## Appendix C Traffic Report & Vehicle Queuing Memo



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## SUSAN STREET APARTMENTS TRANSPORTATION IMPACT ANALYSIS

FINAL DRAFT REPORT

PAJARO, MONTEREY COUNTY, CALIFORNIA

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#### 1 INTRODUCTION

The proposed Susan Street Apartments (Project) is located in the Pajaro area of Monterey County, California, near Watsonville. The project site covers approximately 3.41 acres at 0 Susan Street, north of San Juan Road and adjacent to the Pajaro River. The project is proposed to include 60 standard apartments and 1 manager apartment. This will provide as many as 480 beds for agricultural employee (H2A) housing. The locations of the Project site and study area are indicated in **Exhibit 1**. The project site plan is shown in **Exhibit 2**.

The project is analyzed as standard apartments in this report, as a worst-case condition. This report summarizes the analysis of potential traffic effects associated with both alternatives of the proposed Project as well as cumulative effects. Existing and Cumulative conditions are also analyzed with and without the Project. Vehicular, pedestrian, bicycle and transit circulation are evaluated at the Project site and the immediate surrounding street network.

#### 1.1 Scope of Work

This report addresses the following topics:

- Existing vehicular, pedestrian and bicycle circulation on the surrounding street network.
- 2. Assessment of potential impacts to vehicular, pedestrian, bicycle, and transit circulation due to the Project, and recommendations to minimize or alleviate those impacts.
- 3. Assessment of potential cumulative traffic impacts.
- 4. Site access and on-site circulation assessment, including emergency access.
- 5. Discussion of the project's Vehicle Miles Traveled (VMT) impact based on draft Monterey County VMT policy and accompanying "VMT per Capita" heat maps.
- 6. Collision analysis of Susan Street and its intersection with San Juan Road.

#### 1.2 Study Network

The AM and PM peak periods were analyzed at the following four intersections which are all under the jurisdiction of Monterey County. Their locations are indicated on **Exhibit 1**.

- Intersection 1 Porter Street / San Juan Road
- Intersection 2 Porter Street Salinas Road / Stender Avenue Salinas Road
- 3. Intersection 3 San Juan Road / Salinas Road
- 4. Intersection 4 San Juan Road / Gonda Street
- 5. Intersection 5 San Juan Road / Susan Street

#### 1.3 Analysis Scenarios

Traffic operations for the following analysis scenarios were analyzed:

- Existing Conditions
- 2. Existing Plus Project Conditions
- 3. Cumulative Without Project Conditions
- 4. Cumulative Plus Project Conditions

Improvements recommended to provide acceptable traffic operations for each development scenario are recommended where warranted.

#### 1.4 Traffic Operation Evaluation Methodologies

Intersection traffic operations were evaluated based upon the level of service (LOS) concept. LOS is a qualitative description of an intersection's operations, ranging from LOS A to LOS F. Level of Service "A" represents free flow uncongested traffic conditions. Level of Service "F" represents highly congested traffic conditions with unacceptable delay to vehicles at intersections. The intermediate levels of service represent incremental levels of congestion and delay between these two extremes. LOS descriptions for each type of existing traffic control at the study intersections (i.e., signal, all-way stop and one-/two-way stop) are included as **Appendix A**.

Intersection traffic operations were evaluated using the Synchro© traffic analysis software (Version 10) using both the 2010 and 2000 Highway Capacity Manual (HCM) methodologies. The average delay is then correlated to a level of service. For two-way stop-controlled intersections, only the vehicle delay for side street traffic is analyzed. LOS for each side street movement is based on the distribution of gaps in the major street traffic stream and driver judgment in selecting gaps. Improvements are warranted when a side street approach reaches LOS F for two-way stop-controlled intersections.

When using the HCM 2010 and 2000 methods for the analysis of signalized and all-way stop-controlled intersections, the overall intersection delay is used to determine LOS.

#### 1.5 Level of Service Standards - Study Network

This study assesses operations at intersections under the jurisdiction of Monterey County, which has an overall level of service (LOS) standard of LOS D.

As noted in Section 1.4, the Highway Capacity Manual does not provide overall levels of service for one-way stop-controlled intersections; rather, it only provides side-street operations for this type of traffic control. Side-street operations represent delay for the entire stop-controlled approach, regardless of the number of lanes. For the purposes of this analysis, a standard of LOS E is applied to side-street operations at these intersections, given that intersection improvements such as signalization and channelization are generally not warranted until the side street LOS is F. Also, side street traffic volumes are typically much lower than volumes on the major street and only represent a small portion of the overall intersection operations.

#### 1.6 Significance Criteria

Two different significance criteria are used to assess the impacts and adverse effects of this project – one for environmental impacts and one for local adverse effects. The environmental impacts refer to impacts assessed per the California Environmental Quality Act (CEQA) guidelines, while the local adverse effects are assessed relative to capacity and the Monterey County General Plan

level of service standard. The following significance criteria are used in this study:

#### 1.6.1 Environmental (CEQA)

Senate Bill (SB) 743 required that, starting July 2020, transportation impacts for projects per the California Environmental Quality Act (CEQA) be based on a project's Vehicle Miles Traveled (VMT), rather than level of service. The publication *Technical Advisory on Evaluating Transportation Impacts in CEQA*, State of California Governor's Office of Planning and Research, December 2018

(OPR Guidelines), suggests that a significant environmental (CEQA) impact for residential uses would not occur when a project VMT per capita is more than 15% below the average residential VMT per capita for the region. However, local agencies are allowed to adopt their own customized thresholds. As of this writing, Monterey County has not established either a VMT standard or significance threshold for VMT analysis. It is uncertain when the County will adopt VMT policies and standards. This report, therefore, includes a qualitative VMT analysis for the study project consistent with OPR Guidelines.

#### 1.6.2 Local

SB 743 also allows local jurisdictions to assess local adverse effects based on their own adopted level of service (LOS) standards and General Plan policies, although the LOS analysis is not subject to CEQA.

For the purposes of this analysis, adverse effects on intersection operations are defined in the following situations:

#### <u>Signalized Intersection (Intersection 1):</u>

- A significant impact would occur if an intersection operating at LOS A, B, C, or D pre-Project degrades to E or F with the addition of Project traffic.
- For intersections already operating at unacceptable level E or F pre-Project, any increase (one vehicle) in traffic is considered significant.

#### One- or Two-Way Stop-Controlled Intersection (Intersections 2-4):

- A significant impact would occur if the side-street at an intersection operating at LOS A, B,
   C, D or E pre-Project degrades to LOS F with Project traffic; or
- If any traffic signal warrant is met with the addition of Project traffic; or
- For side-streets already operating at LOS F pre-Project, the addition of <u>any</u> Project traffic during the deficient peak hour would be considered significant, regardless of its effects on delay.

#### 1.7 Impact Fees

#### 1.7.1 Transportation Agency for Monterey County

The Transportation Agency for Monterey County (TAMC) and its member jurisdictions have adopted a county-wide, regional development impact fee to cover the costs for studies and construction of many roadway improvements throughout Monterey County. This impact fee, which went into effect on August 27, 2008, is applied to new development within Monterey County. The governing document for the fee is the *Regional Impact Fee Nexus Study Update* (March 26, 2008) prepared by Kimley-Horn Associates, Inc. *The Regional Impact Fee Nexus Study Update* was updated in October 2018 by Wood Rodgers.

TAMC, Monterey County and Caltrans have agreed that the payment of the TAMC fee satisfies the Project's fair share contribution to cumulative impact mitigation throughout the regional highway system. This includes highways that will operate deficiently but no capital improvement Project is

programmed to correct the deficiency. Projects partially funded by the TAMC fee in North Monterey County and the vicinity of Salinas include the following.

- 1. TAMC Improvement 11 County Road G12 San Miguel Canyon Improvements
- 2. TAMC Improvement 12 Salinas Road Improvements

Additional funding will be provided by Measure X, the Transportation Sales Tax measure. These local funding sources are anticipated to leverage State and federal funding sources to fully fund the improvements. Toll roads are also being considered as a funding source.

#### 1.7.2 Monterey County Traffic Impact Fee

Monterey County also has a traffic impact fee which is described the "Monterey Countywide Traffic Impact Fee Nexus Study," Kimley Horn, August 1, 2014. The only project in North Monterey County is Project Number 2 – Crazy Horse Canyon Road Improvements. This project includes adding passing lanes and Class II bike lanes from San Juan Grade Road to US 101.

#### 2 EXISTING TRAFFIC CONDITIONS

This chapter evaluates Existing traffic conditions and includes a description of the Project setting.

#### 2.1 Existing Traffic Network

The Project site is located in the community of Pajaro at the end of Susan Street, adjacent to the Pajaro River levee, in Pajaro, unincorporated Monterey County. Pajaro is located near the City of Watsonville, which lies just across the Pajaro River from the project site.

The key roadways in the vicinity of the proposed project include San Juan Road, Salinas Road, and Porter Drive. Direct project access to the project site is via Susan Street. These facilities are described below, in alphabetical order:

**Gonda Street** is a two-lane dead end local street providing access to neighborhoods north of San Juan Road. The presumed speed limit is 25 miles per hour (mph). It has a width of 26 feet curb-to-curb. Parking is prohibited on both sides of the street.

**Porter Drive** is a two- to four-lane roadway in Pajaro, providing through access in Pajaro and a connection into Watsonville. Porter Drive also has a two-way left turn lane in its median for its entire length. The posted speed limit is 25 mph.

**Salinas Road** is a two- to four-lane roadway in northern Monterey County, connecting Pajaro with State Route 1 north of Moss Landing. It also connects to both Porter Drive and Elkhorn Road, allowing travel between Watsonville and Prunedale. Salinas Road also has a two-way left turn lane in its median south of Porter Drive. The posted speed limit is 25 mph south of Porter Drive. The presumed speed between Porter Drive and San Juan Road is 25 mph.

**San Juan Road** is a two-lane roadway in northern Monterey County connecting Pajaro with US 101 southeast of Aromas. Within Pajaro, it also has a two-way left turn lane in its median. The posted speed limit is 35 mph in the immediate vicinity of Susan Street.

**Susan Street** is a two-lane local street providing access to approximately 25 existing dwelling units north of San Juan Road. It is about 660 feet in length. The presumed speed limit is 25 miles per hour (mph).

#### 2.2 Existing Pedestrian Network

Susan Street has a continuous sidewalk along its western frontage, extending from the project site to San Juan Road with the exceptions of three missing segments, which are illustrated on **Exhibit 3**. Immediately south of the Project site, these include a 50-foot missing segment along the frontage of the existing home and about a 120-foot missing segment one lot further south. These gaps are located near the existing terminus of Susan Street, where traffic volumes and speeds are low. The third is a 50-foot section immediately north of San Juan Road that extends from the end of the curb return along an existing wooden slat fence.

Sidewalks exist on both sides of San Juan Road to the east and west, between east of Susan Street and a community park west of Porter Drive. Salinas Road and Porter Street also have continuous sidewalks through Pajaro, allowing continuous travel to Pajaro Middle School in southern Pajaro and Watsonville to the north.

A marked crosswalk is present across San Juan Road at Salinas Road. Crosswalks are also present across the south, east, and west legs of the Porter Street / San Juan Road intersection.

#### 2.3 Existing Bicycle Network

There are four types of bicycle facilities defined by Caltrans. Each type is described below:

- 1. <u>Bike path (Class I)</u> A separate right-of-way designed for the exclusive use of bicycle and pedestrian traffic with crossflow minimized.
- 2. <u>Bike lane (Class II)</u> A striped lane for one-way bike travel on a street or highway, typically including signs placed along the street segment.
- 3. <u>Bike route (Class III)</u> Provides a shared use with pedestrian or motor vehicle traffic. Typically, these facilities are city streets with signage designating the segment for Bike Route without additional striping or facilities.
- 4. <u>Separated Bikeways (Class IV)</u> A bikeway for the exclusive use of bicycles and includes a separation between the bikeway and the through vehicular traffic. The separation may include, but is not limited to, grade separation, flexible posts, inflexible posts, inflexible barriers, or on-street parking.

A bicycle network map for Monterey County is included in **Appendix B**. This map is cited from *Transportation Agency for Monterey County Bicycle and Pedestrian Master Plan*, Alta Planning + Design, December 2011 ("TAMC Bicycle and Pedestrian Master Plan").

Bicycle facilities are provided along the following roadways in the study network:

- Bike Lane (Class II):
  - a. Porter Drive: north of San Juan Road (both directions)

The shoulders present on Salinas Road south of Porter Drive are wide enough to accommodate bicycle traffic, although they are not formally striped as Class II bike lanes.

#### 2.4 Existing Transit Service

Monterey-Salinas Transit (MST) provides fixed-route bus service in Monterey County and Peninsula cities. Two MST bus lines provides service to the study area:

- Line 28 (Watsonville Salinas via Castroville). This line provides weekday and weekend service every two hours between roughly 6:30 AM – 10:00 PM.
- Line 29 (Watsonville Salinas via Prunedale). This line provides weekday and weekend service every two hours 90 minutes between roughly 6:00 AM 8:00 PM.

The nearest bus stops to the Project site (served by both Lines 28 and 29) are located on Porter Drive south of San Juan Road (both directions). These stops are located approximately 0.4 mile (about a 10- to 15-minute walk) from the project site. Additional bus stops are located on Salinas Road further south of the project site.

#### 2.5 Existing Conditions Traffic Circulation

#### 2.5.1 Susan Street Traffic Operations

Susan Street has a width of 36 feet measured from the back of the rolled curbs. This is the equivalent of a face of curb to face of curb width of 35 feet, which exceeds the Tertiary Street standard width of 34 feet from face of curb to face of curb on "Monterey County Standard Details," (County Standard Details) 1977, Plate 2. This same width is shown on Standard Detail Plate 3 for a Modified Tertiary Street. Plates 2 and 3 are included as **Appendix C**.

Per the County Standard Details, a Tertiary Street can accommodate up to 100 abutting residential lots and provide access to no more than 100 units. This has a corresponding range of 300 to 1,000 vehicles per day expected in 20 years. The Susan Street Apartments is proposed to include 61 apartments. There are a total of 19 existing lots. This a total of about 80 units, which is within the Tertiary Street range for number of units served. Adequate capacity is therefore provided for current traffic volumes.

#### 2.5.2 Intersection Operations

In May 2020, the Monterey County Health Department instituted a shelter-in-place order for all of Monterey County, restricting operations and travel to/from offices, commercial businesses, and recreational activities. This order was in response to the COVID-19 pandemic occurring within the County during the Year 2020. As a result, traffic activity throughout the county was significantly reduced from typical conditions, precluding the usual collection of peak period traffic volumes at the four study intersections.

Existing peak hour traffic volumes at the four study intersections in the Year 2021 were therefore referenced from the recent "Pajaro Apartments Traffic Impact Analysis," Keith Higgins Traffic Engineer, March 25, 2021, which approximated peak hour volumes using a combination of resources, as listed below.

- 1. AM and PM peak hour volumes from *G12: Prunedale to Pajaro Corridor Study Existing Conditions Report ("Existing Corridor Report")*, Omni-Means, August 2018. These volumes were collected in 2018.
- 2. Historical traffic growth in the study network was estimated using segment volumes in *Monterey County Public Works Annual Average 2019*, Monterey County Public Works Department, 2020. **Appendix C** contains three years (2017-2019) of annual average daily traffic (AADT) on Porter Drive and San Juan Road in Pajaro. Over that time, traffic grew an average of 2.33% per year. Hence, a growth rate of 2.33% for 2 years, or 4.66%, was applied to the Existing Corridor Report volumes to approximate Year 2021 volumes.
- 3. Traffic counts were also conducted at the San Juan Road / Susan Street intersection on August 28, 2021. These counts are used to confirm the accuracy of the San Juan Road volumes at the Gonda Street, Salinas Road and Porter Street intersections. The counts are also included in **Appendix D**.

The resulting Existing AM and PM peak hour volumes used in this analysis are depicted in **Exhibit 4**. Existing intersection lane configurations, traffic controls and levels of service at the study intersections are summarized in **Exhibit 5A**. Recommended intersection improvements are

summarized in **Exhibit 5B**. The LOS calculation sheets for Existing conditions can be found in **Appendix E**.

All the study intersections currently operate at or better than their respective level of service standards, as shown below:

- Intersection 1 Porter Street / San Juan Road LOS C (AM), LOS D (PM)
- Intersection 2 Porter Street Salinas Road / Stender Avenue Salinas Road LOS C AM, PM)
- 3. Intersection 3 San Juan Road / Salinas Road LOS B (AM), LOS C (PM)
- 4. Intersection 4 San Juan Road / Gonda Street LOS C (AM), LOS B (PM)
- 5. Intersection 5 San Juan Road / Susan Street LOS C (AM), LOS A (PM)

#### 2.5.3 Pedestrian Circulation

Pedestrian volumes are light in the immediate project vicinity and moderate near Salinas Road, Porter Drive and Main Street, due to the close proximity of Pajaro to downtown Watsonville and the presence of Pajaro Middle School south of the study area. Automobile ownership may also be lower than typical due to the lower income in the Pajaro community. The school population includes both residents from Pajaro and Watsonville, leading some students from Watsonville to walk to school. A total of 74 AM and 39 PM pedestrian crossings occurred at the Porter Drive / San Juan Road intersection during the study peak periods. These are adequately served by the existing pedestrian network described in Section 2.2 above.

#### 2.5.4 Bicycle Circulation

According to the Existing Corridor Report, there are a low number of bicycles traveling through the study intersections during the peak hours. Only 7 AM and 10 PM bicyclists passed through the Porter Drive / San Juan Road intersection during the study peak periods. The Existing Corridor Report cited earlier recommends converting the existing outside southbound through/right lane on the Main Street bridge over the Pajaro River to an exclusive right turn lane to allow the provision of bike lanes on Pajaro Street between San Juan Road and Salinas Street.

#### 3 EXISTING PLUS PROJECT CONDITIONS

#### 3.1 Project Description

This section of the report focuses on Existing Plus Project conditions with the Project conservatively utilized as standard apartments although the project will be agricultural employee housing. The Project will consist of 60 standard apartments and 1 manager apartment. This will provide as many as 480 beds if used as agricultural employee housing. No credit is given for existing agricultural operations on the Project site. The trip generation estimate for the Project is based on rates from *Trip Generation Manual*, 10<sup>th</sup> Edition, published by the Institute of Traffic Engineers in 2017 (Trip Generation Manual). This includes both the proposed apartments and manager's unit.

#### 3.2 Project Trip Generation

**Exhibit 6** provides the trip generation estimate for the Project operated as standard apartments. The Project is estimated to generate about 446 weekday daily trips, with 29 trips (6 in, 23 out) during the AM peak hour and 35 trips (22 in, 13 out) during the PM peak hour. As a worst case, the Project is analyzed as a standard apartment.

The Project is actually proposed to be used as H2A (Agricultural Worker) housing. As indicated on **Exhibit 6**, standard apartments would generate about 454 daily trips with 29 during the morning peak hour and 35 during the evening peak hour. H2A would generate about 148 daily trips with 4 in the morning peak hour and 36 in the evening peak hour when the Project is occupied.

H2A projects are only occupied during the growing season in the Pajaro and Salinas Valleys which extends from March through the middle of November, which is about 8.5 months. The Project would be unoccupied for the winter season, which lasts about 3.5 months. On an annualized basis, the Project would generate about 105 daily trips with 3 in the morning peak hour and 26 in the evening peak hour. The H2A alternative would only represent about one-fourth to one-third of the daily total, depending on whether it is considered on a peak occupancy or annual average basis. The AM peak hour would be 10% to 14% of the apartment trip generation.

#### 3.3 Project Trip Distribution and Assignment

**Exhibit 7** depicts the trip distribution for the Project. The trip distribution was combined with the Project trip generation to derive the Project trip assignment depicted in **Exhibit 7**.

#### 3.4 Existing Plus Project Condition Traffic Circulation

#### 3.4.1 Susan Street Traffic Operations

As discussed in Section 2.5.1 above, Susan Street exceeds the Tertiary Street width shown on the County Standard Details. Susan Street will therefore adequately accommodate up to 100 units. The addition of the Susan Street Apartments will result in about 80 units being served by Susan Street, which is within the Tertiary Street range. Susan Street will adequately accommodate Existing plus Susan Street Apartments traffic volumes.

#### 3.4.2 Intersection Operations

The Project trip assignment (**Exhibit 8**) was added to the existing traffic volumes in **Exhibit 4** to estimate the Existing Plus Project volumes depicted in **Exhibit 9**.

Existing Plus Project condition intersection levels of service are summarized in **Exhibit 5A**. Recommended intersection improvements are summarized in **Exhibit 5B**. The LOS calculation sheets for Existing Plus Project conditions can be found in **Appendix F**.

All study intersections would continue to operate at or better than their respective level of service standards under Existing Plus Project conditions. No improvements are required.

#### 3.4.3 Pedestrian Circulation

The Project is anticipated to generate pedestrian trips to and from commercial areas on Porter Drive as well as downtown Watsonville. There are existing sidewalks between the project site and these locations that provide adequate capacity for the additional pedestrian traffic. The exceptions are the three missing segments of sidewalk discussed in Section 2.2 "Existing Pedestrian Network" of this report and illustrated on **Exhibit 3**. The Project should construct the missing segments of sidewalk at the three locations, subject to coordination with the corresponding adjacent property owner.

#### 3.4.4 Bicycle Circulation

The Project is anticipated to generate a small amount of bicycle traffic. The existing bike lanes and shoulders on the study street network will be adequate to accommodate this additional bicycle traffic. Therefore, the Project would not represent a significant impact to bicycle circulation.

#### 3.4.5 Transit Circulation

The Project is anticipated to generate minimal transit demand. Therefore, the Project would not represent a significant impact to transit service.

#### 3.5 Impact Fees

The Project would be subject to the TAMC Regional Development Impact Fee and the Monterey County transportation impact fee. The project's fees applicable to the apartments would be different than the fees applicable for the agricultural employee housing.

#### 4 CUMULATIVE WITHOUT PROJECT CONDITIONS

This section describes the analysis results under Cumulative Without Project traffic conditions, which forecasts traffic conditions at buildout of the Monterey County and City of Watsonville General Plans. This scenario does not include trips from the study Project. This condition represents conditions in approximately the Year 2043.

#### 4.1 Derivation of Cumulative Without Project Condition Volumes

Traffic volumes under Cumulative Without Project conditions were estimated using growth rates derived in the report *G12: Prunedale to Pajaro Corridor Study ("G12 Corridor Study")*, GHD, June 13, 2019. This report forecasts a total volume growth rate over existing conditions of 7.4% over 22 years. This growth rate of 7.4% was applied to the Existing volumes in **Exhibit 4** to derive the Cumulative Without Project volumes shown in **Exhibit 10**.

#### 4.2 Network Modifications under Cumulative Conditions

Cumulative Without Project and Cumulative Plus Project conditions include street network modifications on Porter Drive at San Juan Road. These modifications were recommended in the G12 Corridor Study. These improvements are funded by the TAMC Regional Development Impact Fee. The improvements include the restriping of southbound Porter Drive to convert one southbound through/right lane into a southbound right turn lane. These improvements are necessary to add bicycle lanes in each direction on Porter Drive south of the intersection.

#### 4.3 Cumulative Without Project Traffic Conditions

#### 4.3.1 Intersection Operations

Cumulative Without Project traffic volumes are depicted on **Exhibit 10**. Cumulative Without Project intersection levels of service are summarized in **Exhibit 5A**. Recommended intersection improvements are summarized in **Exhibit 5B**. The LOS calculation sheets for Cumulative Without Project traffic conditions can be found in **Appendix G**.

All study intersections will continue to operate at or better than their respective level of service standards under Cumulative Without Project conditions, as shown below:

- 1. Intersection 1 Porter Street / San Juan Road LOS D (AM, PM)
- 2. Intersection 2 Porter Street Salinas Road / Stender Avenue Salinas Road LOS D (AM), LOS C (PM)
- Intersection 3 San Juan Road / Salinas Road LOS B (AM), LOS C (PM)
- 4. Intersection 4 San Juan Road / Gonda Street LOS C (AM, PM)
- 5. Intersection 5 San Juan Road / Susan Street LOS C (AM), LOS B ( PM)

No improvements will be required at any of these intersections.

#### 4.3.2 Pedestrian Circulation

The G12 Corridor Study proposes the widening of the existing sidewalks on Porter Drive and Salinas Road, including near Pajaro Middle School. There are no other planned pedestrian improvements in the study area under Cumulative Without Project conditions other than to construct

sidewalks along future streets where appropriate and to close gaps in existing sidewalks along Susan Street (discussed earlier in this report) as well as elsewhere in the Pajaro Community.

#### 4.3.3 Bicycle Circulation

The TAMC bike and ped plan proposes the following future bicycle improvements in the study area.

- Bike Lane (Class II):
  - a. San Juan Road: between Porter Drive and US 101 (both directions)

The Final Corridor Study also proposes the following future bicycle improvements in the study area.

- Bike Lane (Class II):
  - b. Porter Drive: between Salinas Road and San Juan Road (both directions)
  - c. San Juan Road: between Porter Drive and Elkhorn Road (both directions)

#### 4.3.4 Transit Circulation

There are no anticipated transit improvements in the study area.

#### 5 CUMULATIVE PLUS PROJECT CONDITIONS

This section describes the analysis results under Cumulative Plus Project traffic conditions, which adds Project trip to the Cumulative Without Project volumes.

#### 5.1 Derivation of Cumulative Plus Project Condition Traffic Volumes

The Project trip assignment (**Exhibit 7**) was added to the Cumulative Without Project volumes (**Exhibit 9**) to estimate Cumulative Plus Project traffic volumes, which are depicted on **Exhibit 11**.

#### 5.2 Cumulative Plus Project Traffic Conditions

#### 5.2.1 Intersection Operations

Cumulative Plus Project intersection levels of service are summarized in **Exhibit 5A**. Recommended intersection improvements are summarized in **Exhibit 5B**. The LOS calculation sheets for Cumulative Plus Project traffic conditions can be found in **Appendix H**.

All study intersections would continue to operate at or better than their respective level of service standards under Cumulative Plus Project conditions. No improvements will be required.

#### 5.2.2 Pedestrian Circulation

Pedestrian activity is not anticipated to increase significantly under Cumulative Plus Project conditions as compared to Cumulative Without Project conditions. Therefore, the Project would not represent a significant effect on pedestrian circulation under Cumulative Plus Project conditions, other than along Susan Street, which has been discussed in detail earlier in this report

#### 5.2.3 Bicycle Circulation

Bicycle activity is not anticipated to increase significantly under Cumulative Plus Project conditions as compared to Cumulative Without Project conditions. Therefore, the Project would not represent a significant effect on bicycle circulation under Cumulative Plus Project conditions.

#### 5.2.4 Transit Circulation

Transit demand from the Project is not anticipated to increase significantly under Cumulative Plus Project conditions. As such, the Project would not represent a significant cumulative effect on transit circulation.

#### 6 SITE ACCESS AND INTERNAL CIRCULATION

This section summarizes the site access and internal circulation analysis, including Project driveway operations, based on the site plan included as **Exhibit 2**.

#### 6.1 Vehicle Circulation

The onsite parking area has direct access to Susan Street. All project site traffic would travel on Susan Street to and from San Juan Road. This intersection will operate acceptably through Cumulative Plus Project conditions without any improvements.

The project driveway on Susan Street will operate acceptably through Cumulative Plus Project conditions. This is because the project is located at the existing terminus of Susan Street, where there is little to no cross traffic on Susan Street.

The on-site bus loading area will be located along the northernmost building on the project site. Passenger vehicles and buses will be able to circulate on the loop circulation aisle that will provided around the Project's building complex. This will provide alternate internal access for the entire project and eliminate the need for buses to turn around within the Project site. Project access and internal circulation is adequate as proposed.

#### 6.2 Pedestrian Circulation

Sidewalks are proposed around all on-site buildings. A crosswalk is proposed across the onsite driveway for easy access to both ADA parking and Susan Street. No additional on-site pedestrian circulation improvements are required. Off-site pedestrian improvements along Susan Street are discussed elsewhere in this report.

#### 6.3 Bicycle Circulation

Bicycle racks are located adjacent to each building, plus in the far southwest corner of the site plan. In total, approximately 24 bike racks are provided, which is double the 12 racks required per Monterey County standards. No bicycle improvements are required.

#### 6.4 Emergency Access

Emergency access to the Project site is provided by Susan Street. According to the North County Fire District email included as **Appendix I** emergency access is acceptable to serve the Project.

#### 7 VEHICLE MILES TRAVELED

This section summarizes the calculation of the total vehicle miles traveled by Project traffic.

Vehicle Miles Traveled (VMT) represents the total number of miles traveled per weekday by all vehicles while traveling to and from a Project site. Monterey County is in the process of establishing a VMT standard with significance criteria for VMT evaluations in the unincorporated areas of the county. The draft policy has been reviewed by the Monterey County Planning Commission which has recommended it for approval by the Board of Supervisors. The schedule for the Board to consider this policy has not been established as of the date of this report. However, it is assumed to occur in the next several months. **Exhibit 12** provides the heat map, which indicates by color code the areas of North Monterey County where residences generate vehicle miles per capita below (in green) or above (orange or red) the significance threshold. The threshold is 15% below the County-wide average VMT per capita.

