 |
| Through Vol | 0 | 117 | 58 | 12 | 12 | 0 | 0 | 13 | 0 | 100 | 50 |
| RT Vol | 0 | 0 | 258 | 0 | 59 | 0 | 0 | 6 | 0 | 0 | 2 |
| Lane Flow Rate | 74 | 131 | 355 | 14 | 79 | 315 | 315 | 21 | 3 | 112 | 58 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.168 | 0.278 | 0.696 | 0.034 | 0.177 | 0.682 | 0.682 | 0.042 | 0.008 | 0.267 | 0.139 |
| Departure Headway (Hd) | 8.138 | 7.631 | 7.051 | 8.653 | 8.027 | 7.785 | 7.785 | 7.062 | 9.071 | 8.561 | 8.534 |
| Convergence, Y/N | Yes |
| Cap | 440 | 471 | 512 | 413 | 446 | 463 | 463 | 507 | 394 | 419 | 420 |
| Service Time | 5.888 | 5.381 | 4.801 | 6.422 | 5.796 | 5.536 | 5.536 | 4.812 | 6.838 | 6.327 | 6.3 |
| HCM Lane V/C Ratio | 0.168 | 0.278 | 0.693 | 0.034 | 0.177 | 0.68 | 0.68 | 0.041 | 0.008 | 0.267 | 0.138 |
| HCM Control Delay | 12.5 | 13.3 | 24.5 | 11.7 | 12.5 | 25.7 | 25.7 | 10.1 | 11.9 | 14.4 | 12.7 |
| HCM Lane LOS | B | B | C | B | B | D | D | B | B | B | B |
| HCM 95th-tile Q | 0.6 | 1.1 | 5.4 | 0.1 | 0.6 | 5 | 5 | 0.1 | 0 | 1.1 | 0.5 |



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 538 | 684 | 1051 | 103 | 109 | 942 |
| Future Volume (vph) | 538 | 684 | 1051 | 103 | 109 | 942 |
| Turn Type | Prot | NA | NA | Perm | Prot | Perm |
| Protected Phases | 5 | 2 | 6 | | 4 | |
| Permitted Phases | | | | 6 | | 4 |
| Detector Phase | 5 | 2 | 6 | 6 | 4 | 4 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.0 | 11.0 | 41.6 | 41.6 | 30.5 | 30.5 |
| Total Split (s) | 35.0 | 80.0 | 45.0 | 45.0 | 40.0 | 40.0 |
| Total Split (%) | 29.2% | 66.7% | 37.5% | 37.5% | 33.3% | 33.3% |
| Yellow Time (s) | 3.0 | 5.0 | 5.0 | 5.0 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 |
| Lead/Lag | Lead | | Lag | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | Yes | | |
| Recall Mode | None | None | None | None | None | None |
| Act Effect Green (s) | 31.0 | 73.3 | 38.3 | 38.3 | 35.5 | 35.5 |
| Actuated g/C Ratio | 0.26 | 0.61 | 0.32 | 0.32 | 0.30 | 0.30 |
| v/c Ratio | 1.18 | 0.32 | 0.94 | 0.19 | 0.21 | 1.19 |
| Control Delay | 142.2 | 11.5 | 54.6 | 8.7 | 32.9 | 116.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 142.2 | 11.5 | 54.6 | 8.7 | 32.9 | 116.9 |
| LOS | F | B | D | A | C | F |
| Approach Delay | | 69.0 | 50.5 | | 108.3 | |
| Approach LOS | | E | D | | F | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 119.3

Natural Cycle: 115

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.19

Intersection Signal Delay: 74.8

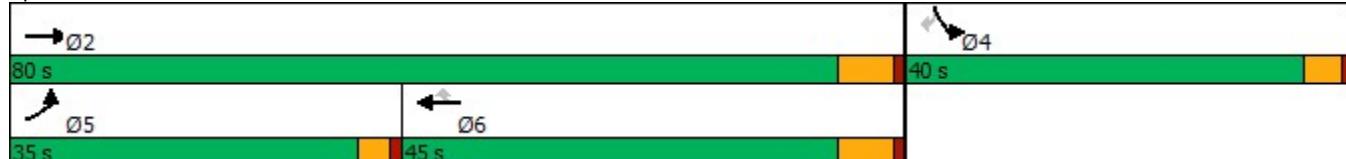
Intersection LOS: E

Intersection Capacity Utilization 96.2%

ICU Level of Service F

Analysis Period (min) 15

Splits and Phases: 4: SR-74 & Trumble Rd.





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|-------|-------|------|------|-------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 538 | 684 | 1051 | 103 | 109 | 942 |
| Future Volume (veh/h) | 538 | 684 | 1051 | 103 | 109 | 942 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 0.98 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 555 | 705 | 1084 | 103 | 112 | 780 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 471 | 2217 | 1157 | 504 | 539 | 479 |
| Arrive On Green | 0.26 | 0.61 | 0.32 | 0.32 | 0.30 | 0.30 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1571 | 1810 | 1610 |
| Grp Volume(v), veh/h | 555 | 705 | 1084 | 103 | 112 | 780 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1571 | 1810 | 1610 |
| Q Serve(g_s), s | 31.0 | 11.2 | 34.8 | 5.7 | 5.5 | 35.5 |
| Cycle Q Clear(g_c), s | 31.0 | 11.2 | 34.8 | 5.7 | 5.5 | 35.5 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 471 | 2217 | 1157 | 504 | 539 | 479 |
| V/C Ratio(X) | 1.18 | 0.32 | 0.94 | 0.20 | 0.21 | 1.63 |
| Avail Cap(c_a), veh/h | 471 | 2241 | 1181 | 514 | 539 | 479 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 44.1 | 11.0 | 39.3 | 29.4 | 31.3 | 41.9 |
| Incr Delay (d2), s/veh | 100.9 | 0.1 | 13.6 | 0.2 | 0.1 | 291.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 26.4 | 4.0 | 16.7 | 2.1 | 2.4 | 38.8 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 145.0 | 11.1 | 52.9 | 29.6 | 31.4 | 333.4 |
| LnGrp LOS | F | B | D | C | C | F |
| Approach Vol, veh/h | 1260 | 1187 | | | 892 | |
| Approach Delay, s/veh | 70.1 | 50.9 | | | 295.4 | |
| Approach LOS | E | D | | | F | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 79.2 | | 40.0 | 35.0 | 44.2 | |
| Change Period (Y+R _c), s | 6.0 | | 4.5 | 4.0 | 6.0 | |
| Max Green Setting (Gmax), s | 74.0 | | 35.5 | 31.0 | 39.0 | |
| Max Q Clear Time (g_c+l1), s | 13.2 | | 37.5 | 33.0 | 36.8 | |
| Green Ext Time (p_c), s | 4.8 | | 0.0 | 0.0 | 1.5 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 123.5 | | | | |
| HCM 6th LOS | | F | | | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|-------|--------|------|--------|------|--------|-------|------|------|------|------|
| Int Delay, s/veh | 3.7 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↔ | ↔ | ↔ | ↔ | ↑ | ↑ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| Traffic Vol, veh/h | 64 | 182 | 39 | 13 | 464 | 2 | 3 | 23 | 17 | 5 | 26 | 114 |
| Future Vol, veh/h | 64 | 182 | 39 | 13 | 464 | 2 | 3 | 23 | 17 | 5 | 26 | 114 |
| Conflicting Peds, #/hr | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 1 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 1 | - | - | 1 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 70 | 198 | 42 | 14 | 504 | 2 | 3 | 25 | 18 | 5 | 28 | 124 |
| Major/Minor | Major1 | | Major2 | | Minor1 | | Minor2 | | | | | |
| Conflicting Flow All | 510 | 0 | 0 | 242 | 0 | 0 | 971 | 899 | 223 | 919 | 918 | 509 |
| Stage 1 | - | - | - | - | - | - | 361 | 361 | - | 536 | 536 | - |
| Stage 2 | - | - | - | - | - | - | 610 | 538 | - | 383 | 382 | - |
| Critical Hdwy | 4.1 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.2 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1065 | - | - | 1336 | - | - | 234 | 281 | 822 | 254 | 274 | 568 |
| Stage 1 | - | - | - | - | - | - | 662 | 629 | - | 532 | 527 | - |
| Stage 2 | - | - | - | - | - | - | 485 | 526 | - | 644 | 616 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1061 | - | - | 1333 | - | - | 159 | 254 | 819 | 217 | 248 | 565 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 233 | 342 | - | 333 | 357 | - |
| Stage 1 | - | - | - | - | - | - | 610 | 579 | - | 489 | 517 | - |
| Stage 2 | - | - | - | - | - | - | 352 | 516 | - | 555 | 567 | - |
| Approach | EB | | WB | | NB | | SB | | | | | |
| HCM Control Delay, s | 1.9 | | 0.2 | | 14.5 | | 15.4 | | | | | |
| HCM LOS | | | | | B | | C | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 426 | 1061 | - | - | 1333 | - | - | 501 | | | | |
| HCM Lane V/C Ratio | 0.11 | 0.066 | - | - | 0.011 | - | - | 0.315 | | | | |
| HCM Control Delay (s) | 14.5 | 8.6 | 0 | - | 7.7 | 0 | - | 15.4 | | | | |
| HCM Lane LOS | B | A | A | - | A | A | - | C | | | | |
| HCM 95th %tile Q(veh) | 0.4 | 0.2 | - | - | 0 | - | - | 1.3 | | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|------|------|
| Int Delay, s/veh | 1 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 746 | 990 | 18 | 24 | 109 |
| Future Vol, veh/h | 0 | 746 | 990 | 18 | 24 | 109 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 794 | 1053 | 19 | 26 | 116 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | - | 0 | - | 0 | 1460 | 536 |
| Stage 1 | - | - | - | - | 1063 | - |
| Stage 2 | - | - | - | - | 397 | - |
| Critical Hdwy | - | - | - | - | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 | - |
| Follow-up Hdwy | - | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 0 | - | - | - | 122 | 494 |
| Stage 1 | 0 | - | - | - | 298 | - |
| Stage 2 | 0 | - | - | - | 654 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | 122 | 494 |
| Mov Cap-2 Maneuver | - | - | - | - | 232 | - |
| Stage 1 | - | - | - | - | 298 | - |
| Stage 2 | - | - | - | - | 654 | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0 | 0 | 14.5 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBT | WBT | WBR | SBLn1 | | |
| Capacity (veh/h) | - | - | - | 494 | | |
| HCM Lane V/C Ratio | - | - | - | 0.235 | | |
| HCM Control Delay (s) | - | - | - | 14.5 | | |
| HCM Lane LOS | - | - | - | B | | |
| HCM 95th %tile Q(veh) | - | - | - | 0.9 | | |



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------|-------|------|-------|-------|-------|-------|
| Lane Configurations | ↑ ↗ | ↗ ↘ | ↖ ↗ | ↑ ↗ | ↗ ↘ | ↖ ↗ |
| Traffic Volume (vph) | 134 | 416 | 489 | 487 | 1006 | 81 |
| Future Volume (vph) | 134 | 416 | 489 | 487 | 1006 | 81 |
| Turn Type | Prot | Free | Prot | NA | NA | Perm |
| Protected Phases | 8 | | 1 | 6 | 2 | |
| Permitted Phases | | Free | | | | 2 |
| Detector Phase | 8 | | 1 | 6 | 2 | 2 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 22.6 | | 10.0 | 24.2 | 24.2 | 24.2 |
| Total Split (s) | 22.6 | | 19.0 | 67.4 | 48.4 | 48.4 |
| Total Split (%) | 25.1% | | 21.1% | 74.9% | 53.8% | 53.8% |
| Yellow Time (s) | 5.0 | | 4.0 | 5.0 | 5.0 | 5.0 |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.0 | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | Lead | | Lag | Lag | |
| Lead-Lag Optimize? | | Yes | | Yes | Yes | |
| Recall Mode | None | | None | None | None | None |
| Act Effect Green (s) | 11.1 | 84.6 | 14.0 | 61.5 | 42.5 | 42.5 |
| Actuated g/C Ratio | 0.13 | 1.00 | 0.17 | 0.73 | 0.50 | 0.50 |
| v/c Ratio | 0.61 | 0.28 | 1.76 | 0.38 | 1.13 | 0.11 |
| Control Delay | 46.0 | 0.4 | 381.1 | 5.7 | 97.0 | 8.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 46.0 | 0.4 | 381.1 | 5.7 | 97.0 | 8.9 |
| LOS | D | A | F | A | F | A |
| Approach Delay | 11.5 | | | 193.8 | 90.5 | |
| Approach LOS | B | | | F | F | |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 84.6

Natural Cycle: 120

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.76

Intersection Signal Delay: 112.5

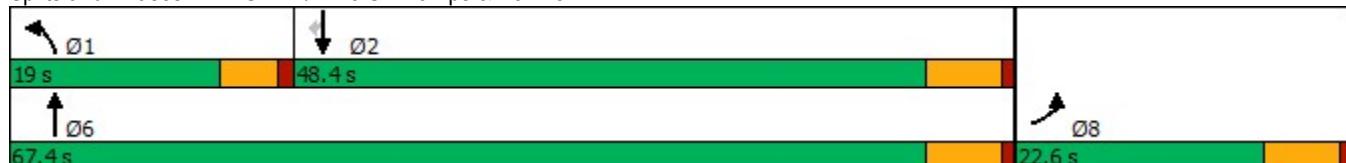
Intersection LOS: F

Intersection Capacity Utilization 101.6%

ICU Level of Service G

Analysis Period (min) 15

Splits and Phases: 1: SR-74/I-215 SB Ramps & Bonnie Dr.

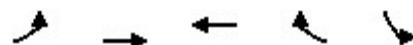


HCM 6th Signalized Intersection Summary
1: SR-74/I-215 SB Ramps & Bonnie Dr.

Mapes & Sherman (JN 14804)
02/16/2023



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|------|------|-------|-------|------|------|
| Lane Configurations | ↑ ↗ | ↗ ↓ | ↖ ↗ | ↑ ↗ | ↑ ↗ | ↖ ↗ |
| Traffic Volume (veh/h) | 134 | 416 | 489 | 487 | 1006 | 81 |
| Future Volume (veh/h) | 134 | 416 | 489 | 487 | 1006 | 81 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | No | | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 144 | 0 | 526 | 524 | 1082 | 0 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 180 | | 311 | 1431 | 988 | |
| Arrive On Green | 0.10 | 0.00 | 0.17 | 0.75 | 0.52 | 0.00 |
| Sat Flow, veh/h | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Grp Volume(v), veh/h | 144 | 0 | 526 | 524 | 1082 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Q Serve(g_s), s | 6.3 | 0.0 | 14.0 | 7.7 | 42.4 | 0.0 |
| Cycle Q Clear(g_c), s | 6.3 | 0.0 | 14.0 | 7.7 | 42.4 | 0.0 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 180 | | 311 | 1431 | 988 | |
| V/C Ratio(X) | 0.80 | | 1.69 | 0.37 | 1.09 | |
| Avail Cap(c_a), veh/h | 368 | | 311 | 1431 | 988 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 35.9 | 0.0 | 33.8 | 3.4 | 19.6 | 0.0 |
| Incr Delay (d2), s/veh | 3.1 | 0.0 | 325.2 | 0.1 | 58.1 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 2.7 | 0.0 | 33.7 | 1.3 | 31.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 39.0 | 0.0 | 359.0 | 3.5 | 77.7 | 0.0 |
| LnGrp LOS | D | | F | A | F | |
| Approach Vol, veh/h | 144 | A | | 1050 | 1082 | A |
| Approach Delay, s/veh | 39.0 | | | 181.6 | 77.7 | |
| Approach LOS | D | | | F | E | |
| Timer - Assigned Phs | 1 | 2 | | 6 | | 8 |
| Phs Duration (G+Y+R _c), s | 19.0 | 48.4 | | 67.4 | | 14.1 |
| Change Period (Y+R _c), s | 5.0 | 6.0 | | 6.0 | | 6.0 |
| Max Green Setting (Gmax), s | 14.0 | 42.4 | | 61.4 | | 16.6 |
| Max Q Clear Time (g_c+l1), s | 16.0 | 44.4 | | 9.7 | | 8.3 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | | 1.8 | | 0.1 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 123.2 | | | |
| HCM 6th LOS | | | F | | | |
| Notes | | | | | | |
| Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay. | | | | | | |



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|----------------------|-------|-------|-------|------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ |
| Traffic Volume (vph) | 51 | 1372 | 851 | 758 | 459 |
| Future Volume (vph) | 51 | 1372 | 851 | 758 | 459 |
| Turn Type | Prot | NA | NA | Free | Prot |
| Protected Phases | 5 | 2 | 6 | | 4 |
| Permitted Phases | | | | Free | |
| Detector Phase | 5 | 2 | 6 | | 4 |
| Switch Phase | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | | 5.0 |
| Minimum Split (s) | 10.3 | 22.5 | 22.5 | | 22.5 |
| Total Split (s) | 13.0 | 54.0 | 41.0 | | 36.0 |
| Total Split (%) | 14.4% | 60.0% | 45.6% | | 40.0% |
| Yellow Time (s) | 4.3 | 4.3 | 4.3 | | 4.3 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Lost Time (s) | 5.3 | 5.3 | 5.3 | | 5.3 |
| Lead/Lag | Lead | | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | | |
| Recall Mode | None | None | None | | None |
| Act Effect Green (s) | 6.6 | 39.0 | 31.9 | 80.7 | 31.0 |
| Actuated g/C Ratio | 0.08 | 0.48 | 0.40 | 1.00 | 0.38 |
| v/c Ratio | 0.38 | 0.86 | 0.66 | 0.52 | 0.93 |
| Control Delay | 45.2 | 24.2 | 23.4 | 1.2 | 47.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 45.2 | 24.2 | 23.4 | 1.2 | 47.2 |
| LOS | D | C | C | A | D |
| Approach Delay | | 25.0 | 12.9 | | 47.2 |
| Approach LOS | | C | B | | D |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 80.7

Natural Cycle: 80

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.93

Intersection Signal Delay: 23.2

Intersection LOS: C

Intersection Capacity Utilization 79.8%

ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 2: SR-74 & I-215 NB Ramps



HCM 6th Signalized Intersection Summary
2: SR-74 & I-215 NB Ramps

Mapes & Sherman (JN 14804)
02/16/2023



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ | |
| Traffic Volume (veh/h) | 51 | 1372 | 851 | 758 | 459 | 124 |
| Future Volume (veh/h) | 51 | 1372 | 851 | 758 | 459 | 124 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 56 | 1508 | 935 | 0 | 504 | 123 |
| Peak Hour Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 82 | 1751 | 1335 | | 533 | 130 |
| Arrive On Green | 0.05 | 0.48 | 0.37 | 0.00 | 0.38 | 0.38 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1418 | 346 |
| Grp Volume(v), veh/h | 56 | 1508 | 935 | 0 | 628 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1767 | 0 |
| Q Serve(g_s), s | 2.3 | 28.1 | 16.8 | 0.0 | 26.2 | 0.0 |
| Cycle Q Clear(g_c), s | 2.3 | 28.1 | 16.8 | 0.0 | 26.2 | 0.0 |
| Prop In Lane | 1.00 | | | 1.00 | 0.80 | 0.20 |
| Lane Grp Cap(c), veh/h | 82 | 1751 | 1335 | | 664 | 0 |
| V/C Ratio(X) | 0.68 | 0.86 | 0.70 | | 0.95 | 0.00 |
| Avail Cap(c_a), veh/h | 183 | 2309 | 1693 | | 712 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 35.8 | 17.3 | 20.4 | 0.0 | 23.0 | 0.0 |
| Incr Delay (d2), s/veh | 3.6 | 2.2 | 0.6 | 0.0 | 20.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.0 | 9.8 | 6.1 | 0.0 | 14.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 39.4 | 19.6 | 21.0 | 0.0 | 43.2 | 0.0 |
| LnGrp LOS | D | B | C | | D | A |
| Approach Vol, veh/h | 1564 | 935 | A | 628 | | |
| Approach Delay, s/veh | 20.3 | 21.0 | | 43.2 | | |
| Approach LOS | C | C | | D | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 42.2 | | 33.9 | 8.8 | 33.4 | |
| Change Period (Y+R _c), s | 5.3 | | 5.3 | 5.3 | 5.3 | |
| Max Green Setting (Gmax), s | 48.7 | | 30.7 | 7.7 | 35.7 | |
| Max Q Clear Time (g_c+l1), s | 30.1 | | 28.2 | 4.3 | 18.8 | |
| Green Ext Time (p_c), s | 6.8 | | 0.4 | 0.0 | 3.6 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 25.1 | | | | |
| HCM 6th LOS | | C | | | | |
| Notes | | | | | | |
| User approved volume balancing among the lanes for turning movement. | | | | | | |
| Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay. | | | | | | |