Residential development in the entire Pajaro area, including the Project site, has been determined to generate VMT below the County threshold. No additional analysis is required. The discussion below is therefore superseded. However, it explains why Pajaro residential development has low VMT per capita relative to the County average. It also discusses why the H2A project alternative also would have VMT per capita below the County average and may reduce regional VMT by providing bus transportation for Project residents to and from work as well as personal trips during non-work hours.

#### 7.1 Apartments

Assuming the worst-case apartment use, the project will generate about 454 weekday daily trips, which is greater than the default threshold of 110 daily trips above which a VMT analysis is recommended according to the *Technical Advisory on Evaluating Transportation Impacts in CEQA*, State of California Governor's Office of Planning and Research, December 2018. The project generally fits the following generic criteria per Proposed CEQA Guideline Section 15064.3, subdivision (b)(1).

- 1. Projects (including residential, retail, and office projects, as well as projects that are a mix of these uses) proposed within ½ mile of an existing major transit stop or an existing stop along a high-quality transit corridor will have a less-than-significant impact on VMT.
  - The project is located about ¾ mile from the Watsonville Transit Center, located at the southerly corner of the Rodriquez Street / East Lake Street intersection in Watsonville as well. A total of nine Santa Cruz Metro Transit District and Monterey Salinas Transit (MST) routes converge. MST Routes 28 and 29 operate along Pajaro Street and Main Street within 0.30 miles of the site. They each operate on a 2-hour headway between the City of Salinas and the Watsonville Transit Center.
- 2. Adding affordable housing to infill locations generally improves the jobs-housing match, in turn shortening commutes and reducing VMT. Further, according to "... low-wage workers in particular would be more likely to choose a residential location close to their workplace, if one is available." In areas where existing jobs-housing match is closer to optimal, low-income housing nevertheless generates less VMT than market-rate housing. Therefore, a

project consisting of a high percentage of affordable housing may be a basis for the lead agency to find a less-than-significant impact on VMT. Evidence supports a presumption of less than significant impact for a 100 percent affordable residential development (or the residential component of a mixed-use development) in infill locations.

The project nearly meets the exemption based on transit service. If used as standard apartments it would qualify as affordable housing given its location in Pajaro as well as being multi-family housing. It would also be infill because it is one of the only remaining vacant developable parcels within the Pajaro Community.

#### 7.2 Agricultural Worker Housing

The project will house up to 480 workers. They will be transported to and from a variety of agricultural fields throughout the Pajaro Valley by buses and vans. Workers will also be provided with shuttles or walk and bicycle to local businesses within Pajaro and Watsonville for personal trips. The use of buses and vans to transport these workers with vehicle occupancy ranging from 9 to 30 or more workers per vehicle will significantly reduce VMT compared to the workers driving themselves to the fields from existing housing in the region. The H2A housing project will therefore have a beneficial effect on VMT. There is therefore no need for further VMT analysis for the H2A Project alternative.

#### 8 COLLISION ANALYSIS

California Statewide Integrated Traffic Records System (SWTRS) was obtained for the intersection of Susan Street and San Juan Road and Susan Street (from end to San Juan Road) between January 1, 2011, and October 21, 2021 through the Transportation Injury Mapping System (TIMS) platform provided by the University of California at Berkeley. The summary data is included as **Appendix J. Exhibit 13** tabulates this data.

According to TIMS records, a total of 12 collisions were reported along San Juan Road that were located by their distance from the San Juan Road / Susan Street intersection during the past 10.8 years. It will be noted that the collisions occurred along a segment of San Juan Road extending from about 50 feet west of Susan Street to 1,584 feet east of Susan Street. Susan Street was used as the reference point for identifying the location of these collisions because this is the most easterly public street intersection along San Juan Road in the area. Six of the collisions involved parked cars. Seven were caused by unsafe lane changes including passing in the two way left turn lane, two were due to unsafe speed. None were at the Susan Street intersection.

Only one collision was associated directly or indirectly with the Susan Street intersection. It involved a vehicle that was hit broadside exiting a private residential driveway about 60 feet west of Susan Street. Although in relatively close proximity, this collision was not associated with traffic operations at the San Juan Road / Susan Street intersection.

No collisions were reported along Susan Street in the last 10.8 years.

There are no apparent traffic safety issues thus no remedial measures are required at the San Juan Road / Susan Street intersection or along Susan Street.

#### 9 SUMMARY OF PROJECT RESPONSIBILITIES

The following is a summary of the Project responsibilities regarding traffic issues and impacts, based upon the recommendations discussed earlier in this report.

- 1. The Project should construct sidewalks at the three missing segments along the west side of Susan Street to provide a continuous sidewalk between the Project and San Juan Road, subject to the approval of, and in coordination with, the corresponding adjacent property owners. This is discussed in Section 2.2 "Existing Pedestrian Network" of this report.
- 2. Pay the TAMC Regional Development Impact Fee. Monterey County staff will quantify the applicable fees to the Project at the time of development.
- 3. Pay the County of Monterey Traffic Impact Fee. Monterey County staff will quantify the applicable fee to the Project at the time of development.

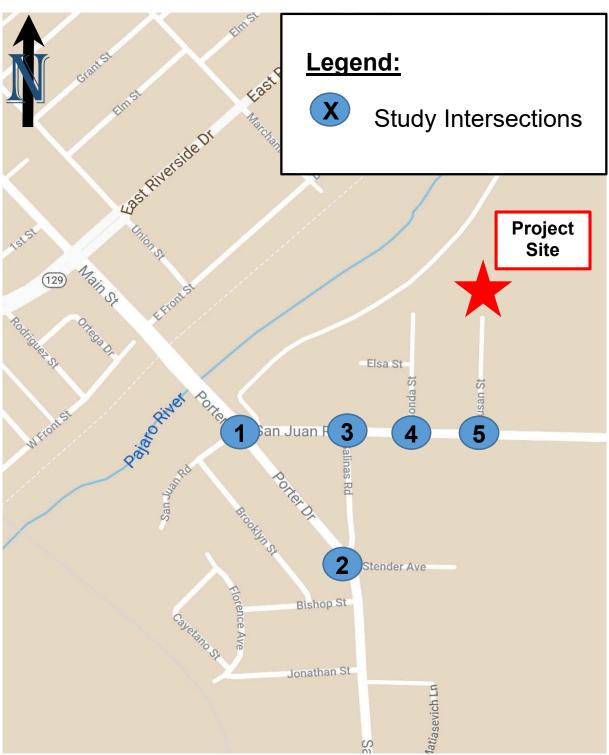
#### **10 REFERENCES**

#### 10.1 List of References

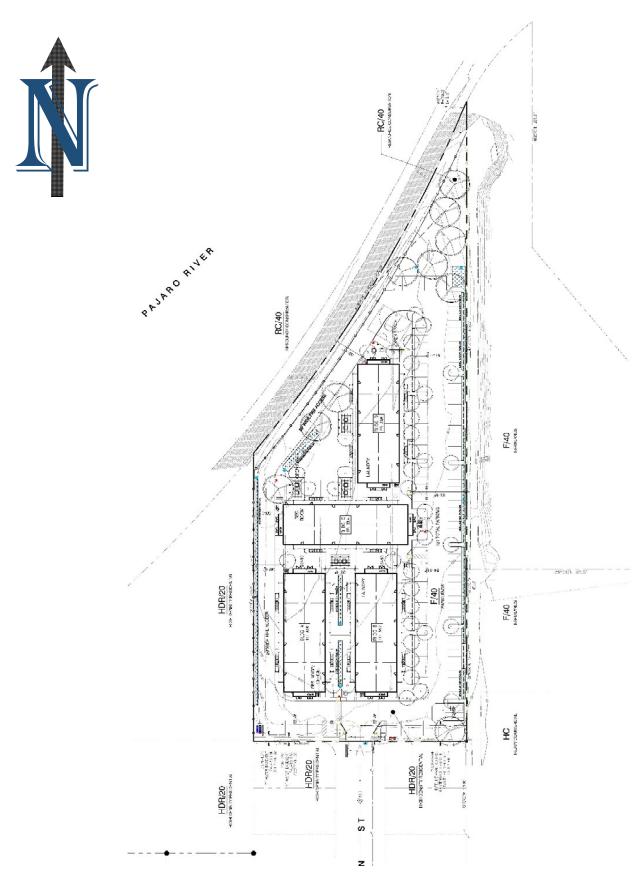
- 1. 2010 Highway Capacity Manual, Transportation Research Board, 2010.
- 2. 2000 Highway Capacity Manual, Transportation Research Board, 2000.
- 3. Guide for the Preparation of Traffic Impact Studies, Monterey County Resource Management Agency Department of Public Works, March 2014.
- 4. 2007 Monterey County General Plan Draft Environmental Impact Report, ICF Jones & Stokes, September 2008.
- 5. The Regional Impact Fee Program Nexus Study Update 2018, Wood Rodgers, October 2018.
- 6. *Highway Design Manual*, 6<sup>th</sup> Edition, California Department of Transportation (Caltrans), November 20, 2017.
- 7. Transportation Agency for Monterey County Bicycle and Pedestrian Master Plan, Alta Planning + Design, December 2011.
- 8. Monterey-Salinas Transit web site, <a href="http://www.mst.org">http://www.mst.org</a>. Accessed February 26, 2021.
- 9. G12: Prunedale to Pajaro Corridor Study Existing Conditions Report, Omni-Means, August 2018.
- 10. Monterey County Public Works Annual Average 2019, Monterey County Public Works Department, 2020.
- 11. Trip Generation Manual, 10<sup>th</sup> Edition, Institute of Transportation Engineers, 2017.
- 12. G12: Prunedale to Pajaro Corridor Study, GHD, June 13, 2019.
- 13. Technical Advisory on Evaluating Transportation Impacts in CEQA, State of California Governor's Office of Planning and Research, December 2018
- 14. Statewide Integrated Traffic Records System (SWITRS), California Highway Patrol, 2021

#### 10.2 List of Contacts

- 1. Jeff Nohr, Project Manager, Avila Construction, Monterey, California.
- 2. Paul Davis, The Paul Davis Partnership, Monterey, California.
- 3. Juan Hernandez, Monterey County Public Works Department, Salinas, California.
- 4. Fernando Armendariz, Monterey County Public Works Department, Salinas, California.



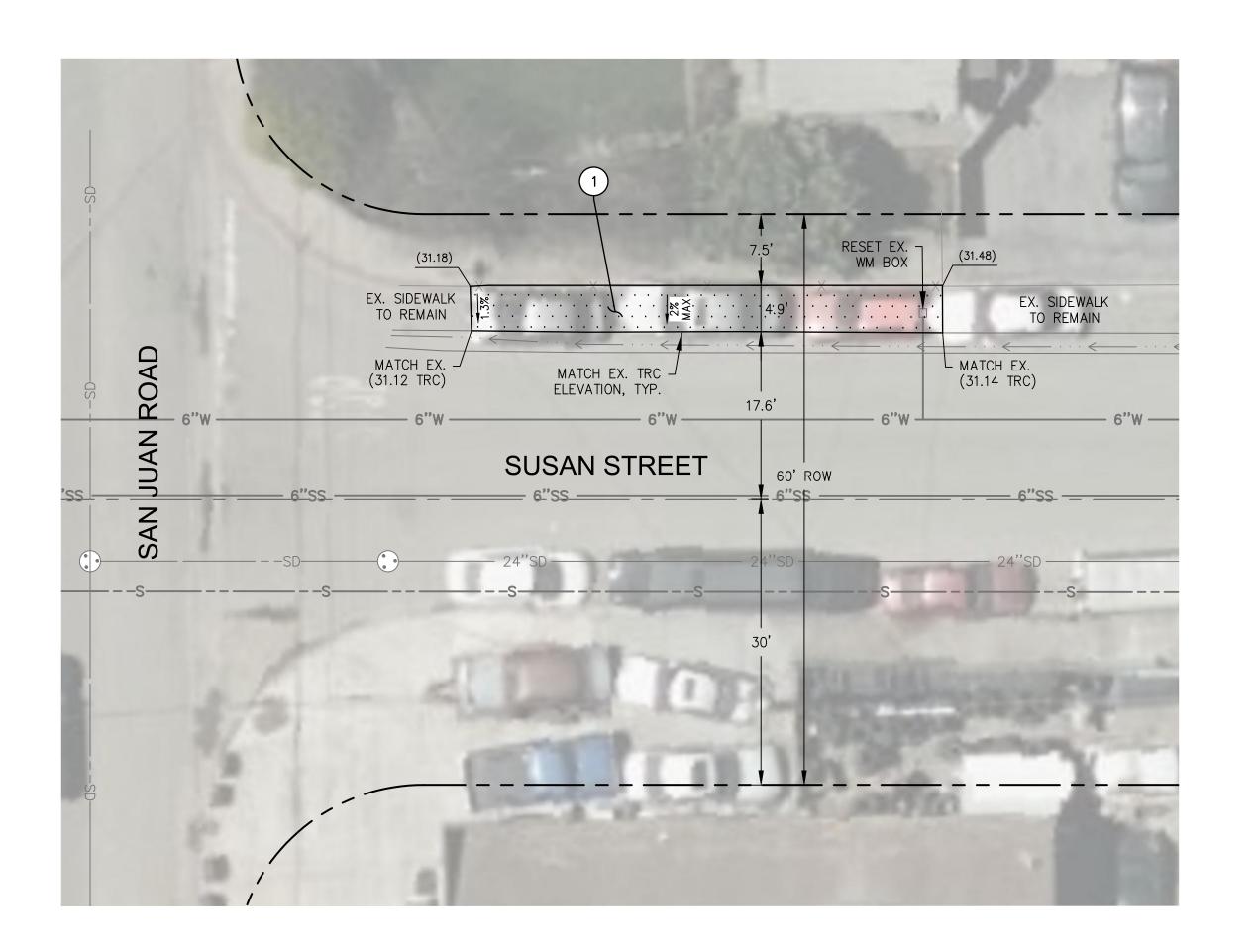
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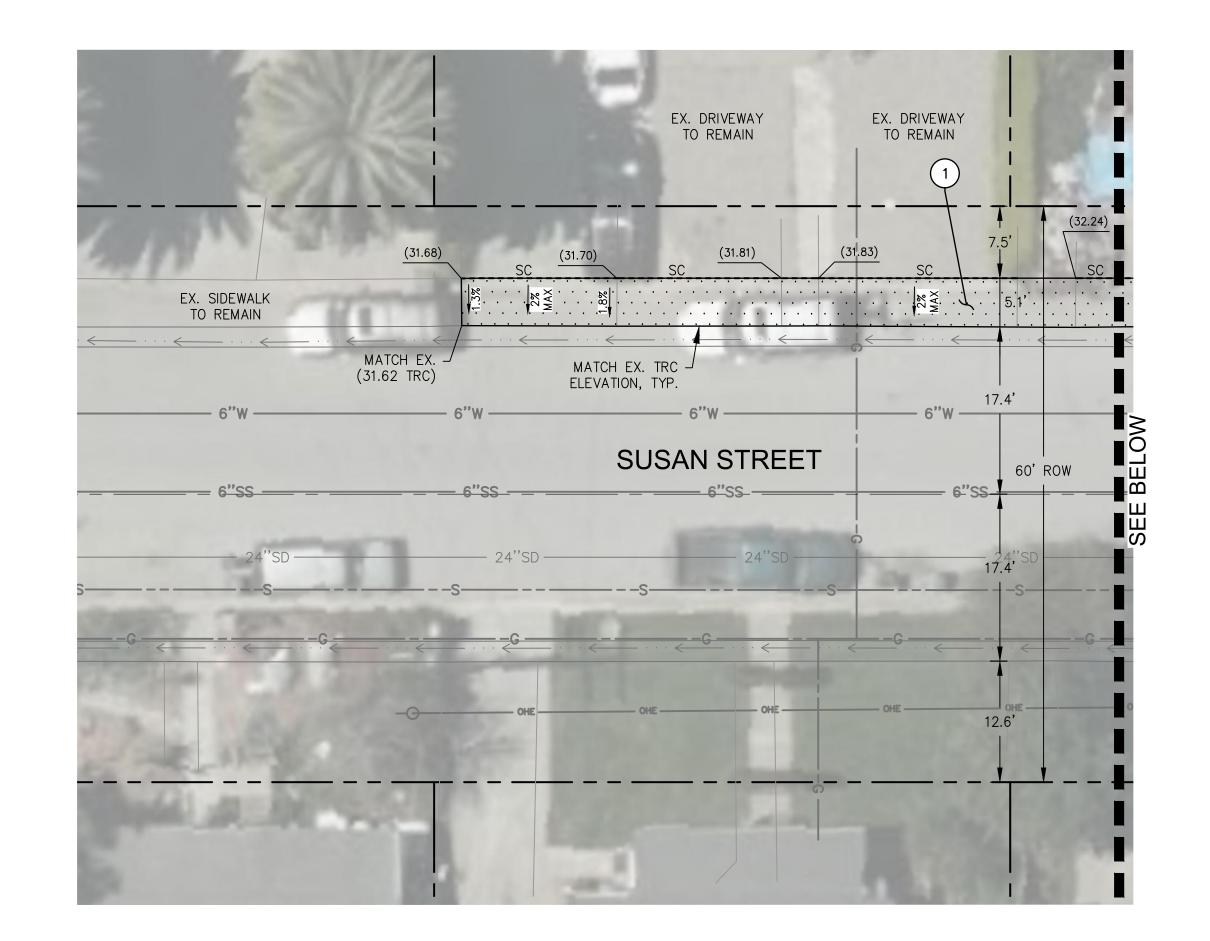


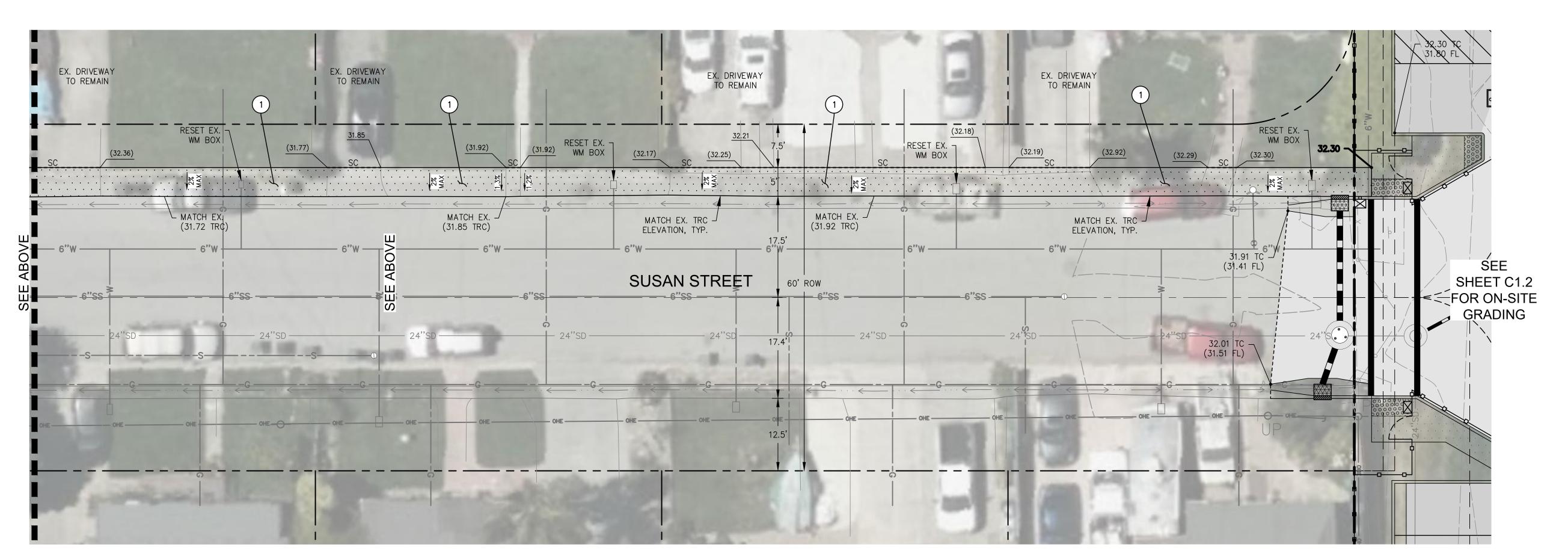
Source: The Paul Davis Partnership, 10/14/21.

Keith Higgins
Traffic Engineer

Exhibit 2 Project Site Plan

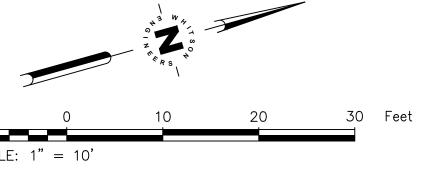






Keith Higgins
Traffic Engineer

Source: Whitson Engineers, 11/23/21
Note 1 - Proposed sidewalk improvements are noted in dotted areas along west side of Susan Street.



Project / Owner:

# Susan Street Agricultural Employee Housing

51, 53, 55, & 57 SUSAN ST PAJARO, CA 95076

APN.: 117-361-016-000







The Paul Davis Partnership, LLP 286 Eldorado Street Monterey, CA 93940 (831) 373-2784 FAX (831) 373-7459 EMAIL: info@pauldavispartnership.com



Drawing Do

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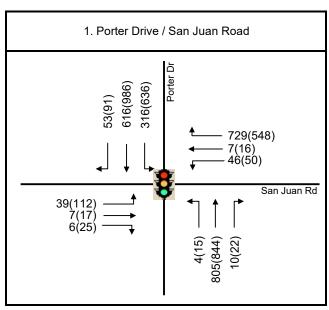
Planning Submittal 10-14-2021 Planning Resubmittal 11-23-2021

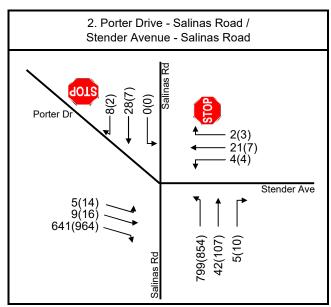
# PLANNING REVIEW ONLY SUBJECT TO REVISION

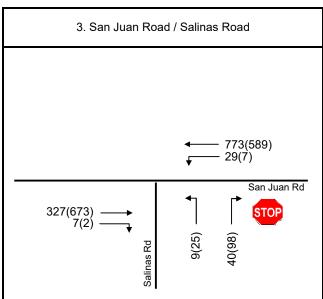
The use of these plans and specifications is restricted to the original site for which they were prepared, and publication thereof is expressly limited to such use. Re—use, reproduction or publication by any method in whole or in part is prohibited. Title to the plans and specifications remains with the architect, and visual contact with them constitutes prima facie evidence of

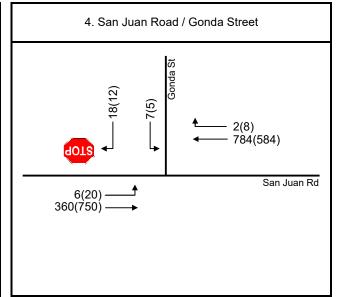
OFF-SITE IMPROVEMENT PLAN - SUSAN STREET

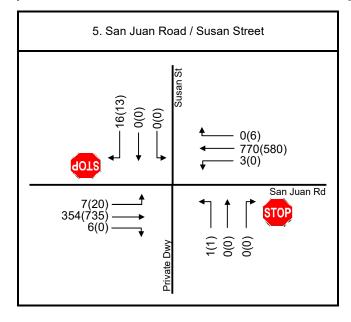
Exhibit 3
Susan Street
Sidewalk
Improvements











			Existing	Existing			Exis Condi	-	Existing Proje Condit	ect	Cumula Without F Condit	Project	Cumula Plus Pro Condit	oject
	N-S Street	E-W Street	Lane Configuration	Intersection Control	LOS Standard	Peak Hour	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
1	Porter	San Juan	NB 1-L, 1-T, 1-T/R	Signal	D	AM	27.3	С	27.5	С	38.9	D	39.0	D
	Drive	Road	SB 2-L, 1-T, 1-T/R	Olgridi		PM	44.4	D	44.8	D	51.7	D	52.0	D
			EB 1-L, 1-T, 1-R											
			WB 1-L/T, 2-R	With	Improvement	AM								
						PM								
2	Salinas	Porter	NB 1-L/T/R	One-Way	Е	AM	23.4	С	23.5	С	26.7	D	26.7	D
	Road	Drive -	SB 1-L/T/R	Stop*		PM	21.8	С	21.9	С	24.0	С	24.1	С
		Stender	EB 1-L/T, 1-R											
		Avenue	WB 1-L/T/R	With I	Improvement	AM								
						PM	10.0	_	40.0					_
3	Salinas	San Juan	NB 1-L/R	One-Way	Е	AM	12.2	В	12.2	В	12.7	В	12.7	В
	Road	Road	EB 1-T/R	Stop		PM	15.9	С	16.3	С	17.4	С	17.7	С
			WB 1-L, 1-T	M/ith	  mprovement									
				VVILITI	Improvement									
4	0 1	0 1	00.41/0	2 11/		PM	47.0		47.5		40.0		40.7	
4	Gonda	San Juan	SB 1-L/R	One-Way Stop	Е	AM PM	17.2 14.2	С	17.5	С	19.3	C B	19.7	C C
	Street	Road	EB 1-L, 1-T	Stop		PIVI	14.2	В	14.4	В	15.1	В	15.3	C
			WB 1-T/R	With	  mprovement	A A 4								
				VVILITI	mprovement	AM PM								
-	Cusan	Can luan	NB 1-L/T/R	0 14/		AM	29.3/15.0	D/C	31.3/18.8	D/C	32.1/15.6	D/C	34.5/20.1	D/C
5	Susan	San Juan		One-Way Stop	E/E	PM	38.3/8.9	E/A	41.4/17.4	E/C	41.4/12.8	E/B	46.4/18.6	E/C
	Street	Road	SB L/T/R	Ctop		FIVI	30.3/0.9	E/A	41.4/17.4	E/C	41.4/12.0	E/D	40.4/10.0	E/C
			EB 1-L, 1-T/R WB 1-L, 1-T/R	With	  mprovement	AM								
			VVD 1-L, 1-1/10	VVILITI	mprovement	PM								
						PIVI								

#### Notes:

- 1. L, T, R = Left, Through, Right.
- 2. NB, SB, EB, WB = Left, Through, Right, Northbound, Southbound, Eastbound, Westbound.
- 3. Monterey County overall levels of service standard is LOS D. Side-street standard is assumed as LOS E.
- 4. For signalized intersection analysis, delay is average overall delay in seconds per vehicle (sec/veh). For oneand two-way stop intersections, delays are side-street approach operations, also in seconds per vehicle (sec/veh).
- 5. Analysis performed using 2010 and 2000 Highway Capacity Manual methodologies.
- 6. Level of service calculations can be found in Appendices D through G.

## Keith Higgins Traffic Engineer

- 7. LOS highlighted in red indicates intersection operating below level of service standard.
- 8. LOS with a thick black border represents a significant impact. Resulting levels of service with recommended improvements noted under "With Improvements". A list of applied improvements can be found on Exhibit 4B.
- 9. \* = This intersection has both cross streets on the same side of the street. Analysis models this intersection by combining both the south and east approaches to the intersection into a single approach.

Exhibit 5A Intersection Levels of Service

	N-S Street	E-W Street	Existing Intersection Control	Existing Conditions	Existing Plus Project Conditions	Cumulative Without Project Conditions	Cumulative Plus Project Conditions
1	Porter Drive	San Juan Road	Signal	None Required	None Required	None Required	None Required
2	Salinas Road	Porter Drive - Stender Avenue	One-Way Stop*	None Required	None Required	None Required	None Required
3	Salinas Road	San Juan Road	One-Way Stop	None Required	None Required	None Required	None Required
4	Gonda Street	San Juan Road	One-Way Stop	None Required	None Required	None Required	None Required
5	Susan Street	San Juan Road	One-Way Stop	None Required	None Required	None Required	None Required

#### Notes:

- 1. L, T, R = Left, Through, Right.
- 2. NB, SB, EB, WB = Northbound, Southbound, Eastbound, Westbound.
- 3. \* = This intersection has both cross streets on the same side of the street. Analysis models this intersection by combining both the south and east approaches to the intersection into a single approach.



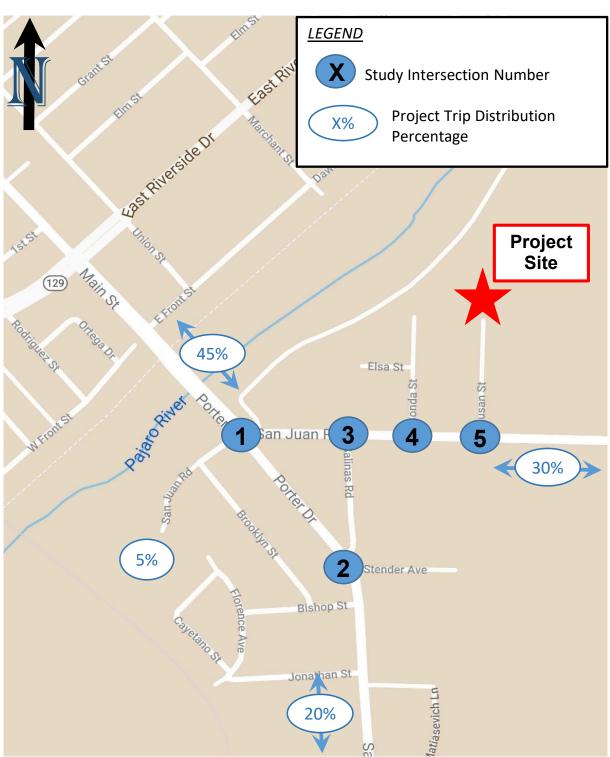
	PROPOSED	PROJEC	T - APA	RTME	NTS					
A. Project Trip Rates										
				AM PE	AK HOU	<u>R</u>	P	M PEA	K HOUR	
	ITE	DAILY	PEAK	%			PEAK	%		
	LAND USE	TRIP	HOUR	OF	%	%	HOUR	OF	%	%
TRIP GENERATION RATES	CODE	RATE	RATE	ADT	IN	OUT	RATE	ADT	IN	OUT
Multifamily Housing (Low-Rise) (per unit)	220	7.32	0.46	6%	23%	77%	0.56	8%	63%	37%
B. Project Trip Generation										
				AM PE	AK HOU	<u>R</u>	<u>P</u>	M PEA	K HOUR	
			PEAK	%			PEAK	%		
	PROJECT	DAILY	HOUR	OF	TRIPS	TRIPS	HOUR	OF	TRIPS	TRIPS
PROPOSED USE	SIZE	TRIPS	TRIPS	ADT	IN	OUT	TRIPS	ADT	IN	OUT
Apartments	61 units	447	28	6%	6	22	34	8%	21	13
Apartment - Manager's Unit	1 unit	7	1	14%	0	1	1	14%	1	0
Total:		454	29		6	23	35		22	13

PROPO	SED PROJECT	- AGRICIII	TURAL	EMDI	OVEE HO	JUSING				
A. Project Trip Rates	<u>SEDT ROSECT</u>	- AGINICUL	TORAL		OTELTIC	3031110				
, ,				AM PE	AK HOU	R	<u>P</u>	M PEA	K HOUR	
			PEAK	%			PEAK	%		
	<b>EXISTING</b>	DAILY	HOUR	OF	%	%	HOUR	OF	%	%
REFERENCE USE	SIZE	TRIPS	TRIPS	ADT	IN	OUT	TRIPS	ADT	IN	OUT
Casa Boronda Ag. Employee Housing	600 beds	N.A.	4		3	1	43		22	21
Driveway Count <sup>1</sup>	600 beds	IV.A.	4		3	'	43		22	21
Trip Rates (per employee): <sup>2</sup>		0.288	0.007		75%	25%	0.072		51%	49%
B. Project Trip Generation										
				AM PE	AK HOU	<u>R</u>	<u>P</u>	M PEA	K HOUR	i
1				%			PEAK	0/		
			PEAK	%			FEAR	%		
	PROJECT	DAILY	HOUR	% OF	TRIPS	TRIPS	HOUR	% OF	TRIPS	TRIPS
PROPOSED USE	PROJECT SIZE	DAILY TRIPS			TRIPS IN	TRIPS OUT		, -	TRIPS IN	TRIPS OUT
PROPOSED USE Agricultural Employee Housing		_,	HOUR	OF		_	HOUR	OF	_	
- 1101 00== 00=	SIZE	TRIPS	HOUR TRIPS	OF ADT	IN	_	HOUR TRIPS	OF ADT	IN	OUT
Agricultural Employee Housing	SIZE 488 beds	<b>TRIPS</b> 141	HOUR TRIPS	OF ADT 2%	<b>IN</b> 2	_	HOUR TRIPS	OF ADT 25%	IN	<b>OUT</b> 17
Agricultural Employee Housing Apartment - Manager's Unit	SIZE 488 beds	TRIPS 141 7	HOUR TRIPS 3 1	OF ADT 2% 14%	IN 2 0	OUT 1 1	HOUR TRIPS 35 1	OF ADT 25% 14%	18 1	<b>OUT</b> 17 0
Agricultural Employee Housing Apartment - Manager's Unit Raw (Peak Hour) Total (used in analysis):	SIZE 488 beds	TRIPS 141 7 148	HOUR TRIPS 3 1	OF ADT 2% 14%	IN 2 0	OUT 1 1	HOUR TRIPS 35 1 36	OF ADT 25% 14%	18 1	<b>OUT</b> 17 0

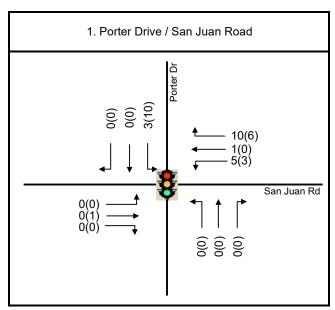
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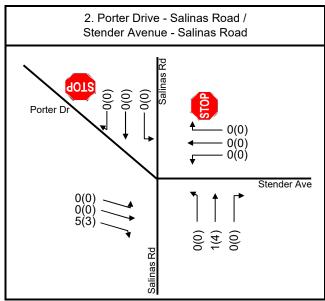
- 1. AM and PM peak hour traffic at Casa Boronda was collected Tuesday, April 16, 2019. This data can be found in **Appendix C**.
- 2. Daily trip rate derived by assuming that PM peak rate is 25% of the daily trip rate.
- 3. Estimated trip generation for Casa Boronda project cited from Casa Boronda Agricultural Employee Housing Project Traffic Impact Analysis, Keith Higgins Traffic Engineer, July 3, 2017.
- 4. Seasonal adjustment reflects that project is open for just 8.5 months of the year (i.e., approximately 71% of a year).

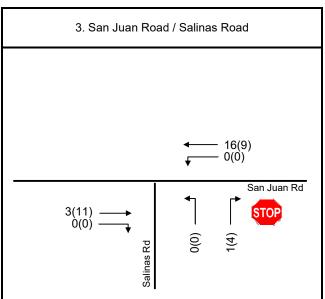


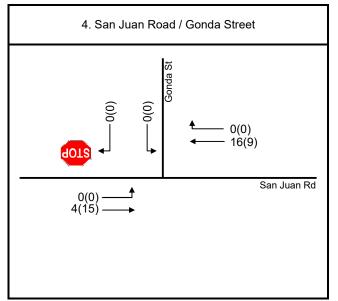


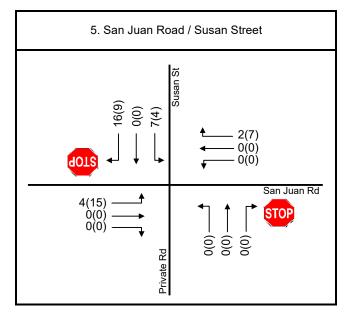
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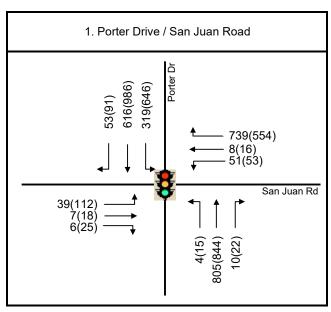


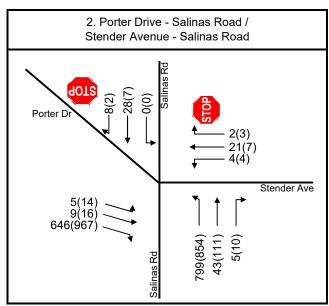


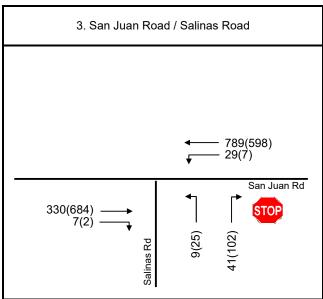


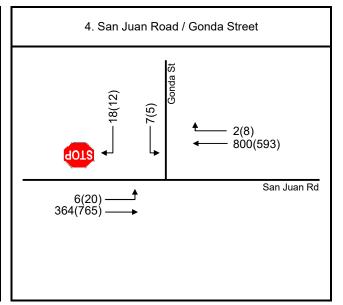


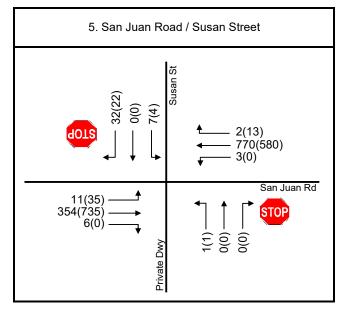


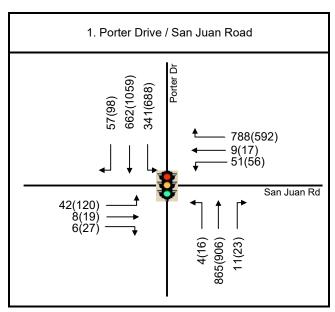


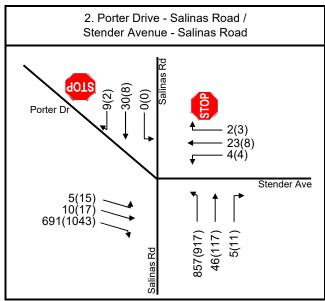


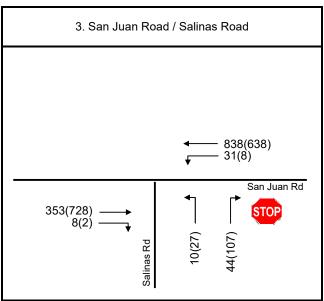


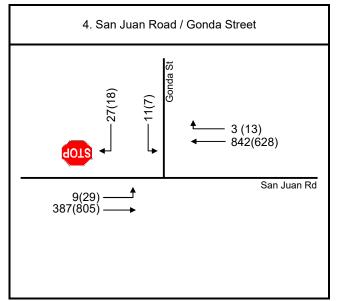


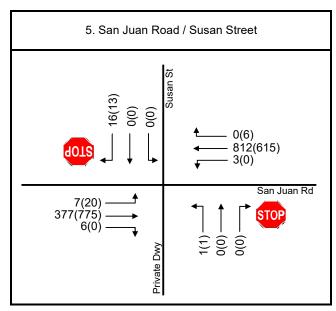


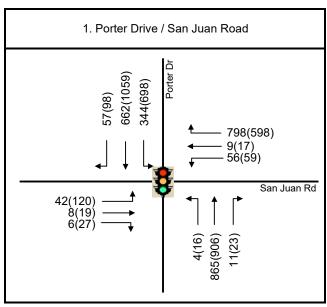


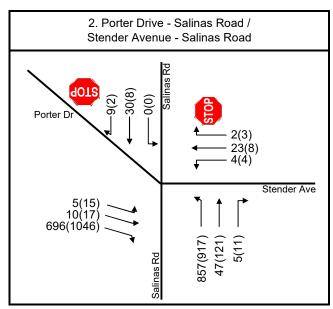


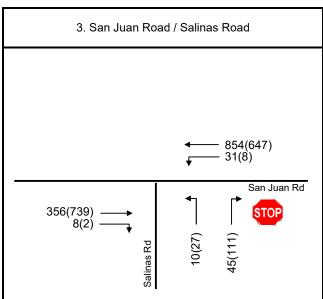


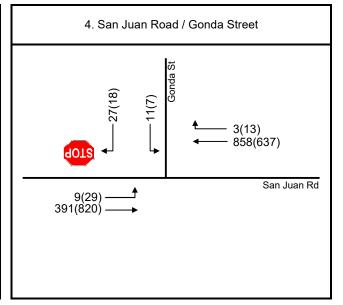


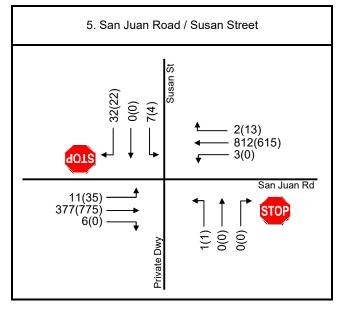


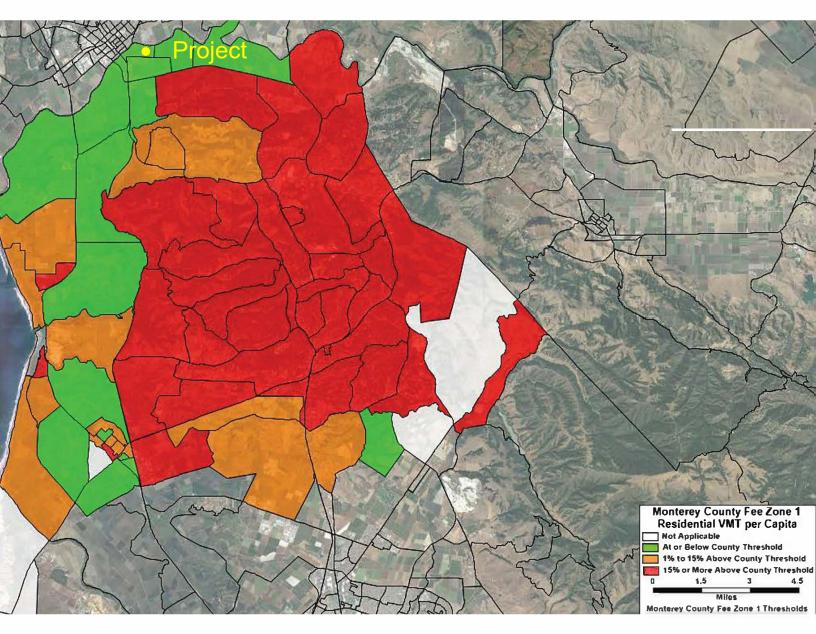












Source: Draft Monterey County Vehicle Miles Traveled Policy - "Monterey County Fee Zone 1 Residential VMT per Capita," Heat Map, approved by Monterey County Planning Commission, June 30, 2021

Keith Higgins
Traffic Engineer

Exhibit 12 North County VMT Heat Map

				Primary			Party 1	Distance			In Proximity	
		Collision		Collision	When O	curred	Direction	from	Numb	er of	to	
No.	Date	Type	Violation	Factor	Day	Time	of Travel	Intersection	Fatalities	Injuries	Intersection	Comment
						None in 2	2011					
						None in 2	2012					
						None in 2	2013					
1	3/20/2014	Sideswipe	22107	Unsafe Lane Change	Thursday	2:50 PM	EB	150 ft. East	0	0	No	Hit EB Parked Car
2	8/19/2014	Sideswipe	21460.5	Passing in TWLTL	Tuesday	2:30 PM	WB	528 ft. East	0	0	No	WB Passing
3	9/10/2014	Hit Object	None	Not Driver	Wednesday	8:15 PM	NB	300 ft. East	0	0	No	Exit Driveway
4	10/11/2016	Broadside	22107	Unsafe Lane Change	Tuesday	2:30 AM	EB	50 ft. West	0	1	No	Hit EB Parked Car
5	12/18/2017	Sideswipe	22107	Unsafe Lane Change	Monday	8:15 PM	EB	1150 ft. East	0	1	No	Hit EB Parked Car
6	10/21/2017	Broadside	21804a	Failure to Yield	Thursday	10:40 AM	NB	60 ft. West	0	0	No	Exit Driveway
7	11/27/2017	Rear End	22350	Unsafe Speed	Sunday	1:00 PM	WB	528 ft. East	0	1	No	
8	9/22/2019	Rear End	22107	Unsafe Lane Change	Sunday	7:45 AM	WB	40 ft. East	0	0	No	Hit WB Parked Car
												Backing into Traffic
9	2/8/2019	Hit Object	22106	Start/Backing	Friday	12:50 PM	EB	60 ft. East	0	0	No	at Driveway
10	1/29/2020	Hit Object	22107	Unsafe Lane Change	Wednesday	12:45 PM	EB	1584 ft. East	1	0	No	Hit NB Parked Car
11	8/1/2020	Sideswipe	22350	Unsafe Speed	Saturday	6:35 AM	WB	475 ft. East	0	0	No	Hit EB Left Turn
12	10/21/2021	Sideswipe	22107	Unsafe Lane Change	Thursday	8:05 PM	WB	200 ft. East	0	1	No	Hit WB Parked Car

#### Notes:

- 1. Collision data obtained from California Highway Patrol web site: https://iswitrs.chp.ca.gov/ from January 1, 2011 through Ocotber 21, 2021.
- 2. Intersection collisions are defined as within approximately 200 feet of the intersection and associated with intersection traffic operations.
- 3. No collisions were reported in 2011, 2012, 2013, 2015 and 2018.
- 4. 12 Collisions in 10.8 Years at locations along San Juan Road measured from Susan Street, although none appear to be associated with traffic movements to or from Susan Street.
- One (Collision 6) apparently was a broadside involving a vehicle exiting a private residential driveway about 60 feet west of Susan Street. This is the only collision that is the type typically associated with conflicts occurring at an intersection. However, this appears to have no relationship with the Susan Street intersection.
- 6. 6 collisions were with parked cars; 7 were unsafe lane changes or passing; 2 were unsafe speed; 1 was failure to yield; 1 was start or backing in the roadway.

Keith Higgins
Traffic Engineer

Exhibit 13
Collision History
on San Juan Road
near Susan Street

## Appendix A

Level of Service

Descriptions

#### **APPENDIX A1**

# LEVEL OF SERVICE (LOS) DESCRIPTION SIGNALIZED INTERSECTIONS

The capacity of an urban street is related primarily to the signal timing and the geometric characteristics of the facility as well as to the composition of traffic on the facility. Geometrics are a fixed characteristic of a facility. Thus, while traffic composition may vary somewhat over time, the capacity of a facility is generally a stable value that can be significantly improved only by initiating geometric improvements. A traffic signal essentially allocates time among conflicting traffic movements that seek to use the same space. The way in which time is allocated significantly affects the operation and the capacity of the intersection and its approaches.

The methodology for signalized intersection is designed to consider individual intersection approaches and individual lane groups within approaches. A lane group consists of one or more lanes on an intersection approach. The outputs from application of the method described in the HCM 2000 and 2010 are reported on the basis of each lane. For a given lane group at a signalized intersection, three indications are displayed: green, yellow and red. The red indication may include a short period during which all indications are red, referred to as an all-red interval and the yellow indication forms the change and clearance interval between two green phases.

The methodology for analyzing the capacity and level of service must consider a wide variety of prevailing conditions, including the amount and distribution of traffic movements, traffic composition, geometric characteristics, and details of intersection signalization. The methodology addresses the capacity, LOS, and other performance measures for lane groups and the intersection approaches and the LOS for the intersection as a whole.

Capacity is evaluated in terms of the ratio of demand flow rate to capacity (v/c ratio), whereas LOS is evaluated on the basis of control delay per vehicle (in seconds per vehicle). The methodology does not take into account the potential impact of downstream congestion on intersection operation, nor does the methodology detect and adjust for the impacts of turn-pocket overflows on through traffic and intersection operation.

#### LEVEL OF SERVICE (LOS) CRITERIA FOR SIGNALIZED INTERSECTIONS

(Reference 2000 and 2010 Highway Capacity Manual)

Level of Service	Control Delay (seconds / vehicle)
A	<10
В	>10 - 20
С	>20 - 35
D	>35 - 55
E	>55 - 80
F	>80

#### **APPENDIX A2**

# LEVEL OF SERVICE (LOS) DESCRIPTION UNSIGNALIZED INTERSECTIONS WITH TWO-WAY STOP CONTROL (TWSC)

TWSC intersections are widely used and stop signs are used to control vehicle movements at such intersections. At TWSC intersections, the stop-controlled approaches are referred to as the minor street approaches; they can be either public streets or private driveways. The intersection approaches that are not controlled by stop signs are referred to as the major street approaches. A three-leg intersection is considered to be a standard type of TWSC intersection if the single minor street approach (i.e. the stem of the T configuration) is controlled by a stop sign. Three-leg intersections where two of the three approaches are controlled by stop signs are a special form of unsignalized intersection control.

At TWSC intersections, drivers on the controlled approaches are required to select gaps in the major street flow through which to execute crossing or turning maneuvers on the basis of judgment. In the presence of a queue, each driver on the controlled approach must use some time to move into the front-of-queue position and prepare to evaluate gaps in the major street flow. Capacity analysis at TWSC intersections depends on a clear description and understanding of the interaction of drivers on the minor or stop-controlled approach with drivers on the major street. Both gap acceptance and empirical models have been developed to describe this interaction.

Thus, the capacity of the controlled legs is based on three factors:

- the distribution of gaps in the major street traffic stream;
- driver judgment in selecting gaps through which to execute the desired maneuvers; and
- the follow-up time required by each driver in a queue.

The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions, in the absence of incident, control, traffic or geometric delay. Average control delay for any particular minor movement is a function of the capacity of the approach and the degree of saturation and referred to as level of service.

#### LEVEL OF SERVICE (LOS) CRITERIA FOR TWSC INTERSECTIONS

(Reference 2010 Highway Capacity Manual)

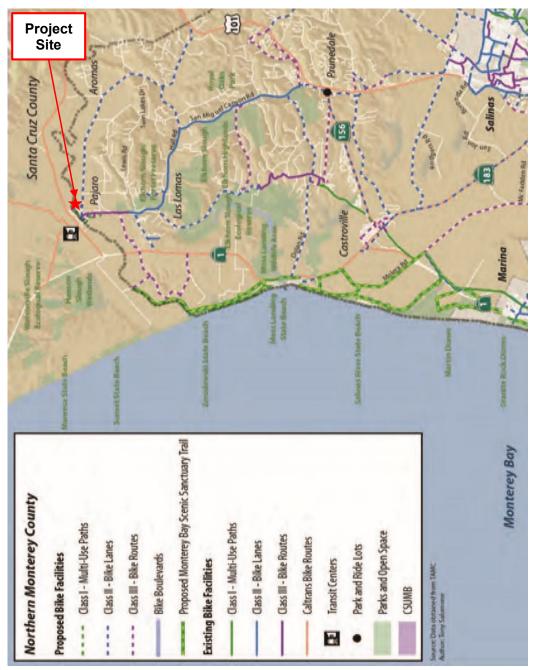
Level of Service	Control Delay (seconds / vehicle)
Α	0 - 10
В	>10 - 15
С	>15 - 25
D	>25 - 35
Е	>35 - 50
F	>50

## Appendix B

Existing and Proposed

Bicycle Facilities

near Project Site



Basemap Source: *Transportation Agency for Monterey County Bicycle and Pedestrian Master Plan,* Alta Planning + Design, December 2011.

# Appendix C Monterey County Public Works Tertiary Street Standard Cross Section

MON/PUBLIC WORKS

1 mon m 20,04 (2 Copies)

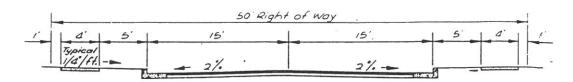
STANDARD DETAILS

COUNTY OF MONTEREY, CALIFORNIA

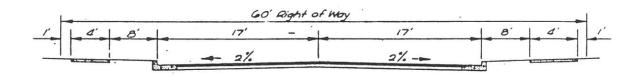
OCTOBER 1977

#### STANDARD STREET CLASSIFICATIONS

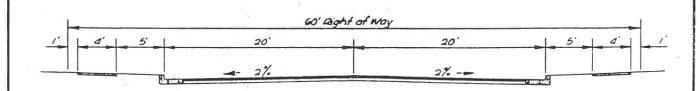
TRAFFIC		STREET TYPE
10,000 vehicles expected in 20 years 1,500 left turning movements per day		Major Divided Street
This street is so designated by a Master Plan, Precise Plan or Road Classification Plan adopted by the Board of Supervisors. 5,000 vehicles or more, but less than		
15,000 vehicles expected in 20 years		Major Street
Collect or carry vehicular traffic		
through a subdivision and that is not expected to serve in the future as a		
major street. 400 units with two or more entrances or 200 units		
800 to 3,000 vehicles expected in 20 years	2	Secondary Street .
100 units - abutted by residential lots and provide access to not more than 100 units.		
300 to 1,000 vehicles expected in 20 years		Tertiary Street
30 units or less - begins and terminates on the same cross street and provides		
access to not more than 30 abutted units Maximum 300 vehicles expected in 20 years	, ,	Loop Street
16 units or less on dead-end street to provide access to a limited number of abutting units and cannot be extended to		
serve a greater number of dwelling units Maximum 200 vehicles expected in 20 years		Cul-de-sac Street
Special purpose street types		Industrial Street - Half-width Street - Frontage Road - Alley - Split-level



LOOP OR CUL-DE-SAC STREET

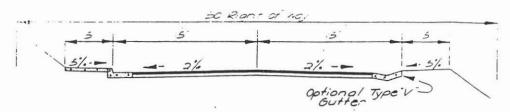


TERTIARY STREET

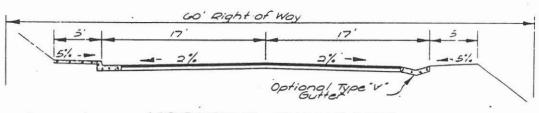


SECONDARY STREET

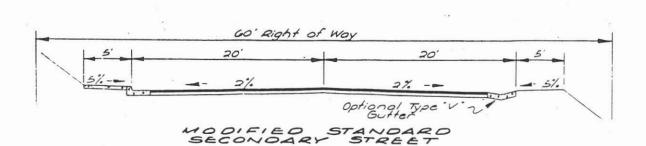
MONTER	EY COUNTY	DEPT. OF PUBLIC WORKS
	STANDARD	DETAILS
FLAT	TERRAIN S	STREET SECTION
APPROVED B	une 34.711 1Xa	DATE 10-24-77
REVISED	DATE	PLATE NO.
	<del></del> .	



MODIFIED STANDARD



MODIFIED STANDARD TERTIARY STREET



MONTEREY COUNTY DEPT. OF PUBLIC WORKS

STANDARD DETAILS

MODIFIED STANDARD

STREET SECTIONS

APPROVED BANK M'CALL DATE 10-24-77

REVISED DATE PLATE NO.

## Appendix D

Historical

Traffic Growth

in Pajaro

and

Intersection

**Traffic Counts** 

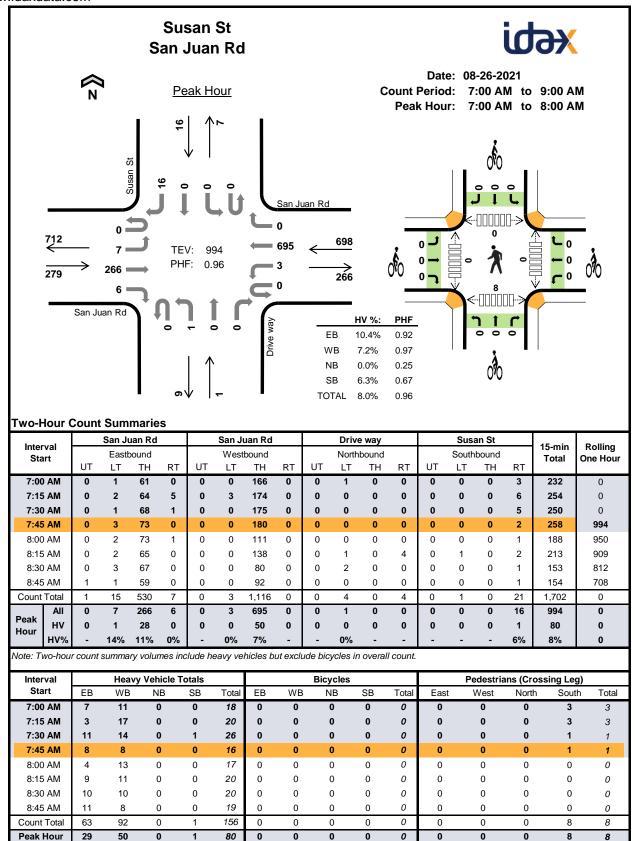
## Volume Growth Existing Volumes

Porter Drive / San Juan Road Growth Rates

Location	ADT Volume	es (Two-Wa	y)			
	2017	2018	2019	Net Dif.	% Growth	% per year
Porter, north	26,900	27,100	28,500	1,600	5.95%	1.98%
Porter, south	18,300	18,600	19,100	800	4.37%	1.46%
San Juan, east	13,100	13,500	14,500	1,400	10.69%	3.56%
				Average:	7 00%	2 33%

<u>Volume Source:</u> *Monterey County Public Works Annual Average 2019,* Monterey County Public Works Department, 2020.