Intersection

Intersection Delay, s/veh 89.3

Intersection LOS F

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | ↔↔ | ↑↑ | ↔↔ | ↑↑ | ↔ | ↔ | ↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↔↔ |
| Traffic Vol, veh/h | 0 | 6 | 6 | 387 | 1 | 10 | 11 | 119 | 555 | 54 | 233 | 2 |
| Future Vol, veh/h | 0 | 6 | 6 | 387 | 1 | 10 | 11 | 119 | 555 | 54 | 233 | 2 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 7 | 7 | 466 | 1 | 12 | 13 | 143 | 669 | 65 | 281 | 2 |
| Number of Lanes | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 2 | 0 |
| Approach | EB | | WB | | NB | | SB | | | | | |
| Opposing Approach | WB | | EB | | SB | | NB | | | | | |
| Opposing Lanes | 3 | | 2 | | 3 | | 3 | | | | | |
| Conflicting Approach Left | SB | | NB | | EB | | WB | | | | | |
| Conflicting Lanes Left | 3 | | 3 | | 2 | | 3 | | | | | |
| Conflicting Approach Right | NB | | SB | | WB | | EB | | | | | |
| Conflicting Lanes Right | 3 | | 3 | | 3 | | 2 | | | | | |
| HCM Control Delay | 12.1 | | 20.6 | | 161.7 | | 15.4 | | | | | |
| HCM LOS | B | | C | | F | | C | | | | | |

| Lane | NBLn1 | NBLn2 | NBLn3 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | WBLn3 | SBLn1 | SBLn2 | SBLn3 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 7% | 100% | 25% | 0% | 0% | 9% | 0% | 100% | 97% |
| Vol Right, % | 0% | 0% | 93% | 0% | 75% | 0% | 0% | 91% | 0% | 0% | 3% |
| Sign Control | Stop |
| Traffic Vol by Lane | 11 | 79 | 595 | 4 | 8 | 194 | 194 | 11 | 54 | 155 | 80 |
| LT Vol | 11 | 0 | 0 | 0 | 0 | 194 | 194 | 0 | 54 | 0 | 0 |
| Through Vol | 0 | 79 | 40 | 4 | 2 | 0 | 0 | 1 | 0 | 155 | 78 |
| RT Vol | 0 | 0 | 555 | 0 | 6 | 0 | 0 | 10 | 0 | 0 | 2 |
| Lane Flow Rate | 13 | 96 | 716 | 5 | 10 | 233 | 233 | 13 | 65 | 187 | 96 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.029 | 0.196 | 1.337 | 0.012 | 0.023 | 0.53 | 0.53 | 0.026 | 0.153 | 0.414 | 0.212 |
| Departure Headway (Hd) | 7.885 | 7.378 | 6.717 | 9.593 | 9.068 | 8.766 | 8.766 | 7.62 | 9.004 | 8.494 | 8.476 |
| Convergence, Y/N | Yes |
| Cap | 453 | 486 | 545 | 375 | 397 | 415 | 415 | 473 | 401 | 427 | 426 |
| Service Time | 5.65 | 5.143 | 4.482 | 7.293 | 6.768 | 6.466 | 6.466 | 5.32 | 6.704 | 6.194 | 6.176 |
| HCM Lane V/C Ratio | 0.029 | 0.198 | 1.314 | 0.013 | 0.025 | 0.561 | 0.561 | 0.027 | 0.162 | 0.438 | 0.225 |
| HCM Control Delay | 10.9 | 11.9 | 184.5 | 12.4 | 12 | 20.9 | 20.9 | 10.5 | 13.3 | 17.1 | 13.4 |
| HCM Lane LOS | B | B | F | B | B | C | C | B | B | C | B |
| HCM 95th-tile Q | 0.1 | 0.7 | 31 | 0 | 0.1 | 3 | 3 | 0.1 | 0.5 | 2 | 0.8 |



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 751 | 1079 | 909 | 121 | 121 | 701 |
| Future Volume (vph) | 751 | 1079 | 909 | 121 | 121 | 701 |
| Turn Type | Prot | NA | NA | Perm | Prot | Perm |
| Protected Phases | 5 | 2 | 6 | | 4 | |
| Permitted Phases | | | | 6 | | 4 |
| Detector Phase | 5 | 2 | 6 | 6 | 4 | 4 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.0 | 11.0 | 41.6 | 41.6 | 30.5 | 30.5 |
| Total Split (s) | 39.0 | 86.0 | 47.0 | 47.0 | 34.0 | 34.0 |
| Total Split (%) | 32.5% | 71.7% | 39.2% | 39.2% | 28.3% | 28.3% |
| Yellow Time (s) | 3.0 | 5.0 | 5.0 | 5.0 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 |
| Lead/Lag | Lead | | Lag | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | Yes | | |
| Recall Mode | None | None | None | None | None | None |
| Act Effect Green (s) | 35.3 | 75.7 | 36.4 | 36.4 | 27.1 | 27.1 |
| Actuated g/C Ratio | 0.31 | 0.67 | 0.32 | 0.32 | 0.24 | 0.24 |
| v/c Ratio | 1.44 | 0.48 | 0.84 | 0.22 | 0.30 | 0.97 |
| Control Delay | 239.0 | 10.3 | 43.7 | 6.0 | 38.3 | 40.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 239.0 | 10.3 | 43.7 | 6.0 | 38.3 | 40.4 |
| LOS | F | B | D | A | D | D |
| Approach Delay | | 104.2 | 39.3 | | 40.1 | |
| Approach LOS | | F | D | | D | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 113.4

Natural Cycle: 115

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.44

Intersection Signal Delay: 71.7

Intersection LOS: E

Intersection Capacity Utilization 85.5%

ICU Level of Service E

Analysis Period (min) 15

Splits and Phases: 4: SR-74 & Trumble Rd.





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|-------|-------|------|-------|------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 751 | 1079 | 909 | 121 | 121 | 701 |
| Future Volume (veh/h) | 751 | 1079 | 909 | 121 | 121 | 701 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 808 | 1160 | 977 | 124 | 130 | 564 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 552 | 2352 | 1125 | 502 | 465 | 414 |
| Arrive On Green | 0.30 | 0.65 | 0.31 | 0.31 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1810 | 1610 |
| Grp Volume(v), veh/h | 808 | 1160 | 977 | 124 | 130 | 564 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1810 | 1610 |
| Q Serve(g_s), s | 35.0 | 18.9 | 29.3 | 6.6 | 6.6 | 29.5 |
| Cycle Q Clear(g_c), s | 35.0 | 18.9 | 29.3 | 6.6 | 6.6 | 29.5 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 552 | 2352 | 1125 | 502 | 465 | 414 |
| V/C Ratio(X) | 1.46 | 0.49 | 0.87 | 0.25 | 0.28 | 1.36 |
| Avail Cap(c_a), veh/h | 552 | 2516 | 1290 | 575 | 465 | 414 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 39.9 | 10.3 | 37.3 | 29.5 | 34.1 | 42.6 |
| Incr Delay (d2), s/veh | 218.7 | 0.2 | 5.9 | 0.3 | 0.1 | 178.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 48.1 | 6.3 | 13.1 | 2.5 | 2.8 | 43.5 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 258.6 | 10.4 | 43.2 | 29.7 | 34.2 | 220.8 |
| LnGrp LOS | F | B | D | C | C | F |
| Approach Vol, veh/h | 1968 | 1101 | | 694 | | |
| Approach Delay, s/veh | 112.3 | 41.7 | | 185.9 | | |
| Approach LOS | F | D | | F | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 80.8 | | 34.0 | 39.0 | 41.8 | |
| Change Period (Y+R _c), s | 6.0 | | 4.5 | 4.0 | 6.0 | |
| Max Green Setting (Gmax), s | 80.0 | | 29.5 | 35.0 | 41.0 | |
| Max Q Clear Time (g_c+l1), s | 20.9 | | 31.5 | 37.0 | 31.3 | |
| Green Ext Time (p_c), s | 9.7 | | 0.0 | 0.0 | 4.5 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 105.2 | | | | |
| HCM 6th LOS | | F | | | | |

| Intersection | | | | | | | | | | | | | | | |
|--------------------------|--------|-------|--------|------|--------|------|--------|-------|------|------|------|------|--|--|--|
| Int Delay, s/veh | 4.2 | | | | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | | | |
| Lane Configurations | ↔ | ↔ | ↔ | ↔ | ↑ | ↑ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | | | |
| Traffic Vol, veh/h | 131 | 461 | 24 | 11 | 282 | 4 | 8 | 33 | 21 | 2 | 24 | 107 | | | |
| Future Vol, veh/h | 131 | 461 | 24 | 11 | 282 | 4 | 8 | 33 | 21 | 2 | 24 | 107 | | | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | | | |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | | | |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None | | | |
| Storage Length | - | - | - | - | - | 0 | - | - | - | - | - | - | | | |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 1 | - | - | 1 | - | | | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | | | |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | | | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Mvmt Flow | 152 | 536 | 28 | 13 | 328 | 5 | 9 | 38 | 24 | 2 | 28 | 124 | | | |
| Major/Minor | Major1 | | Major2 | | Minor1 | | Minor2 | | | | | | | | |
| Conflicting Flow All | 333 | 0 | 0 | 564 | 0 | 0 | 1287 | 1213 | 554 | 1243 | 1222 | 328 | | | |
| Stage 1 | - | - | - | - | - | - | 854 | 854 | - | 354 | 354 | - | | | |
| Stage 2 | - | - | - | - | - | - | 433 | 359 | - | 889 | 868 | - | | | |
| Critical Hdwy | 4.1 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | | | |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - | | | |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - | | | |
| Follow-up Hdwy | 2.2 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | | | |
| Pot Cap-1 Maneuver | 1238 | - | - | 1018 | - | - | 142 | 183 | 536 | 153 | 181 | 718 | | | |
| Stage 1 | - | - | - | - | - | - | 356 | 378 | - | 667 | 634 | - | | | |
| Stage 2 | - | - | - | - | - | - | 605 | 631 | - | 341 | 372 | - | | | |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Mov Cap-1 Maneuver | 1238 | - | - | 1018 | - | - | 91 | 148 | 534 | 109 | 146 | 718 | | | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 180 | 233 | - | 180 | 235 | - | | | |
| Stage 1 | - | - | - | - | - | - | 292 | 310 | - | 547 | 624 | - | | | |
| Stage 2 | - | - | - | - | - | - | 470 | 621 | - | 233 | 305 | - | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | | | |
| HCM Control Delay, s | 1.8 | | | 0.3 | | | 22.7 | | | 15.2 | | | | | |
| HCM LOS | | | | | | | C | | | C | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | | | | |
| Capacity (veh/h) | 275 | 1238 | - | - | 1018 | - | - | 507 | | | | | | | |
| HCM Lane V/C Ratio | 0.262 | 0.123 | - | - | 0.013 | - | - | 0.305 | | | | | | | |
| HCM Control Delay (s) | 22.7 | 8.3 | 0 | - | 8.6 | 0 | - | 15.2 | | | | | | | |
| HCM Lane LOS | C | A | A | - | A | A | - | C | | | | | | | |
| HCM 95th %tile Q(veh) | 1 | 0.4 | - | - | 0 | - | - | 1.3 | | | | | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|------|------|
| Int Delay, s/veh | 0.6 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | ↑↑ | ↑↓ | | ↑ | |
| Traffic Vol, veh/h | 0 | 1191 | 874 | 44 | 16 | 79 |
| Future Vol, veh/h | 0 | 1191 | 874 | 44 | 16 | 79 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 1267 | 930 | 47 | 17 | 84 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | - | 0 | - | 0 | 1588 | 489 |
| Stage 1 | - | - | - | - | 954 | - |
| Stage 2 | - | - | - | - | 634 | - |
| Critical Hdwy | - | - | - | - | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 | - |
| Follow-up Hdwy | - | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 0 | - | - | - | 101 | 530 |
| Stage 1 | 0 | - | - | - | 339 | - |
| Stage 2 | 0 | - | - | - | 496 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | 101 | 530 |
| Mov Cap-2 Maneuver | - | - | - | - | 228 | - |
| Stage 1 | - | - | - | - | 339 | - |
| Stage 2 | - | - | - | - | 496 | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0 | 0 | 13.1 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBT | WBT | WBR | SBLn1 | | |
| Capacity (veh/h) | - | - | - | 530 | | |
| HCM Lane V/C Ratio | - | - | - | 0.159 | | |
| HCM Control Delay (s) | - | - | - | 13.1 | | |
| HCM Lane LOS | - | - | - | B | | |
| HCM 95th %tile Q(veh) | - | - | - | 0.6 | | |

**APPENDIX 6.2: OPENING YEAR CUMULATIVE (2024) WITH PROJECT
CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS**

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| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------|-------|------|-------|-------|-------|-------|
| Lane Configurations | ↑ ↗ | ↗ ↓ | ↖ ↗ | ↑ ↗ | ↑ ↗ | ↖ ↗ |
| Traffic Volume (vph) | 71 | 363 | 599 | 615 | 623 | 84 |
| Future Volume (vph) | 71 | 363 | 599 | 615 | 623 | 84 |
| Turn Type | Prot | Free | Prot | NA | NA | Perm |
| Protected Phases | 8 | | 1 | 6 | 2 | |
| Permitted Phases | | Free | | | | 2 |
| Detector Phase | 8 | | 1 | 6 | 2 | 2 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 22.6 | | 10.0 | 24.2 | 24.2 | 24.2 |
| Total Split (s) | 22.6 | | 27.0 | 67.4 | 40.4 | 40.4 |
| Total Split (%) | 25.1% | | 30.0% | 74.9% | 44.9% | 44.9% |
| Yellow Time (s) | 5.0 | | 4.0 | 5.0 | 5.0 | 5.0 |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.0 | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | Lead | | Lag | Lag | |
| Lead-Lag Optimize? | | Yes | | Yes | Yes | |
| Recall Mode | None | | None | None | None | None |
| Act Effect Green (s) | 7.7 | 73.9 | 22.8 | 58.8 | 29.0 | 29.0 |
| Actuated g/C Ratio | 0.10 | 1.00 | 0.31 | 0.80 | 0.39 | 0.39 |
| v/c Ratio | 0.39 | 0.23 | 1.11 | 0.42 | 0.86 | 0.13 |
| Control Delay | 40.2 | 0.3 | 102.4 | 4.7 | 34.5 | 9.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 40.2 | 0.3 | 102.4 | 4.7 | 34.5 | 9.3 |
| LOS | D | A | F | A | C | A |
| Approach Delay | 6.8 | | | 52.9 | 31.5 | |
| Approach LOS | A | | | D | C | |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 73.9

Natural Cycle: 100

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.11

Intersection Signal Delay: 38.0

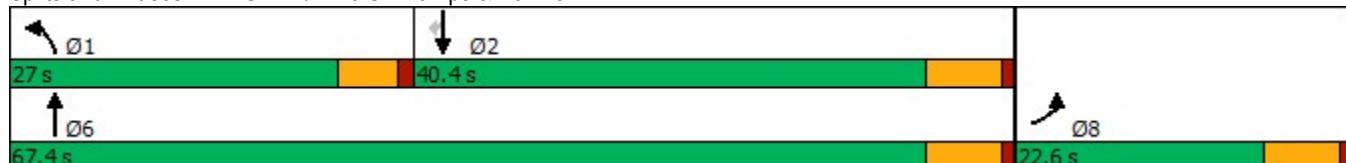
Intersection LOS: D

Intersection Capacity Utilization 84.3%

ICU Level of Service E

Analysis Period (min) 15

Splits and Phases: 1: SR-74/I-215 SB Ramps & Bonnie Dr.



HCM 6th Signalized Intersection Summary
1: SR-74/I-215 SB Ramps & Bonnie Dr.

Mapes & Sherman (JN 14804)
02/16/2023



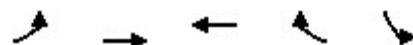
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 71 | 363 | 599 | 615 | 623 | 84 |
| Future Volume (veh/h) | 71 | 363 | 599 | 615 | 623 | 84 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | No | | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 73 | 0 | 618 | 634 | 642 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 99 | | 582 | 1463 | 713 | |
| Arrive On Green | 0.05 | 0.00 | 0.32 | 0.77 | 0.38 | 0.00 |
| Sat Flow, veh/h | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Grp Volume(v), veh/h | 73 | 0 | 618 | 634 | 642 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Q Serve(g_s), s | 2.7 | 0.0 | 22.0 | 7.9 | 21.8 | 0.0 |
| Cycle Q Clear(g_c), s | 2.7 | 0.0 | 22.0 | 7.9 | 21.8 | 0.0 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 99 | | 582 | 1463 | 713 | |
| V/C Ratio(X) | 0.74 | | 1.06 | 0.43 | 0.90 | |
| Avail Cap(c_a), veh/h | 439 | | 582 | 1704 | 955 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 31.9 | 0.0 | 23.2 | 2.7 | 20.2 | 0.0 |
| Incr Delay (d2), s/veh | 3.9 | 0.0 | 55.0 | 0.1 | 7.7 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.2 | 0.0 | 16.7 | 0.6 | 9.6 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 35.8 | 0.0 | 78.3 | 2.8 | 27.9 | 0.0 |
| LnGrp LOS | D | | F | A | C | |
| Approach Vol, veh/h | 73 | A | | 1252 | 642 | A |
| Approach Delay, s/veh | 35.8 | | | 40.1 | 27.9 | |
| Approach LOS | D | | | D | C | |
| Timer - Assigned Phs | 1 | 2 | | 6 | | 8 |
| Phs Duration (G+Y+R _c), s | 27.0 | 31.7 | | 58.7 | | 9.8 |
| Change Period (Y+R _c), s | 5.0 | 6.0 | | 6.0 | | 6.0 |
| Max Green Setting (Gmax), s | 22.0 | 34.4 | | 61.4 | | 16.6 |
| Max Q Clear Time (g_c+l1), s | 24.0 | 23.8 | | 9.9 | | 4.7 |
| Green Ext Time (p_c), s | 0.0 | 1.9 | | 2.3 | | 0.0 |

Intersection Summary

HCM 6th Ctrl Delay 35.9
HCM 6th LOS D

Notes

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



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|----------------------|-------|-------|-------|------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ |
| Traffic Volume (vph) | 58 | 929 | 1095 | 907 | 319 |
| Future Volume (vph) | 58 | 929 | 1095 | 907 | 319 |
| Turn Type | Prot | NA | NA | Free | Prot |
| Protected Phases | 5 | 2 | 6 | | 4 |
| Permitted Phases | | | | Free | |
| Detector Phase | 5 | 2 | 6 | | 4 |
| Switch Phase | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | | 5.0 |
| Minimum Split (s) | 10.3 | 22.5 | 22.5 | | 22.5 |
| Total Split (s) | 15.0 | 59.0 | 44.0 | | 31.0 |
| Total Split (%) | 16.7% | 65.6% | 48.9% | | 34.4% |
| Yellow Time (s) | 4.3 | 4.3 | 4.3 | | 4.3 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Lost Time (s) | 5.3 | 5.3 | 5.3 | | 5.3 |
| Lead/Lag | Lead | | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | | |
| Recall Mode | None | None | None | | None |
| Act Effect Green (s) | 7.4 | 39.1 | 29.7 | 73.6 | 23.0 |
| Actuated g/C Ratio | 0.10 | 0.53 | 0.40 | 1.00 | 0.31 |
| v/c Ratio | 0.34 | 0.52 | 0.80 | 0.60 | 0.83 |
| Control Delay | 41.4 | 11.6 | 25.2 | 1.6 | 39.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 41.4 | 11.6 | 25.2 | 1.6 | 39.7 |
| LOS | D | B | C | A | D |
| Approach Delay | | 13.4 | 14.5 | | 39.7 |
| Approach LOS | | B | B | | D |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 73.6