Project Manager: (415) 310-6469



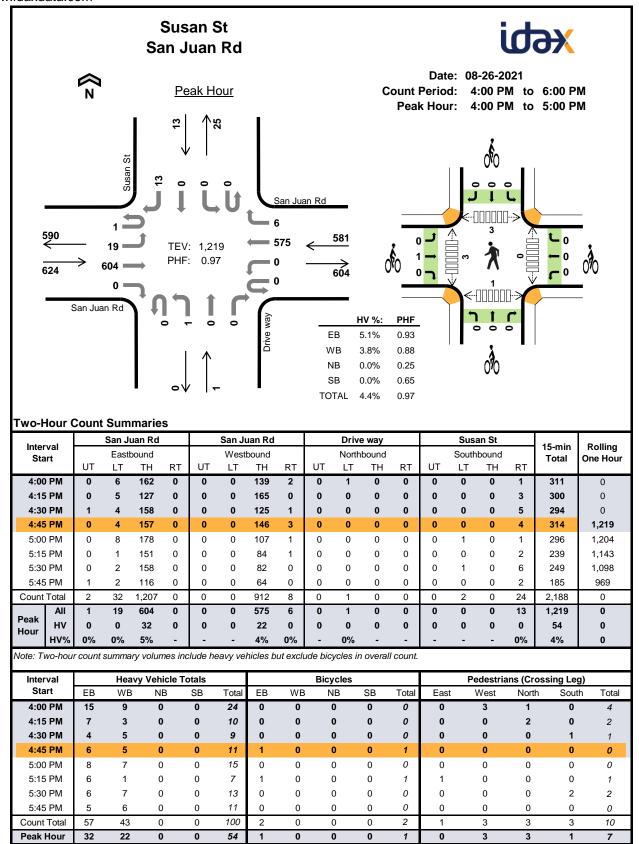
Interval		San J	uan Rd			San J	uan Rd			Drive	way			Susa	an St		15-min	Rolling
Start		Eastl	oound			West	bound			North	bound			South	bound		Total	One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	. • • • •	0.101.104.1
7:00 AM	0	0	7	0	0	0	11	0	0	0	0	0	0	0	0	0	18	0
7:15 AM	0	0	3	0	0	0	17	0	0	0	0	0	0	0	0	0	20	0
7:30 AM	0	1	10	0	0	0	14	0	0	0	0	0	0	0	0	1	26	0
7:45 AM	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	16	80
8:00 AM	0	0	4	0	0	0	13	0	0	0	0	0	0	0	0	0	17	79
8:15 AM	0	0	9	0	0	0	11	0	0	0	0	0	0	0	0	0	20	79
8:30 AM	0	0	10	0	0	0	10	0	0	0	0	0	0	0	0	0	20	73
8:45 AM	0	0	11	0	0	0	8	0	0	0	0	0	0	0	0	0	19	76
Count Total	0	1	62	0	0	0	92	0	0	0	0	0	0	0	0	1	156	0
Peak Hour	0	1	28	0	0	0	50	0	0	0	0	0	0	0	0	1	80	0

#### Two-Hour Count Summaries - Bikes

Intonial	S	an Juan F	₹d	Sa	an Juan I	Rd		Drive wa	y		Susan S	t	45	D - III
Interval Start		Eastboun	d	V	Vestboun	ıd	N	Northbour	nd	S	Southbour	nd	15-min Total	Rolling One Hour
O tui t	LT	TH	RT		0.101.104.1									
7:00 AM	0	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	0
7:30 AM	0	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	0
8:00 AM	0	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	0
8:30 AM	0	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	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Project Manager: (415) 310-6469



Interval		San Ju	uan Rd			San Ju	uan Rd			Drive	way			Susa	an St		15-min	Rolling
Start		Easth	oound			West	bound			North	bound			South	bound		Total	One Hour
<b>-</b> 1	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	. • • • •	0.101.104.
4:00 PM	0	0	15	0	0	0	9	0	0	0	0	0	0	0	0	0	24	0
4:15 PM	0	0	7	0	0	0	3	0	0	0	0	0	0	0	0	0	10	0
4:30 PM	0	0	4	0	0	0	5	0	0	0	0	0	0	0	0	0	9	0
4:45 PM	0	0	6	0	0	0	5	0	0	0	0	0	0	0	0	0	11	54
5:00 PM	0	0	8	0	0	0	7	0	0	0	0	0	0	0	0	0	15	45
5:15 PM	0	0	6	0	0	0	1	0	0	0	0	0	0	0	0	0	7	42
5:30 PM	0	0	6	0	0	0	7	0	0	0	0	0	0	0	0	0	13	46
5:45 PM	0	0	5	0	0	0	6	0	0	0	0	0	0	0	0	0	11	46
Count Total	0	0	57	0	0	0	43	0	0	0	0	0	0	0	0	0	100	0
Peak Hour	0	0	32	0	0	0	22	0	0	0	0	0	0	0	0	0	54	0

#### Two-Hour Count Summaries - Bikes

Intonial	Si	an Juan F	₹d	Sa	an Juan I	Rd		Drive wa	у		Susan S	t	45!	D - III
Interval Start		Eastboun	d	V	Vestboun	ıd	N	Northbour	nd	S	outhbour	nd	15-min Total	Rolling One Hour
O tui t	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	. • • • •	0.101.104.1
4:00 PM	0	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	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Count Total	0	2	0	0	0	0	0	0	0	0	0	0	2	0
Peak Hour	0	1	0	0	0	0	0	0	0	0	0	0	1	0

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Project Manager: (415) 310-6469

## Appendix E

Level of Service
Calculations

Existing

Conditions

	٠	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	/	<b>&gt;</b>	ļ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>†</b>	7		4	77	ሻ	<b>∱</b> }		77	ħβ	
Traffic Volume (vph)	39	7	6	46	7	729	4	805	10	316	616	53
Future Volume (vph)	39	7	6	46	7	729	4	805	10	316	616	53
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Total Lost time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	
Lane Util. Factor	1.00	1.00	1.00		1.00	0.88	1.00	*0.70		0.97	*0.70	
Frpb, ped/bikes	1.00	1.00	0.95		1.00	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00		0.96	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85		1.00	0.85	1.00	1.00		1.00	0.99	
Flt Protected	0.95	1.00	1.00		0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1644	1731	1395		1601	2589	1644	2417		3190	2389	
Flt Permitted	0.72	1.00	1.00		0.78	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1241	1731	1395		1303	2589	1644	2417		3190	2389	
Peak-hour factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	45	8	7	53	8	838	5	925	11	363	708	61
RTOR Reduction (vph)	0	0	5	0	0	65	0	1	0	0	4	0
Lane Group Flow (vph)	45	8	2	0	61	773	5	935	0	363	765	0
Confl. Peds. (#/hr)			32	32					38			4
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Turn Type	Perm	NA	Perm	Perm	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases		4			8	1	5	2		1	6	
Permitted Phases	4		4	8		8						
Actuated Green, G (s)	24.7	24.7	24.7		24.7	39.9	0.8	47.5		15.2	61.7	
Effective Green, g (s)	24.7	24.7	24.7		24.7	39.9	0.8	47.5		15.2	61.7	
Actuated g/C Ratio	0.24	0.24	0.24		0.24	0.39	0.01	0.47		0.15	0.61	
Clearance Time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	
Vehicle Extension (s)	1.0	1.0	1.0		1.0	1.0	1.0	1.6		1.0	1.6	
Lane Grp Cap (vph)	300	419	338		315	1013	12	1126		475	1446	
v/s Ratio Prot		0.00				c0.11	0.00	c0.39		c0.11	0.32	
v/s Ratio Perm	0.04		0.00		0.05	0.18						
v/c Ratio	0.15	0.02	0.01		0.19	0.76	0.42	0.83		0.76	0.53	
Uniform Delay, d1	30.3	29.4	29.3		30.7	26.9	50.3	23.7		41.6	11.7	
Progression Factor	1.00	1.00	1.00		1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.1	0.0	0.0		0.1	3.1	8.3	5.1		6.5	0.2	
Delay (s)	30.4	29.4	29.3		30.8	30.0	58.6	28.8		48.1	11.8	
Level of Service	С	С	С		С	С	E	С		D	В	
Approach Delay (s)		30.2			30.1			29.0			23.5	
Approach LOS		С			С			С			С	
Intersection Summary												
HCM 2000 Control Delay			27.3	Н	CM 2000	Level of S	Service		С			
HCM 2000 Volume to Capa	acity ratio		0.80		000		2					
Actuated Cycle Length (s)	,		101.9	Sı	um of los	st time (s)			14.7			
Intersection Capacity Utiliza	ation		83.7%			of Service			E			
Analysis Period (min)			15	,,								
o Critical Lana Craun			10									

c Critical Lane Group

HCM 2010 TWSC Existing AM

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
		WDK		NDI	SBL Š	
Lane Configurations	<b>\</b>	24	700	17		<b>^</b>
Traffic Vol, veh/h	32	31	799	47	14	641
Future Vol, veh/h	32	31	799	47	14	641
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	87	87	87	87	87	87
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	37	36	918	54	16	737
WINTER TOWN	UI	- 00	010	7	10	101
Major/Minor I	Minor1	N	Major1	1	Major2	
Conflicting Flow All	1714	945	0	0	972	0
Stage 1	945	-	-	-	-	-
Stage 2	769	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.14	-
Critical Hdwy Stg 1	5.42	-	_	_		_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy		3.318	_	_	2.236	_
Pot Cap-1 Maneuver	99	318	_	_	701	_
Stage 1	378	-	_	_	701	_
Stage 2	457		_	<u>-</u>	_	
	431	-	-	-	-	
Platoon blocked, %	07	240	-	-	704	-
Mov Cap-1 Maneuver	97	318	-	-	701	-
Mov Cap-2 Maneuver	231	-	-	-	-	-
Stage 1	378	-	-	-	-	-
Stage 2	446	-	-	-	-	-
Annroach	WB		NID		SB	
Approach			NB			
HCM Control Delay, s	23.4		0		0.2	
HCM LOS	С					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		1101	-	267	701	-
		-		0.271		
HCM Caretral Palace (a)		-				-
HCM Control Delay (s)		_	-	23.4	10.3	-
HCM Lane LOS		-	-	С	В	-
		_	_	1.1	0.1	_
HCM 95th %tile Q(veh)	)	-	_	1.1	0.1	

Intersection							
Int Delay, s/veh	0.7						
	EBT	EBR	WBL	WBT	NBL	NBR	
		EBK					
Lane Configurations	227	7	<u>ነ</u>	772	ሽ	<b>7</b>	
Traffic Vol, veh/h	327	7	29	773	9	40	
Future Vol, veh/h	327	7	29	773	9	40	
Conflicting Peds, #/hr	0	0	0	0	0	0	
•	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	50	-	0	50	
Veh in Median Storage, #		-	-	0	1	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	87	87	87	87	87	87	
Heavy Vehicles, %	4	4	4	4	2	2	
Mvmt Flow	376	8	33	889	10	46	
Major/Minor Ma	ajor1	ı	Major2		Minor1		
	0	0	384	0		380	
Conflicting Flow All		U					
Stage 1	-	-	-	-	380	-	
Stage 2	-	-	-	-	955	-	
Critical Hdwy	-	-	4.14	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42	-	
Follow-up Hdwy	-	-	2.236	-	3.518		
Pot Cap-1 Maneuver	-	-	1164	-	169	667	
Stage 1	-	-	-	-	691	-	
Stage 2	-	-	-	-	374	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	-	-	1164	-	164	667	
Mov Cap-2 Maneuver	-	-	-	-	282	-	
Stage 1	-	-	-	-	691	-	
Stage 2	-	_	-	-	364	-	
<b>G</b> -							
Annragah	ED		WD		ND		
Approach	EB		WB		NB		
HCM Control Delay, s	0		0.3		12.2		
HCM LOS					В		
Minor Lane/Major Mvmt	1	NBLn11	VBLn2	EBT	EBR	WBL	
Capacity (veh/h)	<u> </u>	282	667	-		1164	
HCM Lane V/C Ratio		0.037		<u> </u>		0.029	
HCM Control Delay (s)		18.3	10.8	-	_	8.2	
HCM Lane LOS		10.5 C	В			Α	
		0.1	0.2	-	-	0.1	
HCM 95th %tile Q(veh)		U. I	U.Z	-	-	U. I	

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
				WDK		SDK
Lane Configurations	<u>,</u>	200	<b>♣</b>	0	Y	40
Traffic Vol, veh/h	6	360	784	2	7	18
Future Vol, veh/h	6	360	784	2	7	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	50	-	-	-	0	-
Veh in Median Storage	e, # -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	7	414	901	2	8	21
	-			_		
	Major1		Major2		Minor2	
Conflicting Flow All	903	0	-	0	1330	902
Stage 1	-	-	-	-	902	-
Stage 2	-	-	-	-	428	-
Critical Hdwy	4.14	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.236	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	745	-	-	-	171	336
Stage 1	_	_	_	_	396	-
Stage 2	_	_	_	_	657	_
Platoon blocked, %		_	_	_	001	
Mov Cap-1 Maneuver	745			_	169	336
		_	_	_	294	-
Mov Cap-2 Maneuver	-	-	-			
Stage 1	-	-	-	-	392	-
Stage 2	-	-		-	657	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		17.2	
HCM LOS	0.2		U		C	
I IOIVI LOO					U	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR:	SBLn1
Capacity (veh/h)		745	-	-	-	323
HCM Lane V/C Ratio		0.009	-	-	-	0.089
HCM Control Delay (s)		9.9	-	-		17.2
HCM Lane LOS		Α	-	_	_	С
HCM 95th %tile Q(veh	)	0	_	_	_	0.3

Intersection												
Int Delay, s/veh	0.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<del>(</del> Î		ሻ	<del>(</del>			4			4	
Traffic Vol, veh/h	7	354	6	3	770	0	1	0	0	0	0	16
Future Vol, veh/h	7	354	6	3	770	0	1	0	0	0	0	16
Conflicting Peds, #/hr	0	0	8	8	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	50	-	-	50	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	10	10	10	7	7	7	2	2	2	6	6	6
Mvmt Flow	7	369	6	3	802	0	1	0	0	0	0	17
Major/Minor M	/lajor1		_ [	Major2			Minor1			Minor2		
Conflicting Flow All	802	0	0	383	0	0	1211	1202	380	1194	1205	802
Stage 1	-	-	-	-	-	-	394	394	-	808	808	-
Stage 2	_	_	_	_	_	_	817	808	_	386	397	_
Critical Hdwy	4.2	_	-	4.17	_	_	7.12	6.52	6.22	7.16	6.56	6.26
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.16	5.56	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.16	5.56	-
Follow-up Hdwy	2.29	-	-	2.263	-	-	3.518		3.318	3.554	4.054	3.354
Pot Cap-1 Maneuver	787	-	-	1149	-	-	159	185	667	160	181	378
Stage 1	-	-	-	-	-	-	631	605	-	369	388	-
Stage 2	-	-	-	-	-	-	370	394	-	629	596	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	787	-	-	1140	-	-	149	181	662	159	177	378
Mov Cap-2 Maneuver	-	-	-	-	-	-	149	181	-	159	177	-
Stage 1	-	-	-	-	-	-	621	595	-	366	387	-
Stage 2	-	-	-	-	-	-	353	393	-	623	586	-
<u> </u>												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.2			0			29.3			15		
HCM LOS	U.Z			U			29.3 D			C		
I IOIVI LOO							U			U		
Minor Long/Mailer M		UDL 4	EDI	EDT	EDD	WDI	WOT	MPD	CDI 4			
Minor Lane/Major Mymt	[	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR				
Capacity (veh/h)		149	787	-		1140	-	-	378			
HCM Cartral Dalay (a)		0.007		-	-	0.003	-		0.044			
HCM Control Delay (s)		29.3	9.6	-	-	8.2	-	-	15			
HCM C5th 0(tile O(tob)		D	A	-	-	A	-	-	C			
HCM 95th %tile Q(veh)		0	0	-	-	0	-	-	0.1			

	۶	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	~	<b>/</b>	<b></b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ŋ	<b>†</b>	7		र्स	77	, N	<b>♦</b> ₽		1,4	<b>♦</b> ₽	
Traffic Volume (vph)	112	17	25	50	16	548	15	844	22	636	986	91
Future Volume (vph)	112	17	25	50	16	548	15	844	22	636	986	91
Ideal Flow (vphpl)	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Total Lost time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	
Lane Util. Factor	1.00	1.00	1.00		1.00	0.88	1.00	*0.70		0.97	*0.65	
Frpb, ped/bikes	1.00	1.00	0.95		1.00	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00		0.97	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85		1.00	0.85	1.00	1.00		1.00	0.99	
Flt Protected	0.95	1.00	1.00		0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1397	1471	1193		1380	2200	1397	2049		2710	1883	
Flt Permitted	0.71	1.00	1.00		0.78	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1048	1471	1193		1122	2200	1397	2049		2710	1883	
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	115	18	26	52	16	565	15	870	23	656	1016	94
RTOR Reduction (vph)	0	0	21	0	0	82	0	1	0	0	3	0
Lane Group Flow (vph)	115	18	5	0	68	483	15	892	0	656	1107	0
Confl. Peds. (#/hr)			22	22					14			4
Turn Type	Perm	NA	Perm	Perm	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases		4			8	1	5	2		1	6	
Permitted Phases	4		4	8		8						
Actuated Green, G (s)	24.2	24.2	24.2		24.2	55.4	2.5	56.2		31.2	84.7	
Effective Green, g (s)	24.2	24.2	24.2		24.2	55.4	2.5	56.2		31.2	84.7	
Actuated g/C Ratio	0.19	0.19	0.19		0.19	0.44	0.02	0.45		0.25	0.67	
Clearance Time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	
Vehicle Extension (s)	1.0	1.0	1.0		1.0	1.0	1.0	1.6		1.0	1.6	
Lane Grp Cap (vph)	201	282	228		215	966	27	913		670	1264	
v/s Ratio Prot		0.01				0.12	0.01	c0.44		c0.24	0.59	
v/s Ratio Perm	c0.11		0.00		0.06	0.10						
v/c Ratio	0.57	0.06	0.02		0.32	0.50	0.56	0.98		0.98	0.88	
Uniform Delay, d1	46.3	41.7	41.3		43.8	25.4	61.2	34.3		47.1	16.5	
Progression Factor	1.00	1.00	1.00		1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	2.4	0.0	0.0		0.3	0.1	13.3	23.9		29.1	6.8	
Delay (s)	48.7	41.7	41.4		44.1	25.5	74.5	58.2		76.2	23.3	
Level of Service	D	D	D		D	С	E	Е		Е	С	
Approach Delay (s)		46.7			27.5			58.5			43.0	
Approach LOS		D			С			Е			D	
Intersection Summary												
HCM 2000 Control Delay			44.4	H	CM 2000	Level of S	Service		D			
HCM 2000 Volume to Capa	city ratio		0.89									
Actuated Cycle Length (s)			126.1	Sı	um of los	st time (s)			14.7			
Intersection Capacity Utiliza	ation		86.8%	IC	U Level	of Service			Е			
Analysis Period (min)			15									
c Critical Lane Group												

HCM 2010 TWSC Existing PM

Intersection						
Int Delay, s/veh	0.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		\$		ሻ	<u>□ □ □ □</u>
Traffic Vol, veh/h	11	12	854	117	30	964
Future Vol, veh/h	11	12	854	117	30	964
Conflicting Peds, #/hr	0	0	004	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	_	-	50	-
Veh in Median Storage		_	0	_	-	0
Grade, %	0	<u>-</u>	0	_	<u>-</u>	0
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	11	12	880	121	31	994
MALL LIOW	- 11	12	000	121	JI	334
Major/Minor I	Minor1	N	Major1		Major2	
Conflicting Flow All	1997	941	0	0	1001	0
Stage 1	941	-	-	-	-	-
Stage 2	1056	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	66	319	-	-	692	-
Stage 1	380	-	-	-	-	-
Stage 2	335	-	-	-	-	-
Platoon blocked, %			-	-		_
Mov Cap-1 Maneuver	63	319	_	_	692	_
Mov Cap-2 Maneuver	187	-	_	-	-	_
Stage 1	380	_	_	_	_	_
Stage 2	320	_	_	_	_	_
Olago Z	020					
Approach	WB		NB		SB	
HCM Control Delay, s	21.8		0		0.3	
HCM LOS	С					
Minor Lane/Major Mvm	nt	NBT	NRRV	VBLn1	SBL	SBT
	ıı	וטוו	INDIX	238	692	ODT
Capacity (veh/h) HCM Lane V/C Ratio		-	-		0.045	-
HCM Control Delay (s)		-	-	21.8	10.4	-
HOW CONTROL DEIAV (S)		-	-	21.0	10.4	-
				$\sim$	D	
HCM Lane LOS HCM 95th %tile Q(veh)	١	-	-	0.3	0.1	-

Intersection							
Int Delay, s/veh	1.4						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	<b>1</b>		ሻ	<u> </u>	ሻ	7	
Traffic Vol, veh/h	673	2	7	589	25	98	
Future Vol, veh/h	673	2	7	589	25	98	
Conflicting Peds, #/hr	0	0	0	0	0	0	
	Free	Free	Free	Free	Stop	Stop	
RT Channelized	_	None	-	None	-	None	
Storage Length	_	-	50	-	0	50	
Veh in Median Storage,	# 0	-	-	0	1	-	
Grade, %	0	-	-	0	0	_	
Peak Hour Factor	97	97	97	97	97	97	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	694	2	7	607	26	101	
NA : (NA:					A' 4		
	ajor1		Major2		Minor1		
Conflicting Flow All	0	0	696		1316	695	
Stage 1	-	-	-	-	695	-	
Stage 2	-	-	-	-	621	-	
Critical Hdwy	-	-	4.12	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42	-	
Follow-up Hdwy	-		2.218		3.518		
Pot Cap-1 Maneuver	-	-	900	-	174	442	
Stage 1	-	-	-	-	495	-	
Stage 2	-	-	-	-	536	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	-	-	900	-	173	442	
Mov Cap-2 Maneuver	-	-	-	-	313	-	
Stage 1	-	-	-	-	495	-	
Stage 2	-	-	-	-	532	-	
Approach	EB		WB		NB		
HCM Control Delay, s	0		0.1		15.9		
HCM LOS	U		0.1		C		
110111 200							
Minor Long/Major Mymt		NBLn11	מ ופוע	EDT	EDD	WBL	
Minor Lane/Major Mvmt	ľ			EBT	EBR		
Capacity (veh/h)		313	442	-	-	900	
HCM Lane V/C Ratio		0.082		-		0.008	
HCM Control Delay (s)		17.5 C	15.5 C	-	-	9	
		ι,	ι,	-	-	Α	
HCM Lane LOS HCM 95th %tile Q(veh)		0.3	0.9	_	_	0	

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ሻ	<u></u>	<b>1</b>		¥	
Traffic Vol, veh/h	20	750	584	8	5	12
Future Vol, veh/h	20	750	584	8	5	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	50	-	_	-	0	-
Veh in Median Storage		0	0	_	1	_
Grade, %	- -	0	0	_	0	_
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	21	773	602	8	5	12
IVIVIIIL FIOW	21	113	002	0	5	12
Major/Minor	Major1	N	Major2	ı	Minor2	
Conflicting Flow All	610	0	-	0	1421	606
Stage 1	-	-	-	-	606	-
Stage 2	_	-	-	-	815	-
Critical Hdwy	4.12	-	_	-	6.42	6.22
Critical Hdwy Stg 1	-	_	-	_	5.42	-
Critical Hdwy Stg 2	_	_	_	_	5.42	_
Follow-up Hdwy	2.218	_	_	-	3.518	3 318
Pot Cap-1 Maneuver	969	_	_	_	150	497
Stage 1	-	_	_	_	545	-
Stage 2	_	_		_	435	_
Platoon blocked, %	_	_	_	_	400	_
Mov Cap-1 Maneuver	969	_	_	_	147	497
		_		_	285	
Mov Cap-2 Maneuver	-	-	-			-
Stage 1	-	-	-	-	533	-
Stage 2	-	-	-	-	435	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		14.2	
HCM LOS	0.2		•		В	
TIOW EGG					ل	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR:	SBLn1
Capacity (veh/h)		969	-	-	-	408
HCM Lane V/C Ratio		0.021	-	-	-	0.043
HCM Control Delay (s	)	8.8	-	-	-	14.2
HCM Lane LOS		Α	-	-	-	В
HCM 95th %tile Q(veh	1)	0.1	-	-	-	0.1

Intersection												
Int Delay, s/veh	0.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ķ	f)		ľ	f)			4			4	
Traffic Vol, veh/h	20	735	0	0	580	6	1	0	0	0	0	13
Future Vol, veh/h	20	735	0	0	580	6	1	0	0	0	0	13
Conflicting Peds, #/hr	3	0	2	2	0	3	3	0	0	0	0	3
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	50	-	-	50	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	5	5	5	4	4	4	2	2	2	2	2	2
Mvmt Flow	21	758	0	0	598	6	1	0	0	0	0	13
Major/Minor N	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	607	0	0	760	0	0	1413	1409	760	1404	1406	607
Stage 1	-	-	-	-	-	-	802	802	-	604	604	-
Stage 2	_	_	_	_	_	_	611	607	_	800	802	_
Critical Hdwy	4.15	-	-	4.14	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	_	-	-	-	_	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	_	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.245	-	-	2.236	-	-	3.518		3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	957	-	-	843	-	-	115	139	406	117	139	496
Stage 1	-	-	-	-	-	-	378	396	-	485	488	-
Stage 2	-	-	-	-	-	-	481	486	-	379	396	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	954	-	-	841	-	-	109	135	405	115	135	493
Mov Cap-2 Maneuver	-	-	-	-	-	-	109	135	-	115	135	-
Stage 1	-	-	-	-	-	-	369	386	-	473	487	-
Stage 2	-	-	-	-	-	-	467	485	-	371	386	-
Approach	EB			WB			NB			SB		
							38.3					
HCM Control Delay, s HCM LOS	0.2			0						12.5		
LOS FOR TOO							E			В		
						14/51	14/5-	14/5-	<b>.</b>			
Minor Lane/Major Mvm	t I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR				
Capacity (veh/h)		109	954	-	-	841	-	-	493			
HCM Lane V/C Ratio		0.009		-	-	-	-	-	0.027			
HCM Control Delay (s)		38.3	8.9	-	-	0	-	-	12.5			
HCM Lane LOS		E	Α	-	-	Α	-	-	В			
HCM 95th %tile Q(veh)		0	0.1	-	-	0	-	-	0.1			
HCM 95th %tile Q(veh)		0	0.1	-	-	0	-	-	0.1			

## Appendix F

Level of Service
Calculations

Existing Plus Project
Conditions

	•	-	•	•	<b>←</b>	•	•	<b>†</b>	/	<b>&gt;</b>	ļ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>†</b>	7		4	77	ሻ	<b>∱</b> î≽		16.56	<b>∱</b> î≽	
Traffic Volume (vph)	39	7	6	51	8	739	4	805	10	319	616	53
Future Volume (vph)	39	7	6	51	8	739	4	805	10	319	616	53
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Total Lost time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	
Lane Util. Factor	1.00	1.00	1.00		1.00	0.88	1.00	*0.70		0.97	*0.70	
Frpb, ped/bikes	1.00	1.00	0.95		1.00	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00		0.96	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85		1.00	0.85	1.00	1.00		1.00	0.99	
Flt Protected	0.95	1.00	1.00		0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1644	1731	1394		1601	2589	1644	2417		3190	2389	
Flt Permitted	0.71	1.00	1.00		0.77	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1234	1731	1394		1293	2589	1644	2417		3190	2389	
Peak-hour factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	45	8	7	59	9	849	5	925	11	367	708	61
RTOR Reduction (vph)	0	0	5	0	0	65	0	1	0	0	4	0
Lane Group Flow (vph)	45	8	2	0	68	784	5	935	0	367	765	0
Confl. Peds. (#/hr)			32	32					38			4
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Turn Type	Perm	NA	Perm	Perm	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases		4			8	1	5	2		1	6	
Permitted Phases	4		4	8		8						
Actuated Green, G (s)	24.7	24.7	24.7		24.7	40.2	8.0	47.7		15.5	62.2	
Effective Green, g (s)	24.7	24.7	24.7		24.7	40.2	0.8	47.7		15.5	62.2	
Actuated g/C Ratio	0.24	0.24	0.24		0.24	0.39	0.01	0.47		0.15	0.61	
Clearance Time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	
Vehicle Extension (s)	1.0	1.0	1.0		1.0	1.0	1.0	1.6		1.0	1.6	
Lane Grp Cap (vph)	297	417	336		311	1016	12	1125		482	1451	
v/s Ratio Prot		0.00				c0.12	0.00	c0.39		0.12	0.32	
v/s Ratio Perm	0.04		0.00		0.05	0.19						
v/c Ratio	0.15	0.02	0.01		0.22	0.77	0.42	0.83		0.76	0.53	
Uniform Delay, d1	30.6	29.6	29.5		31.1	27.1	50.6	23.8		41.7	11.6	
Progression Factor	1.00	1.00	1.00		1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.1	0.0	0.0		0.1	3.4	8.3	5.1		6.3	0.2	
Delay (s)	30.7	29.6	29.5		31.2	30.5	58.9	29.0		48.0	11.8	
Level of Service	С	С	С		С	С	Е	С		D	В	
Approach Delay (s)		30.4			30.5			29.1			23.5	
Approach LOS		С			С			С			С	
Intersection Summary												
HCM 2000 Control Delay			27.5	Н	CM 2000	Level of	Service		С			
HCM 2000 Volume to Capa	city ratio		0.81									
Actuated Cycle Length (s)			102.4	S	um of los	st time (s)			14.7			
Intersection Capacity Utiliza	ition		84.1%	IC	U Level	of Service			Е			
Analysis Period (min)			15									
c Critical Lane Group												

Intersection						
Int Delay, s/veh	1					
	•					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	· Y		₽		7	
Traffic Vol, veh/h	32	31	799	48	14	646
Future Vol, veh/h	32	31	799	48	14	646
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	e, # 1	_	0	-	-	0
Grade, %	0	_	0	-	-	0
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	37	36	918	55	16	743
	Minor1		/lajor1		Major2	
Conflicting Flow All	1721	946	0	0	973	0
Stage 1	946	-	-	-	-	-
Stage 2	775	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.14	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.236	-
Pot Cap-1 Maneuver	98	317	-	-	701	-
Stage 1	377	-	-	-	-	-
Stage 2	454	-	-	-	-	-
Platoon blocked, %			_	_		_
Mov Cap-1 Maneuver	96	317	-	-	701	-
Mov Cap-2 Maneuver	230	-	_	_	-	_
Stage 1	377	_	_	_	_	_
Stage 2	444	_	_		_	_
Olaye Z	777	<u>-</u>	_	_	-	_
Approach	WB		NB		SB	
HCM Control Delay, s	23.5		0		0.2	
HCM LOS	С					
Minor Long/Major Maria	nt	NDT	NDD	MDI -1	CDI	CDT
Minor Lane/Major Mvn	IIL	NBT	NRKI	WBLn1	SBL	SBT
Capacity (veh/h)		-	-	266	701	-
HCM Lane V/C Ratio		-	-	0.272		-
HCM Control Delay (s	)	-	-	23.5	10.3	-
HCM Lane LOS		-	-	С	В	-
HCM 95th %tile Q(veh	1)	-	-	1.1	0.1	-

Intersection						
Int Delay, s/veh	0.7					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>1</b>	LUIX	YVDL		NDL	TION.
Traffic Vol, veh/h	330	7	29	789	9	41
Future Vol, veh/h	330	7	29	789	9	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	50	-	0	50
Veh in Median Storage,	# 0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	379	8	33	907	10	47
Major/Minor N	/lajor1	ı	Major2		Minor1	
Conflicting Flow All	0	0	387	0	1356	383
Stage 1	-	-	301	-	383	-
Stage 2	_	_		_	973	_
Critical Hdwy	_	_	4.14	_	6.42	6.22
Critical Hdwy Stg 1	_	_		_	5.42	- 0.22
Critical Hdwy Stg 2	_	_	_	_	5.42	_
Follow-up Hdwy	_	_	2.236			3 318
Pot Cap-1 Maneuver	_	_	1161	_	165	664
Stage 1	_	_	-	_	689	-
Stage 2	-	_	_	_	366	_
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	-	_	1161	_	160	664
Mov Cap-2 Maneuver	-	_	-	_	277	-
Stage 1	-	_	-	_	689	_
Stage 2	_	_	-	_	356	_
5 g =						
Annragah	ΓВ		WD		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		12.2	
HCM LOS					В	
Minor Lane/Major Mvmt	t N	NBLn11	NBLn2	EBT	EBR	WBL
Capacity (veh/h)		277	664	-	-	1161
HCM Lane V/C Ratio		0.037	0.071	-	-	0.029
HCM Control Delay (s)		18.5	10.8	-	-	8.2
HCM Lane LOS		С	В	-	-	Α
HCM 95th %tile Q(veh)		0.1	0.2	-	-	0.1

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<u> </u>	\$	VVDIX	₩.	ODIX
Traffic Vol, veh/h	<b>ነ</b>	<b>T</b> 364	800	2	<b>'T'</b>	18
Future Vol, veh/h	6	364	800	2	7	18
Conflicting Peds, #/hr	_ 0	_ 0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None	-		-	None
Storage Length	50	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	7	418	920	2	8	21
Major/Minor	Major1		/aior?		Minor2	
	Major1		//ajor2			004
Conflicting Flow All	922	0	-	0	1353	921
Stage 1	-	-	-	-	921	-
Stage 2	-	-	-	-	432	-
Critical Hdwy	4.14	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.236	-	-	-	3.518	
Pot Cap-1 Maneuver	732	-	-	-	165	328
Stage 1	-	-	-	-	388	-
Stage 2	-	-	-	-	655	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	732	_	_	-	163	328
Mov Cap-2 Maneuver	-	_	_	_	288	-
Stage 1	_	_	_	_	384	_
Stage 2	_	_	_	_	655	_
Olage 2			_	_	000	_
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		17.5	
HCM LOS					С	
Minor Long/Major Maria	<b>~</b> +	EDI	CDT	WDT	WDD	CDL 4
Minor Lane/Major Mvn	II(	EBL	EBT	WBT	WBR	
		732	-	-	-	
Capacity (veh/h)				-	-	0.091
HCM Lane V/C Ratio		0.009	-			
HCM Lane V/C Ratio HCM Control Delay (s)	)	10	-	-		17.5
HCM Lane V/C Ratio HCM Control Delay (s HCM Lane LOS		10 A				С
HCM Lane V/C Ratio HCM Control Delay (s)		10	-	-	-	

Intersection												
Int Delay, s/veh	0.7											
	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Movement			EDK			WDK	INDL		NDK	ODL		SDK
Lane Configurations	<b>\</b>	<b>}</b>	^	7	770	0	4	♣	^	7	₩,	20
Traffic Vol, veh/h	11	354	6	3	770	2	1	0	0	7	0	32
Future Vol, veh/h	11	354	6	3	770	2	1	0	0	7	0	32
Conflicting Peds, #/hr	_ 0	_ 0	- 8	_ 8	0	_ 0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	50	-	-	50	-	-	-	-	-	-	-	-
Veh in Median Storage,		0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	10	10	10	7	7	7	2	2	2	6	6	6
Mvmt Flow	11	369	6	3	802	2	1	0	0	7	0	33
Major/Minor Major1			Major2			Minor1		M		Minor2	1inor2	
Conflicting Flow All	804	0	0	383	0	0	1228	1212	380	1203	1214	803
Stage 1	-	-		-	-	-	402	402	-	809	809	-
Stage 2	_	_	_	_	_	_	826	810	_	394	405	_
Critical Hdwy	4.2	_	_	4.17	_	_	7.12	6.52	6.22	7.16	6.56	6.26
Critical Hdwy Stg 1		_	_	- -	_	_	6.12	5.52	- 0.22	6.16	5.56	-
Critical Hdwy Stg 2	-	_	_	_	_	_	6.12	5.52	_	6.16	5.56	_
Follow-up Hdwy	2.29	_	_	2.263	_	_	3.518	4.018	3.318	3.554	4.054	
Pot Cap-1 Maneuver	786	_	_	1149	_	_	155	182	667	158	178	377
Stage 1	-	_	_	- 1170	_	_	625	600	-	368	388	-
Stage 2				_			366	393	_	623	592	_
Platoon blocked, %		_	_		_	_	500	555		320	302	
Mov Cap-1 Maneuver	786		_	1140		_	138	177	662	156	174	377
Mov Cap-1 Maneuver	-	_	_	-	_	_	138	177	- 002	156	174	-
Stage 1	_		_	_		_	611	587	_	363	387	_
Stage 2	_	_	_	_	_	_	333	392	_	614	579	_
Olage Z							555	002		014	JIJ	
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.3			0			31.3			18.8		
HCM LOS							D			С		
Minor Lane/Major Mvmt		NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		138	786			1140	-	-	301			
HCM Lane V/C Ratio		0.008	0.015	_		0.003			0.135			
HCM Control Delay (s)		31.3	9.6	_	_	8.2	_					
HCM Lane LOS		D	9.0 A	_	_	Α	_	_	C			
HCM 95th %tile Q(veh)		0	0	<u>-</u>	_	0	<u>-</u>	-	0.5			
HOW JOHN JOHNE Q(VEII)		U	U			U			0.5			

	۶	<b>→</b>	•	•	<b>←</b>	•	1	<b>†</b>	~	<b>/</b>	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>†</b>	7		ર્ન	77	ň	<b>∱</b> ∱		ሻሻ	ħβ	
Traffic Volume (vph)	112	18	25	53	16	554	15	844	22	641	986	91
Future Volume (vph)	112	18	25	53	16	554	15	844	22	641	986	91
Ideal Flow (vphpl)	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Total Lost time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	
Lane Util. Factor	1.00	1.00	1.00		1.00	0.88	1.00	*0.70		0.97	*0.65	
Frpb, ped/bikes	1.00	1.00	0.95		1.00	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00		0.97	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85		1.00	0.85	1.00	1.00		1.00	0.99	
Flt Protected	0.95	1.00	1.00		0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1397	1471	1192		1379	2200	1397	2049		2710	1883	
Flt Permitted	0.71	1.00	1.00		0.78	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1045	1471	1192		1114	2200	1397	2049		2710	1883	
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	115	19	26	55	16	571	15	870	23	661	1016	94
RTOR Reduction (vph)	0	0	21	0	0	82	0	1	0	0	3	0
Lane Group Flow (vph)	115	19	5	0	71	489	15	892	0	661	1107	0
Confl. Peds. (#/hr)			22	22					14			4
Turn Type	Perm	NA	Perm	Perm	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases		4			8	1	5	2		1	6	
Permitted Phases	4		4	8		8						
Actuated Green, G (s)	24.2	24.2	24.2		24.2	55.5	2.5	56.3		31.3	84.9	
Effective Green, g (s)	24.2	24.2	24.2		24.2	55.5	2.5	56.3		31.3	84.9	
Actuated g/C Ratio	0.19	0.19	0.19		0.19	0.44	0.02	0.45		0.25	0.67	
Clearance Time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	
Vehicle Extension (s)	1.0	1.0	1.0		1.0	1.0	1.0	1.6		1.0	1.6	
Lane Grp Cap (vph)	200	281	228		213	966	27	913		671	1265	
v/s Ratio Prot		0.01				0.13	0.01	c0.44		c0.24	0.59	
v/s Ratio Perm	c0.11		0.00		0.06	0.10						
v/c Ratio	0.57	0.07	0.02		0.33	0.51	0.56	0.98		0.99	0.87	
Uniform Delay, d1	46.4	41.8	41.4		44.1	25.5	61.3	34.4		47.3	16.5	
Progression Factor	1.00	1.00	1.00		1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	2.5	0.0	0.0		0.3	0.2	13.3	23.9		30.7	6.8	
Delay (s)	48.9	41.8	41.5		44.4	25.7	74.6	58.3		77.9	23.3	
Level of Service	D	D	D		D	С	E	E		E	C	
Approach Delay (s) Approach LOS		46.8 D			27.7 C			58.5 E			43.7 D	
Intersection Summary												
HCM 2000 Control Delay			44.8	H	CM 2000	Level of	Service		D			
HCM 2000 Volume to Capac	city ratio		0.89									
Actuated Cycle Length (s)	•		126.3	Sı	um of los	t time (s)			14.7			
Intersection Capacity Utiliza	tion		87.1%			of Service	)		Е			
Analysis Period (min)			15									
c Critical Lane Group												

Intersection						
Int Delay, s/veh	0.4					
		14/55			0	05-
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		<b>₽</b>		• ነ	<b>↑</b>
Traffic Vol, veh/h	11	12	854	121	30	967
Future Vol, veh/h	11	12	854	121	30	967
Conflicting Peds, #/hr		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 Storag	e, # 1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	11	12	880	125	31	997
	• •			0	•	
Major/Minor	Minor1		//ajor1		Major2	
Conflicting Flow All	2002	943	0	0	1005	0
Stage 1	943	-	-	-	-	-
Stage 2	1059	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	_	-	-	-
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy	3.518	3 318	_	_	2.218	_
Pot Cap-1 Maneuver	66	318	_	_	689	_
Stage 1	379	-	_	_	-	_
Stage 2	333	_		_	_	_
Platoon blocked, %	333	_				_
	63	318	-	-	689	
Mov Cap-1 Maneuver			-	-		-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	379	-	-	-	-	-
Stage 2	318	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		0.3	
HCM LOS	21.9 C		U		0.5	
HOW LOS	U					
Minor Lane/Major Mvr	nt	NBT	NBRV	WBLn1	SBL	SBT
Capacity (veh/h)		_	_	237	689	_
HCM Lane V/C Ratio		_	_		0.045	_
HCM Control Delay (s		_	_		10.5	-
HCM Lane LOS	7	_	_	21.3 C	В	_
HCM 95th %tile Q(vel	2)		-	0.3	0.1	
	IJ	-	-	0.3	0.1	-

1.1						
Intersection	4.5					
Int Delay, s/veh	1.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĵ.		ķ	<b>†</b>	ķ	7
Traffic Vol, veh/h	684	2	7	598	25	102
Future Vol, veh/h	684	2	7	598	25	102
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	50	-	0	50
Veh in Median Storage,	# 0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	705	2	7	616	26	105
N.A. '. (N.A.)			4 . 0		\ d' \ \ d	
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	707	0	1336	706
Stage 1	-	-	-	-	706	-
Stage 2	-	-	-	-	630	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	
Pot Cap-1 Maneuver	-	-	891	-	169	436
Stage 1	-	-	-	-	489	-
Stage 2	-	-	_	-	531	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	891	-	168	436
Mov Cap-2 Maneuver	_	_	-	-	308	-
Stage 1	-	-	-	-	489	-
Stage 2	_	_	_	_	527	_
Olago Z					021	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		16.3	
HCM LOS					С	
Minor Lane/Major Mvmt	N	NBLn11	VIDI n2	EBT	EBR	WBL
•	ľ					
Capacity (veh/h)		308	436	-	-	891
HCM Lane V/C Ratio		0.084		-	-	0.008
HCM Control Delay (s)		17.8	15.9	-	-	9.1
HCM Lane LOS		С	С	-	-	Α
HCM 95th %tile Q(veh)		0.3	0.9	-	-	0

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	T T	<u></u>	WB1 <b>}</b>	אטוז	SBL ₩	אופט
	20		593	0		12
Traffic Vol, veh/h		765		8	5	
Future Vol, veh/h	20	765	593	8	5	12
Conflicting Peds, #/hr	0	_ 0	0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	50	-	-	-	0	-
Veh in Median Storage	э,# -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	21	789	611	8	5	12
Major/Minor	Major1		/aior?		/linar?	
	Major1		Major2		Minor2	CAE
Conflicting Flow All	619	0	-	0	1446	615
Stage 1	-	-	-	-	615	-
Stage 2	-	-	-	-	831	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	
Pot Cap-1 Maneuver	961	-	-	-	145	491
Stage 1	-	-	-	-	539	-
Stage 2	-	-	-	-	428	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	961	_	_	-	142	491
Mov Cap-2 Maneuver	-	_	_	_	279	-
Stage 1	_	_	_	_	527	_
Stage 2	_	_	_	_	428	_
Olage 2					720	
Approach	EB		WB		SB	
	0.2		0		14.4	
HCM Control Delay, s					В	
HCM Control Delay, s HCM LOS						
HCM LOS	o4	- FDI	<b>FDT</b>	WDT	WDD	CDI 4
HCM LOS  Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR	
Minor Lane/Major Mvn Capacity (veh/h)	nt	961	-	-	-	401
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio		961 0.021		WBT - -	-	401 0.044
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s		961 0.021 8.8	-	-	-	401 0.044 14.4
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s HCM Lane LOS	)	961 0.021 8.8 A	-	-	-	401 0.044 14.4 B
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s	)	961 0.021 8.8	- - -	- - -	- - -	401 0.044 14.4

Intersection												
Int Delay, s/veh	0.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ħ	ĵ.		ሻ	ĵ.			4			4	
Traffic Vol, veh/h	35	735	0	0	580	13	1	0	0	4	0	22
Future Vol, veh/h	35	735	0	0	580	13	1	0	0	4	0	22
Conflicting Peds, #/hr	3	0	2	2	0	3	3	0	0	0	0	3
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	50	-	-	50	-	-	-	-	-	-	-	-
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	5	5	5	4	4	4	2	2	2	2	2	2
Mvmt Flow	36	758	0	0	598	13	1	0	0	4	0	23
Major/Minor I	Major1		ı	Major2			Minor1			Minor2		
Conflicting Flow All	614	0	0	760	0	0	1451	1446	760	1438	1440	611
Stage 1	-	-	-	-	-	-	832	832	-	608	608	-
Stage 2	_	_	_	_	_	_	619	614	_	830	832	_
Critical Hdwy	4.15	_	-	4.14	_	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	_	_	_	_	_	6.12	5.52	-	6.12	5.52	
Critical Hdwy Stg 2	_	-	-	-	_	_	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.245	_	_	2.236	_	_		4.018	3.318	3.518		3.318
Pot Cap-1 Maneuver	951	_	-	843	_	_	109	132	406	111	133	494
Stage 1	-	_	_	-	_	-	363	384	-	483	486	-
Stage 2	-	-	-	-	-	-	476	483	-	364	384	_
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	948	-	-	841	-	-	100	126	405	107	127	491
Mov Cap-2 Maneuver	-	-	-	-	-	-	100	126	-	107	127	-
Stage 1	-	-	-	-	-	-	348	369	-	463	485	-
Stage 2	-	-	-	_	-	-	453	482	-	350	369	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0			41.4			17.4		
HCM LOS							Е			С		
Minor Lane/Major Mvm	nt 1	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		100	948	_	_	841	_		316			
HCM Lane V/C Ratio			0.038	_	_	-	_	_	0.085			
HCM Control Delay (s)		41.4	8.9	_	-	0	-	_	17.4			
HCM Lane LOS		E	A	_	_	A	_	_	С			
HCM 95th %tile Q(veh)	)	0	0.1	_	-	0	-	_	0.3			
70th Q(VOI)			<b>J</b> .,						5.5			

#### Appendix G

Level of Service
Calculations

Cumulative Without Project
Conditions

	۶	<b>→</b>	•	•	•	•	4	<b>†</b>	<b>/</b>	<b>&gt;</b>	ļ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>†</b>	7		4	77	7	<b>∱</b> Љ		1,1	<b>†</b>	7
Traffic Volume (vph)	42	8	6	51	9	788	4	865	11	341	662	57
Future Volume (vph)	42	8	6	51	9	788	4	865	11	341	662	57
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Total Lost time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	4.3
Lane Util. Factor	1.00	1.00	1.00		1.00	0.88	1.00	*0.70		0.97	*0.70	1.00
Frpb, ped/bikes	1.00	1.00	0.91		1.00	1.00	1.00	1.00		1.00	1.00	0.97
Flpb, ped/bikes	1.00	1.00	1.00		0.94	1.00	1.00	1.00		1.00	1.00	1.00
Frt	1.00	1.00	0.85		1.00	0.85	1.00	1.00		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00		0.96	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	1644	1731	1334		1556	2589	1644	2417		3190	1212	1431
Flt Permitted	0.71	1.00	1.00		0.77	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	1232	1731	1334		1250	2589	1644	2417		3190	1212	1431
Peak-hour factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	48	9	7	59	10	906	5	994	13	392	761	66
RTOR Reduction (vph)	0	0	5	0	0	54	0	1	0	0	0	24
Lane Group Flow (vph)	48	9	2	0	69	852	5	1006	0	392	761	42
Confl. Peds. (#/hr)			32	32					38			4
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Turn Type	Perm	NA	Perm	Perm	NA	pm+ov	Prot	NA		Prot	NA	Perm
Protected Phases		4			8	1	5	2		1	6	
Permitted Phases	4		4	8		8						6
Actuated Green, G (s)	24.4	24.4	24.4		24.4	42.5	0.9	54.6		18.1	71.6	71.6
Effective Green, g (s)	24.4	24.4	24.4		24.4	42.5	0.9	54.6		18.1	71.6	71.6
Actuated g/C Ratio	0.22	0.22	0.22		0.22	0.38	0.01	0.49		0.16	0.64	0.64
Clearance Time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	4.3
Vehicle Extension (s)	1.0	1.0	1.0		1.0	1.0	1.0	1.6		1.0	1.6	1.6
Lane Grp Cap (vph)	269	378	291		273	985	13	1182		517	777	918
v/s Ratio Prot		0.01				c0.14	0.00	0.42		0.12	c0.63	
v/s Ratio Perm	0.04		0.00		0.06	0.19						0.03
v/c Ratio	0.18	0.02	0.01		0.25	0.87	0.38	0.85		0.76	0.98	0.05
Uniform Delay, d1	35.5	34.2	34.1		36.1	31.9	55.1	25.0		44.7	19.3	7.4
Progression Factor	1.00	1.00	1.00		1.00	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	0.1	0.0	0.0		0.2	7.8	6.8	5.9		5.6	26.8	0.0
Delay (s)	35.6	34.3	34.1		36.2	39.7	61.8	30.8		50.3	46.1	7.4
Level of Service	D	С	С		D	D	Е	С		D	D	Α
Approach Delay (s)		35.2			39.4			31.0			45.3	
Approach LOS		D			D			С			D	
Intersection Summary												
HCM 2000 Control Delay			38.9	Н	CM 2000	Level of	Service		D			
HCM 2000 Volume to Capa	city ratio		0.97									
Actuated Cycle Length (s)			111.6	S	um of los	st time (s)			14.7			
Intersection Capacity Utiliza	ation		86.8%			of Service	)		Е			
Analysis Period (min)			15									
c Critical Lane Group												

Intersection						
Int Delay, s/veh	1.2					
Mayamant	WDI	WDD	NDT	NDD	CDI	SBT
Movement	WBL	WBR	NBT	NBR	SBL	
Lane Configurations	¥	0.4	<b>\$</b>	F.4	ች	1004
Traffic Vol, veh/h	34	34	857	51	15	691
Future Vol, veh/h	34	34	857	51	15	691
Conflicting Peds, #/hr		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 Storag	e,# 1	_	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	39	39	985	59	17	794
		_				
Major/Minor	Minor1		//ajor1		Major2	
Conflicting Flow All	1843	1015	0	0	1044	0
Stage 1	1015	-	-	-	-	-
Stage 2	828	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.14	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.236	_
Pot Cap-1 Maneuver	83	289	_	_	659	-
Stage 1	350	_	_	-	-	_
Stage 2	429	_	_	_	_	_
Platoon blocked, %	720		_	_		_
Mov Cap-1 Maneuver	81	289		_	659	_
			-	-		-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	350	-	-	-	-	-
Stage 2	418	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	26.7		0		0.2	
HCM LOS	D		•		0.2	
110111 200						
Minor Lane/Major Mvi	mt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	243	659	-
HCM Lane V/C Ratio		-	-	0.322	0.026	-
HCM Control Delay (s	s)	-	-	26.7	10.6	-
HCM Lane LOS	,	_	_	D	В	_
HCM 95th %tile Q(vel	ո)	_	_	1.3	0.1	_
HOW JOHN JOHNE Q(VE)	1/	_		1.5	0.1	

Intersection						
Int Delay, s/veh	0.7					
	EDT	EDD	WDI	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>\$</b>	•	<b></b>	1000	<b>\</b>	7
Traffic Vol, veh/h	353	8	31	838	10	44
Future Vol, veh/h	353	8	31	838	10	44
Conflicting Peds, #/hr	_ 0	_ 0	_ 0	_ 0	0	0
3	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	50	-	0	50
Veh in Median Storage,	# 0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	406	9	36	963	11	51
	lajor1		Major2		Minor1	
Conflicting Flow All	0	0	415	0	1446	411
Stage 1	-	-	-	-	411	-
Stage 2	-	-	-	-	1035	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	_	-	_	5.42	-
Follow-up Hdwy	-	_	2.236	_	3.518	3.318
Pot Cap-1 Maneuver	_	_	1133	_	145	641
Stage 1	_	_	-	_	669	-
Stage 2	_	_	_	_	342	_
Platoon blocked, %	_			_	UTZ	
Mov Cap-1 Maneuver	_	_	1133	-	140	641
Mov Cap-1 Maneuver	-	-		-	256	041
	-	-	-	-		
Stage 1	-	-	-	-	669	-
Stage 2	-	-	-	-	331	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		12.7	
HCM LOS	U		0.5		12.7 B	
I IOWI LOG					D	
Minor Lane/Major Mvmt	1	VBLn11	VBLn2	EBT	EBR	WBL
Capacity (veh/h)		256	641	-		1133
HCM Lane V/C Ratio		0.045		_		0.031
HCM Control Delay (s)		19.7	11.1	_	_	8.3
HCM Lane LOS		C	В	_	_	Α
HCM 95th %tile Q(veh)		0.1	0.3	_	-	0.1
HOW BOUT MURE Q(VEII)		0.1	0.3	-	-	0.1

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	T T	<u></u>	₩ <b>Б</b> Т	WDIX	SBL ₩	אומט
		387	842	2	11	27
Traffic Vol, veh/h Future Vol, veh/h	9	387	842	3	11	27
	9			0		
Conflicting Peds, #/hr	0	0	0		0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	50	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	10	445	968	3	13	31
Maine/Mine	N A - : A		4-i- C		Min C	
	Major1		/lajor2		Minor2	
Conflicting Flow All	971	0	-	0	1435	970
Stage 1	-	-	-	-	970	-
Stage 2	-	-	-	-	465	-
Critical Hdwy	4.14	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.236	-	_	-	3.518	3.318
Pot Cap-1 Maneuver	702	_	_	_	147	307
Stage 1	-	_	_	_	368	-
Stage 2	_	_	_	_	632	_
Platoon blocked, %		_		_	002	
	702	_	-		145	307
Mov Cap-1 Maneuver		-	-	-		
Mov Cap-2 Maneuver	-	-	-	-	270	-
Stage 1	-	-	-	-	363	-
Stage 2	-	-	-	-	632	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		19.3	
	0.2		U		19.3 C	
HCM LOS					U	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		702	_	_		295
HCM Lane V/C Ratio		0.015	_	_		0.148
HCM Control Delay (s)	\	10.2		_	_	
HCM Lane LOS		10.2 B	_	-		19.5 C
	1		-		-	
HCM 95th %tile Q(veh	)	0	-	-	-	0.5

Intersection												
Int Delay, s/veh	0.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ች	ĵ.		*	î,			4			4	
Traffic Vol, veh/h	7	377	6	3	812	0	1	0	0	0	0	16
Future Vol, veh/h	7	377	6	3	812	0	1	0	0	0	0	16
Conflicting Peds, #/hr	0	0	8	8	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	_	None	-	-	None
Storage Length	50	-	-	50	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	10	10	10	7	7	7	2	2	2	6	6	6
Mvmt Flow	7	393	6	3	846	0	1	0	0	0	0	17
Major/Minor M	lajor1		N	Major2		N	Minor1			Minor2		
Conflicting Flow All	846	0	0	407	0	0	1279	1270	404	1262	1273	846
Stage 1	-	-	-	-	-	-	418	418	-	852	852	-
Stage 2	-	-	-	-	-	-	861	852	-	410	421	-
Critical Hdwy	4.2	-	-	4.17	-	-	7.12	6.52	6.22	7.16	6.56	6.26
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.16	5.56	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.16	5.56	-
Follow-up Hdwy	2.29	-	-	2.263	-	-	3.518	4.018	3.318	3.554	4.054	3.354
Pot Cap-1 Maneuver	758	-	-	1125	-	-	143	168	647	144	164	356
Stage 1	-	-	-	-	-	-	612	591	-	349	370	-
Stage 2	-	-	-	-	-	-	350	376	-	611	582	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	758	-	-	1116	-	-	134	165	642	143	161	356
Mov Cap-2 Maneuver	-	-	-	-	-	-	134	165	-	143	161	-
Stage 1	-	-	-	-	-	-	602	581	-	346	369	-
Stage 2	-	-	-	-	-	-	333	375	-	605	572	-
-												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.2			0			32.1			15.6		
HCM LOS							D			С		
Minor Lane/Major Mvmt		NBLn1	EBL	EBT	EBR	WBL	WBT	WBR:	SBLn1			
Capacity (veh/h)		134	758		-	1116	-	-	356			
HCM Lane V/C Ratio		0.008	0.01	-		0.003	-	_	0.047			
HCM Control Delay (s)		32.1	9.8	-	_	8.2	_	-				
HCM Lane LOS		D	Α	-	_	Α	-	-	С			
HCM 95th %tile Q(veh)		0	0	-	-	0	-	-	0.1			