Natural Cycle: 65

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.83

Intersection Signal Delay: 17.4

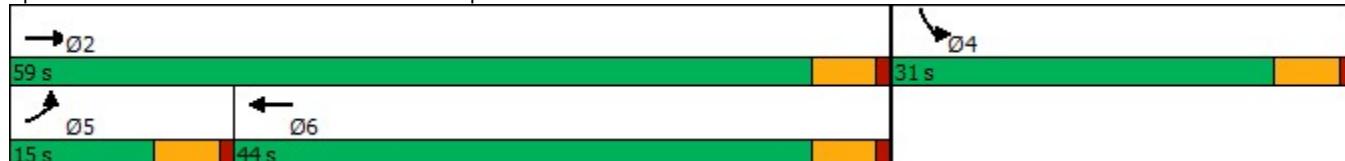
Intersection LOS: B

Intersection Capacity Utilization 72.7%

ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 2: SR-74 & I-215 NB Ramps





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ | |
| Traffic Volume (veh/h) | 58 | 929 | 1095 | 907 | 319 | 120 |
| Future Volume (veh/h) | 58 | 929 | 1095 | 907 | 319 | 120 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 62 | 988 | 1165 | 0 | 339 | 122 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 96 | 1933 | 1434 | | 378 | 136 |
| Arrive On Green | 0.05 | 0.54 | 0.40 | 0.00 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1286 | 463 |
| Grp Volume(v), veh/h | 62 | 988 | 1165 | 0 | 462 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1752 | 0 |
| Q Serve(g_s), s | 2.1 | 10.9 | 17.9 | 0.0 | 15.7 | 0.0 |
| Cycle Q Clear(g_c), s | 2.1 | 10.9 | 17.9 | 0.0 | 15.7 | 0.0 |
| Prop In Lane | 1.00 | | | 1.00 | 0.73 | 0.26 |
| Lane Grp Cap(c), veh/h | 96 | 1933 | 1434 | | 515 | 0 |
| V/C Ratio(X) | 0.65 | 0.51 | 0.81 | | 0.90 | 0.00 |
| Avail Cap(c_a), veh/h | 282 | 3118 | 2247 | | 724 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 28.9 | 9.2 | 16.7 | 0.0 | 21.0 | 0.0 |
| Incr Delay (d2), s/veh | 2.7 | 0.1 | 0.6 | 0.0 | 8.5 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.9 | 2.9 | 5.8 | 0.0 | 7.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 31.6 | 9.3 | 17.3 | 0.0 | 29.6 | 0.0 |
| LnGrp LOS | C | A | B | | C | A |
| Approach Vol, veh/h | 1050 | 1165 | A | 462 | | |
| Approach Delay, s/veh | 10.6 | 17.3 | | 29.6 | | |
| Approach LOS | B | B | | C | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 38.6 | | 23.6 | 8.6 | 30.0 | |
| Change Period (Y+R _c), s | 5.3 | | 5.3 | 5.3 | 5.3 | |
| Max Green Setting (Gmax), s | 53.7 | | 25.7 | 9.7 | 38.7 | |
| Max Q Clear Time (g_c+l1), s | 12.9 | | 17.7 | 4.1 | 19.9 | |
| Green Ext Time (p_c), s | 4.4 | | 0.6 | 0.0 | 4.8 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 16.8 | | | | |
| HCM 6th LOS | | B | | | | |
| Notes | | | | | | |
| User approved volume balancing among the lanes for turning movement. | | | | | | |
| Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay. | | | | | | |

Intersection

Intersection Delay, s/veh 23

Intersection LOS C

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 1 | 23 | 59 | 567 | 13 | 6 | 66 | 175 | 285 | 4 | 150 | 2 |
| Future Vol, veh/h | 1 | 23 | 59 | 567 | 13 | 6 | 66 | 175 | 285 | 4 | 150 | 2 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 26 | 66 | 637 | 15 | 7 | 74 | 197 | 320 | 4 | 169 | 2 |
| Number of Lanes | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 2 | 0 |
| Approach | | | | | | | | | | | | |
| Opposing Approach | WB | | WB | | NB | | SB | | | | | |
| Opposing Lanes | 3 | | 2 | | | | 3 | | | | | 3 |
| Conflicting Approach Left | SB | | NB | | | | EB | | | | | WB |
| Conflicting Lanes Left | 3 | | 3 | | | | 2 | | | | | 3 |
| Conflicting Approach Right | NB | | SB | | | | WB | | | | | EB |
| Conflicting Lanes Right | 3 | | 3 | | | | 3 | | | | | 2 |
| HCM Control Delay | 12.6 | | 26.5 | | 23.5 | | | | | 14 | | |
| HCM LOS | B | | D | | C | | | | | B | | |

| Lane | NBLn1 | NBLn2 | NBLn3 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | WBLn3 | SBLn1 | SBLn2 | SBLn3 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 0% | 8% | 0% | 100% | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 17% | 92% | 16% | 0% | 0% | 68% | 0% | 100% | 96% |
| Vol Right, % | 0% | 0% | 83% | 0% | 84% | 0% | 0% | 32% | 0% | 0% | 4% |
| Sign Control | Stop |
| Traffic Vol by Lane | 66 | 117 | 343 | 13 | 71 | 284 | 284 | 19 | 4 | 100 | 52 |
| LT Vol | 66 | 0 | 0 | 1 | 0 | 284 | 284 | 0 | 4 | 0 | 0 |
| Through Vol | 0 | 117 | 58 | 12 | 12 | 0 | 0 | 13 | 0 | 100 | 50 |
| RT Vol | 0 | 0 | 285 | 0 | 59 | 0 | 0 | 6 | 0 | 0 | 2 |
| Lane Flow Rate | 74 | 131 | 386 | 14 | 79 | 319 | 319 | 21 | 4 | 112 | 58 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.169 | 0.28 | 0.76 | 0.034 | 0.18 | 0.698 | 0.698 | 0.043 | 0.011 | 0.271 | 0.141 |
| Departure Headway (Hd) | 8.192 | 7.684 | 7.095 | 8.791 | 8.165 | 7.893 | 7.893 | 7.17 | 9.2 | 8.69 | 8.662 |
| Convergence, Y/N | Yes |
| Cap | 438 | 468 | 509 | 406 | 438 | 459 | 459 | 499 | 388 | 412 | 413 |
| Service Time | 5.942 | 5.434 | 4.844 | 6.563 | 5.937 | 5.646 | 5.646 | 4.922 | 6.969 | 6.458 | 6.43 |
| HCM Lane V/C Ratio | 0.169 | 0.28 | 0.758 | 0.034 | 0.18 | 0.695 | 0.695 | 0.042 | 0.01 | 0.272 | 0.14 |
| HCM Control Delay | 12.6 | 13.4 | 29.1 | 11.9 | 12.7 | 27 | 27 | 10.2 | 12.1 | 14.7 | 12.9 |
| HCM Lane LOS | B | B | D | B | B | D | D | B | B | B | B |
| HCM 95th-tile Q | 0.6 | 1.1 | 6.6 | 0.1 | 0.6 | 5.3 | 5.3 | 0.1 | 0 | 1.1 | 0.5 |



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 565 | 684 | 1055 | 103 | 110 | 946 |
| Future Volume (vph) | 565 | 684 | 1055 | 103 | 110 | 946 |
| Turn Type | Prot | NA | NA | Perm | Prot | Perm |
| Protected Phases | 5 | 2 | 6 | | 4 | |
| Permitted Phases | | | | 6 | | 4 |
| Detector Phase | 5 | 2 | 6 | 6 | 4 | 4 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.0 | 11.0 | 41.6 | 41.6 | 30.5 | 30.5 |
| Total Split (s) | 35.0 | 80.0 | 45.0 | 45.0 | 40.0 | 40.0 |
| Total Split (%) | 29.2% | 66.7% | 37.5% | 37.5% | 33.3% | 33.3% |
| Yellow Time (s) | 3.0 | 5.0 | 5.0 | 5.0 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 |
| Lead/Lag | Lead | | Lag | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | Yes | | |
| Recall Mode | None | None | None | None | None | None |
| Act Effect Green (s) | 31.0 | 73.3 | 38.3 | 38.3 | 35.5 | 35.5 |
| Actuated g/C Ratio | 0.26 | 0.61 | 0.32 | 0.32 | 0.30 | 0.30 |
| v/c Ratio | 1.24 | 0.32 | 0.94 | 0.19 | 0.21 | 1.19 |
| Control Delay | 164.0 | 11.5 | 55.0 | 8.8 | 33.0 | 119.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 164.0 | 11.5 | 55.0 | 8.8 | 33.0 | 119.1 |
| LOS | F | B | D | A | C | F |
| Approach Delay | | 80.5 | 50.9 | | 110.2 | |
| Approach LOS | | F | D | | F | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 119.3

Natural Cycle: 115

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.24

Intersection Signal Delay: 79.6

Intersection LOS: E

Intersection Capacity Utilization 96.6%

ICU Level of Service F

Analysis Period (min) 15

Splits and Phases: 4: SR-74 & Trumble Rd.





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|-------|-------|------|-------|------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 565 | 684 | 1055 | 103 | 110 | 946 |
| Future Volume (veh/h) | 565 | 684 | 1055 | 103 | 110 | 946 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 0.98 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 582 | 705 | 1088 | 103 | 113 | 784 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 470 | 2218 | 1159 | 504 | 538 | 479 |
| Arrive On Green | 0.26 | 0.61 | 0.32 | 0.32 | 0.30 | 0.30 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1571 | 1810 | 1610 |
| Grp Volume(v), veh/h | 582 | 705 | 1088 | 103 | 113 | 784 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1571 | 1810 | 1610 |
| Q Serve(g_s), s | 31.0 | 11.2 | 34.9 | 5.7 | 5.6 | 35.5 |
| Cycle Q Clear(g_c), s | 31.0 | 11.2 | 34.9 | 5.7 | 5.6 | 35.5 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 470 | 2218 | 1159 | 504 | 538 | 479 |
| V/C Ratio(X) | 1.24 | 0.32 | 0.94 | 0.20 | 0.21 | 1.64 |
| Avail Cap(c_a), veh/h | 470 | 2239 | 1180 | 514 | 538 | 479 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 44.1 | 11.0 | 39.4 | 29.4 | 31.4 | 41.9 |
| Incr Delay (d2), s/veh | 124.2 | 0.1 | 13.9 | 0.2 | 0.1 | 295.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 29.4 | 4.0 | 16.8 | 2.1 | 2.4 | 66.4 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 168.3 | 11.1 | 53.3 | 29.6 | 31.5 | 337.6 |
| LnGrp LOS | F | B | D | C | C | F |
| Approach Vol, veh/h | 1287 | 1191 | | 897 | | |
| Approach Delay, s/veh | 82.2 | 51.2 | | 299.0 | | |
| Approach LOS | F | D | | F | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 79.3 | | 40.0 | 35.0 | 44.3 | |
| Change Period (Y+R _c), s | 6.0 | | 4.5 | 4.0 | 6.0 | |
| Max Green Setting (Gmax), s | 74.0 | | 35.5 | 31.0 | 39.0 | |
| Max Q Clear Time (g_c+l1), s | 13.2 | | 37.5 | 33.0 | 36.9 | |
| Green Ext Time (p_c), s | 4.8 | | 0.0 | 0.0 | 1.4 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 128.9 | | | | |
| HCM 6th LOS | | F | | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | | ↑ | ↑↑ | Y | |
| Traffic Vol, veh/h | 299 | 14 | 0 | 581 | 6 | 0 |
| Future Vol, veh/h | 299 | 14 | 0 | 581 | 6 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 1 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 325 | 15 | 0 | 632 | 7 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 340 | 0 | 649 | 170 |
| Stage 1 | - | - | - | - | 333 | - |
| Stage 2 | - | - | - | - | 316 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 1230 | - | 407 | 851 |
| Stage 1 | - | - | - | - | 704 | - |
| Stage 2 | - | - | - | - | 718 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1230 | - | 407 | 851 |
| Mov Cap-2 Maneuver | - | - | - | - | 510 | - |
| Stage 1 | - | - | - | - | 704 | - |
| Stage 2 | - | - | - | - | 718 | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0 | 12.2 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT | |
| Capacity (veh/h) | 510 | - | - | 1230 | - | |
| HCM Lane V/C Ratio | 0.013 | - | - | - | - | |
| HCM Control Delay (s) | 12.2 | - | - | 0 | - | |
| HCM Lane LOS | B | - | - | A | - | |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|------|------|
| Int Delay, s/veh | 0 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | | | ↑↑ | | ↗ |
| Traffic Vol, veh/h | 293 | 5 | 0 | 581 | 0 | 0 |
| Future Vol, veh/h | 293 | 5 | 0 | 581 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 318 | 5 | 0 | 632 | 0 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | - | - | - | 162 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.3 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 861 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | - | 861 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0 | 0 | | | |
| HCM LOS | | | A | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT | | |
| Capacity (veh/h) | - | - | - | - | | |
| HCM Lane V/C Ratio | - | - | - | - | | |
| HCM Control Delay (s) | 0 | - | - | - | | |
| HCM Lane LOS | A | - | - | - | | |
| HCM 95th %tile Q(veh) | - | - | - | - | | |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|-------|--------|------|--------|------|--------|-------|------|------|------|------|
| Int Delay, s/veh | 3.7 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↑↓ | ↑↓ | ↑↓ | ↑↓ | ↑↓ | ↑↓ | ↑↓ | ↑↓ | ↑↓ | ↑↓ | ↑↓ | ↑↓ |
| Traffic Vol, veh/h | 64 | 182 | 47 | 13 | 464 | 2 | 3 | 23 | 17 | 5 | 26 | 114 |
| Future Vol, veh/h | 64 | 182 | 47 | 13 | 464 | 2 | 3 | 23 | 17 | 5 | 26 | 114 |
| Conflicting Peds, #/hr | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 1 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 1 | - | - | 1 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 70 | 198 | 51 | 14 | 504 | 2 | 3 | 25 | 18 | 5 | 28 | 124 |
| Major/Minor | Major1 | | Major2 | | Minor1 | | Minor2 | | | | | |
| Conflicting Flow All | 510 | 0 | 0 | 251 | 0 | 0 | 976 | 904 | 228 | 923 | 927 | 509 |
| Stage 1 | - | - | - | - | - | - | 366 | 366 | - | 536 | 536 | - |
| Stage 2 | - | - | - | - | - | - | 610 | 538 | - | 387 | 391 | - |
| Critical Hdwy | 4.1 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - |
| Follow-up Hdwy | 2.2 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 |
| Pot Cap-1 Maneuver | 1065 | - | - | 1326 | - | - | 232 | 279 | 816 | 252 | 270 | 568 |
| Stage 1 | - | - | - | - | - | - | 657 | 626 | - | 532 | 527 | - |
| Stage 2 | - | - | - | - | - | - | 485 | 526 | - | 641 | 611 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1061 | - | - | 1323 | - | - | 158 | 252 | 813 | 215 | 244 | 565 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 233 | 341 | - | 332 | 354 | - |
| Stage 1 | - | - | - | - | - | - | 605 | 577 | - | 489 | 517 | - |
| Stage 2 | - | - | - | - | - | - | 352 | 516 | - | 552 | 563 | - |
| Approach | EB | | WB | | NB | | SB | | | | | |
| HCM Control Delay, s | 1.9 | | 0.2 | | 14.5 | | 15.5 | | | | | |
| HCM LOS | | | | | B | | C | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | 425 | 1061 | - | - | 1323 | - | - | 500 | | | | |
| HCM Lane V/C Ratio | 0.11 | 0.066 | - | - | 0.011 | - | - | 0.315 | | | | |
| HCM Control Delay (s) | 14.5 | 8.6 | 0 | - | 7.8 | 0 | - | 15.5 | | | | |
| HCM Lane LOS | B | A | A | - | A | A | - | C | | | | |
| HCM 95th %tile Q(veh) | 0.4 | 0.2 | - | - | 0 | - | - | 1.3 | | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|------|------|
| Int Delay, s/veh | 0.2 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | T | ↑ | ↑ | |
| Traffic Vol, veh/h | 0 | 2 | 2 | 43 | 84 | 2 |
| Future Vol, veh/h | 0 | 2 | 2 | 43 | 84 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | 50 | - | - | - |
| Veh in Median Storage, # | 1 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 2 | 2 | 47 | 91 | 2 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 143 | 92 | 93 | 0 | - | 0 |
| Stage 1 | 92 | - | - | - | - | - |
| Stage 2 | 51 | - | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 854 | 971 | 1514 | - | - | - |
| Stage 1 | 937 | - | - | - | - | - |
| Stage 2 | 977 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 853 | 971 | 1514 | - | - | - |
| Mov Cap-2 Maneuver | 824 | - | - | - | - | - |
| Stage 1 | 936 | - | - | - | - | - |
| Stage 2 | 977 | - | - | - | - | - |
| Approach | EB | NB | SB | | | |
| HCM Control Delay, s | 8.7 | 0.3 | 0 | | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
| Capacity (veh/h) | 1514 | - | 971 | - | - | |
| HCM Lane V/C Ratio | 0.001 | - | 0.002 | - | - | |
| HCM Control Delay (s) | 7.4 | - | 8.7 | - | - | |
| HCM Lane LOS | A | - | A | - | - | |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|------|------|
| Int Delay, s/veh | 0.2 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | T | ↑ | ↑ | |
| Traffic Vol, veh/h | 0 | 2 | 2 | 45 | 80 | 6 |
| Future Vol, veh/h | 0 | 2 | 2 | 45 | 80 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | 50 | - | - | - |
| Veh in Median Storage, # | 1 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 2 | 2 | 49 | 87 | 7 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 144 | 91 | 94 | 0 | - | 0 |
| Stage 1 | 91 | - | - | - | - | - |
| Stage 2 | 53 | - | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 853 | 972 | 1513 | - | - | - |
| Stage 1 | 938 | - | - | - | - | - |
| Stage 2 | 975 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 852 | 972 | 1513 | - | - | - |
| Mov Cap-2 Maneuver | 824 | - | - | - | - | - |
| Stage 1 | 937 | - | - | - | - | - |
| Stage 2 | 975 | - | - | - | - | - |
| Approach | EB | NB | SB | | | |
| HCM Control Delay, s | 8.7 | 0.3 | 0 | | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
| Capacity (veh/h) | 1513 | - | 972 | - | - | |
| HCM Lane V/C Ratio | 0.001 | - | 0.002 | - | - | |
| HCM Control Delay (s) | 7.4 | - | 8.7 | - | - | |
| HCM Lane LOS | A | - | A | - | - | |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|------|------|
| Int Delay, s/veh | 1.1 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 747 | 990 | 22 | 24 | 113 |
| Future Vol, veh/h | 0 | 747 | 990 | 22 | 24 | 113 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 795 | 1053 | 23 | 26 | 120 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | - | 0 | - | 0 | 1463 | 538 |
| Stage 1 | - | - | - | - | 1065 | - |
| Stage 2 | - | - | - | - | 398 | - |
| Critical Hdwy | - | - | - | - | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 | - |
| Follow-up Hdwy | - | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 0 | - | - | - | 122 | 493 |
| Stage 1 | 0 | - | - | - | 297 | - |
| Stage 2 | 0 | - | - | - | 653 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | 122 | 493 |
| Mov Cap-2 Maneuver | - | - | - | - | 232 | - |
| Stage 1 | - | - | - | - | 297 | - |
| Stage 2 | - | - | - | - | 653 | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0 | 0 | 14.6 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBT | WBT | WBR | SBLn1 | | |
| Capacity (veh/h) | - | - | - | 493 | | |
| HCM Lane V/C Ratio | - | - | - | 0.244 | | |
| HCM Control Delay (s) | - | - | - | 14.6 | | |
| HCM Lane LOS | - | - | - | B | | |
| HCM 95th %tile Q(veh) | - | - | - | 0.9 | | |



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------|-------|------|-------|-------|-------|-------|
| Lane Configurations | ↑ ↗ | ↗ ↓ | ↖ ↗ | ↑ ↗ | ↗ ↓ | ↖ ↗ |
| Traffic Volume (vph) | 134 | 417 | 492 | 499 | 1013 | 81 |
| Future Volume (vph) | 134 | 417 | 492 | 499 | 1013 | 81 |
| Turn Type | Prot | Free | Prot | NA | NA | Perm |
| Protected Phases | 8 | | 1 | 6 | 2 | |
| Permitted Phases | | Free | | | | 2 |
| Detector Phase | 8 | | 1 | 6 | 2 | 2 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 22.6 | | 10.0 | 24.2 | 24.2 | 24.2 |
| Total Split (s) | 22.6 | | 19.0 | 67.4 | 48.4 | 48.4 |
| Total Split (%) | 25.1% | | 21.1% | 74.9% | 53.8% | 53.8% |
| Yellow Time (s) | 5.0 | | 4.0 | 5.0 | 5.0 | 5.0 |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.0 | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | Lead | | Lag | Lag | |
| Lead-Lag Optimize? | | Yes | | Yes | Yes | |
| Recall Mode | None | | None | None | None | None |
| Act Effect Green (s) | 11.1 | 84.6 | 14.0 | 61.5 | 42.5 | 42.5 |
| Actuated g/C Ratio | 0.13 | 1.00 | 0.17 | 0.73 | 0.50 | 0.50 |
| v/c Ratio | 0.61 | 0.28 | 1.77 | 0.39 | 1.14 | 0.11 |
| Control Delay | 46.0 | 0.4 | 385.4 | 5.8 | 99.9 | 8.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 46.0 | 0.4 | 385.4 | 5.8 | 99.9 | 8.9 |
| LOS | D | A | F | A | F | A |
| Approach Delay | 11.5 | | | 194.2 | 93.2 | |
| Approach LOS | B | | | F | F | |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 84.6

Natural Cycle: 120

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.77

Intersection Signal Delay: 114.1

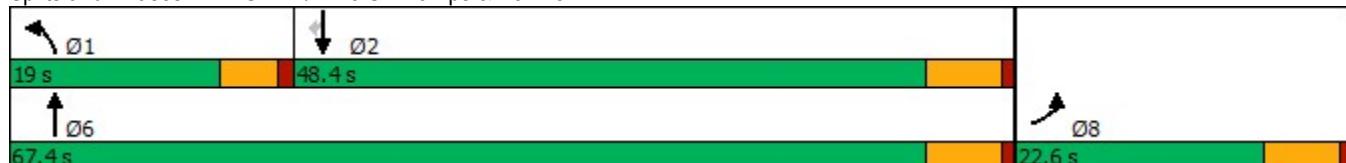
Intersection LOS: F

Intersection Capacity Utilization 102.2%

ICU Level of Service G

Analysis Period (min) 15

Splits and Phases: 1: SR-74/I-215 SB Ramps & Bonnie Dr.