	<u></u> →	<b>→</b>	•	•	<b>←</b>	4	4	<b>†</b>	<i>&gt;</i>	<b>\</b>	<b></b>	<b>√</b>
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>†</b>	7		ર્ન	77	ň	<b>∱</b> β		44	<b>+</b>	7
Traffic Volume (vph)	120	19	27	56	17	592	16	906	23	688	1059	98
Future Volume (vph)	120	19	27	56	17	592	16	906	23	688	1059	98
Ideal Flow (vphpl)	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Total Lost time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	4.3
Lane Util. Factor	1.00	1.00	1.00		1.00	0.88	1.00	*0.70		0.97	*0.90	1.00
Frpb, ped/bikes	1.00	1.00	0.96		1.00	1.00	1.00	1.00		1.00	1.00	0.97
Flpb, ped/bikes	1.00	1.00	1.00		0.98	1.00	1.00	1.00		1.00	1.00	1.00
Frt	1.00	1.00	0.85		1.00	0.85	1.00	1.00		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00		0.96	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	1537	1618	1316		1521	2420	1537	2255		2981	1456	1337
Flt Permitted	0.71	1.00	1.00		0.77	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	1145	1618	1316		1212	2420	1537	2255		2981	1456	1337
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	124	20	28	58	18	610	16	934	24	709	1092	101
RTOR Reduction (vph)	0	0	23	0	0	71	0	1	0	0	0	31
Lane Group Flow (vph)	124	20	5	0	76	539	16	957	0	709	1092	70
Confl. Peds. (#/hr)			22	22					14			4
Turn Type	Perm	NA	Perm	Perm	NA	pm+ov	Prot	NA		Prot	NA	Perm
Protected Phases		4			8	1	5	2		1	6	
Permitted Phases	4		4	8		8						6
Actuated Green, G (s)	18.8	18.8	18.8		18.8	48.2	2.3	53.1		29.4	80.0	80.0
Effective Green, g (s)	18.8	18.8	18.8		18.8	48.2	2.3	53.1		29.4	80.0	80.0
Actuated g/C Ratio	0.16	0.16	0.16		0.16	0.42	0.02	0.46		0.25	0.69	0.69
Clearance Time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	4.3
Vehicle Extension (s)	1.0	1.0	1.0		1.0	1.0	1.0	1.6		1.0	1.6	1.6
Lane Grp Cap (vph)	185	262	213		196	1007	30	1034		756	1005	923
v/s Ratio Prot		0.01				0.14	0.01	0.42		c0.24	c0.75	
v/s Ratio Perm	c0.11		0.00		0.06	0.09						0.05
v/c Ratio	0.67	0.08	0.02		0.39	0.54	0.53	0.93		0.94	1.09	0.08
Uniform Delay, d1	45.6	41.1	40.8		43.4	25.4	56.2	29.5		42.3	17.9	5.8
Progression Factor	1.00	1.00	1.00		1.00	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	7.3	0.0	0.0		0.5	0.3	8.8	13.3		18.8	54.9	0.0
Delay (s)	52.9	41.2	40.8		43.8	25.7	65.0	42.7		61.1	72.8	5.9
Level of Service	D	D	D		D	С	E	D		Е	Е	Α
Approach Delay (s)		49.5			27.7			43.1			64.9	
Approach LOS		D			С			D			Е	
Intersection Summary												
HCM 2000 Control Delay			51.7	Н	CM 2000	Level of S	Service		D			
HCM 2000 Volume to Capa	acity ratio		1.03									
Actuated Cycle Length (s)			115.8			st time (s)			14.7			
Intersection Capacity Utiliza	ation		97.0%	IC	CU Level	of Service			F			
Analysis Period (min)			15									
c Critical Lane Group												

Intersection						
Int Delay, s/veh	0.4					
		W/DD	NET	NDD	051	057
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		₽		• ነ	
Traffic Vol, veh/h	12	13	917	128	32	1043
Future Vol, veh/h	12	13	917	128	32	1043
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	e, # 1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	12	13	945	132	33	1075
				-		
	Minor1		Major1		Major2	
Conflicting Flow All	2152	1011	0	0	1077	0
Stage 1	1011	-	-	-	-	-
Stage 2	1141	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	_
Pot Cap-1 Maneuver	53	291	_	_	647	-
Stage 1	352		_	_	_	_
Stage 2	305	-	_	_	_	-
Platoon blocked, %	000		_	_		_
Mov Cap-1 Maneuver	50	291		_	647	_
	167		_			-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	352	-	-	-	-	-
Stage 2	289	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	24		0		0.3	
HCM LOS	C		- 0		3.0	
110W EOO	J					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	_	215	647	-
HCM Lane V/C Ratio		_	-		0.051	-
HCM Control Delay (s)		-	-	24	10.9	-
HCM Lane LOS		_	-	С	В	_
HCM 95th %tile Q(veh	)	_	_	0.4	0.2	_
TOW JOHN JUNE Q(VEI)	7			0.7	0.2	

latan attan							
Intersection	1.6						
Int Delay, s/veh	۵.۱						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	ĵ.		Ť	<b>↑</b>	7	7	•
Traffic Vol, veh/h	728	2	8	638	27	107	
Future Vol, veh/h	728	2	8	638	27	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	-	-	50	-	0	50	
Veh in Median Storage,	# 0	-	-	0	1	_	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	97	97	97	97	97	97	
Heavy Vehicles, %	2	2	2	2	2	2	
Mymt Flow	751	2	8	658	28	110	
WWW.CTIOW	701	_	J	000	20	110	
Major/Minor M	ajor1	1	Major2		Minor1		l
Conflicting Flow All	0	0	753	0	1426	752	
Stage 1	-	-	-	-	752	-	
Stage 2	-	-	-	-	674	-	
Critical Hdwy	-	-	4.12	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42	-	
Follow-up Hdwy	-	_	2.218	_	3.518	3.318	
Pot Cap-1 Maneuver	-	_	857	-	149	410	
Stage 1	_	_		_	466	-	
Stage 2	_	_	_	_	506	_	
Platoon blocked, %	_	_		<u>-</u>	500		
Mov Cap-1 Maneuver	_		857	_	148	410	
Mov Cap-1 Maneuver	_	_	- 037	_	288	410	
•	-	<u>-</u>	-		466		
Stage 1		-	_	-	501	-	
Stage 2	-	-	-	-	301	-	
Approach	EB		WB		NB		
HCM Control Delay, s	0		0.1		17.4		
HCM LOS					С		
Minor Lane/Major Mvmt	1	NBLn11		EBT	EBR	WBL	
Capacity (veh/h)		288	410	-	-	857	
HCM Lane V/C Ratio		0.097		-	-	0.01	
HCM Control Delay (s)		18.8	17	-	-	9.2	
HCM Lane LOS		С	С	-	-	Α	
HCM 95th %tile Q(veh)		0.3	1.1	-	-	0	

Intersection						
Int Delay, s/veh	0.4					
	EDI	EDT	WDT	WDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<u>ነ</u>	<b>^</b>	4		¥	
Traffic Vol, veh/h	29	805	628	13	7	18
Future Vol, veh/h	29	805	628	13	7	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	50	-	-	-	0	-
Veh in Median Storage	e, # -	0	0	-	1	-
Grade, %	· -	0	0	-	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	30	830	647	13	7	19
IVIVIII( I IOW	50	000	077	10	1	13
Major/Minor	Major1	N	Major2		Minor2	
Conflicting Flow All	660	0		0	1544	654
Stage 1	-	-	-	-	654	-
Stage 2	_	_	_	_	890	_
Critical Hdwy	4.12	_	_	-	6.42	6.22
Critical Hdwy Stg 1	-	_	_	_	5.42	-
Critical Hdwy Stg 2	_		_	_	5.42	_
	2.218	_	_		3.518	
Follow-up Hdwy		-	-			
Pot Cap-1 Maneuver	928	-	-	-	126	467
Stage 1	-	-	-	-	517	-
Stage 2	-	-	-	-	401	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	928	-	-	-	122	467
Mov Cap-2 Maneuver	-	-	-	-	258	-
Stage 1	-	_	-	-	500	-
Stage 2	-	-	_	-	401	-
5 III G =						
Approach	EB		WB		SB	
HCM Control Delay, s	0.3		0		15.1	
HCM LOS					С	
Minar Lanc /Maiar M		EDI	EDT	WDT	WDD	ODL 4
Minor Lane/Major Mvm	IL	EBL	EBT	WBT	WBR	
Capacity (veh/h)		928	-	-	-	381
HCM Lane V/C Ratio		0.032	-	-	-	0.068
HCM Control Delay (s)		9	-	-	-	15.1
HCM Lane LOS		Α	-	-	-	С
HCM 95th %tile Q(veh	)	0.1	-	-	-	0.2

Intersection												
Intersection Int Delay, s/veh	0.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	f)			Þ			4			4	
Traffic Vol, veh/h	20	775	0	0	615	6	1	0	0	0	0	13
Future Vol, veh/h	20	775	0	0	615	6	1	0	0	0	0	13
Conflicting Peds, #/hr	3	0	2	2	0	3	3	0	0	0	0	3
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	50	-	-	50	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	98	98	98	98	98	98	98	98	98	98	98	98
Heavy Vehicles, %	5	5	5	4	4	4	2	2	2	2	2	2
Mvmt Flow	20	791	0	0	628	6	1	0	0	0	0	13
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	637	0	0	793	0	0	1474	1470	793	1465	1467	637
Stage 1	- 037	-	U	193	-	-	833	833	193	634	634	-
Stage 2	_	-	_	_	-	-	641	637	_	831	833	_
Critical Hdwy	4.15	-	-	4.14	-		7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	4.15	_	_	7.14	-	_	6.12	5.52	0.22	6.12	5.52	0.22
Critical Hdwy Stg 1	<u>-</u>	-	-	_	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.245	_	_	2.236	-	_	3.518		3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	932	-	-	819	-	-	105	127	389	106	128	477
Stage 1	932	_	_	013	_	_	363	384	309	467	473	411
Stage 2		-	-	_	<u>-</u>	_	463	471		364	384	_
Platoon blocked, %	_	_	_		_	_	703	711		JU4	304	_
Mov Cap-1 Maneuver	929	-	-	817	-		100	124	388	104	125	474
Mov Cap-1 Maneuver	929	_	_	017	_	-	100	124	300	104	125	4/4
Stage 1		-	-	_	<u>-</u>	-	355	375		456	472	-
Stage 2	_	_	_		_	_	449	470	<u>-</u>	356	375	-
Glaye Z	_	_	-	_	_	-	743	710	_	550	313	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.2			0			41.4			12.8		
HCM LOS							Е			В		
Minor Lane/Major Mvm	it N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		100	929		-	817	-	-	474			
HCM Lane V/C Ratio		0.01	0.022	_	<u>-</u>	- 017			0.028			
HCM Control Delay (s)		41.4	9	_	_	0	_	-	12.8			
HCM Lane LOS		41.4 E	A	_	_	A	_		12.0 B			
HCM 95th %tile Q(veh)		0	0.1	_		0	_	-	0.1			
		U	U. I	_	-	U	-	-	0.1			

#### Appendix H

Level of Service
Calculations

Cumulative Plus Project
Conditions

	۶	<b>→</b>	•	•	+	•	1	<b>†</b>	<b>/</b>	<b>/</b>	<b>↓</b>	<b>√</b>
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>†</b>	7		4	77	ሻ	<b>∱</b> ∱		ሻሻ	<b>↑</b>	7
Traffic Volume (vph)	42	8	6	56	9	798	4	865	11	344	662	57
Future Volume (vph)	42	8	6	56	9	798	4	865	11	344	662	57
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Total Lost time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	4.3
Lane Util. Factor	1.00	1.00	1.00		1.00	0.88	1.00	*0.70		0.97	*0.70	1.00
Frpb, ped/bikes	1.00	1.00	0.91		1.00	1.00	1.00	1.00		1.00	1.00	0.97
Flpb, ped/bikes	1.00	1.00	1.00		0.94	1.00	1.00	1.00		1.00	1.00	1.00
Frt	1.00	1.00	0.85		1.00	0.85	1.00	1.00		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00		0.96	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	1644	1731	1334		1553	2589	1644	2417		3190	1212	1431
Flt Permitted	0.71	1.00	1.00		0.76	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	1227	1731	1334		1237	2589	1644	2417		3190	1212	1431
Peak-hour factor, PHF	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Adj. Flow (vph)	48	9	7	64	10	917	5	994	13	395	761	66
RTOR Reduction (vph)	0	0	5	0	0	54	0	1	0	0	0	24
Lane Group Flow (vph)	48	9	2	0	74	863	5	1006	0	395	761	42
Confl. Peds. (#/hr)			32	32					38			4
Heavy Vehicles (%)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Turn Type	Perm	NA	Perm	Perm	NA	pm+ov	Prot	NA		Prot	NA	Perm
Protected Phases		4			8	1	5	2		1	6	
Permitted Phases	4		4	8		8						6
Actuated Green, G (s)	24.4	24.4	24.4		24.4	43.0	0.9	54.8		18.6	72.3	72.3
Effective Green, g (s)	24.4	24.4	24.4		24.4	43.0	0.9	54.8		18.6	72.3	72.3
Actuated g/C Ratio	0.22	0.22	0.22		0.22	0.38	0.01	0.49		0.17	0.64	0.64
Clearance Time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	4.3
Vehicle Extension (s)	1.0	1.0	1.0		1.0	1.0	1.0	1.6		1.0	1.6	1.6
Lane Grp Cap (vph)	266	376	289		268	991	13	1179		528	780	921
v/s Ratio Prot		0.01				c0.14	0.00	0.42		0.12	c0.63	
v/s Ratio Perm	0.04		0.00		0.06	0.19						0.03
v/c Ratio	0.18	0.02	0.01		0.28	0.87	0.38	0.85		0.75	0.98	0.05
Uniform Delay, d1	35.8	34.6	34.4		36.6	32.1	55.4	25.2		44.6	19.2	7.3
Progression Factor	1.00	1.00	1.00		1.00	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	0.1	0.0	0.0		0.2	8.2	6.8	6.0		5.0	26.0	0.0
Delay (s)	35.9	34.6	34.4		36.8	40.3	62.2	31.2		49.7	45.1	7.3
Level of Service	D	С	С		D	D	Е	С		D	D	Α
Approach Delay (s)		35.6			40.1			31.3			44.5	
Approach LOS		D			D			С			D	
Intersection Summary												
HCM 2000 Control Delay			39.0	Н	CM 2000	Level of	Service		D			
HCM 2000 Volume to Capa	city ratio		0.97									
Actuated Cycle Length (s)			112.3			st time (s)			14.7			
Intersection Capacity Utiliza	tion		87.2%	IC	U Level	of Service	)		Е			
Analysis Period (min)			15									

Intersection						
Int Delay, s/veh	1.2					
		WED	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	0.4	<b>\$</b>		<b>`</b>	<b>↑</b>
Traffic Vol, veh/h	34	34	857	52	15	696
Future Vol, veh/h	34	34	857	52	15	696
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		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	39	39	985	60	17	800
		-		_		
	Minor1		//ajor1		Major2	
Conflicting Flow All	1849	1015	0	0	1045	0
Stage 1	1015	-	-	-	-	-
Stage 2	834	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.14	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	_	2.236	_
Pot Cap-1 Maneuver	82	289	-	-	658	-
Stage 1	350	-	_	_	-	_
Stage 2	426	_	_	_	_	_
Platoon blocked, %	120		_	_		_
Mov Cap-1 Maneuver	80	289			658	
Mov Cap-1 Maneuver		209	-		000	-
Stage 1	350	-	-	-	-	-
•		-	-	-	-	-
Stage 2	415	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	26.7		0		0.2	
HCM LOS	20.7 D				J.L	
TIOWI LOO						
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	243	658	-
HCM Lane V/C Ratio		-	-	0.322		-
HCM Control Delay (s	)	-	-		10.6	-
HCM Lane LOS	,	_	_	D	В	_
HCM 95th %tile Q(veh	1)	_	_		0.1	-
HOW JOHN JOHNE Q(VEI	'/	_		1.5	0.1	_

Intersection						
Int Delay, s/veh	0.7					
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u>⊏В।</u>	LDK	VVDL		INDL T	INDIX
Traffic Vol, veh/h	356	8	<b>1</b> 31	<b>↑</b> 854	<b>1</b> 0	<b>r</b> 45
Future Vol, veh/h	356	8	31	854	10	45
	0	0	0	004	0	45
Conflicting Peds, #/hr Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	riee -	None	Stop -	None
Storage Length		NONE -	50	None -	0	50
Veh in Median Storage, #		-	-	0	1	-
Grade, %	07		- 07	0	0	
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	409	9	36	982	11	52
Major/Minor Ma	ajor1	ı	Major2		Minor1	
Conflicting Flow All	0	0	418	0	1468	414
Stage 1	-	-	-	-	414	_
Stage 2	_	_	_	_	1054	_
Critical Hdwy	_	_	4.14	-	6.42	6.22
Critical Hdwy Stg 1	_	_	-	_	5.42	-
Critical Hdwy Stg 2	_	_	_	_	5.42	_
Follow-up Hdwy	_	_	2.236	_	3.518	
Pot Cap-1 Maneuver	_	_	1130	_	141	638
Stage 1	_	_	-	_	667	-
Stage 2		_	_		335	-
Platoon blocked, %	_	_			333	_
	-		1130	-	136	638
Mov Cap-1 Maneuver					251	
Mov Cap-2 Maneuver	-	-	-	-		-
Stage 1	-	-	-	-	667	-
Stage 2	-	-	-	-	324	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		12.7	
HCM LOS					В	
Minor Long/Major Maret		MDI 51 N	JDI 20	EDT	EDD	\\/DI
Minor Lane/Major Mvmt	ſ	VBLn11		EBT	EBR	WBL
Capacity (veh/h)		251	638	-	-	1130
HCM Lane V/C Ratio		0.046		-	-	0.032
HCM Control Delay (s)		20	11.1	-	-	8.3
HCM Lane LOS		С	В	-	-	A
HCM 95th %tile Q(veh)		0.1	0.3	-	-	0.1

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	<u></u>	₩ <u></u>	WDIX	₩.	ODIN
Traffic Vol, veh/h	9	<b>T</b> 391	858	3	11	27
Future Vol, veh/h	9	391	858	3	11	27
Conflicting Peds, #/hr	0	0	000	0	0	0
Sign Control RT Channelized	Free	Free	Free	Free	Stop	Stop
	-	None	-	None	-	None
Storage Length	50	-	-	-	0	-
Veh in Median Storage,	,# -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	10	449	986	3	13	31
Major/Minor N	/lajor1	N	Major2	-	Minor2	
Conflicting Flow All	989	0	-		1457	988
Stage 1	303	-	_	-	988	300
•	_			_	469	
Stage 2	111	-	-			6.22
Critical Hdwy	4.14	-	-	-	6.42	
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
	2.236	-	-		3.518	
Pot Cap-1 Maneuver	691	-	-	-	143	300
Stage 1	-	-	-	-	361	-
Stage 2	-	-	-	-	630	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	691	-	-	-	141	300
Mov Cap-2 Maneuver	-	-	-	-	265	-
Stage 1	-	-	-	-	356	-
Stage 2	-	-	-	-	630	-
Annroach	EB		WB		SB	
Approach						
HCM Control Delay, s	0.2		0		19.7	
HCM LOS					С	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		691	-	_	_	289
HCM Lane V/C Ratio		0.015	-	_	_	0.151
HCM Control Delay (s)		10.3	-	_	-	19.7
HCM Lane LOS		В	-	-	_	С
HCM 95th %tile Q(veh)		0	_	_	_	0.5
						3.0

Internaction												
Intersection	0.7											
Int Delay, s/veh	0.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	f)		ħ	ĥ			4			4	
Traffic Vol, veh/h	11	377	6	3	812	2	1	0	0	7	0	32
Future Vol, veh/h	11	377	6	3	812	2	1	0	0	7	0	32
Conflicting Peds, #/hr	0	0	8	8	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	50	-	-	50	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	96	96	96	96	96	96	96	96	96	96
Heavy Vehicles, %	10	10	10	7	7	7	2	2	2	6	6	6
Mvmt Flow	11	393	6	3	846	2	1	0	0	7	0	33
Major/Minor M	lajor1			Major2			Minor1			Minor2		
Conflicting Flow All	848	0	0	407	0	0	1296	1280	404	1271	1282	847
Stage 1	-	-	-	<del>-</del>	-	-	426	426	-	853	853	-
Stage 2	_	_	_		_	_	870	854	_	418	429	
Critical Hdwy	4.2		-	4.17	_	_	7.12	6.52	6.22	7.16	6.56	6.26
Critical Hdwy Stg 1	4.2	_	_	<del>-</del> 11	_	_	6.12	5.52	0.22	6.16	5.56	0.20
Critical Hdwy Stg 1			_	_	_	-	6.12	5.52		6.16	5.56	_
Follow-up Hdwy	2.29	_	_	2.263	<u> </u>	_	3.518		3.318	3.554	4.054	3.354
Pot Cap-1 Maneuver	756		_	1125	_	_	139	166	647	142	162	356
Stage 1	-	<u>-</u>	<u>-</u>	- 1.20	<u>-</u>	_	606	586	-	348	370	-
Stage 2	_	_	_	_	_	_	346	375	_	605	577	_
Platoon blocked, %		_	_		<u>-</u>	_	<b>0</b> -10	310		300	311	
Mov Cap-1 Maneuver	756	_	_	1116	_	_	123	162	642	140	158	356
Mov Cap-2 Maneuver	-	_	_	-	<u>-</u>	_	123	162	-	140	158	-
Stage 1	_	_	_	_	_	_	593	573	_	343	369	_
Stage 2	_	_	_	_	_	_	313	374	_	596	564	_
J. 10 2 2							3.0	5, 7		300	30 1	
A				140			М			0.5		
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.3			0			34.5			20.1		
HCM LOS							D			С		
Minor Lane/Major Mvmt	1	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		123	756			1116		_	279			
HCM Lane V/C Ratio		0.008	0.015	_		0.003	_		0.146			
HCM Control Delay (s)		34.5	9.8	_	_	8.2	_	_	20.1			
HCM Lane LOS		D	Α	_	_	A	_	_	C			
HCM 95th %tile Q(veh)		0	0	_	_	0	_	_	0.5			

1: Porter Dr & San	Juan Ro	<u>a</u>										
	•	-	*	•	•	•	1	Ť	~	-	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>†</b>	7		ની	77	ሻ	<b>∱</b> ∱		44	<b>^</b>	7
Traffic Volume (vph)	120	19	27	59	17	598	16	906	23	698	1059	98
Future Volume (vph)	120	19	27	59	17	598	16	906	23	698	1059	98
Ideal Flow (vphpl)	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Total Lost time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	4.3
Lane Util. Factor	1.00	1.00	1.00		1.00	0.88	1.00	*0.70		0.97	*0.90	1.00
Frpb, ped/bikes	1.00	1.00	0.96		1.00	1.00	1.00	1.00		1.00	1.00	0.97
Flpb, ped/bikes	1.00	1.00	1.00		0.98	1.00	1.00	1.00		1.00	1.00	1.00
Frt	1.00	1.00	0.85		1.00	0.85	1.00	1.00		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00		0.96	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	1537	1618	1315		1520	2420	1537	2255		2981	1456	1337
Flt Permitted	0.71	1.00	1.00		0.76	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	1141	1618	1315		1204	2420	1537	2255		2981	1456	1337
Peak-hour factor, PHF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	124	20	28	61	18	616	16	934	24	720	1092	101
RTOR Reduction (vph)	0	0	23	0	0	70	0	1	0	0	0	31
Lane Group Flow (vph)	124	20	5	0	79	546	16	957	0	720	1092	70
Confl. Peds. (#/hr)			22	22					14			4
Turn Type	Perm	NA	Perm	Perm	NA	pm+ov	Prot	NA		Prot	NA	Perm
Protected Phases		4			8	1	5	2		1	6	
Permitted Phases	4		4	8		8						6
Actuated Green, G (s)	18.9	18.9	18.9		18.9	48.7	2.3	53.2		29.8	80.5	80.5
Effective Green, g (s)	18.9	18.9	18.9		18.9	48.7	2.3	53.2		29.8	80.5	80.5
Actuated g/C Ratio	0.16	0.16	0.16		0.16	0.42	0.02	0.46		0.26	0.69	0.69
Clearance Time (s)	5.0	5.0	5.0		5.0	5.2	5.4	4.3		5.2	4.3	4.3
Vehicle Extension (s)	1.0	1.0	1.0		1.0	1.0	1.0	1.6		1.0	1.6	1.6
Lane Grp Cap (vph)	185	262	213		195	1012	30	1030		763	1006	924
v/s Ratio Prot		0.01				0.14	0.01	0.42		c0.24	c0.75	
v/s Ratio Perm	c0.11		0.00		0.07	0.09						0.05
v/c Ratio	0.67	0.08	0.02		0.41	0.54	0.53	0.93		0.94	1.09	0.08
Uniform Delay, d1	45.8	41.3	41.0		43.7	25.4	56.5	29.8		42.5	18.0	5.8
Progression Factor	1.00	1.00	1.00		1.00	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	7.3	0.0	0.0		0.5	0.3	8.8	13.7		19.8	54.5	0.0
Delay (s)	53.1	41.4	41.0		44.2	25.7	65.3	43.5		62.3	72.5	5.9
Level of Service	D	D	D		D	С	Е	D		Е	Е	Α
Approach Delay (s)		49.8			27.8			43.9			65.1	
Approach LOS		D			С			D			Е	
Intersection Summary												
HCM 2000 Control Delay			52.0	Н	CM 2000	Level of	Service		D			

intersection Summary				
HCM 2000 Control Delay	52.0	HCM 2000 Level of Service	D	
HCM 2000 Volume to Capacity ratio	1.03			
Actuated Cycle Length (s)	116.4	Sum of lost time (s)	14.7	
Intersection Capacity Utilization	97.0%	ICU Level of Service	F	
Analysis Period (min)	15			
c Critical Lane Group				

#### 2: Salinas Rd/Porter Dr & Salinas Rd-Stender Ave

Intersection						
Int Delay, s/veh	0.4					
		W/DD	NET	NES	051	007
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		ĵ.		ች	<b>↑</b>
Traffic Vol, veh/h	12	13	917	132	32	1046
Future Vol, veh/h	12	13	917	132	32	1046
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	e, # 1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	12	13	945	136	33	1078
		_		_		
	Minor1		/lajor1		Major2	
Conflicting Flow All	2157	1013	0	0	1081	0
Stage 1	1013	-	-	-	-	-
Stage 2	1144	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	52	290	-	-	645	-
Stage 1	351	-	_	-	-	_
Stage 2	304	_	_	_	_	_
Platoon blocked, %			_	_		_
Mov Cap-1 Maneuver	49	290	_	_	645	_
Mov Cap 1 Maneuver	167	_	_	_	-	_
Stage 1	351					
Stage 2	288	_	_			_
Slaye 2	200	<u>-</u>	_	_	-	<u>-</u>
Approach	WB		NB		SB	
HCM Control Delay, s	24.1		0		0.3	
HCM LOS	С					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-		645	-
HCM Lane V/C Ratio		-	-		0.051	-
HCM Control Delay (s)	)	-	-	24.1	10.9	-
HCM Lane LOS		-	-	С	В	-
HCM 95th %tile Q(veh	١		_	0.4	0.2	_

Intersection						
Int Delay, s/veh	1.6					
		EDD	MDI	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĵ.		<u> ነ</u>	<u></u>	ች	7
Traffic Vol, veh/h	739	2	8	647	27	111
Future Vol, veh/h	739	2	8	647	27	111
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	50	-	0	50
Veh in Median Storage,	# 0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	762	2	8	667	28	114
	1ajor1		Major2		Minor1	
Conflicting Flow All	0	0	764	0	1446	763
Stage 1	-	-	-	-	763	-
Stage 2	-	-	-	-	683	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	849	-	145	404
Stage 1	-	_	-	_	460	-
Stage 2	_	_	-	-	502	_
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	_	_	849	_	144	404
Mov Cap-2 Maneuver	_	_	-	<u>-</u>	284	-
Stage 1					460	_
Stage 2	_				497	_
Slaye Z	-	-	-	-	431	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		17.7	
HCM LOS					С	
Minor Lane/Major Mvmt	: I	NBLn11		EBT	EBR	WBL
Capacity (veh/h)		284	404	-	-	849
HCM Lane V/C Ratio		0.098	0.283	-	-	0.01
HCM Control Delay (s)		19	17.4	-	-	9.3
HCM Lane LOS		С	С	-	-	Α
HCM 95th %tile Q(veh)		0.3	1.1	-	-	0
7						

Intersection						
Int Delay, s/veh	0.4					
		EDT	WDT	WDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<b>ነ</b>	<b>†</b>	<b>\$</b>	40	¥	40
Traffic Vol, veh/h	29	820	637	13	7	18
Future Vol, veh/h	29	820	637	13	7	18
Conflicting Peds, #/hr	0	_ 0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	50	-	-	-	0	-
Veh in Median Storage	e, # -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	30	845	657	13	7	19
Major/Minor	Major1		Majora		Minor	
	Major1		Major2		Minor2	004
Conflicting Flow All	670	0	-	0	1569	664
Stage 1	-	-	-	-	664	-
Stage 2	-	-	-	-	905	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	
Pot Cap-1 Maneuver	920	-	-	-	122	461
Stage 1	-	-	-	-	512	-
Stage 2	-	-	-	-	395	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	920	-	-	-	118	461
Mov Cap-2 Maneuver	-	-	-	-	253	-
Stage 1	-	-	-	-	495	-
Stage 2	_	-	-	_	395	-
Δ			14/5		0.0	
Approach	EB		WB		SB	
HCM Control Delay, s	0.3		0		15.3	
HCM LOS					С	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SRI n1
	··	920		1101		375
Capacity (veh/h) HCM Lane V/C Ratio			_		-	
		0.032	-	-		0.069
HCM Control Delay (s)		9	-	-	-	
HCM Lane LOS	\	A	-	-	-	С
HCM 95th %tile Q(veh	)	0.1	-	-	-	0.2

Intersection												
Int Delay, s/veh	0.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	75	f)		ሻ	ĵ.			44			4	
Traffic Vol, veh/h	35	775	0	0	615	13	1	0	0	4	0	22
Future Vol, veh/h	35	775	0	0	615	13	1	0	0	4	0	22
Conflicting Peds, #/hr	3	0	2	2	0	3	3	0	0	0	0	3
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	50	-	-	50	-	-	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	5	5	5	4	4	4	2	2	2	2	2	2
Mvmt Flow	36	799	0	0	634	13	1	0	0	4	0	23
Major/Minor	Major1		ı	Major2		ı	Minor1			Minor2		
Conflicting Flow All	650	0	0	801	0	0	1528	1523	801	1515	1517	647
Stage 1	-	-	-	-	-	-	873	873	-	644	644	-
Stage 2	-	_	-	-	-	-	655	650	-	871	873	-
Critical Hdwy	4.15	_	-	4.14	_	_	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	_	_	-	_	_	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	_	-	-	_	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.245	-	-	2.236	_	_	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	922	-	-	813	-	-	96	118	384	98	119	471
Stage 1	-	-	-	-	-	-	345	368	-	461	468	-
Stage 2	-	-	-	-	-	-	455	465	-	346	368	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	919	-	-	811	-	-	88	113	383	95	114	468
Mov Cap-2 Maneuver	-	-	-	-	-	-	88	113	-	95	114	-
Stage 1	-	-	-	-	-	-	331	353	-	442	467	-
Stage 2	-	-	-	-	-	-	432	464	-	332	353	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0			46.4			18.6		
HCM LOS	V. I						E			C		
							_					
Minor Lane/Major Mvn	ot I	NBLn1	EBL	EBT	EBR	WBL	WBT	\M/DD	SBLn1			
	II.			LDI			VVDI	WDK				
Capacity (veh/h)		88	919	-	-	811	-	-	292			
HCM Central Delay (a)	\		0.039	-	-	-	-	-	0.092			
HCM Long LOS		46.4	9.1	-	-	0	-	-	18.6			
HCM Lane LOS	.\	E	Α	-	-	A	-	-	C			
HCM 95th %tile Q(veh	1)	0	0.1	-	-	0	-	-	0.3			

## Appendix I North County Fire District Emergency Access Review Email

#### **Jeffrey Nohr**

From: Joel Mendoza <joel.mendoza@ncfpd.org>
Sent: Friday, November 19, 2021 8:59 AM

**To:** Jeffrey Nohr

**Subject:** RE: Susan St Agricultural Employee Housing project PLN#210152

Mr. Nohr,

Regarding questions 1 and 2 (below), based on the diagram that accompanies each question, I agree that Susan Street meets the street standard for both questions 1 and 2.