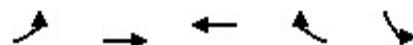


HCM 6th Signalized Intersection Summary
1: SR-74/I-215 SB Ramps & Bonnie Dr.

Mapes & Sherman (JN 14804)
02/16/2023



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|------|------|-------|-------|------|------|
| Lane Configurations | ↑ ↗ | ↗ ↓ | ↖ ↗ | ↑ ↗ | ↑ ↗ | ↖ ↗ |
| Traffic Volume (veh/h) | 134 | 417 | 492 | 499 | 1013 | 81 |
| Future Volume (veh/h) | 134 | 417 | 492 | 499 | 1013 | 81 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | No | | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 144 | 0 | 529 | 537 | 1089 | 0 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 180 | | 311 | 1431 | 988 | |
| Arrive On Green | 0.10 | 0.00 | 0.17 | 0.75 | 0.52 | 0.00 |
| Sat Flow, veh/h | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Grp Volume(v), veh/h | 144 | 0 | 529 | 537 | 1089 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1610 | 1810 | 1900 | 1900 | 1610 |
| Q Serve(g_s), s | 6.3 | 0.0 | 14.0 | 7.9 | 42.4 | 0.0 |
| Cycle Q Clear(g_c), s | 6.3 | 0.0 | 14.0 | 7.9 | 42.4 | 0.0 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 180 | | 311 | 1431 | 988 | |
| V/C Ratio(X) | 0.80 | | 1.70 | 0.38 | 1.10 | |
| Avail Cap(c_a), veh/h | 368 | | 311 | 1431 | 988 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 35.9 | 0.0 | 33.8 | 3.5 | 19.6 | 0.0 |
| Incr Delay (d2), s/veh | 3.1 | 0.0 | 329.5 | 0.1 | 60.8 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 2.7 | 0.0 | 34.1 | 1.4 | 31.7 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 39.0 | 0.0 | 363.2 | 3.5 | 80.3 | 0.0 |
| LnGrp LOS | D | | F | A | F | |
| Approach Vol, veh/h | 144 | A | | 1066 | 1089 | A |
| Approach Delay, s/veh | 39.0 | | | 182.0 | 80.3 | |
| Approach LOS | D | | | F | F | |
| Timer - Assigned Phs | 1 | 2 | | 6 | | 8 |
| Phs Duration (G+Y+R _c), s | 19.0 | 48.4 | | 67.4 | | 14.1 |
| Change Period (Y+R _c), s | 5.0 | 6.0 | | 6.0 | | 6.0 |
| Max Green Setting (Gmax), s | 14.0 | 42.4 | | 61.4 | | 16.6 |
| Max Q Clear Time (g_c+l1), s | 16.0 | 44.4 | | 9.9 | | 8.3 |
| Green Ext Time (p_c), s | 0.0 | 0.0 | | 1.9 | | 0.1 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 124.9 | | | |
| HCM 6th LOS | | | F | | | |
| Notes | | | | | | |
| Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay. | | | | | | |



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|----------------------|-------|-------|-------|------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑↑ |
| Traffic Volume (vph) | 51 | 1380 | 866 | 775 | 464 |
| Future Volume (vph) | 51 | 1380 | 866 | 775 | 464 |
| Turn Type | Prot | NA | NA | Free | Prot |
| Protected Phases | 5 | 2 | 6 | | 4 |
| Permitted Phases | | | | Free | |
| Detector Phase | 5 | 2 | 6 | | 4 |
| Switch Phase | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | | 5.0 |
| Minimum Split (s) | 10.3 | 22.5 | 22.5 | | 22.5 |
| Total Split (s) | 13.0 | 54.0 | 41.0 | | 36.0 |
| Total Split (%) | 14.4% | 60.0% | 45.6% | | 40.0% |
| Yellow Time (s) | 4.3 | 4.3 | 4.3 | | 4.3 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Lost Time (s) | 5.3 | 5.3 | 5.3 | | 5.3 |
| Lead/Lag | Lead | | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | | |
| Recall Mode | None | None | None | | None |
| Act Effect Green (s) | 6.6 | 39.2 | 32.1 | 80.9 | 31.0 |
| Actuated g/C Ratio | 0.08 | 0.48 | 0.40 | 1.00 | 0.38 |
| v/c Ratio | 0.38 | 0.87 | 0.67 | 0.53 | 0.94 |
| Control Delay | 45.4 | 24.3 | 23.6 | 1.2 | 49.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 45.4 | 24.3 | 23.6 | 1.2 | 49.1 |
| LOS | D | C | C | A | D |
| Approach Delay | | 25.1 | 13.0 | | 49.1 |
| Approach LOS | | C | B | | D |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 80.9

Natural Cycle: 80

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.94

Intersection Signal Delay: 23.5

Intersection LOS: C

Intersection Capacity Utilization 80.3%

ICU Level of Service D

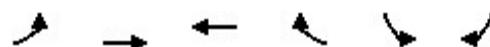
Analysis Period (min) 15

Splits and Phases: 2: SR-74 & I-215 NB Ramps



HCM 6th Signalized Intersection Summary
2: SR-74 & I-215 NB Ramps

Mapes & Sherman (JN 14804)
02/16/2023



| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 51 | 1380 | 866 | 775 | 464 | 124 |
| Future Volume (veh/h) | 51 | 1380 | 866 | 775 | 464 | 124 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 56 | 1516 | 952 | 0 | 510 | 123 |
| Peak Hour Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 82 | 1752 | 1342 | | 537 | 130 |
| Arrive On Green | 0.05 | 0.49 | 0.37 | 0.00 | 0.38 | 0.38 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1422 | 343 |
| Grp Volume(v), veh/h | 56 | 1516 | 952 | 0 | 634 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1767 | 0 |
| Q Serve(g_s), s | 2.4 | 28.9 | 17.4 | 0.0 | 27.0 | 0.0 |
| Cycle Q Clear(g_c), s | 2.4 | 28.9 | 17.4 | 0.0 | 27.0 | 0.0 |
| Prop In Lane | 1.00 | | | 1.00 | 0.80 | 0.19 |
| Lane Grp Cap(c), veh/h | 82 | 1752 | 1342 | | 668 | 0 |
| V/C Ratio(X) | 0.68 | 0.87 | 0.71 | | 0.95 | 0.00 |
| Avail Cap(c_a), veh/h | 180 | 2270 | 1664 | | 700 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 36.4 | 17.7 | 20.8 | 0.0 | 23.4 | 0.0 |
| Incr Delay (d2), s/veh | 3.7 | 2.5 | 0.7 | 0.0 | 21.5 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.1 | 10.1 | 6.4 | 0.0 | 14.6 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 40.2 | 20.2 | 21.5 | 0.0 | 44.9 | 0.0 |
| LnGrp LOS | D | C | C | | D | A |
| Approach Vol, veh/h | 1572 | 952 | A | 634 | | |
| Approach Delay, s/veh | 20.9 | 21.5 | | 44.9 | | |
| Approach LOS | C | C | | D | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 42.9 | | 34.6 | 8.8 | 34.1 | |
| Change Period (Y+R _c), s | 5.3 | | 5.3 | 5.3 | 5.3 | |
| Max Green Setting (Gmax), s | 48.7 | | 30.7 | 7.7 | 35.7 | |
| Max Q Clear Time (g_c+l1), s | 30.9 | | 29.0 | 4.4 | 19.4 | |
| Green Ext Time (p_c), s | 6.7 | | 0.3 | 0.0 | 3.6 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 25.9 | | | | |
| HCM 6th LOS | | C | | | | |
| Notes | | | | | | |
| User approved volume balancing among the lanes for turning movement. | | | | | | |
| Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay. | | | | | | |

Intersection

Intersection Delay, s/veh 97.7

Intersection LOS F

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | ↔↔ | ↑↑ | ↔↔ | ↑↑ | ↔ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ | ↑↑ |
| Traffic Vol, veh/h | 0 | 6 | 6 | 409 | 1 | 11 | 11 | 119 | 567 | 55 | 233 | 2 |
| Future Vol, veh/h | 0 | 6 | 6 | 409 | 1 | 11 | 11 | 119 | 567 | 55 | 233 | 2 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 7 | 7 | 493 | 1 | 13 | 13 | 143 | 683 | 66 | 281 | 2 |
| Number of Lanes | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 2 | 0 |
| Approach | EB | | WB | | NB | | | SB | | | | |
| Opposing Approach | WB | | EB | | SB | | | NB | | | | |
| Opposing Lanes | 3 | | 2 | | 3 | | | 3 | | | | |
| Conflicting Approach Left | SB | | NB | | EB | | | WB | | | | |
| Conflicting Lanes Left | 3 | | 3 | | 2 | | | 3 | | | | |
| Conflicting Approach Right | NB | | SB | | WB | | | EB | | | | |
| Conflicting Lanes Right | 3 | | 3 | | 3 | | | 2 | | | | |
| HCM Control Delay | 12.3 | | 22 | | 179.1 | | | 15.6 | | | | |
| HCM LOS | B | | C | | F | | | C | | | | |

| Lane | NBLn1 | NBLn2 | NBLn3 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | WBLn3 | SBLn1 | SBLn2 | SBLn3 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 7% | 100% | 25% | 0% | 0% | 8% | 0% | 100% | 97% |
| Vol Right, % | 0% | 0% | 93% | 0% | 75% | 0% | 0% | 92% | 0% | 0% | 3% |
| Sign Control | Stop |
| Traffic Vol by Lane | 11 | 79 | 607 | 4 | 8 | 205 | 205 | 12 | 55 | 155 | 80 |
| LT Vol | 11 | 0 | 0 | 0 | 0 | 205 | 205 | 0 | 55 | 0 | 0 |
| Through Vol | 0 | 79 | 40 | 4 | 2 | 0 | 0 | 1 | 0 | 155 | 78 |
| RT Vol | 0 | 0 | 567 | 0 | 6 | 0 | 0 | 11 | 0 | 0 | 2 |
| Lane Flow Rate | 13 | 96 | 731 | 5 | 10 | 246 | 246 | 14 | 66 | 187 | 96 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.029 | 0.198 | 1.383 | 0.012 | 0.023 | 0.562 | 0.562 | 0.028 | 0.157 | 0.418 | 0.214 |
| Departure Headway (Hd) | 7.981 | 7.474 | 6.812 | 9.754 | 9.229 | 8.846 | 8.846 | 7.695 | 9.151 | 8.641 | 8.623 |
| Convergence, Y/N | Yes |
| Cap | 448 | 479 | 534 | 369 | 390 | 411 | 411 | 468 | 394 | 419 | 418 |
| Service Time | 5.748 | 5.241 | 4.578 | 7.454 | 6.929 | 6.546 | 6.546 | 5.395 | 6.851 | 6.341 | 6.323 |
| HCM Lane V/C Ratio | 0.029 | 0.2 | 1.369 | 0.014 | 0.026 | 0.599 | 0.599 | 0.03 | 0.168 | 0.446 | 0.23 |
| HCM Control Delay | 11 | 12.1 | 204 | 12.6 | 12.1 | 22.3 | 22.3 | 10.6 | 13.5 | 17.4 | 13.7 |
| HCM Lane LOS | B | B | F | B | B | C | C | B | B | C | B |
| HCM 95th-tile Q | 0.1 | 0.7 | 33.2 | 0 | 0.1 | 3.3 | 3.3 | 0.1 | 0.6 | 2 | 0.8 |



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 763 | 1079 | 925 | 121 | 127 | 717 |
| Future Volume (vph) | 763 | 1079 | 925 | 121 | 127 | 717 |
| Turn Type | Prot | NA | NA | Perm | Prot | Perm |
| Protected Phases | 5 | 2 | 6 | | 4 | |
| Permitted Phases | | | | 6 | | 4 |
| Detector Phase | 5 | 2 | 6 | 6 | 4 | 4 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.0 | 11.0 | 41.6 | 41.6 | 30.5 | 30.5 |
| Total Split (s) | 39.0 | 86.0 | 47.0 | 47.0 | 34.0 | 34.0 |
| Total Split (%) | 32.5% | 71.7% | 39.2% | 39.2% | 28.3% | 28.3% |
| Yellow Time (s) | 3.0 | 5.0 | 5.0 | 5.0 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 |
| Lead/Lag | Lead | | Lag | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | Yes | | |
| Recall Mode | None | None | None | None | None | None |
| Act Effect Green (s) | 35.1 | 76.4 | 37.3 | 37.3 | 28.8 | 28.8 |
| Actuated g/C Ratio | 0.30 | 0.66 | 0.32 | 0.32 | 0.25 | 0.25 |
| v/c Ratio | 1.50 | 0.49 | 0.86 | 0.22 | 0.31 | 0.98 |
| Control Delay | 265.0 | 10.7 | 45.0 | 6.4 | 38.4 | 42.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 265.0 | 10.7 | 45.0 | 6.4 | 38.4 | 42.8 |
| LOS | F | B | D | A | D | D |
| Approach Delay | | 116.0 | 40.5 | | 42.1 | |
| Approach LOS | | F | D | | D | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 115.7

Natural Cycle: 115

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.50

Intersection Signal Delay: 78.1

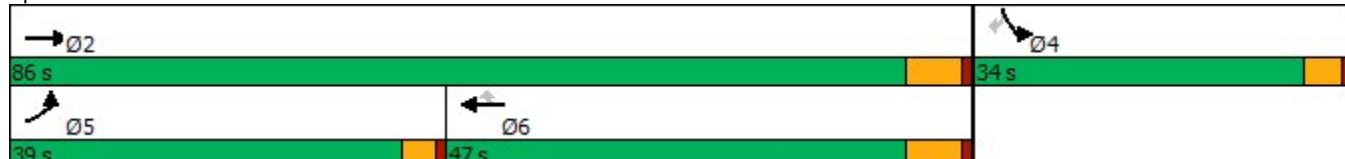
Intersection LOS: E

Intersection Capacity Utilization 87.0%

ICU Level of Service E

Analysis Period (min) 15

Splits and Phases: 4: SR-74 & Trumble Rd.





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|-------|-------|-------|------|-------|-------|
| Lane Configurations | ↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 763 | 1079 | 925 | 121 | 127 | 717 |
| Future Volume (veh/h) | 763 | 1079 | 925 | 121 | 127 | 717 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 820 | 1160 | 995 | 124 | 137 | 581 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 549 | 2358 | 1138 | 507 | 463 | 412 |
| Arrive On Green | 0.30 | 0.65 | 0.32 | 0.32 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1810 | 3705 | 3705 | 1610 | 1810 | 1610 |
| Grp Volume(v), veh/h | 820 | 1160 | 995 | 124 | 137 | 581 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1805 | 1805 | 1610 | 1810 | 1610 |
| Q Serve(g_s), s | 35.0 | 18.9 | 30.1 | 6.6 | 7.0 | 29.5 |
| Cycle Q Clear(g_c), s | 35.0 | 18.9 | 30.1 | 6.6 | 7.0 | 29.5 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 549 | 2358 | 1138 | 507 | 463 | 412 |
| V/C Ratio(X) | 1.49 | 0.49 | 0.87 | 0.24 | 0.30 | 1.41 |
| Avail Cap(c_a), veh/h | 549 | 2504 | 1283 | 572 | 463 | 412 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 40.2 | 10.2 | 37.3 | 29.3 | 34.6 | 42.9 |
| Incr Delay (d2), s/veh | 231.6 | 0.2 | 6.4 | 0.2 | 0.1 | 198.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 49.9 | 6.3 | 13.5 | 2.5 | 3.0 | 45.8 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 271.8 | 10.4 | 43.8 | 29.6 | 34.7 | 241.8 |
| LnGrp LOS | F | B | D | C | C | F |
| Approach Vol, veh/h | | 1980 | 1119 | | 718 | |
| Approach Delay, s/veh | | 118.6 | 42.2 | | 202.3 | |
| Approach LOS | | F | D | | F | |
| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
| Phs Duration (G+Y+R _c), s | | 81.4 | | 34.0 | 39.0 | 42.4 |
| Change Period (Y+R _c), s | | 6.0 | | 4.5 | 4.0 | 6.0 |
| Max Green Setting (Gmax), s | | 80.0 | | 29.5 | 35.0 | 41.0 |
| Max Q Clear Time (g_c+l1), s | | 20.9 | | 31.5 | 37.0 | 32.1 |
| Green Ext Time (p_c), s | | 9.7 | | 0.0 | 0.0 | 4.3 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 112.0 | | | |
| HCM 6th LOS | | | F | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|------|------|
| Int Delay, s/veh | 0.3 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | | ↑ | ↑↑ | Y | |
| Traffic Vol, veh/h | 622 | 6 | 0 | 400 | 21 | 0 |
| Future Vol, veh/h | 622 | 6 | 0 | 400 | 21 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 1 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 676 | 7 | 0 | 435 | 23 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 683 | 0 | 898 | 342 |
| Stage 1 | - | - | - | - | 680 | - |
| Stage 2 | - | - | - | - | 218 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | - | - | 919 | - | 283 | 660 |
| Stage 1 | - | - | - | - | 470 | - |
| Stage 2 | - | - | - | - | 803 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 919 | - | 283 | 660 |
| Mov Cap-2 Maneuver | - | - | - | - | 384 | - |
| Stage 1 | - | - | - | - | 470 | - |
| Stage 2 | - | - | - | - | 803 | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0 | 15 | | | |
| HCM LOS | | | C | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT | |
| Capacity (veh/h) | 384 | - | - | 919 | - | |
| HCM Lane V/C Ratio | 0.059 | - | - | - | - | |
| HCM Control Delay (s) | 15 | - | - | 0 | - | |
| HCM Lane LOS | C | - | - | A | - | |
| HCM 95th %tile Q(veh) | 0.2 | - | - | 0 | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|------|------|
| Int Delay, s/veh | 0 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑↑ | | | ↑↑ | | ↗ |
| Traffic Vol, veh/h | 619 | 3 | 0 | 400 | 0 | 0 |
| Future Vol, veh/h | 619 | 3 | 0 | 400 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 673 | 3 | 0 | 435 | 0 | 0 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | - | - | - | 338 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | - | - | - | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.3 |
| Pot Cap-1 Maneuver | - | - | 0 | - | 0 | 664 |
| Stage 1 | - | - | 0 | - | 0 | - |
| Stage 2 | - | - | 0 | - | 0 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | - | 664 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0 | 0 | | | |
| HCM LOS | | | A | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBT | | |
| Capacity (veh/h) | - | - | - | - | | |
| HCM Lane V/C Ratio | - | - | - | - | | |
| HCM Control Delay (s) | 0 | - | - | - | | |
| HCM Lane LOS | A | - | - | - | | |
| HCM 95th %tile Q(veh) | - | - | - | - | | |

| Intersection | | | | | | | | | | | | | | | |
|--------------------------|--------|-------|--------|------|--------|------|--------|-------|------|------|------|------|--|--|--|
| Int Delay, s/veh | 4.2 | | | | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | | | |
| Lane Configurations | | | | | | | | | | | | | | | |
| Traffic Vol, veh/h | 131 | 461 | 28 | 11 | 282 | 4 | 10 | 33 | 21 | 2 | 24 | 107 | | | |
| Future Vol, veh/h | 131 | 461 | 28 | 11 | 282 | 4 | 10 | 33 | 21 | 2 | 24 | 107 | | | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | | | |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop | | | |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None | | | |
| Storage Length | - | - | - | - | - | 0 | - | - | - | - | - | - | | | |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 1 | - | - | 1 | - | | | |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | | | |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | | | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Mvmt Flow | 152 | 536 | 33 | 13 | 328 | 5 | 12 | 38 | 24 | 2 | 28 | 124 | | | |
| Major/Minor | Major1 | | Major2 | | Minor1 | | Minor2 | | | | | | | | |
| Conflicting Flow All | 333 | 0 | 0 | 569 | 0 | 0 | 1290 | 1216 | 557 | 1246 | 1227 | 328 | | | |
| Stage 1 | - | - | - | - | - | - | 857 | 857 | - | 354 | 354 | - | | | |
| Stage 2 | - | - | - | - | - | - | 433 | 359 | - | 892 | 873 | - | | | |
| Critical Hdwy | 4.1 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | | | |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - | | | |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - | | | |
| Follow-up Hdwy | 2.2 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | | | |
| Pot Cap-1 Maneuver | 1238 | - | - | 1013 | - | - | 142 | 183 | 534 | 152 | 180 | 718 | | | |
| Stage 1 | - | - | - | - | - | - | 355 | 377 | - | 667 | 634 | - | | | |
| Stage 2 | - | - | - | - | - | - | 605 | 631 | - | 339 | 370 | - | | | |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Mov Cap-1 Maneuver | 1238 | - | - | 1013 | - | - | 91 | 148 | 532 | 108 | 145 | 718 | | | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 180 | 233 | - | 179 | 234 | - | | | |
| Stage 1 | - | - | - | - | - | - | 291 | 309 | - | 547 | 624 | - | | | |
| Stage 2 | - | - | - | - | - | - | 470 | 621 | - | 231 | 303 | - | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | | | |
| HCM Control Delay, s | 1.8 | | | 0.3 | | | 23.3 | | | 15.2 | | | | | |
| HCM LOS | | | | | | | C | | | C | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | | | | |
| Capacity (veh/h) | 270 | 1238 | - | - | 1013 | - | - | 506 | | | | | | | |
| HCM Lane V/C Ratio | 0.276 | 0.123 | - | - | 0.013 | - | - | 0.306 | | | | | | | |
| HCM Control Delay (s) | 23.3 | 8.3 | 0 | - | 8.6 | 0 | - | 15.2 | | | | | | | |
| HCM Lane LOS | C | A | A | - | A | A | - | C | | | | | | | |
| HCM 95th %tile Q(veh) | 1.1 | 0.4 | - | - | 0 | - | - | 1.3 | | | | | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | T | ↑ | ↑ | |
| Traffic Vol, veh/h | 0 | 7 | 1 | 64 | 62 | 1 |
| Future Vol, veh/h | 0 | 7 | 1 | 64 | 62 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | 50 | - | - | - |
| Veh in Median Storage, # | 1 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 8 | 1 | 70 | 67 | 1 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 140 | 68 | 68 | 0 | - | 0 |
| Stage 1 | 68 | - | - | - | - | - |
| Stage 2 | 72 | - | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 858 | 1001 | 1546 | - | - | - |
| Stage 1 | 960 | - | - | - | - | - |
| Stage 2 | 956 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 857 | 1001 | 1546 | - | - | - |
| Mov Cap-2 Maneuver | 828 | - | - | - | - | - |
| Stage 1 | 959 | - | - | - | - | - |
| Stage 2 | 956 | - | - | - | - | - |
| Approach | EB | NB | | SB | | |
| HCM Control Delay, s | 8.6 | 0.1 | | 0 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
| Capacity (veh/h) | 1546 | - | 1001 | - | - | |
| HCM Lane V/C Ratio | 0.001 | - | 0.008 | - | - | |
| HCM Control Delay (s) | 7.3 | - | 8.6 | - | - | |
| HCM Lane LOS | A | - | A | - | - | |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | T | ↑ | R | |
| Traffic Vol, veh/h | 2 | 9 | 1 | 63 | 66 | 3 |
| Future Vol, veh/h | 2 | 9 | 1 | 63 | 66 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | 50 | - | - | - |
| Veh in Median Storage, # | 1 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 2 | 10 | 1 | 68 | 72 | 3 |
| Major/Minor | Minor2 | Major1 | | Major2 | | |
| Conflicting Flow All | 144 | 74 | 75 | 0 | - | 0 |
| Stage 1 | 74 | - | - | - | - | - |
| Stage 2 | 70 | - | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 853 | 993 | 1537 | - | - | - |
| Stage 1 | 954 | - | - | - | - | - |
| Stage 2 | 958 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 852 | 993 | 1537 | - | - | - |
| Mov Cap-2 Maneuver | 825 | - | - | - | - | - |
| Stage 1 | 953 | - | - | - | - | - |
| Stage 2 | 958 | - | - | - | - | - |
| Approach | EB | NB | | SB | | |
| HCM Control Delay, s | 8.8 | 0.1 | | 0 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
| Capacity (veh/h) | 1537 | - | 958 | - | - | |
| HCM Lane V/C Ratio | 0.001 | - | 0.012 | - | - | |
| HCM Control Delay (s) | 7.3 | - | 8.8 | - | - | |
| HCM Lane LOS | A | - | A | - | - | |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 1197 | 874 | 46 | 16 | 95 |
| Future Vol, veh/h | 0 | 1197 | 874 | 46 | 16 | 95 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 1273 | 930 | 49 | 17 | 101 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | - | 0 | - | 0 | 1592 | 490 |
| Stage 1 | - | - | - | - | 955 | - |
| Stage 2 | - | - | - | - | 637 | - |
| Critical Hdwy | - | - | - | - | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.8 | - |
| Follow-up Hdwy | - | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 0 | - | - | - | 100 | 529 |
| Stage 1 | 0 | - | - | - | 339 | - |
| Stage 2 | 0 | - | - | - | 494 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | - | - | 100 | 529 |
| Mov Cap-2 Maneuver | - | - | - | - | 227 | - |
| Stage 1 | - | - | - | - | 339 | - |
| Stage 2 | - | - | - | - | 494 | - |
| Approach | EB | WB | SB | | | |
| HCM Control Delay, s | 0 | 0 | 13.4 | | | |
| HCM LOS | | | B | | | |
| Minor Lane/Major Mvmt | EBT | WBT | WBR | SBLn1 | | |
| Capacity (veh/h) | - | - | - | 529 | | |
| HCM Lane V/C Ratio | - | - | - | 0.191 | | |
| HCM Control Delay (s) | - | - | - | 13.4 | | |
| HCM Lane LOS | - | - | - | B | | |
| HCM 95th %tile Q(veh) | - | - | - | 0.7 | | |

**APPENDIX 6.3: OPENING YEAR CUMULATIVE (2024) WITHOUT
PROJECT CONDITIONS TRAFFIC SIGNAL WARRANT ANALYSIS
WORKSHEETS**

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

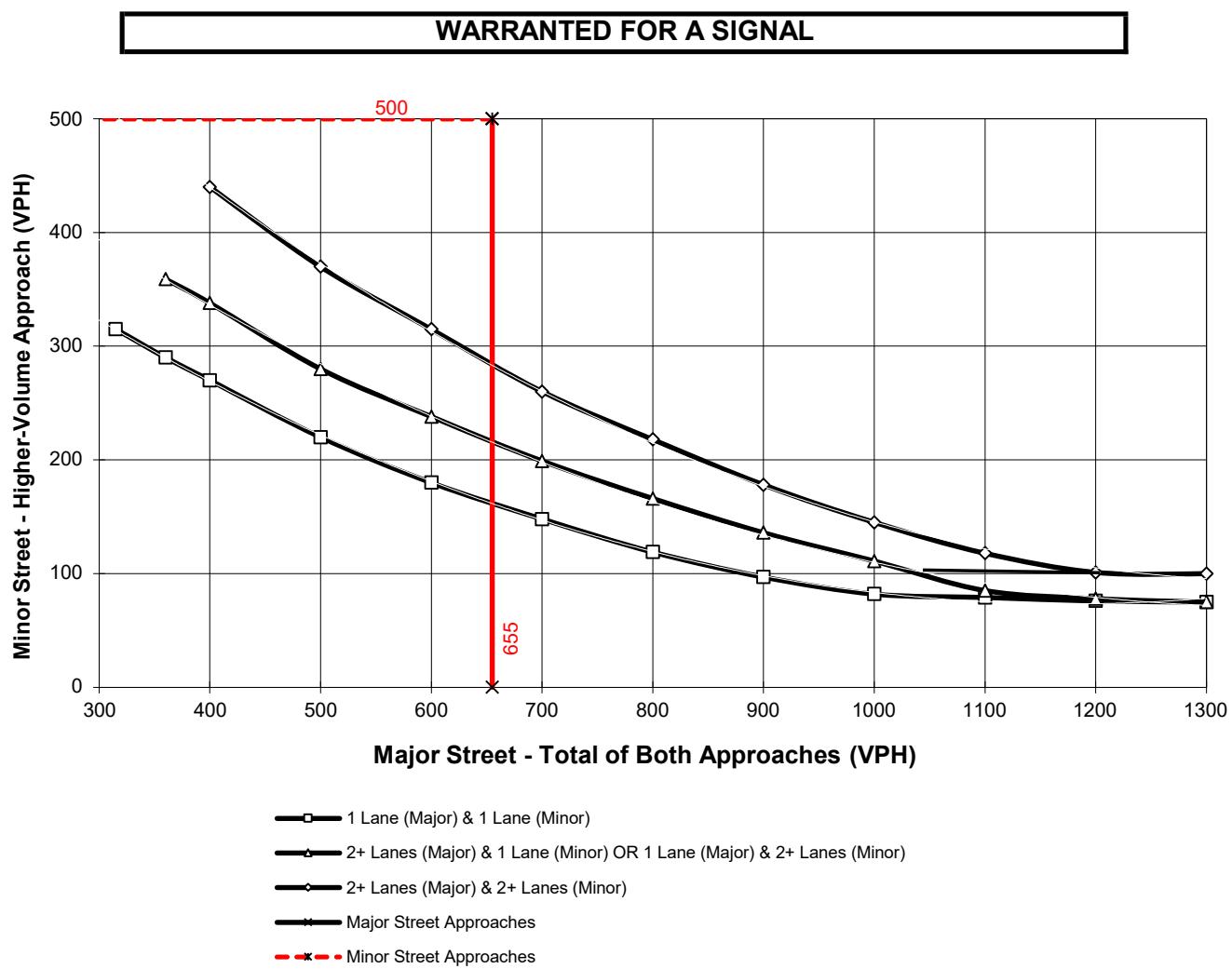
Traffic Conditions = **2024 Without Project Conditions - Weekday AM Peak Hour**

Major Street Name = **Trumble Rd.**

Total of Both Approaches (VPH) = **655**
Number of Approach Lanes Major Street = **2**

Minor Street Name = **Mapes Rd.**

High Volume Approach (VPH) = **581**
Number of Approach Lanes Minor Street = **1**



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes
and 75 vph applies as the lower threshold for a minor-street approach with one lane

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **2024 Without Project Conditions - Weekday PM Peak Hour**

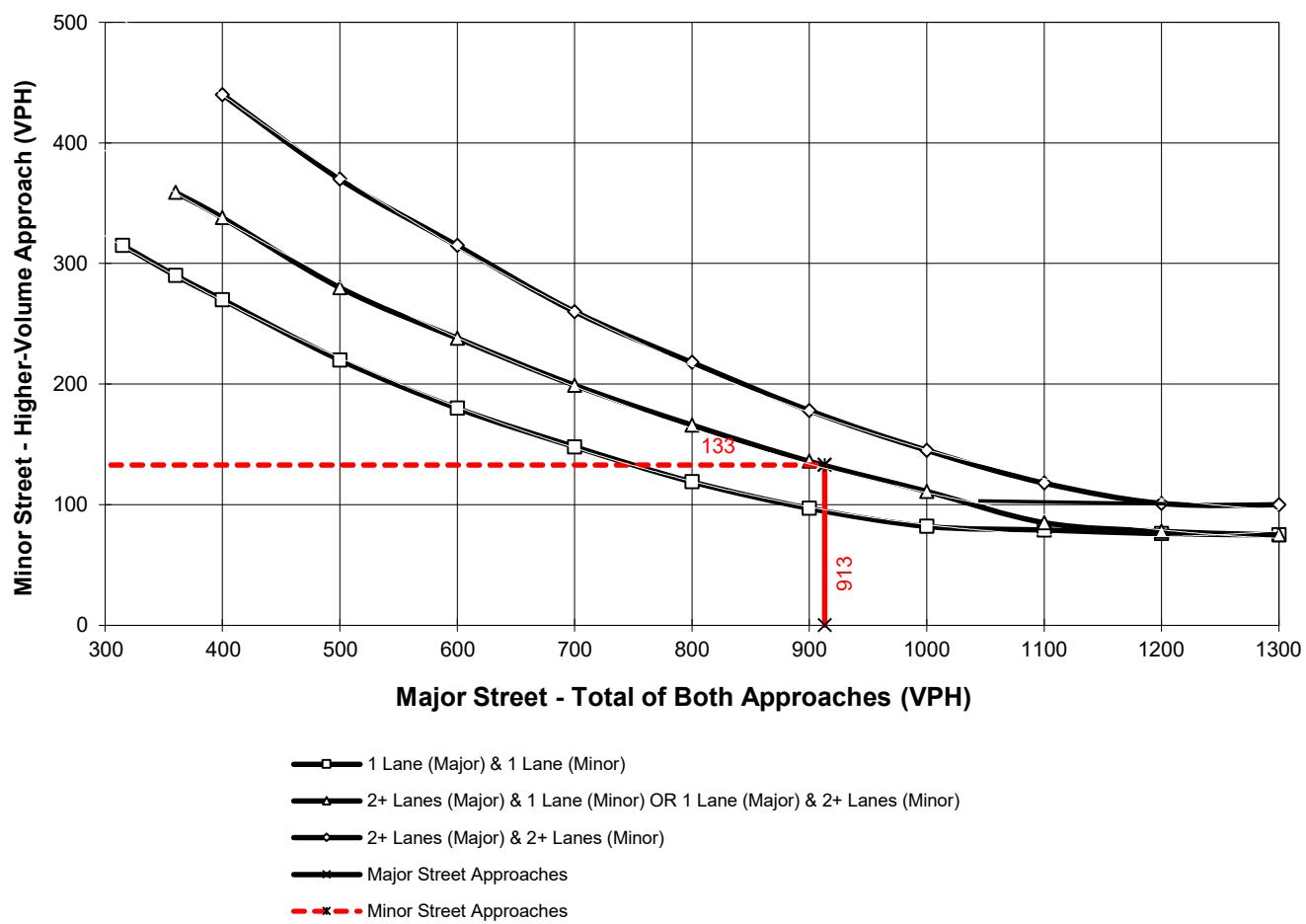
Major Street Name = **Mapes Rd.**

Total of Both Approaches (VPH) = **913**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Sherman Rd.**

High Volume Approach (VPH) = **133**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

**APPENDIX 6.4: OPENING YEAR CUMULATIVE (2024) WITH PROJECT
CONDITIONS TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS**

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**Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)**

| | | | | | | |
|---|----|-----|----|--|---|---------|
| DIST | CO | RTE | PM | CALC | TRAFFIC CONDITIONS | 2024 WP |
| Jurisdiction: <u>City of Menifee</u> | | | | CALC <u>JB</u> | DATE <u>04/21/23</u> | |
| Major Street: <u>Mapes Rd.</u> | | | | CHK <u>JB</u> | DATE <u>04/21/23</u> | |
| Minor Street: <u>Driveway 1</u> | | | | | Critical Approach Speed (Major) <u>45 mph</u> | |
| | | | | | Critical Approach Speed (Minor) <u>25 mph</u> | |
| Major Street Approach Lanes = <u>1</u> lane | | | | Minor Street Approach Lanes <u>1</u> lane | | |
| Major Street Future ADT = <u>11,309</u> vpd | | | | Minor Street Future ADT = <u>136</u> vpd | | |
| Speed limit or critical speed on major street traffic > 64 km/h (40 mph); | | | | <input type="checkbox"/> or RURAL (R) | | |
| In built up area of isolated community of < 10,000 population | | | | <input type="checkbox"/> | | |

(Based on Estimated Average Daily Traffic - See Note)

| <u>URBAN</u> | | <u>RURAL</u> | | Minimum Requirements | | | |
|--|---------------------|----------------------|--------------|---|--------------|--|--------------|
| | | <u>XX</u> | | EADT | | | |
| <u>CONDITION A - Minimum Vehicular Volume</u> | | <u>Satisfied</u> | | Vehicles Per Day on Major Street (Total of Both Approaches) | | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) | |
| <u>Major Street</u> | <u>Minor Street</u> | <u>Urban</u> | <u>Rural</u> | <u>Urban</u> | <u>Rural</u> | <u>Urban</u> | <u>Rural</u> |
| <u>1 11,309</u> | <u>1 136</u> | 8,000 | 5,600 * | 2,400 | 1,680 | | |
| <u>2 +</u> | <u>1</u> | 9,600 | 6,720 | 2,400 | 1,680 | | |
| <u>2 +</u> | <u>2 +</u> | 9,600 | 6,720 | 3,200 | 2,240 | | |
| <u>1</u> | <u>2 +</u> | 8,000 | 5,600 | 3,200 | 2,240 | | |
| <u>CONDITION B - Interruption of Continuous Traffic</u> | | <u>Satisfied</u> | | Vehicles Per Day on Major Street (Total of Both Approaches) | | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) | |
| <u>Major Street</u> | <u>Minor Street</u> | <u>Urban</u> | <u>Rural</u> | <u>Urban</u> | <u>Rural</u> | <u>Urban</u> | <u>Rural</u> |
| <u>1 11,309</u> | <u>1 136</u> | 12,000 | 8,400 * | 1,200 | 850 | | |
| <u>2 +</u> | <u>1</u> | 14,400 | 10,080 | 1,200 | 850 | | |
| <u>2 +</u> | <u>2 +</u> | 14,400 | 10,080 | 1,600 | 1,120 | | |
| <u>1</u> | <u>2 +</u> | 12,000 | 8,400 | 1,600 | 1,120 | | |
| <u>Combination of CONDITIONS A + B</u> | | <u>Satisfied</u> | | 2 CONDITIONS 80% | | 2 CONDITIONS 80% | |
| | | <u>Not Satisfied</u> | | | | | |
| | | <u>XX</u> | | | | | |
| No one condition satisfied, but following conditions fulfilled 80% or more | | <u>A</u> | <u>B</u> | | | | |
| | | <u>8%</u> | <u>16%</u> | | | | |

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

**Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)**

| | | | | | | |
|---|----|-----|----|--|---|---------|
| DIST | CO | RTE | PM | CALC | TRAFFIC CONDITIONS | 2024 WP |
| Jurisdiction: City of Menifee | | | | CALC JB | DATE 02/16/23 | |
| Major Street: Sherman Rd. | | | | CHK JB | DATE 02/16/23 | |
| Minor Street: Driveway 3 | | | | | Critical Approach Speed (Major) 40 mph | |
| | | | | | Critical Approach Speed (Minor) 25 mph | |
| Major Street Approach Lanes = 1 lane | | | | Minor Street Approach Lanes 1 lane | | |
| Major Street Future ADT = 1,475 vpd | | | | Minor Street Future ADT = 55 vpd | | |
| Speed limit or critical speed on major street traffic > 64 km/h (40 mph); | | | | <input type="checkbox"/> or RURAL (R) | | |
| In built up area of isolated community of < 10,000 population | | | | <input type="checkbox"/> | | |

(Based on Estimated Average Daily Traffic - See Note)

| URBAN XX CONDITION A - Minimum Vehicular Volume | | RURAL | | Minimum Requirements | | | |
|--|--|----------------------|-----------|---|--------|--|-------|
| | | | | EADT | | | |
| <u>Satisfied</u> | | <u>Not Satisfied</u> | | Vehicles Per Day on Major Street (Total of Both Approaches) | | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) | |
| Number of lanes for moving traffic on each approach | | | | Urban | Rural | Urban | Rural |
| Major Street | | Minor Street | | 8,000 | 5,600 | 2,400 | 1,680 |
| 1 1,475 | | 1 55 | | 9,600 | 6,720 | 2,400 | 1,680 |
| 2 + | | 1 | | 9,600 | 6,720 | 3,200 | 2,240 |
| 2 + | | 2 + | | 8,000 | 5,600 | 3,200 | 2,240 |
| 1 | | 2 + | | | | | |
| CONDITION B - Interruption of Continuous Traffic | | | | Vehicles Per Day on Major Street (Total of Both Approaches) | | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) | |
| | | <u>Satisfied</u> | | | | | |
| Number of lanes for moving traffic on each approach | | | | Urban | Rural | Urban | Rural |
| Major Street | | Minor Street | | 12,000 | 8,400 | 1,200 | 850 |
| 1 1,475 | | 1 55 | | 14,400 | 10,080 | 1,200 | 850 |
| 2 + | | 1 | | 14,400 | 10,080 | 1,600 | 1,120 |
| 2 + | | 2 + | | 12,000 | 8,400 | 1,600 | 1,120 |
| 1 | | 2 + | | | | | |
| Combination of CONDITIONS A + B | | | | | | | |
| | | <u>Satisfied</u> | | <u>Not Satisfied</u> | | | |
| No one condition satisfied, but following conditions fulfilled 80% or more | | A | B | 2 CONDITIONS 80% | | 2 CONDITIONS 80% | |
| | | 2% | 5% | | | | |