Thank you,

Joel Mendoza



Joel Mendoza Fire Chief

www.ncfpd.org

**North County Fire District** 

Off: 831-633-2578 Cel: 831-212-1908 Fax: 831-633-2572

mailto:Joel.Mendoza@ncfpd.org

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From: Jeffrey Nohr < jeff@avilaconst.com>
Sent: Thursday, November 18, 2021 4:23 PM
To: Joel Mendoza < joel.mendoza@ncfpd.org>

Subject: RE: Susan St Agricultural Employee Housing project PLN#210152

Joel

Good afternoon.

Were you have to review and discuss this Juan Hernandez? I would appreciate if you could get back to me tomorrow at some point with an update.

Thank you,



#### JEFFREY D. NOHR

Project Manager

Email: Jeff@avilaconst.com.com

Direct Dial: 831.382.3523 | Cell: 831.917.5622 | Main Office: 831.372.5580

Fax: 831.372.5584

12 Thomas Owens Way, Ste 200, Monterey, CA 93940

From: Jeffrey Nohr

**Sent:** Tuesday, November 16, 2021 10:28 AM **To:** Joel Mendoza < joel.mendoza@ncfpd.org>

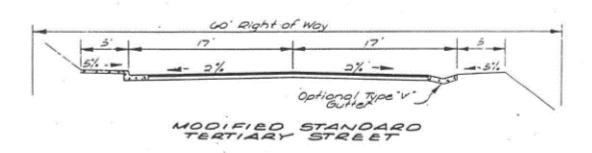
Subject: RE: Susan St Agricultural Employee Housing project PLN#210152

Joel

Following up on our conversation yesterday. These are the two questions to review from public works. Juan Hernandez is reviewing the project from Public Works.

For pedestrian safety, Where would the pedestrians from the proposed project walk?

Response / Action: Per county standard Susan St. meets the threshold of a Tertiary Street - 100 units abutted by residential lots and provided access to no more than 100 units. 300 to 1,000 vehicles expected in 20 years. Project proposes 61 units + 18 existing lots = 78 units. Project will propose to complete missing sections of side walk along West side of Susan St. for continuous path of travel along Susan St. See Standard Detail below for Modified Tertiary St. Susan St. Currently meets this street standard.



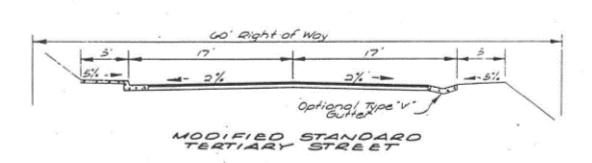
Provide analysis that Susan Street travel width is adequate to accommodate existing on street parking and ingress and egress for emergency vehicles?

Response: Please refer to section Monterey County FIRE001 - ROAD ACCESS Access roads shall be required for every building when any portion of the exterior wall of the first story is located more than 150 feet from fire department access. All roads shall be constructed to provide a minimum of two nine-foot traffic lanes with an unobstructed vertical

clearance of not less than 15 feet. The roadway surface shall provide unobstructed access to conventional drive vehicles including sedans and fire apparatus and shall be an all-weather surface designed to support the imposed load of fire apparatus (22 tons). Each road shall have an approved name.

Susan St. currently meets this standard.

Per county standard Susan St. meets the threshold of a Tertiary Street - 100 units abutted by residential lots and provided access to no more than 100 units. 300 to 1,000 vehicles expected in 20 years. Project proposes 61 units + 18 existing lots = 78 units.





#### JEFFREY D. NOHR

Project Manager

Email: Jeff@avilaconst.com.com

Direct Dial: 831.382.3523 | Cell: 831.917.5622 | Main Office: 831.372.5580

Fax: 831.372.5584

12 Thomas Owens Way, Ste 200, Monterey, CA 93940

From: Joel Mendoza < <u>joel.mendoza@ncfpd.org</u>>
Sent: Thursday, November 4, 2021 10:54 AM
To: Jeffrey Nohr < jeff@avilaconst.com>

**Subject:** RE: Susan St Agricultural Employee Housing project PLN#210152

Jeff,

I emailed you an invoice for our review of the Use and Variance Permit. At this point the project seems complete and I do not require any further information.

Please submit payment so that I can close out my review.

Thank you,



#### Joel Mendoza Fire Chief

www.ncfpd.org

**North County Fire District** 

Off: 831-633-2578 Cel: 831-212-1908 Fax: 831-633-2572

mailto:Joel.Mendoza@ncfpd.org

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From: Jeffrey Nohr < jeff@avilaconst.com > Sent: Tuesday, November 2, 2021 8:14 AM

To: Joel.Mendoza@ncfpd.org

Cc: Mike Avila <mike@avilaconst.com>

**Subject:** Susan St Agricultural Employee Housing project PLN#210152

Joel -

Good Morning.

I am emailing to reach out to provide any assistance or response to questions to keep traction on the review and approval process for the **Susan St Agricultural Employee Housing project PLN#210152**. The project was submitted on October 14<sup>th</sup> to our planner Shawn Archbold at *Monterey County Housing and Community Development Services Department*. The property is located at 51, 53, 55 & 57 Susan Street, Royal Oaks (Assessor's Parcel Number 117-361-016-000), North County Area Plan. The proposed project consists of the construction of four (4) two-story apartment style buildings on the 3.41-acre property, consisting of 60 apartment units, two (2) laundry facilities, one (1) manager unit, one (1) recreation room, open space. The housing project would be occupied primarily during the Salinas Valley harvest season from April through November. The housing would be available for agricultural employees and is designed to accommodate a maximum of 480 agricultural employees without dependents. Each apartment unit would be suitable to house up to eight individuals.

The planning application submittal was routed out to all reviewing agencies the week of October 18th. The 30 day review period for interagency comment and completeness is due to expire on November 15th at which time we are looking to receive a letter of completeness to move our approval process forward. We would appreciate any feedback or comment prior to the November 15th date to make sure you can provide any required conditions and approval during this planning review stage to allow your department to properly condition the project and allow our planner to issue a letter of completeness during this first 30 day review period.

I am available for any questions or discussions to assist you in your review.

Please feel free to contact me by phone or email.

Regards,



#### JEFFREY D. NOHR

Project Manager
Email: Jeff@avilaconst.com.com
Direct Dial: 831.382.3523 | Cell: 831.917.5622 | Main Office: 831.372.5580

Fax: 831.372.5584

12 Thomas Owens Way, Ste 200, Monterey, CA 93940

# Appendix J San Juan Road Collision History – Raw SWITRS Database 2011-October 2021

Total Count: 3527

County: Monterey

Report Run On: 11/22/2021

Does not include state riighway cases Report Run On	. 11/22/2021
Primary Rd SAN JUAN RD  Distance (ft) 150. Direction  E Secondary Rd  SUSAN ST  NC/C 9730 State Hwy? N Route Postmile Prefix Postmile  Postmile Prefix Postmile  Side of Hwy  City UNINCORP. County Monterey  Population 9 Rpt Dist  Beat 075 Type 2 CalTrans  Badge 018786 Collision Date 20140320  Time 2500 Day THU  Primary Collision Factor IMPROP TURN  Violation 22107 Collision Type SIDESWIPE  Severity  PDO #Killed 0 #Injured 0 Tow Away? N Process Date 20150227  Weather1 CLEAR  Weather2  Rdwy Surface DRY  Rdwy Cond1  NO UNUSL CND Rdwy Cond2  Spec Cond  Hit and Run  Motor Vehicle Involved With PKD MV  Lighting DAYLIGHT  Ped Action  Cntrl Dev  NT PRS/FCTR Loc Type  Ramp/Int	1
Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip 1F DRVR 998 - IMP UNK IMP UNK UNS TURN E - 9900 3 N 2 PRKD 998 - PARKED E A 0100 MERCU 1999 - 3 N	Ejected
Primary Rd SAN JUAN RD  Distance (ft) 528. Direction  E Secondary Rd SUSAN ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Promary Rd SAN JUAN RD  Distance (ft) 528. Direction  E Secondary Rd SUSAN ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Promary Rd SAN JUAN RD  Distance (ft) 528. Direction  E Secondary Rd SUSAN ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Promary Rd Side of Hwy Primary Rd Susan ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Promary Rd Side of Hwy Primary Rd Susan ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Promary Rd Side of Hwy Primary Rd Susan ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Promary Rd Side of Hwy Primary Rd Susan ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Promary Rd Side of Hwy Primary Rd Susan ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Promary Rd Side of Hwy Primary Rd Susan ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Profix Postmile Profix Postmile Profix Postmile Profix Postmile Postmile Prefix Postmile Profix Postmile Pro	2
Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 31 M O HNBD PASSING W A 0100 TOYOT 2005 - 3 N - M G PASS 21 M 3 0 M  Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 31 M O HNBD PASSING W A 0100 TOYOT 2005 - 3 N - M G PASS 21 M 3 0 P  2 DRVR 57 M H HNBD LFT TURN W A 0800 CHRYS 2001 - 3 N - M G	Ejected G G
Primary Rd SAN JUAN RD Distance (ft) 300. Direction E Secondary Rd SUSAN ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Promote Primary Rd SAN JUAN RD City UNINCORP. County Monterey Primary Collision Factor NOT DRIVER Violation Collision Type HIT OBJECT Severity PDO Hit and Run  Motor Vehicle Involved With FIXED OBJ Distance (ft) 300. Direction E Secondary Rd SUSAN ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy Fixed Postmile Prefix Postmile	3
Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip 1 DRVR 65 M HNBD PROC ST N E 2336 FORD 1990 - 3 N - M G	Ejected
Primary Rd SAN JUAN RD  Distance (ft) 75.0 Direction E Secondary Rd TARPEY RD  NCIC 9730 State Hwy? N Route  Postmile Prefix Postmile  Side of Hwy  City UNINCORP. County Monterey  Population 9 Rpt Dist  Beat 075 Type 2 CalTrans  Badge 12332 Collision Date 20141203  Time 1338 Day WED  Primary Collision Factor  DRVR ALC DRG  Violation 23152A  Collision Type SIDESWIPE  Severity  PDO  #Killed 0 #Injured 0 Tow Away? N Process Date 20150713  Weather1 CLOUDY  Weather2  Rdwy Cond1  NO UNUSL CND Rdwy Cond2  Spec Cond 0  Hit and Run  MSDMNR  Motor Vehicle Involved With OTHER MV  Lighting DAYLIGHT  Ped Action  Cntrl Dev  NT PRS/FCTR Loc Type  Ramp/Int	
Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip 1F DRVR 67 M W HBD-UI PASSING E D 2200 TOYOT 2004 - 3 A - M G 2 DRVR 28 M H HNBD PROC ST E F 2600 INTER 2014 - 3 N - M G	Ejected
Primary Rd SAN LORENZO Distance (ft) 500. Direction W Secondary Rd SAN ANTONIO RD NCIC 9735 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCPARK RD County Monterey Population 9 Rpt Dist Beat 003 Type 3 CalTrans Badge 017292 Collision Date 20140822 Time 1313 Day FRI Primary Collision Factor WRONG SIDE Violation 21650 Collision Type HIT OBJECT Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20150505 Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With FIXED OBJ Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int Victim Info	
Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 70 M W HNBD RAN OFFRD W A 0100 CHEVR 1999 - 1 N - L G	Ejected

County: Monterey

Primary Collision Factor R-O-W AUTO Violation 21802A Collision Type BROADSIDE Severity INJURY #Killed 0 #Injured 2 Tow Away? Y Process Date 20160620 Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0														
Party   Type   Age   Sex Race   Sobriety	City UNINCORP. County Monterey Primary Collision Factor UNSAFE SPEED	Population Violation 2	9 Rpt Dist 22350 Collis	Beat 075 ion Type REAR	Type :	<b>2</b> CalTrans Severity INJUR	Badge Y #Killed dwy Cond2	020896 ( d 0 #Inj	Collision Date iured <b>1</b> Tow Spec C	20160324 Away? N Cond 0		1710 <i>Da</i>	y THU	
Party   Type   Age   Sex Race   Sobriety	Hit and Run Motor Vehicle	e Involved With OTI	HER MV	Lighting Di	AYLIGHT	Ped Action	Cntrl Dev	/ NT PRS/	FCTR Loc Type	)	Ran	np/Int		
FOR DEVIR 25 N			Party Info						-		/ictim Info			
PASS   16   F   3   0   M   G								ROLE	Ext Of Inj AG	E Sex	Seat Pos	s Safety	EQUIP	Ejected
PASS   16   F   3   0   M   G	2 DRVR 25 F H HNBD	SLOWING W	A 0	700 MERC 200	3 - 3	Ν -	M G	DRVR	COMP PN 25	F	1	0	М	G
Primary Ref SAN JUAN RD										F	3	0	М	G
Cap ViniNCORP.   County Monterey   Population   Party Info   Party I								PASS	6	M	5	0	Р	G
Party Type	City UNINCORP. County Monterey Primary Collision Factor IMPROP PASS Weather1 CLEAR Weather2	Population Violation 2 Rdw	9 Rpt Dist 21755 Collis ry Surface DRY HER MV	Beat 075 ion Type BROA Rdwj	Type : DSIDE y Cond1 N	2 CalTrans Severity INJUR NO UNUSL CND F	Badge <b>Y</b> #Killed dwy Cond2	020896 ( d 0 #Inj	Collision Date iured <b>2</b> Tow Spec C	20160531 Away? Y cond 0	Process Ran	1745 <u>Da</u> Date 2016	y TUE	
F   DRVR 19   M   H   HNBD   RAN OFF RD   W   A   0100   HOND 1997 - 3   A   22107 - L   G   DRVR   COMP PN 19   M   1   0   L   G	Body Tong Ave Octo Book October 4 October 6	Maria Dia Di	•	D.Vala Mala Va	OD (-(-	0.454 1/24 0.45	0.0-6-6-5	DO1 5	E 4 00 le 1 40			0-6-6-	FOLUD	Finales
2 DRVR 35 F H HNBD PROC ST E A 0100 HOND 2005 - 3 N - M G DRVR OTH VIS 35 F I 0 M G PROC ST E A 0700 TOYT 2016 - 3 N - M G DRVR OTH VIS 35 F I 0 M G PROC ST E A 0700 TOYT 2016 - 3 N - M G DRVR OTH VIS 35 F I 0 M G PROC ST E A 0700 TOYT 2016 - 3 N - M G DRVR OTH VIS 35 F I 0 M G PROC ST E A 0700 TOYT 2016 - 3 N - M G DRVR OTH VIS 35 F I 0 M G PROC ST E A 0700 TOYT 2016 - 3 N - M G DRVR OTH VIS 35 F I 0 M G PROC ST E A 0700 TOYT 2016 - 3 N - M G DRVR OTH VIS 35 F I 0 M G PROC ST E A 0700 TOYT 2016 - 3 N - M G DRVR OTH VIS 35 F I 0 M G DRVR OTH VIS 35 F I M G DRVR OTH VIS 35 F I M G DRV														
3 DRVR 56 M W HNBD														
Primary Rd SAN JUAN RD								DKVK	OTH VIS 35	F	Į.	U	IVI	G
Party   Type   Age   Sex   Race   Sobriety		violation	22350 COIIIS	ion Type REAR	END	Severity INJUR	Y #Killed	d <b>0</b> #Inj	iured 1 Tow	Away? Y	Process	Date 2016	60/11	
City UNINCORP.   County Monterey   Population   Populat	Weather1 CLOUDY Weather2 RAIN	NING Rdw	y Surface WET HER MV	Rdw	y Cond1 N	NO UNÚSL CND 🧗	dwy Cond2	•	Spec C	cond 0	Ram		60/11	
Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip  1F DRVR 17 F H HNBD PROC ST E A 0100 VOLK 2004 - 3 F - L G 2 PRKD 998 - PARKED E A 0700 HOND 1998 - 3 N 3 PRKD 998 - PARKED E A 0700 GMC 2002 - 3 N  Primary Rd SAN JUAN RD Distance (ft) 0.00 Direction Party UniNCORP. County Monterey  Population 9 Rpt Dist  Beat 007 Type 3 CalTrans  Beadge 020419 Collision Date 20160609  Weather 1 CLEAR Weather 2 Rdwy Surface DRY  Motor Vehicle Involved With OTHER MV  Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip  OAF1 Viol OAF2 Safety Equip  ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  Find Role Sex Safety Equip  Find Role Sex Seat Pos Safety EQUIP  Find Role Sex Seat Pos Safety EQUIP  Find R	Weather1 CLOUDY Weather2 RAIN Hit and Run Motor Vehicle  Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 44 M W HNBD	NING Rdw e Involved With OTI  Move Pre Dii  STOPPED E	y Surface WET HER MV Party Info r SW Veh CH	Rdw Lighting Di P Veh Make Yea 200 CHEV 199	y Cond1 N AYLIGHT ar SP Info 77 - 3	NO UNÚSL CND F Ped Action OAF1 Viol OAF N -	Cdwy Cond2 Cntrl Dev 2 Safety Equip M G	NT PRS/	Spec C FCTR Loc Type Ext Of Inj AG	e V E Sex	Ran /ictim Info Seat Pos	np/Int s Safety	EQUIP	
1F DRVR 17 F H HNBD PROC ST E A 0100 VOLK 2004 - 3 F - L G DRVR COMP PN 17 F 1 0 L G 2 PRKD 998 - PARKED E A 0700 HOND 1998 - 3 N 3 PRKD 998 - PARKED E A 0700 GMC 2002 - 3 N  Primary Rd SAN JUAN RD Distance (ft) 0.00 Direction Secondary Rd TARPEY RD NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy  City UNINCORP. County Monterey Population 9 Rpt Dist Beat 007 Type 3 CalTrans Badge 020419 Collision Date 20160609 Time 1727 Day THU  Primary Collision Factor R-O-W AUTO Violation 21802A Collision Type BROADSIDE Severity INJURY #Killed 0 #Injured 2 Tow Away? Y Process Date 20160620  Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0  Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev FNCTNG Loc Type Ramp/Int  Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP Ejected	Weather1 CLOUDY Weather2 RAIN Hit and Run  Motor Vehicle  Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 44 M W HNBD 2 DRVR 21 M H HNBD  Primary Rd SAN JUAN RD City UNINCORP. County Monterey Primary Collision Factor Weather1 CLOUDY  Weather2  RAIN Motor Vehicle  Distance (ft) 5  City UNINCORP. County Monterey Weather2	MING Rdw e Involved With OTI  Move Pre Din STOPPED E PROC ST E  0.0 Direction N Population Violation 2 Rdw	y Surface WET HER MV Party Info r SW Veh CH D 2 A 0  N Secondary F 9 Rpt Dist 22107 Collis ry Surface DRY D MV	Rdw_Lighting Direction P Veh Make Year 200 CHEV 199 100 HOND 199 Rd SUSAN ST Beat 075 ion Type BROA Rdw.	AYLIGHT  PAYLIGHT  PAYLIGH	NO UNUSL CND F Ped Action  OAF1 Viol OAF N - N -  9730 State Hwy CAITrans Severity INJUR NO UNUSL CND F	Cond2 Contrl Dev  Safety Equip M G M G N Route Badge Y #Killed	NT PRS/I	Spec Control of the specific states of the sp	E Sex  M  Postmile 20161011 Away? Yoond 0	Ram /ictim Info Seat Pos  1 Time Process Ram	Side control of the c	EQUIP  M  of Hwy  ny TUE	G
PARKED E A 0700 HOND 1998 - 3 N	Weather1 CLOUDY Hit and Run  Motor Vehicle  Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 44 M W HNBD  2 DRVR 21 M H HNBD  Primary Rd SAN JUAN RD City UNINCORP. County Monterey Primary Collision Factor Weather1 CLOUDY  Hit and Run  Weather2 RAIN  Motor Vehicle  Motor Vehicle	MING Rdw. e Involved With OTI  Move Pre Din  STOPPED E PROC ST E  0.0 Direction V Population Violation 2 Rdw e Involved With PKI	y Surface WET HER MV Party Info r SW Veh CH D 2 A 0  N Secondary F 9 Rpt Dist 22107 Collis ry Surface DRY D MV Party Info	Rdw Lighting Di P Veh Make Yea 200 CHEV 199 100 HOND 199 Rd SUSAN ST Beat 075 ion Type BROA Rdw Lighting Di	AYLIGHT  PAYLIGHT  PAYLIGH	OAF1 Viol OAF  N -  9730 State Hwy CalTrans Severity INJUR Ped Action	Control Device Contro	Posti 020896 (0 #lnj	Spec Corrections of the specific states of th	E Sex  M  Postmile 20161011 Away? Y	Ram /ictim Info Seat Pos  1 Time Process Ram /ictim Info	s Safety  0 Side c 0230 Date 2016	EQUIP  M of Hwy ny TUE 61018	G 4
Reference of the part of the p	Weather1 CLOUDY Hit and Run  Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 44 M W HNBD 2 DRVR 21 M H HNBD  Primary Rd SAN JUAN RD City UNINCORP. County Monterey Primary Collision Factor Weather1 CLOUDY Weather2 Hit and Run  Weather2 RAIN Motor Vehicle Party Type Age Sex Race Sobriety1 Sobriety2	MING Rdw e Involved With OTI  Move Pre Dii STOPPED E PROC ST E  0.0 Direction N Population Violation 2 Rdw e Involved With PKI  Move Pre Dii	y Surface WET HER MV Party Info r SW Veh CH D 2 A 0 N Secondary F 9 Rpt Dist 22107 Collis ry Surface DRY D MV Party Info r SW Veh CH	Rdw_Lighting Direction Dir	AYLIGHT  PAYLIGHT  PAYLIGH	NO UNUSL CND F Ped Action  OAF1 Viol OAF N - N - 9730 State Hwy CalTrans Severity INJUR NO UNUSL CND F Ped Action  OAF1 Viol OAF	Control Device States and Control Device Sta	NT PRS/I  DRVR  Posti 020896 ( 0 #Inj  NT PRS/I	Spec Corporation of the second	E Sex  Postmile 20161011 Away? Yound 0	Ram /ictim Info Seat Pos  1 Time Process Ram /ictim Info Seat Pos	Side of Date 2016	EQUIP  M of Hwy ny TUE 61018	G 4
Primary Rd SAN JUAN RD Distance (ft) 0.00 Direction Secondary Rd TARPEY RD NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 007 Type 3 CalTrans Badge 020419 Collision Date 20160609 Time 1727 Day THU Primary Collision Factor R-O-W AUTO Violation 21802A Collision Type BROADSIDE Severity INJURY #Killed 0 #Injured 2 Tow Away? Y Process Date 20160620 Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev FNCTNG Loc Type Ramp/Int Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP Ejected	Weather1 CLOUDY Hit and Run  Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 44 M W HNBD 2 DRVR 21 M H HNBD  Primary Rd SAN JUAN RD City UNINCORP. County Monterey Primary Collision Factor IMPROP TURN Weather1 CLOUDY Weather2 Hit and Run  Motor Vehicle  Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 17 F H HNBD	MING Rdw e Involved With OTI  Move Pre Dii STOPPED E PROC ST E  0.0 Direction N Population Violation 2 Rdw e Involved With PKI  Move Pre Dii PROC ST E	Party Info The SW Veh CH D 2 A 0  N Secondary F 9 Rpt Dist 22107 Collist Ny Surface DRY D MV Party Info T SW Veh CH A 0	Rdw_Lighting Directors Dir	AYLIGHT  PAYLIGHT  PAYLIGH	NO UNUSL CND F Ped Action  OAF1 Viol OAF N - N - 9730 State Hwy CalTrans Severity INJUR NO UNUSL CND F Ped Action  OAF1 Viol OAF F -	Condition of the condit	NT PRS/I  DRVR  Posti 020896 ( 0 #Inj  NT PRS/I	Spec Corporation of the second	E Sex  Postmile 20161011 Away? Yound 0	Ram /ictim Info Seat Pos  1 Time Process Ram /ictim Info Seat Pos	Side of Date 2016	EQUIP  M of Hwy by TUE 61018	G 4
Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP Ejected	Weather1 CLOUDY Hit and Run  Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 44 M W HNBD 2 DRVR 21 M H HNBD  Primary Rd SAN JUAN RD City UNINCORP. County Monterey Primary Collision Factor IMPROP TURN Weather1 CLOUDY Weather2 Hit and Run  Motor Vehicle  Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 17 F H HNBD 2 PRKD 998 -	MING Rdw e Involved With OTI  Move Pre Din STOPPED E PROC ST E  0.0 Direction Violation Violation 2 Rdw e Involved With PKI  Move Pre Din PROC ST E PARKED E	y Surface WET HER MV Party Info r SW Veh CH D 2 A 0 N Secondary F 9 Rpt Dist 22107 Collis ry Surface DRY D MV Party Info r SW Veh CH A 0 A 0	Rdw_Lighting Direction P Veh Make Year 200 CHEV 199 100 HOND 199 Rd SUSAN ST Beat 075 ion Type BROARdw_Lighting Direction P Veh Make Year 100 VOLK 200 700 HOND 199	AYLIGHT  PAYLIGHT  PAYLIGH	NO UNUSL CND F Ped Action  OAF1 Viol OAF N - N - 9730 State Hwy 2 CalTrans Severity INJUR NO UNUSL CND F Ped Action  OAF1 Viol OAF F - N -	Control Device Contro	NT PRS/I  DRVR  Posti 020896 ( 0 #Inj  NT PRS/I	Spec Corporation of the second	E Sex  Postmile 20161011 Away? Yound 0	Ram /ictim Info Seat Pos  1 Time Process Ram /ictim Info Seat Pos	Side of Date 2016	EQUIP  M of Hwy by TUE 61018	G 4
	Weather1 CLOUDY Hit and Run  Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 44 M W HNBD 2 DRVR 21 M H HNBD  Primary Rd SAN JUAN RD City UNINCORP. County Monterey Primary Collision Factor Weather1 CLOUDY Hit and Run  Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 17 F H HNBD  2 PRKD 998 - 3 PRKD 998 - 3 PRKD 998 - Primary Rd SAN JUAN RD City UNINCORP. County Monterey Primary Rd SAN JUAN RD Distance (ft) 0 City UNINCORP. County Monterey Primary Collision Factor Weather1 CLEAR Weather2	MING Rdw e Involved With OTI  Move Pre Din STOPPED E PROC ST E  10.0 Direction Violation 2 Rdw e Involved With PKI  Move Pre Din PROC ST E PARKED E PARKED E PARKED E 1.00 Direction Population Violation 2 Rdw	Party Info	Rdw, Lighting Di P Veh Make Yee 200 CHEV 199 100 HOND 199 Rd SUSAN ST Beat 075 ion Type BROA Rdw, Lighting Di P Veh Make Yee 100 VOLK 200 700 HOND 199 700 GMC 200 Rd TARPEY RD Beat 007 ion Type BROA Rdw, ion Type BROA	AYLIGHT  AYL	OAF1 Viol OAF  Ped Action  OAF1 Viol OAF  N -  9730 State Hwy  CalTrans  Severity INJUR  NO UNUSL CND F  Ped Action  OAF1 Viol OAF  F -  N -  9730 State Hwy  CalTrans  Severity INJUR  1 Severity INJUR  1 Severity INJUR  1 OUNUSL CND F	Control Device Contro	NT PRS/I  DRVR  Posti 020896 ( 0 #In)  NT PRS/I  NT PRS/I  DRVR  Posti 020419 ( 0 #In)	Spec Cofference of the composition of the compositi	Sex   M   Postmile   20161011   Away? Yound   O   Sex   F   Postmile   20160609   Away? Yound   O   Sex   Postmile   20160609   Away? Yound   O   Sex   Sex   F   Postmile   20160609   Away? Yound   O   Sex   Sex   F   Postmile   Condition   O   Sex   Condition	Ram Victim Info Seat Pos  1  Time Process  Ram Victim Info Seat Pos 1	Side of Side o	EQUIP  M  of Hwy  y TUE 61018  EQUIP L	G 4