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

**Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)**

| | | | | | |
|---|----|-----|----|---|----------------------|
| DIST | CO | RTE | PM | TRAFFIC CONDITIONS | 2024 WP |
| Jurisdiction: City of Menifee | | | | CALC JB | DATE 02/16/23 |
| Major Street: Sherman Rd. | | | | CHK JB | DATE 02/16/23 |
| Minor Street: Driveway 4 | | | | Critical Approach Speed (Major) 40 mph | |
| | | | | Critical Approach Speed (Minor) 25 mph | |
| Major Street Approach Lanes = 1 lane | | | | Minor Street Approach Lanes 1 lane | |
| Major Street Future ADT = 1,521 vpd | | | | Minor Street Future ADT = 81 vpd | |
| Speed limit or critical speed on major street traffic > 64 km/h (40 mph); | | | | <input type="checkbox"/> | or RURAL (R) |
| In built up area of isolated community of < 10,000 population | | | | <input type="checkbox"/> | |

(Based on Estimated Average Daily Traffic - See Note)

| URBAN XX | RURAL XX | Minimum Requirements | | | |
|--|---------------------------|---|--------------|---|--------------|
| | | EADT | | Vehicles Per Day | |
| CONDITION A - Minimum Vehicular Volume | | Vehicles Per Day on Major Street | | on Higher-Volume Minor Street Approach (One Direction Only) | |
| <u>Satisfied</u> | <u>Not Satisfied</u> | <u>Urban</u> | <u>Rural</u> | <u>Urban</u> | <u>Rural</u> |
| Number of lanes for moving traffic on each approach | | | | | |
| Major Street | Minor Street | | | | |
| 1 1,521 | 1 81 | 8,000 | 5,600 | 2,400 | 1,680 |
| 2 + | 1 | 9,600 | 6,720 | 2,400 | 1,680 |
| 2 + | 2 + | 9,600 | 6,720 | 3,200 | 2,240 |
| 1 | 2 + | 8,000 | 5,600 | 3,200 | 2,240 |
| CONDITION B - Interruption of Continuous Traffic | | Vehicles Per Day on Major Street | | Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) | |
| <u>Satisfied</u> | <u>Not Satisfied</u> | <u>(Total of Both Approaches)</u> | | <u>(One Direction Only)</u> | |
| Number of lanes for moving traffic on each approach | | | | | |
| Major Street | Minor Street | | | | |
| 1 1,521 | 1 81 | 12,000 | 8,400 | 1,200 | 850 |
| 2 + | 1 | 14,400 | 10,080 | 1,200 | 850 |
| 2 + | 2 + | 14,400 | 10,080 | 1,600 | 1,120 |
| 1 | 2 + | 12,000 | 8,400 | 1,600 | 1,120 |
| Combination of CONDITIONS A + B | | | | | |
| <u>Satisfied</u> | <u>Not Satisfied</u> | | | | |
| XX | | | | | |
| No one condition satisfied, but following conditions fulfilled 80% or more | | 2 CONDITIONS 80% | | 2 CONDITIONS 80% | |
| | | A | B | | |
| | | 3% | 7% | | |

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

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**APPENDIX 6.5: OPENING YEAR CUMULATIVE (2024) WITHOUT
PROJECT CONDITIONS OFF-RAMP QUEUING ANALYSIS WORKSHEETS**

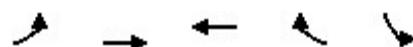
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| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|-------------------------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 73 | 372 | 616 | 631 | 627 | 87 |
| v/c Ratio | 0.39 | 0.23 | 1.09 | 0.42 | 0.86 | 0.13 |
| Control Delay | 39.8 | 0.3 | 95.5 | 4.7 | 34.5 | 9.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 39.8 | 0.3 | 95.5 | 4.7 | 34.5 | 9.2 |
| Queue Length 50th (ft) | 34 | 0 | ~374 | 90 | 264 | 12 |
| Queue Length 95th (ft) | 76 | 0 | #624 | 166 | #467 | 41 |
| Internal Link Dist (ft) | 1025 | | | 1452 | 226 | |
| Turn Bay Length (ft) | | 50 | 120 | | | 100 |
| Base Capacity (vph) | 426 | 1615 | 565 | 1567 | 929 | 813 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.17 | 0.23 | 1.09 | 0.40 | 0.67 | 0.11 |

Intersection Summary

- ~ 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.



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|-------------------------|------|------|------|------|------|
| Lane Group Flow (vph) | 62 | 970 | 1161 | 960 | 457 |
| v/c Ratio | 0.34 | 0.50 | 0.80 | 0.59 | 0.82 |
| Control Delay | 41.2 | 11.4 | 25.0 | 1.6 | 38.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 41.2 | 11.4 | 25.0 | 1.6 | 38.8 |
| Queue Length 50th (ft) | 30 | 146 | 267 | 0 | 194 |
| Queue Length 95th (ft) | 72 | 190 | 363 | 0 | #413 |
| Internal Link Dist (ft) | | 1452 | 714 | | 376 |
| Turn Bay Length (ft) | 245 | | | 150 | |
| Base Capacity (vph) | 261 | 2645 | 2090 | 1615 | 691 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.24 | 0.37 | 0.56 | 0.59 | 0.66 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

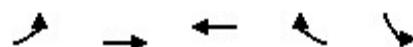
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|-------------------------|------|------|-------|------|------|------|
| Lane Group Flow (vph) | 144 | 447 | 526 | 524 | 1082 | 87 |
| v/c Ratio | 0.61 | 0.28 | 1.76 | 0.38 | 1.13 | 0.11 |
| Control Delay | 46.0 | 0.4 | 381.1 | 5.7 | 97.0 | 8.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 46.0 | 0.4 | 381.1 | 5.7 | 97.0 | 8.9 |
| Queue Length 50th (ft) | 73 | 0 | ~420 | 85 | ~676 | 15 |
| Queue Length 95th (ft) | 131 | 0 | #651 | 165 | #990 | 42 |
| Internal Link Dist (ft) | 1025 | | | 1452 | 226 | |
| Turn Bay Length (ft) | | 50 | 120 | | | 100 |
| Base Capacity (vph) | 355 | 1615 | 299 | 1381 | 954 | 825 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.41 | 0.28 | 1.76 | 0.38 | 1.13 | 0.11 |

Intersection Summary

- ~ 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.



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|-------------------------|------|------|------|------|------|
| Lane Group Flow (vph) | 56 | 1508 | 935 | 833 | 640 |
| v/c Ratio | 0.38 | 0.86 | 0.66 | 0.52 | 0.93 |
| Control Delay | 45.2 | 24.2 | 23.4 | 1.2 | 47.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 45.2 | 24.2 | 23.4 | 1.2 | 47.2 |
| Queue Length 50th (ft) | 27 | 334 | 218 | 0 | 301 |
| Queue Length 95th (ft) | 69 | 424 | 289 | 0 | #602 |
| Internal Link Dist (ft) | | 1452 | 714 | | 376 |
| Turn Bay Length (ft) | 245 | | | 150 | |
| Base Capacity (vph) | 173 | 2198 | 1611 | 1615 | 691 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.32 | 0.69 | 0.58 | 0.52 | 0.93 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

**APPENDIX 6.6: OPENING YEAR CUMULATIVE (2024) WITH PROJECT
CONDITIONS OFF-RAMP QUEUING ANALYSIS WORKSHEETS**

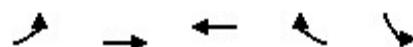
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| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|-------------------------|------|------|-------|------|------|------|
| Lane Group Flow (vph) | 73 | 374 | 618 | 634 | 642 | 87 |
| v/c Ratio | 0.39 | 0.23 | 1.11 | 0.42 | 0.86 | 0.13 |
| Control Delay | 40.2 | 0.3 | 102.4 | 4.7 | 34.5 | 9.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 40.2 | 0.3 | 102.4 | 4.7 | 34.5 | 9.3 |
| Queue Length 50th (ft) | 35 | 0 | ~391 | 90 | 274 | 12 |
| Queue Length 95th (ft) | 76 | 0 | #627 | 168 | #486 | 41 |
| Internal Link Dist (ft) | 1025 | | | 1452 | 226 | |
| Turn Bay Length (ft) | | 50 | 120 | | | 100 |
| Base Capacity (vph) | 420 | 1615 | 557 | 1554 | 916 | 802 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.17 | 0.23 | 1.11 | 0.41 | 0.70 | 0.11 |

Intersection Summary

- ~ 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.



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|-------------------------|------|------|------|------|------|
| Lane Group Flow (vph) | 62 | 988 | 1165 | 965 | 467 |
| v/c Ratio | 0.34 | 0.52 | 0.80 | 0.60 | 0.83 |
| Control Delay | 41.4 | 11.6 | 25.2 | 1.6 | 39.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 41.4 | 11.6 | 25.2 | 1.6 | 39.7 |
| Queue Length 50th (ft) | 30 | 150 | 269 | 0 | 202 |
| Queue Length 95th (ft) | 72 | 195 | 364 | 0 | #428 |
| Internal Link Dist (ft) | | 1452 | 714 | | 376 |
| Turn Bay Length (ft) | 245 | | | 150 | |
| Base Capacity (vph) | 258 | 2632 | 2063 | 1615 | 683 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.24 | 0.38 | 0.56 | 0.60 | 0.68 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

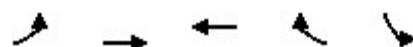
Queue shown is maximum after two cycles.



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|-------------------------|------|------|-------|------|------|------|
| Lane Group Flow (vph) | 144 | 448 | 529 | 537 | 1089 | 87 |
| v/c Ratio | 0.61 | 0.28 | 1.77 | 0.39 | 1.14 | 0.11 |
| Control Delay | 46.0 | 0.4 | 385.4 | 5.8 | 99.9 | 8.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 46.0 | 0.4 | 385.4 | 5.8 | 99.9 | 8.9 |
| Queue Length 50th (ft) | 73 | 0 | ~424 | 89 | ~684 | 15 |
| Queue Length 95th (ft) | 131 | 0 | #654 | 171 | #998 | 42 |
| Internal Link Dist (ft) | 1025 | | | 1452 | 226 | |
| Turn Bay Length (ft) | | 50 | 120 | | | 100 |
| Base Capacity (vph) | 355 | 1615 | 299 | 1381 | 954 | 825 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.41 | 0.28 | 1.77 | 0.39 | 1.14 | 0.11 |

Intersection Summary

- ~ 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.



| Lane Group | EBL | EBT | WBT | WBR | SBL |
|-------------------------|------|------|------|------|------|
| Lane Group Flow (vph) | 56 | 1516 | 952 | 852 | 646 |
| v/c Ratio | 0.38 | 0.87 | 0.67 | 0.53 | 0.94 |
| Control Delay | 45.4 | 24.3 | 23.6 | 1.2 | 49.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 45.4 | 24.3 | 23.6 | 1.2 | 49.1 |
| Queue Length 50th (ft) | 28 | 337 | 224 | 0 | 307 |
| Queue Length 95th (ft) | 69 | 428 | 296 | 0 | #609 |
| Internal Link Dist (ft) | | 1452 | 714 | | 376 |
| Turn Bay Length (ft) | 245 | | | 150 | |
| Base Capacity (vph) | 173 | 2191 | 1606 | 1615 | 689 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.32 | 0.69 | 0.59 | 0.53 | 0.94 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

**APPENDIX 6.7: OPENING YEAR CUMULATIVE (2024) WITH PROJECT
CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS
WITH IMPROVEMENTS**

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| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------|-------|------|-------|-------|-------|-------|
| Lane Configurations | ↑ ↗ | ↗ ↘ | ↖ ↗ | ↑ ↗ | ↗ ↘ | ↖ ↗ |
| Traffic Volume (vph) | 71 | 363 | 599 | 615 | 623 | 84 |
| Future Volume (vph) | 71 | 363 | 599 | 615 | 623 | 84 |
| Turn Type | Prot | Free | Prot | NA | NA | Perm |
| Protected Phases | 8 | | 1 | 6 | 2 | |
| Permitted Phases | | Free | | | | 2 |
| Detector Phase | 8 | | 1 | 6 | 2 | 2 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 22.6 | | 10.0 | 24.2 | 24.2 | 24.2 |
| Total Split (s) | 22.6 | | 23.0 | 67.4 | 44.4 | 44.4 |
| Total Split (%) | 25.1% | | 25.6% | 74.9% | 49.3% | 49.3% |
| Yellow Time (s) | 5.0 | | 4.0 | 5.0 | 5.0 | 5.0 |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.0 | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | Lead | | Lag | Lag | |
| Lead-Lag Optimize? | | Yes | | Yes | Yes | |
| Recall Mode | None | | None | None | None | None |
| Act Effect Green (s) | 7.8 | 66.3 | 16.4 | 51.7 | 27.5 | 27.5 |
| Actuated g/C Ratio | 0.12 | 1.00 | 0.25 | 0.78 | 0.41 | 0.41 |
| v/c Ratio | 0.34 | 0.23 | 0.71 | 0.43 | 0.81 | 0.12 |
| Control Delay | 36.6 | 0.3 | 31.4 | 5.0 | 27.7 | 7.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 36.6 | 0.3 | 31.4 | 5.0 | 27.7 | 7.7 |
| LOS | D | A | C | A | C | A |
| Approach Delay | 6.3 | | | 18.0 | 25.3 | |
| Approach LOS | A | | | B | C | |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 66.3

Natural Cycle: 80

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.81

Intersection Signal Delay: 18.1

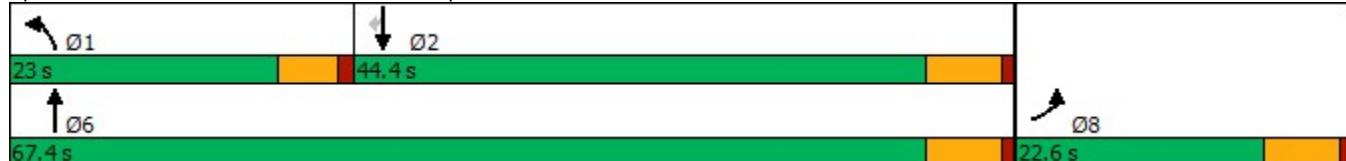
Intersection LOS: B

Intersection Capacity Utilization 68.2%

ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 1: SR-74/I-215 SB Ramps & Bonnie Dr.



HCM 6th Signalized Intersection Summary
1: SR-74/I-215 SB Ramps & Bonnie Dr.

Mapes & Sherman (JN 14804)
02/16/2023



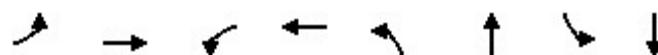
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 71 | 363 | 599 | 615 | 623 | 84 |
| Future Volume (veh/h) | 71 | 363 | 599 | 615 | 623 | 84 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | No | | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 73 | 0 | 618 | 634 | 642 | 0 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 113 | | 773 | 1346 | 746 | |
| Arrive On Green | 0.06 | 0.00 | 0.22 | 0.71 | 0.39 | 0.00 |
| Sat Flow, veh/h | 1810 | 1610 | 3510 | 1900 | 1900 | 1610 |
| Grp Volume(v), veh/h | 73 | 0 | 618 | 634 | 642 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1610 | 1755 | 1900 | 1900 | 1610 |
| Q Serve(g_s), s | 2.1 | 0.0 | 8.7 | 7.6 | 16.2 | 0.0 |
| Cycle Q Clear(g_c), s | 2.1 | 0.0 | 8.7 | 7.6 | 16.2 | 0.0 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 113 | | 773 | 1346 | 746 | |
| V/C Ratio(X) | 0.65 | | 0.80 | 0.47 | 0.86 | |
| Avail Cap(c_a), veh/h | 574 | | 1207 | 2228 | 1394 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 24.0 | 0.0 | 19.3 | 3.3 | 14.6 | 0.0 |
| Incr Delay (d2), s/veh | 2.3 | 0.0 | 0.9 | 0.1 | 1.2 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.8 | 0.0 | 2.9 | 0.5 | 5.3 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 26.3 | 0.0 | 20.3 | 3.4 | 15.8 | 0.0 |
| LnGrp LOS | C | | C | A | B | |
| Approach Vol, veh/h | 73 | A | | 1252 | 642 | A |
| Approach Delay, s/veh | 26.3 | | | 11.7 | 15.8 | |
| Approach LOS | C | | | B | B | |
| Timer - Assigned Phs | 1 | 2 | | 6 | | 8 |
| Phs Duration (G+Y+R _c), s | 16.5 | 26.6 | | 43.1 | | 9.3 |
| Change Period (Y+R _c), s | 5.0 | 6.0 | | 6.0 | | 6.0 |
| Max Green Setting (Gmax), s | 18.0 | 38.4 | | 61.4 | | 16.6 |
| Max Q Clear Time (g_c+l1), s | 10.7 | 18.2 | | 9.6 | | 4.1 |
| Green Ext Time (p_c), s | 0.8 | 2.3 | | 2.3 | | 0.0 |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 13.6 |
| HCM 6th LOS | B |

Notes

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



| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | | |
| Traffic Volume (vph) | 1 | 23 | 567 | 13 | 66 | 175 | 4 | 150 |
| Future Volume (vph) | 1 | 23 | 567 | 13 | 66 | 175 | 4 | 150 |
| Turn Type | Perm | NA | Perm | NA | Perm | NA | Perm | NA |
| Protected Phases | | | | 4 | 8 | 2 | | 6 |
| Permitted Phases | | 4 | | 8 | | 2 | | 6 |
| Detector Phase | | 4 | 4 | 8 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | | |
| Minimum Initial (s) | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 |
| Total Split (s) | 73.0 | 73.0 | 73.0 | 73.0 | 47.0 | 47.0 | 47.0 | 47.0 |
| Total Split (%) | 60.8% | 60.8% | 60.8% | 60.8% | 39.2% | 39.2% | 39.2% | 39.2% |
| Yellow Time (s) | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| Lead/Lag | | | | | | | | |
| Lead-Lag Optimize? | | | | | | | | |
| Recall Mode | None | None | None | None | Min | Min | Min | Min |
| Act Effect Green (s) | 15.7 | 15.7 | 15.7 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| Actuated g/C Ratio | 0.40 | 0.40 | 0.40 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| v/c Ratio | 0.07 | 0.62 | 0.03 | 0.20 | 0.44 | 0.02 | 0.16 | |
| Control Delay | 3.9 | 12.6 | 6.5 | 13.1 | 6.0 | 11.2 | 11.4 | |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total Delay | 3.9 | 12.6 | 6.5 | 13.1 | 6.0 | 11.2 | 11.4 | |
| LOS | A | B | A | B | A | B | B | |
| Approach Delay | 3.9 | | 12.4 | | 6.9 | | 11.4 | |
| Approach LOS | A | | B | | A | | B | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 39.2

Natural Cycle: 50

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.62

Intersection Signal Delay: 9.6

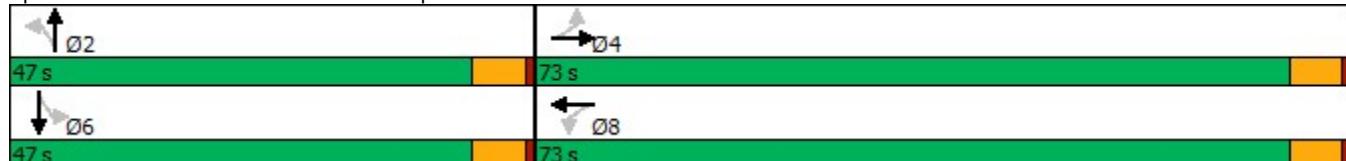
Intersection LOS: A

Intersection Capacity Utilization 60.3%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 3: Trumble Rd. & Mapes Rd.



HCM 6th Signalized Intersection Summary
3: Trumble Rd. & Mapes Rd.

Mapes & Sherman (JN 14804)
02/16/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 1 | 23 | 59 | 567 | 13 | 6 | 66 | 175 | 285 | 4 | 150 | 2 |
| Future Volume (veh/h) | 1 | 23 | 59 | 567 | 13 | 6 | 66 | 175 | 285 | 4 | 150 | 2 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | | 1.00 | 1.00 | 0.99 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 1 | 26 | 66 | 637 | 15 | 7 | 74 | 197 | 320 | 4 | 169 | 2 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 103 | 702 | 546 | 1262 | 457 | 213 | 545 | 578 | 512 | 325 | 1170 | 14 |
| Arrive On Green | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |
| Sat Flow, veh/h | 12 | 1884 | 1464 | 2568 | 1225 | 572 | 1233 | 1805 | 1600 | 896 | 3654 | 43 |
| Grp Volume(v), veh/h | 27 | 0 | 66 | 637 | 0 | 22 | 74 | 197 | 320 | 4 | 83 | 88 |
| Grp Sat Flow(s), veh/h/ln | 1896 | 0 | 1464 | 1284 | 0 | 1797 | 1233 | 1805 | 1600 | 896 | 1805 | 1892 |
| Q Serve(g_s), s | 0.0 | 0.0 | 1.1 | 8.2 | 0.0 | 0.3 | 1.7 | 3.1 | 6.4 | 0.1 | 1.2 | 1.2 |
| Cycle Q Clear(g_c), s | 0.3 | 0.0 | 1.1 | 9.3 | 0.0 | 0.3 | 3.0 | 3.1 | 6.4 | 6.6 | 1.2 | 1.2 |
| Prop In Lane | 0.04 | | 1.00 | 1.00 | | 0.32 | 1.00 | | 1.00 | 1.00 | | 0.02 |
| Lane Grp Cap(c), veh/h | 806 | 0 | 546 | 1262 | 0 | 670 | 545 | 578 | 512 | 325 | 578 | 606 |
| V/C Ratio(X) | 0.03 | 0.00 | 0.12 | 0.50 | 0.00 | 0.03 | 0.14 | 0.34 | 0.62 | 0.01 | 0.14 | 0.14 |
| Avail Cap(c_a), veh/h | 3441 | 0 | 2603 | 4870 | 0 | 3195 | 1494 | 1967 | 1744 | 1015 | 1967 | 2062 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 7.5 | 0.0 | 7.8 | 10.8 | 0.0 | 7.5 | 10.2 | 9.8 | 10.9 | 13.7 | 9.2 | 9.2 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.1 | 0.3 | 1.3 | 0.0 | 0.1 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.1 | 0.0 | 0.3 | 1.4 | 0.0 | 0.1 | 0.3 | 0.8 | 1.6 | 0.0 | 0.3 | 0.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 7.6 | 0.0 | 7.9 | 11.2 | 0.0 | 7.5 | 10.3 | 10.1 | 12.2 | 13.7 | 9.3 | 9.3 |
| LnGrp LOS | A | A | A | B | A | A | B | B | B | B | A | A |
| Approach Vol, veh/h | 93 | | | 659 | | | 591 | | | 175 | | |
| Approach Delay, s/veh | 7.8 | | | 11.0 | | | 11.3 | | | 9.4 | | |
| Approach LOS | A | | | B | | | B | | | A | | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+R _c), s | 17.9 | | 19.9 | | 17.9 | | 19.9 | | | | | |
| Change Period (Y+R _c), s | 5.8 | | 5.8 | | 5.8 | | 5.8 | | | | | |
| Max Green Setting (Gmax), s | 41.2 | | 67.2 | | 41.2 | | 67.2 | | | | | |
| Max Q Clear Time (g_c+l1), s | 8.4 | | 3.1 | | 8.6 | | 11.3 | | | | | |
| Green Ext Time (p_c), s | 3.5 | | 0.6 | | 0.9 | | 2.8 | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 10.7 | | | | | | | | | |
| HCM 6th LOS | | | B | | | | | | | | | |



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 565 | 684 | 1055 | 103 | 110 | 946 |
| Future Volume (vph) | 565 | 684 | 1055 | 103 | 110 | 946 |
| Turn Type | Prot | NA | NA | Perm | Prot | Perm |
| Protected Phases | 5 | 2 | 6 | | 4 | |
| Permitted Phases | | | | 6 | | 4 |
| Detector Phase | 5 | 2 | 6 | 6 | 4 | 4 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.0 | 11.0 | 41.6 | 41.6 | 30.5 | 30.5 |
| Total Split (s) | 23.0 | 66.0 | 43.0 | 43.0 | 54.0 | 54.0 |
| Total Split (%) | 19.2% | 55.0% | 35.8% | 35.8% | 45.0% | 45.0% |
| Yellow Time (s) | 3.0 | 5.0 | 5.0 | 5.0 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 |
| Lead/Lag | Lead | | Lag | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | Yes | | |
| Recall Mode | None | None | None | None | None | None |
| Act Effect Green (s) | 19.0 | 60.0 | 37.0 | 37.0 | 49.5 | 49.5 |
| Actuated g/C Ratio | 0.16 | 0.50 | 0.31 | 0.31 | 0.41 | 0.41 |
| v/c Ratio | 1.05 | 0.39 | 0.98 | 0.19 | 0.15 | 1.11 |
| Control Delay | 100.8 | 19.4 | 63.5 | 9.6 | 22.8 | 87.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 100.8 | 19.4 | 63.5 | 9.6 | 22.8 | 87.3 |
| LOS | F | B | E | A | C | F |
| Approach Delay | | 56.2 | 58.7 | | 80.6 | |
| Approach LOS | | E | E | | F | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 120

Natural Cycle: 115

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.11

Intersection Signal Delay: 64.5

Intersection LOS: E

Intersection Capacity Utilization 96.6%

ICU Level of Service F

Analysis Period (min) 15

Splits and Phases: 4: SR-74 & Trumble Rd.





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 565 | 684 | 1055 | 103 | 110 | 946 |
| Future Volume (veh/h) | 565 | 684 | 1055 | 103 | 110 | 946 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 0.98 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 582 | 705 | 1088 | 54 | 113 | 511 |
| Peak Hour Factor | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 642 | 2020 | 1219 | 531 | 611 | 543 |
| Arrive On Green | 0.18 | 0.56 | 0.34 | 0.34 | 0.34 | 0.34 |
| Sat Flow, veh/h | 3510 | 3705 | 3705 | 1572 | 1810 | 1610 |
| Grp Volume(v), veh/h | 582 | 705 | 1088 | 54 | 113 | 511 |
| Grp Sat Flow(s), veh/h/ln | 1755 | 1805 | 1805 | 1572 | 1810 | 1610 |
| Q Serve(g_s), s | 16.6 | 10.9 | 29.1 | 2.4 | 4.5 | 31.4 |
| Cycle Q Clear(g_c), s | 16.6 | 10.9 | 29.1 | 2.4 | 4.5 | 31.4 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 642 | 2020 | 1219 | 531 | 611 | 543 |
| V/C Ratio(X) | 0.91 | 0.35 | 0.89 | 0.10 | 0.19 | 0.94 |
| Avail Cap(c_a), veh/h | 654 | 2124 | 1310 | 570 | 878 | 781 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 40.8 | 12.3 | 32.0 | 23.2 | 23.9 | 32.8 |
| Incr Delay (d2), s/veh | 15.8 | 0.1 | 7.8 | 0.1 | 0.1 | 12.9 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 8.2 | 3.8 | 13.0 | 0.9 | 1.8 | 26.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 56.7 | 12.4 | 39.8 | 23.3 | 23.9 | 45.7 |
| LnGrp LOS | E | B | D | C | C | D |
| Approach Vol, veh/h | 1287 | 1142 | | 624 | | |
| Approach Delay, s/veh | 32.4 | 39.0 | | 41.7 | | |
| Approach LOS | C | D | | D | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 63.1 | | 38.9 | 22.6 | 40.4 | |
| Change Period (Y+R _c), s | 6.0 | | 4.5 | 4.0 | 6.0 | |
| Max Green Setting (Gmax), s | 60.0 | | 49.5 | 19.0 | 37.0 | |
| Max Q Clear Time (g_c+l1), s | 12.9 | | 33.4 | 18.6 | 31.1 | |
| Green Ext Time (p_c), s | 4.8 | | 1.0 | 0.1 | 3.3 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 36.8 | | | | |
| HCM 6th LOS | | | D | | | |



| Lane Group | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------|-------|------|-------|-------|-------|-------|
| Lane Configurations | ↑ ↗ | ↗ ↓ | ↖ ↗ | ↑ ↗ | ↗ ↓ | ↖ ↗ |
| Traffic Volume (vph) | 134 | 293 | 414 | 381 | 826 | 81 |
| Future Volume (vph) | 134 | 293 | 414 | 381 | 826 | 81 |
| Turn Type | Prot | Free | Prot | NA | NA | Perm |
| Protected Phases | 8 | | 1 | 6 | 2 | |
| Permitted Phases | | Free | | | | 2 |
| Detector Phase | 8 | | 1 | 6 | 2 | 2 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 22.6 | | 10.0 | 24.2 | 24.2 | 24.2 |
| Total Split (s) | 22.6 | | 17.0 | 67.4 | 50.4 | 50.4 |
| Total Split (%) | 25.1% | | 18.9% | 74.9% | 56.0% | 56.0% |
| Yellow Time (s) | 5.0 | | 4.0 | 5.0 | 5.0 | 5.0 |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.0 | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | Lead | | Lag | Lag | |
| Lead-Lag Optimize? | | Yes | | Yes | Yes | |
| Recall Mode | None | | None | None | None | None |
| Act Effect Green (s) | 10.9 | 81.4 | 12.1 | 58.4 | 41.2 | 41.2 |
| Actuated g/C Ratio | 0.13 | 1.00 | 0.15 | 0.72 | 0.51 | 0.51 |
| v/c Ratio | 0.60 | 0.20 | 0.85 | 0.30 | 0.93 | 0.10 |
| Control Delay | 44.6 | 0.3 | 52.9 | 5.2 | 36.2 | 7.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 44.6 | 0.3 | 52.9 | 5.2 | 36.2 | 7.3 |
| LOS | D | A | D | A | D | A |
| Approach Delay | 14.2 | | | 30.0 | 33.6 | |
| Approach LOS | B | | | C | C | |

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 81.4

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.93

Intersection Signal Delay: 28.4

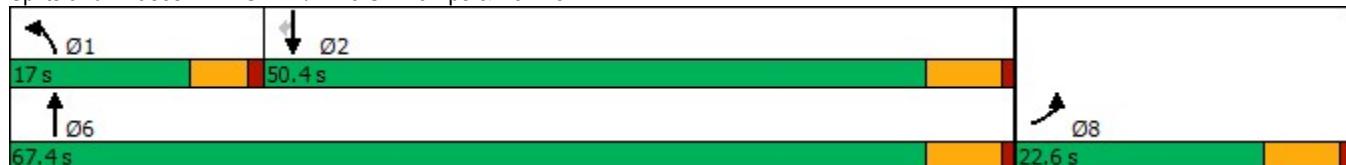
Intersection LOS: C

Intersection Capacity Utilization 76.9%

ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 1: SR-74/I-215 SB Ramps & Bonnie Dr.



HCM 6th Signalized Intersection Summary
1: SR-74/I-215 SB Ramps & Bonnie Dr.

Mapes & Sherman (JN 14804)
02/16/2023



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|---|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 134 | 293 | 414 | 381 | 826 | 81 |
| Future Volume (veh/h) | 134 | 293 | 414 | 381 | 826 | 81 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | No | | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 144 | 0 | 445 | 410 | 888 | 0 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 183 | | 538 | 1386 | 961 | |
| Arrive On Green | 0.10 | 0.00 | 0.15 | 0.73 | 0.51 | 0.00 |
| Sat Flow, veh/h | 1810 | 1610 | 3510 | 1900 | 1900 | 1610 |
| Grp Volume(v), veh/h | 144 | 0 | 445 | 410 | 888 | 0 |
| Grp Sat Flow(s), veh/h/ln | 1810 | 1610 | 1755 | 1900 | 1900 | 1610 |
| Q Serve(g_s), s | 5.5 | 0.0 | 8.7 | 5.3 | 30.7 | 0.0 |
| Cycle Q Clear(g_c), s | 5.5 | 0.0 | 8.7 | 5.3 | 30.7 | 0.0 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 183 | | 538 | 1386 | 961 | |
| V/C Ratio(X) | 0.79 | | 0.83 | 0.30 | 0.92 | |
| Avail Cap(c_a), veh/h | 424 | | 595 | 1647 | 1191 | |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 31.1 | 0.0 | 29.1 | 3.3 | 16.2 | 0.0 |
| Incr Delay (d2), s/veh | 2.8 | 0.0 | 7.8 | 0.0 | 9.5 | 0.0 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 2.3 | 0.0 | 3.9 | 0.8 | 12.8 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 33.9 | 0.0 | 36.9 | 3.3 | 25.8 | 0.0 |
| LnGrp LOS | C | | D | A | C | |
| Approach Vol, veh/h | 144 | A | | 855 | 888 | A |
| Approach Delay, s/veh | 33.9 | | | 20.8 | 25.8 | |
| Approach LOS | C | | | C | C | |
| Timer - Assigned Phs | 1 | 2 | | 6 | | 8 |
| Phs Duration (G+Y+Rc), s | 15.9 | 41.8 | | 57.7 | | 13.2 |
| Change Period (Y+Rc), s | 5.0 | 6.0 | | 6.0 | | 6.0 |
| Max Green Setting (Gmax), s | 12.0 | 44.4 | | 61.4 | | 16.6 |
| Max Q Clear Time (g_c+l1), s | 10.7 | 32.7 | | 7.3 | | 7.5 |
| Green Ext Time (p_c), s | 0.1 | 3.1 | | 1.3 | | 0.1 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 24.1 | | | |
| HCM 6th LOS | | | C | | | |
| Notes | | | | | | |
| Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay. | | | | | | |



| Lane Group | EBT | WBL | WBT | NBL | NBT | SBL | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↓ | ↑↓ | ↑ | ↑ | ↑↓ | ↑↓ | ↑↓ |
| Traffic Volume (vph) | 6 | 221 | 1 | 11 | 119 | 55 | 233 |
| Future Volume (vph) | 6 | 221 | 1 | 11 | 119 | 55 | 233 |
| Turn Type | NA | Perm | NA | Perm | NA | Perm | NA |
| Protected Phases | 4 | | | 8 | | 2 | 6 |
| Permitted Phases | | | | 8 | | 2 | 6 |
| Detector Phase | 4 | 8 | 8 | 2 | 2 | 6 | 6 |
| Switch Phase | | | | | | | |
| Minimum Initial (s) | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 |
| Total Split (s) | 55.0 | 55.0 | 55.0 | 65.0 | 65.0 | 65.0 | 65.0 |
| Total Split (%) | 45.8% | 45.8% | 45.8% | 54.2% | 54.2% | 54.2% | 54.2% |
| Yellow Time (s) | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| Lead/Lag | | | | | | | |
| Lead-Lag Optimize? | | | | | | | |
| Recall Mode | None | None | None | Min | Min | Min | Min |
| Act Effect Green (s) | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| Actuated g/C Ratio | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| v/c Ratio | 0.01 | 0.29 | 0.03 | 0.04 | 0.35 | 0.21 | 0.24 |
| Control Delay | 6.8 | 10.0 | 5.6 | 8.9 | 4.1 | 10.9 | 9.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 6.8 | 10.0 | 5.6 | 8.9 | 4.1 | 10.9 | 9.3 |
| LOS | A | A | A | A | A | B | A |
| Approach Delay | 6.8 | | | 9.7 | | 4.3 | 9.6 |
| Approach LOS | A | | A | | A | | A |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 34.9

Natural Cycle: 50

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.35

Intersection Signal Delay: 7.4

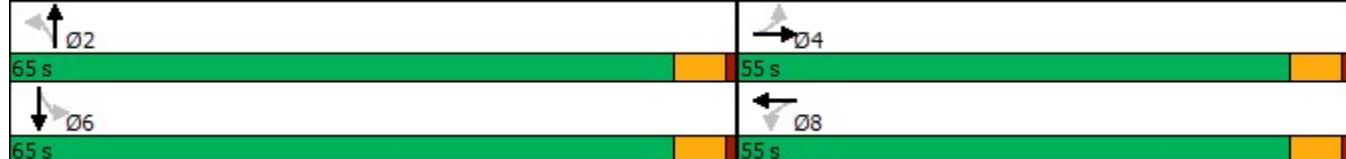
Intersection LOS: A

Intersection Capacity Utilization 48.0%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 3: Trumble Rd. & Mapes Rd.



HCM 6th Signalized Intersection Summary
3: Trumble Rd. & Mapes Rd.

Mapes & Sherman (JN 14804)
02/16/2023

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 0 | 6 | 6 | 221 | 1 | 11 | 11 | 119 | 248 | 55 | 233 | 2 |
| Future Volume (veh/h) | 0 | 6 | 6 | 221 | 1 | 11 | 11 | 119 | 248 | 55 | 233 | 2 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 0 | 7 | 7 | 266 | 1 | 13 | 13 | 143 | 299 | 66 | 281 | 2 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 0 | 539 | 463 | 1256 | 34 | 443 | 545 | 612 | 544 | 409 | 1246 | 9 |
| Arrive On Green | 0.00 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |
| Sat Flow, veh/h | 0 | 1936 | 1579 | 2759 | 116 | 1512 | 1114 | 1805 | 1603 | 961 | 3674 | 26 |
| Grp Volume(v), veh/h | 0 | 7 | 7 | 266 | 0 | 14 | 13 | 143 | 299 | 66 | 138 | 145 |
| Grp Sat Flow(s), veh/h/ln | 0 | 1805 | 1616 | 1379 | 0 | 1628 | 1114 | 1805 | 1603 | 961 | 1805 | 1895 |
| Q Serve(g_s), s | 0.0 | 0.1 | 0.1 | 2.4 | 0.0 | 0.2 | 0.3 | 1.8 | 4.8 | 1.9 | 1.7 | 1.7 |
| Cycle Q Clear(g_c), s | 0.0 | 0.1 | 0.1 | 2.5 | 0.0 | 0.2 | 2.0 | 1.8 | 4.8 | 6.7 | 1.7 | 1.7 |
| Prop In Lane | 0.00 | | | 1.00 | | 0.93 | 1.00 | | 1.00 | 1.00 | | 0.01 |
| Lane Grp Cap(c), veh/h | 0 | 529 | 473 | 1256 | 0 | 477 | 545 | 612 | 544 | 409 | 612 | 643 |
| V/C Ratio(X) | 0.00 | 0.01 | 0.02 | 0.21 | 0.00 | 0.03 | 0.02 | 0.23 | 0.55 | 0.16 | 0.23 | 0.23 |
| Avail Cap(c_a), veh/h | 0 | 2816 | 2521 | 4751 | 0 | 2540 | 2258 | 3388 | 3009 | 1886 | 3388 | 3558 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 0.0 | 7.9 | 7.9 | 8.8 | 0.0 | 8.0 | 8.2 | 7.5 | 8.5 | 11.2 | 7.5 | 7.5 |
| Incr Delay (d2), s/veh | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.9 | 0.2 | 0.2 | 0.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 | 0.9 | 0.3 | 0.4 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 0.0 | 7.9 | 7.9 | 8.9 | 0.0 | 8.0 | 8.2 | 7.7 | 9.3 | 11.4 | 7.6 | 7.6 |
| LnGrp LOS | A | A | A | A | A | A | A | A | A | B | A | A |
| Approach Vol, veh/h | | 14 | | | 280 | | | 455 | | | 349 | |
| Approach Delay, s/veh | | 7.9 | | | 8.8 | | | 8.8 | | | 8.3 | |
| Approach LOS | | A | | | A | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+R _c), s | 16.5 | | 15.0 | | 16.5 | | 15.0 | | | | | |
| Change Period (Y+R _c), s | 5.8 | | 5.8 | | 5.8 | | 5.8 | | | | | |
| Max Green Setting (Gmax), s | 59.2 | | 49.2 | | 59.2 | | 49.2 | | | | | |
| Max Q Clear Time (g_c+l1), s | 6.8 | | 2.1 | | 8.7 | | 4.5 | | | | | |
| Green Ext Time (p_c), s | 2.8 | | 0.0 | | 1.9 | | 1.0 | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 8.6 | | | | | | | | | |
| HCM 6th LOS | | | A | | | | | | | | | |



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 444 | 901 | 798 | 121 | 127 | 529 |
| Future Volume (vph) | 444 | 901 | 798 | 121 | 127 | 529 |
| Turn Type | Prot | NA | NA | Perm | Prot | Perm |
| Protected Phases | 5 | 2 | 6 | | 4 | |
| Permitted Phases | | | | 6 | | 4 |
| Detector Phase | 5 | 2 | 6 | 6 | 4 | 4 |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.0 | 11.0 | 41.6 | 41.6 | 30.5 | 30.5 |
| Total Split (s) | 28.0 | 74.6 | 46.6 | 46.6 | 45.4 | 45.4 |
| Total Split (%) | 23.3% | 62.2% | 38.8% | 38.8% | 37.8% | 37.8% |
| Yellow Time (s) | 3.0 | 5.0 | 5.0 | 5.0 | 3.5 | 3.5 |
| All-Red Time (s) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 4.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 |
| Lead/Lag | Lead | | Lag | Lag | | |
| Lead-Lag Optimize? | Yes | | Yes | Yes | | |
| Recall Mode | None | None | None | None | None | None |
| Act Effect Green (s) | 15.8 | 46.2 | 26.0 | 26.0 | 15.2 | 15.2 |
| Actuated g/C Ratio | 0.22 | 0.63 | 0.36 | 0.36 | 0.21 | 0.21 |
| v/c Ratio | 0.63 | 0.42 | 0.67 | 0.20 | 0.36 | 0.84 |
| Control Delay | 33.0 | 8.2 | 24.3 | 5.2 | 29.6 | 20.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 33.0 | 8.2 | 24.3 | 5.2 | 29.6 | 20.6 |
| LOS | C | A | C | A | C | C |
| Approach Delay | | 16.4 | 21.8 | | 22.3 | |
| Approach LOS | | B | C | | C | |

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 73.1

Natural Cycle: 85

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.84

Intersection Signal Delay: 19.4

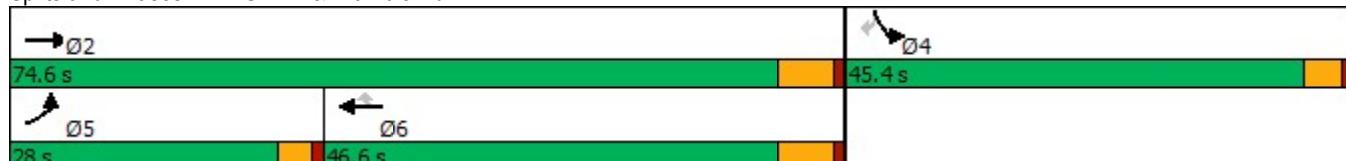
Intersection LOS: B

Intersection Capacity Utilization 63.6%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 4: SR-74 & Trumble Rd.





| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|---------------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑↑ | ↑↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 444 | 901 | 798 | 121 | 127 | 529 |
| Future Volume (veh/h) | 444 | 901 | 798 | 121 | 127 | 529 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | No | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 477 | 969 | 858 | 119 | 137 | 435 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 0 | 0 | 0 | 0 | 0 |
| Cap, veh/h | 595 | 1987 | 1170 | 522 | 543 | 483 |
| Arrive On Green | 0.17 | 0.55 | 0.32 | 0.32 | 0.30 | 0.30 |
| Sat Flow, veh/h | 3510 | 3705 | 3705 | 1610 | 1810 | 1610 |
| Grp Volume(v), veh/h | 477 | 969 | 858 | 119 | 137 | 435 |
| Grp Sat Flow(s), veh/h/ln | 1755 | 1805 | 1805 | 1610 | 1810 | 1610 |
| Q Serve(g_s), s | 9.2 | 11.6 | 14.8 | 3.8 | 4.0 | 18.2 |
| Cycle Q Clear(g_c), s | 9.2 | 11.6 | 14.8 | 3.8 | 4.0 | 18.2 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 595 | 1987 | 1170 | 522 | 543 | 483 |
| V/C Ratio(X) | 0.80 | 0.49 | 0.73 | 0.23 | 0.25 | 0.90 |
| Avail Cap(c_a), veh/h | 1198 | 3522 | 2085 | 930 | 1053 | 937 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 28.1 | 9.7 | 21.1 | 17.3 | 18.6 | 23.6 |
| Incr Delay (d2), s/veh | 1.0 | 0.2 | 0.9 | 0.2 | 0.1 | 2.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 3.5 | 3.4 | 5.5 | 1.2 | 1.5 | 0.3 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 29.0 | 9.9 | 22.0 | 17.6 | 18.7 | 26.1 |
| LnGrp LOS | C | A | C | B | B | C |
| Approach Vol, veh/h | 1446 | 977 | | 572 | | |
| Approach Delay, s/veh | 16.2 | 21.4 | | 24.3 | | |
| Approach LOS | B | C | | C | | |
| Timer - Assigned Phs | 2 | | 4 | 5 | 6 | |
| Phs Duration (G+Y+R _c), s | 44.7 | | 25.6 | 15.9 | 28.8 | |
| Change Period (Y+R _c), s | 6.0 | | 4.5 | 4.0 | 6.0 | |
| Max Green Setting (Gmax), s | 68.6 | | 40.9 | 24.0 | 40.6 | |
| Max Q Clear Time (g_c+l1), s | 13.6 | | 20.2 | 11.2 | 16.8 | |
| Green Ext Time (p_c), s | 7.4 | | 0.9 | 0.7 | 6.0 | |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | 19.5 | | | | |
| HCM 6th LOS | | B | | | | |

H.2 - Vehicle Miles Traveled Screening Evaluation



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June 22, 2022

Mr. Rob Blough
City of Menifee
29714 Haun Road
Menifee, CA 92586

**MAPES AND SHERMAN COMMERCE CENTER VEHICLE MILES TRAVELED (VMT)
SCREENING EVALUATION**

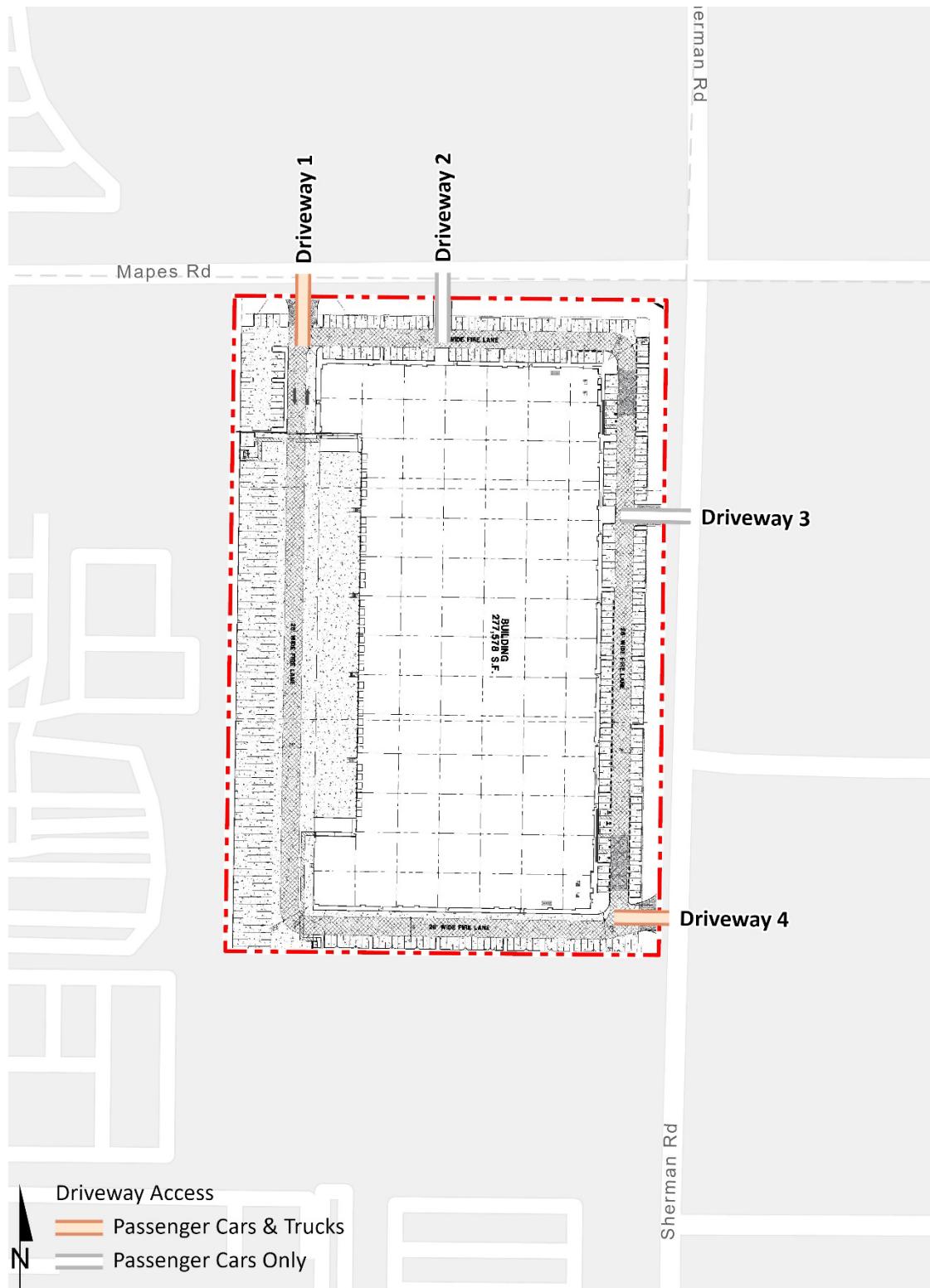
Mr. Rob Blough,

Urban Crossroads, Inc. is pleased to provide the following Vehicle Miles Traveled (VMT) Screening Evaluation for the Mapes and Sherman Commerce Center development (**Project**), which is located on the southwest corner of Sherman Road and Mapes Road (APNs: 329-030-003, 048, 049) in the City of Menifee.

PROJECT OVERVIEW

It is our understanding that the project is to consist of the development of an approximately 277,578 square foot high-cube fulfillment center warehouse building. A preliminary site plan can be found in Exhibit 1.

EXHIBIT 1: PRELIMINARY SITE PLAN



BACKGROUND

Changes to California Environmental Quality Act (CEQA) Guidelines were adopted in December 2018, which requires all lead agencies to adopt VMT as a replacement for automobile delay-based level of service (LOS) as the new measure for identifying transportation impacts for land use projects. This statewide mandate went into effect July 1, 2020. To aid in this transition, the Governor's Office of Planning and Research (OPR) released a Technical Advisory on Evaluating Transportation Impacts in CEQA (December of 2018) (**Technical Advisory**) (1).

The City of Menifee City Council adopted analytical procedures, screening tools, and impact thresholds for VMT, which are documented in the recently updated City of Menifee Traffic Impact Analysis Guidelines for Vehicle Miles Traveled (January 2022) (**City Guidelines**) (2). For the purposes of this evaluation the City Guidelines have been used.

VMT SCREENING ASSESSMENT

The City Guidelines provides details on appropriate screening criteria that can be used to identify when a proposed land use project is anticipated to result in a less than significant impact without conducting a more detailed project level analysis. To aid in the project-level VMT screening process, the City of Menifee utilizes the WRCOG VMT Screening Tool (**Screening Tool**). The web-based Screening Tool allows a user to select an assessor's parcel number (APN) to determine if a project's physical location meets one or more of the land use screening thresholds documented in the City Guidelines. Screening criteria is broken into three steps:

- Step 1: Transit Priority Area (TPA) Screening
- Step 2: Low VMT Area Screening
- Step 3: Project Type Screening

A land use project need only to meet one of the above screening criteria to result in a less than significant impact.

STEP 1: TPA SCREENING

Consistent with guidance identified in the City Guidelines, projects located within a Transit Priority Area (TPA) (i.e., within ½ mile of an existing "major transit stop"¹ or an existing stop along a "high-quality transit corridor"²) may be presumed to have a less than significant impact absent substantial evidence to the contrary.

However, the presumption may not be appropriate if a project:

¹ Pub. Resources Code, § 21064.3 ("Major transit stop" means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.)

² Pub. Resources Code, § 21155 ("For purposes of this section, a high-quality transit corridor means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.").

- Has a Floor Area Ratio (FAR) of less than 0.75;
- Includes more parking for use by residents, customers, or employees of the project than required by the jurisdiction (if the jurisdiction requires the project to supply parking);
- Is inconsistent with the applicable Sustainable Communities Strategy (as determined by the lead agency, with input from the Metropolitan Planning Organization); or
- Replaces affordable residential units with a smaller number of moderate- or high-income residential units.

Based on the Screening Tool, the Project site is shown not to be located within a TPA. (See Attachment A).

TPA screening criteria is not met.

STEP 2: LOW VMT AREA SCREENING

City Guidelines state that "Residential and office projects located within a low VMT-generating area are presumed to have a less than significant impact absent substantial evidence to the contrary. In addition, other employment-related and mixed-use land use projects may qualify for the use of screening if there is a reasonable expectation that the project will generate VMT per service population that is similar to the existing land uses in the low VMT area."³ The City uses the WRCOG screening tool to determine low areas of VMT. The screening tool uses the sub-regional RIVCOM to measure VMT performance within individual traffic analysis zones (TAZ's) within the region. The Project's physical location based on parcel number is identified in the Screening Tool to determine project generated VMT as compared to the City's impact threshold (i.e., baseline project-generated VMT per service population exceeds the County of Riverside General Plan Buildout VMT per service population).

The parcel containing the proposed Project was selected and the screening tool was evaluated for VMT per service population measure of VMT. The Project resides within TAZ 1098 and was shown to generate 32.1 VMT per service population whereas the City's impact threshold (i.e., County of Riverside General Plan Buildout VMT per service population) is 33.6 VMT per service population. Based on the Screening Tool results, the Project is located within a low VMT generating zone (See Attachment A). Additionally, the Project is consistent with the RTP/SCS and will not be seeking a General Plan amendment nor a change of zone.

Low VMT Area screening criteria is met.

STEP 3: PROJECT TYPE SCREENING

The City Guidelines identify that local serving retail less than 50,000 square feet or other local serving essential services (e.g., local parks, day care centers, public schools, medical/dental office

³ City Guidelines; Page 11

buildings, etc.) are presumed to have a less than significant impact absent substantial evidence to the contrary. The Project does not intend to develop any local serving retail uses.

Additionally, the City Guidelines also indicate that projects generating fewer than 110 daily vehicle trips may be presumed to have a less than significant impact. Trips generated by the Project's proposed land uses have been estimated based on trip generation rates collected by the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition, 2021 (3). The proposed Project is anticipated to generate 592 daily vehicle trips, which is above the 110 daily vehicle trip threshold (see Attachment B).

The Project Type screening threshold is not met.

CONCLUSION

In summary, the Project was evaluated consistent with available screening criteria as presented in the City Guidelines. The Project was found to meet the low VMT area screening criteria; no further VMT analysis required.

If you have any questions, please contact me directly at aso@urbanxroads.com.

Respectfully submitted,

URBAN CROSSROADS, INC.

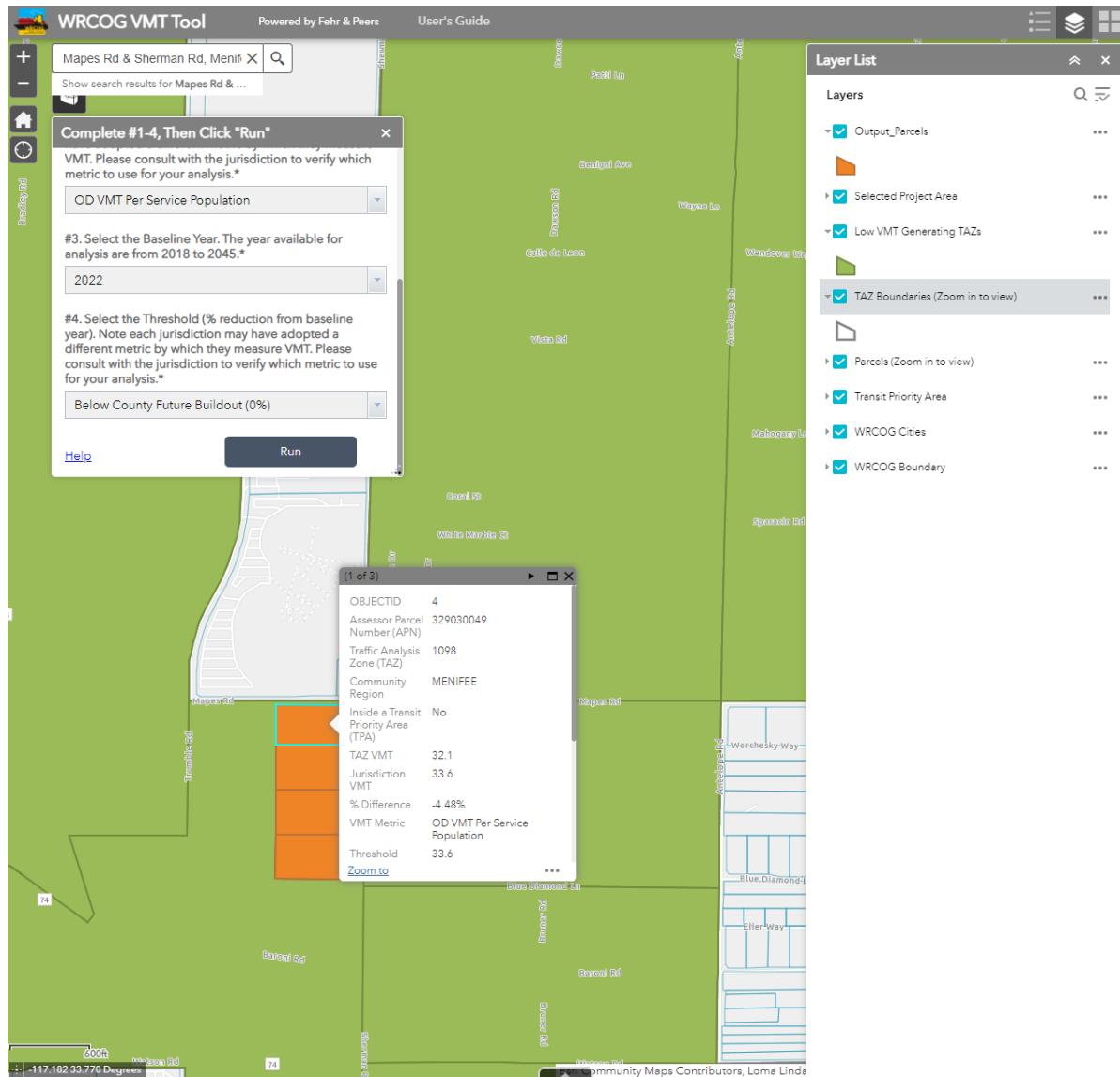


Alexander So
Senior Associate

REFERENCES

1. **Office of Planning and Research.** *Technical Advisory on Evaluating Transportation Impacts in CEQA.* State of California : s.n., December 2018.
2. **City of Menifee.** *Traffic Impact Analysis Guidelines for Vehicle Miles Traveled.* January 2022.
3. **Institute of Transportation Engineers.** *Trip Generation Manual.* 11th Edition. 2021.

ATTACHMENT A
WRCOG SCREENING TOOL



ATTACHEMENT B
PROJECT TRIP GENERATION

TABLE 1: TRIP GENERATION RATES

| Land Use | ITE LU Units ² | Code | AM Peak Hour | | | PM Peak Hour | | | Daily |
|---|------------------------------|------|--------------|-------|-------|--------------|-------|-------|-------|
| | | | In | Out | Total | In | Out | Total | |
| Actual Vehicle Trip Generation Rates | | | | | | | | | |
| High-Cube Fulfillment Center Warehouse ¹ | TSF | -- | 0.094 | 0.028 | 0.122 | 0.046 | 0.119 | 0.165 | 2.129 |
| Passenger Cars | | | 0.079 | 0.024 | 0.103 | 0.040 | 0.104 | 0.144 | 1.750 |
| 2-4 Axle Trucks | | | 0.006 | 0.002 | 0.008 | 0.003 | 0.008 | 0.011 | 0.162 |
| 5+-Axle Trucks | | | 0.008 | 0.003 | 0.011 | 0.003 | 0.007 | 0.010 | 0.217 |

¹ Vehicle Mix Source: [High Cube Warehouse Trip Generation Study](#), WSP, January 29, 2019.

Inbound and outbound split source: ITE [Trip Generation Manual](#), Eleventh Edition (2021) for ITE Land Use Code 154.

² TSF = thousand square feet

TABLE 2: PROJECT TRIP GENERATION SUMMARY

| Land Use | Quantity Units ¹ | AM Peak Hour | | | PM Peak Hour | | | Daily |
|--|-----------------------------|--------------|----------|-----------|--------------|-----------|-----------|------------|
| | | In | Out | Total | In | Out | Total | |
| Actual Vehicles: | | | | | | | | |
| High-Cube Fulfillment | 277.578 TSF | | | | | | | |
| Passenger Cars: | | | | | | | | |
| 2-4axle Trucks: | | 22 | 7 | 29 | 11 | 29 | 40 | 486 |
| 5+axle Trucks: | | 2 | 1 | 3 | 1 | 2 | 3 | 46 |
| Total Truck Trips (Actual Vehicles): | | 2 | 1 | 3 | 1 | 2 | 3 | 60 |
| Total Trips (Actual Vehicles)² | | 4 | 2 | 6 | 2 | 4 | 6 | 106 |
| | | 26 | 9 | 35 | 13 | 33 | 46 | 592 |

¹ TSF = thousand square feet

² Total Trips = Passenger Cars + Truck Trips.