**01/01/2017 thru 12/31/2017**Total Count: 4253

County: Monterey

Does not include State Highway cases

Report Run On: 11/22/2021

2 DRVR 31 M H HNBD	PROC ST	E	A 0800	CHRYS 1996	- 3	N	-	L G	PASS PASS	COMP PN COMP PN OTH VIS COMP PN	25 25	M F M	1 3 4 6	0 0 0	L L M M	G G G
City UNINCORP. County Monterey Primary Collision Factor IMPROP TURN Weather1 CLEAR Weather2	Population Violation	9 / 22107 dwy Sur KD MV	Collision T	Beat <b>075</b>	Type VIPE Cond1	Severity NO UNUSL	rans INJURY CND Rdw	Badge #Killed y Cond2	020990 0 #//	tmile Prefix Collision Da njured 1 Sp /FCTR Loc	nte <b>20</b> Tow Awa ec Cond	ay? Y 1 0	Process Ran	2015 Da		5
Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 52 M H HNBD  2 PRKD 998 -  3 PRKD 998 -	UNS TURN PARKED	Dir SI	ty Info W Veh CHP Vel A 0700 A 0100 A 0100	Make Year  AMER 1992  HOND 1999  HOND 2001	- 3 - 3	F N	ol OAF2 S	Safety Equip P G 		Ext Of Inj MINOR			ctim Info Seat Po 1	S Safety 0	EQUIP P	Ejected G
City UNINCORP. County Monterey Primary Collision Factor R-O-W AUTO Weather1 CLEAR Weather2	Population Violation	9 / 21804 dwy Sur THER I	A Collision T rface DRY MV		Type SIDE Cond1	2 Call Severity NO UNUSL	rans PDO	Badge #Killed y Cond2	021407 0 #//	tmile Prefix Collision Da njured <b>0</b> Sp /FCTR Loc	nte <b>20</b> Tow Awa ec Cond	ay? Y 1 0	Process Ran	Side o 1730 Daj Date <b>2017</b> np/Int	•	6
Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 90 M H HNBD  2 DRVR 47 M W HNBD	LFT TURN		ty Info W Veh CHP Vel A 0100 A 0100	h Make Year HONDA 1993 PORS 2014	- 3	N	ol OAF2 S	Safety Equip M G L G	ROLE	Ext Of Inj	AGE		ctim Info Seat Po	s Safety	EQUIP	Ejected
Primary Rd SAN JUAN ROAD  City UNINCORP. County Monterey  Primary Collision Factor UNSAFE SPEED  Weather1 CLEAR Weather2  Hit and Run Motor Vehicle	Population Violation	9 / 22350 dwy Sur	rface DRY		Type :ND Cond1	2 Call Severity NO UNUSL	rans INJURY CND Rdw	Badge #Killed y Cond2	018886 0 #//	tmile Prefix Collision Da njured 1 Sp JFCTR Loc	nte <b>20</b> Tow Awa ec Cond	ay? Y	Process	0930 Da		7
Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 41 M H HNBD  2 DRVR 40 M H HNBD		Dir SI <b>W</b>	ty Info <i>W Veh CHP Vel</i> D 2200  A 0100	h Make Year CHEVR 2006 SUBA 2003	- 3	F	ol OAF2 S N -	afety Equip M G M G		Ext Of Inj			ctim Info Seat Po	s Safety	EQUIP M	Ejected G
Primary Rd SAN JUAN ROAD Distance (ft) 0. City UNINCORP. County Monterey Primary Collision Factor DRVR ALC DRG Weather1 RAINING Weather2 Hit and Run Motor Vehicle	Population Violation Ro	9 / 23152 dwy Sur IXED O	A Collision T rface WET BJ	Beat 075 Type HIT OB	<i>Type</i> <b>JECT</b> Cond1	Severity NO UNUSL	rans PDO CND Rdw	Badge #Killed y Cond2	019512 0 #//		nte <b>20</b> Tow Awa ec Cond	ay? Y 1 0	Process Ran	Side of 1900 Daj Date 2017 np/Int	•	
Party Type Age Sex Race Sobriety1 Sobriety2  1F DRVR 22 M H HBD-UI	Move Pre PROC ST	Dir SI	ty Info W Veh CHP Vei A 0100	h Make Year TOYT 2015				Safety Equip M G	ROLE	Ext Of Inj	AGE		ctim Info Seat Po	s Safety	EQUIP	Ejected

Total Count: 3968

County: Monterey

Report Run On: 11/22/2021

Does not include State Highway cases Primary Rd 19TH ST Distance (ft) 50.0 Direction Secondary Rd LIGHTHOUSE AV NCIC 2707 State Hwy? N Route Postmile Prefix **Postmile** Ν Side of Hwy City Pacific Grove County Monterey Population 3 Rpt Dist 2707 Beat 002 Type 0 CalTrans Badge 2224 Collision Date 20190612 Time 1430 Day WED Primary Collision Factor IMPROP TURN Violation 22107 Collision Type SIDESWIPE Severity PDO #Killed 0 #Injured 0 Tow Away? N Process Date 20190717 Weather1 CLOUDY Rdwy Surface DRY Rdwv Cond1 NO UNUSL CND Rdwy Cond2 Weather2 Spec Cond 0 Hit and Run Motor Vehicle Involved With PKD MV Lighting DAYLIGHT **MSDMNR** Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int Victim Info Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP Dir **Ejected** 1F DRVR 998 -HONDA **HBD-UNK** PROC ST S 9900 2 PRKD 998 -BMW 2017 -**PARKED** Α 0100 Primary Rd 1ST ST Distance (ft) 10.0 Direction S Secondary Rd ALVIN DR NCIC 2708 State Hwy? N Route Postmile Prefix Side of Hwy **Postmile** City Salinas County Monterey Population 6 Rpt Dist SALIN Beat 002 Type 0 CalTrans Badge 74130 Collision Date 20190221 Time 1701 Day THU Primary Collision Factor **UNSAFE SPEED** Violation 22350 Collision Type REAR END Severity INJURY #Killed 0 #Injured 1 Tow Away? Y Process Date 20190416 Weather1 CLEAR Weather2 Rdwv Surface DRY Rdwv Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run **MSDMNR** Motor Vehicle Involved With PKD MV Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int Party Info Victim Info CHP Veh Make Year SP Info Seat Pos Safety EQUIP Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex **Ejected** S М 1F DRVR 24 M H HNBD LFT TURN 0000 **HONDA 1997** G DRVR COMP PN 24 G PRKD 998 **PARKED** S 0000 **HONDA 1997** PRKD 998 -**PARKED** S 0000 **CHRYS 2002** Primary Rd 1ST ST Distance (ft) 0.00 Direction Secondary Rd BELDEN ST 2703 State Hwy? N Route Postmile Prefix Side of Hwy NCIC Postmile City Gonzales County Monterey Population 2 Rpt Dist 2703 Beat ALL Type 0 CalTrans Badge 9221 Collision Date 20190202 Time 1900 Day SAT Primary Collision Factor UNKNOWN Violation Collision Type AUTO/PED Severity **INJURY** #Killed 0 #Injured 1 Tow Away? N Process Date 20190318 Weather1 RAINING Weather2 Rdwy Surface WET Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond Hit and Run Motor Vehicle Involved With PED Lighting DUSK/DAWNPed Action X-WLK AT Cntrl Dev FNCTNG Loc Type Ramp/Int Victim Info Party Info SW Veh CHP Veh Make Year SP Info ROLE Ext Of Inj AGE Sex Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir OAF1 Viol OAF2 Safety Equip Seat Pos Safety EQUIP **Ejected** DRVR 82 M Н **HNBD** STOPPED w **SUZUK 2003** G Α 0100 54 F Н S PED null 6000 PED COMP PN 54 Secondary Rd LIGHTHOUSE AV NCIC 2707 State Hwy? N Route Primarv Rd 1ST ST Distance (ft) **0.00** Direction Postmile Prefix **Postmile** Side of Hwv Beat 002 0 Badge BAUM Collision Date 20190723 City Pacific Grove County Monterey Population 3 Rpt Dist 2707 Type CalTrans Time 1545 Day TUE Primary Collision Factor **STRTNG|BCKNG** Violation 22106 Collision Type OTHER Severity PDO #Killed #Injured 0 Tow Away? N Process Date 20190903 Weather1 CLEAR Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Weather2 Hit and Run Motor Vehicle Involved With PKD MV Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int Victim Info Party Info SW Veh CHP Veh Make Year SP Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir OAF1 Viol OAF2 Safety Equip ROLE Ext Of Ini AGE Sex Seat Pos Safety EQUIP Eiected 1F DRVR 67 F **HNBD PARKING** 0000 **HONDA 2016** В 2 PRKD 998 -**PARKED** S 0000 AUDI 2017 -Primary Rd 207 SAN JUAN RD Distance (ft) 40.0 Direction E Secondary Rd SUSAN DR NCIC 9730 State Hwv? N Route Postmile Prefix Postmile Side of Hwv 8 Badge 020677 Collision Date 20190922 City UNINCORP. County Monterev Population 9 Rpt Dist Beat 075 Type 2 CalTrans Time 0745 Day SUN IMPROP TURN PDO #Killed Primary Collision Factor Violation 22107 Collision Type REAR END Severity 0 #Injured 0 Tow Away? N Process Date 20191002 Weather1 CLEAR Weather2 Rdwv Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond Hit and Run Motor Vehicle Involved With OTHER MV Lighting DARK - ST Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int Victim Info Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Ini AGE Sex Seat Pos Safety EQUIP Eiected 1F DRVR 998 -IMP UNK IMP UNK UNS TURN W Α 0100 3 Ν В В 2 PRKD 998 -**PARKED** w Α 0100 MERZ 2008 3

Total Count: 3968 County: Monterey

Report Run On: 11/22/2021

Does not include State Frighway cases	11/22/2021
Primary Rd SAN JUAN ROAD Distance (ft) 0.00 Direction Secondary Rd SAN MIGUEL NCIC 9730 State Hwy? N Route Postmile Prefix Postmile City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 015160 Collision Date 20191024 Time 0630 Day THU Primary Collision Factor R-O-W AUTO Violation 21802A Collision Type BROADSIDE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20191028 Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With OTHER MV Lighting DUSK/DAWN Ped Action Cntrl Dev FNCTNG Loc Type Ramp/Int  Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip 15 PROC ST W A 0100 HOND 2010 - 3 N - M G  2 DRVR 31 M H HNBD PROC ST W A 0100 HOND 2010 - 3 N - M G	Ejected
Primary Rd SAN JUAN ROAD Distance (ft) 1848 Direction E Secondary Rd SAN MIGUEL CYN NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 020916 Collision Date 20190412 Time 2326 Day FRI Primary Collision Factor DRVR ALC DRG Violation 23152A Collision Type HIT OBJECT Severity FATAL #Killed 1 #Injured 1 Tow Away? Y Process Date 20190708 Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With FIXED OBJ Lighting DARK - NO Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int Party Info	
Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 21 M H HBD-UNK RAN OFF RD E D 2200 TOYO 2004 - 3 A 22107 - L H DRVR KILLED 21 M 1 1 L  PASS MINOR 23 - 3 0 L	Ejected H G
Primary Rd SAN JUAN ROAD Distance (ft) 60.0 Direction E Secondary Rd SUSAN STREET NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 020701 Collision Date 20190208 Time 1250 Day FRI Primary Collision Factor STRTNG BCKNG Violation 22106 Collision Type HIT OBJECT Severity PDO #Killed 0 #Injured 0 Tow Away? N Process Date 20190219 Weather1 CLOUDY Weather2 Rdwy Surface WET Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With FIXED OBJ Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int Party Info	9
Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 45 M H HNBD ENT TRAF E D 2200 FORD 2017 - 3 N - M G	Ejected
Primary Rd SAN JUAN ROAD Distance (ft) 650. Direction W Secondary Rd TARPEY ROAD NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 01886 Collision Date 20190509 Time 0620 Day THU Primary Collision Factor IMPROP TURN Violation 22107 Collision Type HIT OBJECT Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20190517 Weather1 CLOUDY Weather2 RAINING Rdwy Surface WET Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run MSDMNR Motor Vehicle Involved With FIXED OBJ Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int	
Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip  1F DRVR 998 - IMP UNK IMP UNK UNS TURN E A 0100 ACUR 1999 - 3 N - M B	Ejected
Primary Rd SAN JUAN ROAD Distance (ft) 0.00 Direction Secondary Rd TARPEY ROAD NC/C 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 020701 Collision Date 20191104 Time 1730 Day MON Primary Collision Factor R-O-W AUTO Violation 21802A Collision Type BROADSIDE Severity INJURY #Killed 0 #Injured 1 Tow Away? Y Process Date 20191114 Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With OTHER MV Lighting DARK - NO Ped Action Cntrl Dev FNCTNG Loc Type Ramp/Int	
Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip 1F DRVR 60 M W HNBD ENT TRAF N D 2200 CHEV 2016 - 3 N - L G 2 DRVR 64 F W HNBD PROC ST E A 0700 AMER 1991 - 3 N - P G DRVR MINOR 64 F 1 0 P	Ejected G

Total Count: 3045 County: Monterey

Report Run On: 11/22/2021

Toportium on	
Primary Rd SAN JUAN ROAD Distance (ft) 10.0 Direction W Secondary Rd SAN MARCOS NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy String Primary Collision Factor IMPROP TURN Violation 22107 Collision Type HIT OBJECT Severity PDO #Killed 0 #Injured 0 Tow Away? N Process Date 20200406 Weather 1 CLOUDY Weather 2 Rdwy Surface DRY Rdwy Cond NO UNUSL CND Rdwy Cond Spec Cond 0 Hit and Run MSDMNR Motor Vehicle Involved With FIXED OBJ Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int  Party Type Age Sex Race Sobriety 1 Sobriety Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip 1F DRVR 998 - IMP UNK IMP UNK UNS TURN W - 9900 3 N - B B	Ejected
Primary Rd SAN JUAN ROAD Distance (ft) 528. Direction E Secondary Rd SAN MIGUEL NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 015160 Collision Date 20200819 Time 0515 Day WED Primary Collision Factor WRONG SIDE Violation 21460C Collision Type SIDESWIPE Severity PDO #Killed 0 #Injured 0 Tow Away? N Process Date 20200831 Weather1 OTHER Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With OTHER MV Lighting DARK - NO Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int Party Info	
Party Info  Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip  1F DRVR 22 M H HNBD PASSING E A 0100 LEXS 2016 - 3 N - M G  2 DRVR 48 M H HNBD LFT TURN E F 2600 FRHT 2020 - 3 A 24252 - P G	Ejected
Primary Rd SAN JUAN ROAD Distance (ft) 5280 Direction W Secondary Rd SAN MIGUEL NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 022061 Collision Date 20200819 Time 0035 Day WED Primary Collision Factor DRVR ALC DRG Violation 23152A Collision Type HIT OBJECT Severity INJURY #Killed 0 #Injured 1 Tow Away? Y Process Date 20200831 Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With FIXED OBJ Lighting DARK - NO Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int Party Info	
Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 20 M H HBD-UI RAN OFF RD E A 0100 TOYO 2013 - 3 A 22107 - L H DRVR MINOR 20 M 1 0 L	Ejected H
Primary Rd SAN JUAN ROAD Distance (ft) 1584 Direction E Secondary Rd SUSAN STREET NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Primary Rd SAN JUAN ROAD Distance (ft) 1584 Direction Distance (ft) 1584 Direction Primary Rd SAN JUAN ROAD Distance (ft) 1584 Direction Distance (ft) 1584 Direction Primary Rd SAN JUAN ROAD Distance (ft) 1584 Direction Distance	10
Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 30 F H IMP UNK IMP UNK OTHER E A 0100 NISS 1994 - 3 N - B G DRVR KILLED 30 F 1 0 M  2 PRKD 998 - PARKED N - 3500 FOSTE 1958 - 3 N	Ejected G
Primary Rd SAN JUAN ROAD Distance (ft) 475. Direction E Secondary Rd SUSAN STREET NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 018886 Collision Date 20200801 Time 0635 Day SAT Primary Collision Factor UNSAFE SPEED Violation 22350 Collision Type SIDESWIPE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20200811 Weather1 CLOUDY Weather2 FOG Rdwy Surface WET Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int	11
Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip  1F DRVR 26 F H HNBD PROCST W A 0100 FORD 2008 - 3 N - L G 2 DRVR 69 M H HNBD LFT TURN E D 2200 CHEV 2003 - 3 N - M G	Ejected

Total Count: 2520 County: Monterey

Report Run On: 11/22/2021

Does not include state i lighway cases	11/22/2021
Primary Rd SAN JUAN RD  Distance (ft) 528. Direction E Secondary Rd SUMMERLAND RD NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy  City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 019127 Collision Date 20211030 Time 0655 Day SAT  Primary Collision Factor IMPROP TURN  Violation 22107 Collision Type HIT OBJECT Severity INJURY #Killed 0 #Injured 1 Tow Away? N Process Date 20211108  Weather1 CLOUDY Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0  Hit and Run Motor Vehicle Involved With FIXED OBJ Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int	
Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 42 F H HNBD RAN OFFRD E A 0700 CHEV 2007 - 3 N - M G DRVR POSSIBL 42 F 1 0 M	Ejected G
Primary Rd SAN JUAN RD Distance (ft) 200. Direction E Secondary Rd SUSAN ST NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 019981 Collision Date 20211021 Time 2005 Day THU Primary Collision Factor IMPROP TURN Violation 22107 Collision Type SIDESWIPE Severity INJURY #Killed 0 #Injured 1 Tow Away? N Process Date 20211101 Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With PKD MV Lighting DARK - ST Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int	12
Party Info  Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 88 M A HNBD PROC ST W A 0100 NISS 1997 - 3 N - L G DRVR MINOR 88 M 1 0 L  2 PRKD 998 - PARKED W A 0700 GMC 2012 N	Ejected G
Primary Rd SAN JUAN RD.  Distance (ft) 20.0 Direction W Secondary Rd ALLISON RD.  NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy  City UNINCORP.  County Monterey Population 9 Rpt Dist  Beat 075 Type 2 CalTrans  Badge 019328 Collision Date 20210416 Time 0710 Day FRI  Primary Collision Factor R-O-W AUTO  Violation 21802A Collision Type REAR END Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20210423  Weather1 CLEAR  Weather2  Rdwy Surface DRY  Rdwy Cond1  NO UNUSL CND Rdwy Cond2  Spec Cond 0  Hit and Run  Motor Vehicle Involved With OTHER MV  Lighting DAYLIGHT  Perty Info  Party Info  Party Info  NO UNIST CATA See Section 1 Secti	Finated
Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 27 M H HNBD LFT TURN N A 0100 HOND 2000 - 3 N - M G  2 DRVR 44 M H HNBD PROC ST W G 2731 PTRB 2012 - 3 N - M G	Ejected
Primary Rd SAN JUAN RD. Distance (ft) 0.00 Direction Secondary Rd ALLISON RD. NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 075 Type 2 CalTrans Badge 019328 Collision Date 20210506 Time 0737 Day THU Primary Collision Factor R-O-W AUTO Violation 21802A Collision Type BROADSIDE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20210512 Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int	
Party Info Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip 1F DRVR 17 M H HNBD LFT TURN N A 0700 TOYT 2005 - 3 N - L G 2 DRVR 68 M H HNBD PROC ST E D 2200 GMC 2016 - 3 N - M G	Ejected
Primary Rd SAN JUAN RD. Distance (ft) 3484 Direction E Secondary Rd ALLISON RD. NCIC 9730 State Hwy? N Route Postmile Prefix Postmile Side of Hwy City UNINCORP. County Monterey Population 9 Rpt Dist Beat 073 Type 2 CalTrans Badge 019328 Collision Date 20210611 Time 0557 Day FRI Primary Collision Factor UNSAFE SPEED Violation 22350 Collision Type REAR END Severity INJURY #Killed 0 #Injured 3 Tow Away? Y Process Date 20210617 Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0 Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int Party Info	
Party Type Age Sex Race Sobriety1 Sobriety2 Move Pre Dir SW Veh CHP Veh Make Year SP Info OAF1 Viol OAF2 Safety Equip ROLE Ext Of Inj AGE Sex Seat Pos Safety EQUIP  1F DRVR 36 M H HNBD FATG PROC ST W A 0100 HOND 2000 - 3 N - L G DRVR POSSIBL 36 M 1 0 L  2 DRVR 26 F H HNBD STOPPED W A 0100 TOYT 2015 - 3 N - M G DRVR POSSIBL 26 F 1 0 M  PASS POSSIBL 45 F 3 0 M	Ejected G G G

## MONTEREY COUNTY RESOURCE MANAGEMENT AGENCY

168 W. Alisal Street, 2<sup>nd</sup> Floor Salinas, CA 93901 http://www.co.monterey.ca.us/rma



#### **FACILITIES TRIP REDUCTION PLAN**

To be completed by applicant:

10 00 completed by	applicant.						
Name & Location	Project/Business Name: Susan St Farm Worker Employee Housing						
	Address: xxxx Susan St, Pajaro, CA	95076					
	Assessor Parcel Number(s): 117-36	1-016					
Applicant	Name:Rio Vista Group LLC						
	Address: PO Box 4500						
	City: Salinas	State: CA	Zip Code: 93912				
	Phone: 831.214.1970	FAX: ( )					
Property Owner	Name:Jeffrey Nohr						
or	Address:12 Thomas Owens Way, St	e. 200					
Authorized Agent	City:Monterey	State:CA	Zip Code:93940				
	Phone: (831) 917.5622	FAX: ( )					

Section 21.64.250 OF THE MONTEREY COUNTY ZONING ORDINANCE AND Section 20.64.250 OF THE COASTAL IMPLEMENTATION PLAN PROVIDES FOR REGULATIONS FOR THE REDUCTION OF VEHICLE TRIPS FOR RESIDENTIAL SUBDIVISIONS AND TOURIST-ORIENTED DEVELOPMENTS. How this is achieved depends on which vehicle trip reduction measures are selected by the applicant. From the following tables, select those vehicle trip reduction measures which you intend to utilize. Select any combination of measures that will result in a total reduction of 7 to 10 percent or more. Each measure selected is subject to approval by the Department of Public Works.

### THE FOLLOWING RESIDENTIAL VEHICLE TRIP REDUCTION MEASURES ARE INCLUDED, AND MADE A PART HEAROF, IN THE ABOVE REFERENCED RESIDENTIAL SUBDIVISION:

Check Boxes That Apply	Vehicle Trip Reduction Measure	Residential Permit/Subdivision Conditions	Red uce (%)	Total (%)
	Public information	Provide ridesharing, public transportation & nearby (within one mile) licensed child care facilities information to tenants/buyers as a part of move-in materials. A draft informational packet must be provided as part of the project's development approval process.	1%	

	Printed transit schedules	Print transit schedule information on all promotional materials for the project. Draft printed transit schedules shall be provided as part of the project's development approval process.	.5%	.5%
	Diavala	Bike lanes must be provided adjacent to the project, tie		
Ш	Bicycle			
	amenities	into a County-wide system & provide bicycle access to	10/	
		schools, shopping & employment centers.	1%	
$\boxtimes$	Other bicycle	Facilities or measures which go beyond those listed		
	amenities	above and which facilitate increased non-vehicular trips.	varies	1%
		Contact Public Works. Bike racks will be included.		
	Bus pull-outs	Provide bus pull-outs, convenient pedestrian access to		
		bus stops and other related amenities to encourage transit		
		usage for those portions of the development within one	1%	
		quarter mile of a bus stop. Contact Monterey-Salinas		
		Transit (831) 899-2558.		
$\boxtimes$	Transportation	Provide locked and secured transportation information		
	information	centers or kiosks with bus schedules and transit		
	centers	information as part of the common area of the	.5%	.5%
		development. Monterey-Salinas Transit shall maintain	.570	.5/0
		the transportation information; the developer shall		
		maintain the centers/kiosks. Contact Monterey-Salinas		
	D- 1 - 41	Transit.		
$\Box$	Pedestrian	Provide pedestrian facilities linking transit stops to	50/	
	facilities	common areas.	.5%	
Ц	Park & Ride	Provide park & ride facilities. Contact Public Works.	varies	
	Child care	Provide on-site child care facilities based on the capacity		
	facilities	of the center and marketing data on expected use.	varies	
		Contact Public Works.		
	Telecommuting	Provide facilities to encourage telecommuting. Contact	varies	
		Public Works.		
	Mixed uses	Provide mixed uses that reduce the length and number of		
_		vehicle trips. Project must consist of at least five acres		
		of high density housing within one quarter mile of		
		neighborhood commercial development and have	varies	
		convenient pedestrian access. (Note: Similar trip	\ \underset{unics}	
		reduction measures listed elsewhere cannot be counted		
		toward the required vehicle trip reduction). Contact		
		Public Works.		
	Tuomaitit 1			
Ш	Transit-oriented	Residential development with at least 35 percent of the		
	design	project in high density housing and clustered within one	50/	50/
		half mile of bus stops on a major arterial with convenient	5%	5%
	T	pedestrian access to transit and neighborhood shopping.		
Ш	Trip generation	Contact Public Works.	varies	
	fees			
$\boxtimes$	Shuttle bus	Contact Monterey Salinas Transit (831) 899-2558.	varies	
	service, bus	Seasonal use of property and busing of residents to	can be	
	pools, or		up to	30%
	improved	and from work and non-work activities (see project	30%	
	transit service	description) accounts for greater than the 10%		
		targeted trip reduction.		
1 1	Other	Other measures supported by documented data of trip		
ш				
Ш		reductions in other developments. Contact Public Works.	varies	

RESIDENTIAL TOTAL	
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## THE FOLLOWING TOURIST-ORIENTED VEHICLE TRIP REDUCTION MEASURES ARE INCLUDED, AND MADE A PART HEAROF, IN THE ABOVE REFERENCED TOURIST ORIENTED DEVELOPMENTS.

Check Boxes That Apply	Vehicle Trip Reduction Measure	Tourist-Oriented Development Permit Conditions	Red uce (%)	Total (%)
	Child care	Provide on-site child care facilities for children of		
	facilities	tourists. Contact Public Works.	varies	
	Transit scheduling information	Provide transit scheduling information for tourists.	.5%	
	Bicycle amenities	1. Proposed development/use adjacent to bicycle lanes. Contact Public Works.	varies up to 2%	
	Bus pull-outs	Provide bus pull-outs, pedestrian access and transit stops.	5%	
	Bus subsidy	Provide transit subsidy program for tourists that reduces the cost of a bus pass by 50% from standard rate.	1%	
	Transportation information centers	Provide locked and secured transportation information centers or kiosks with bus schedules and transit information. Monterey-Salinas Transit shall maintain the transportation; the developer shall maintain the centers/kiosks. Contact Monterey-Salinas Transit.	.5%	
	Pedestrian facilities	Provide pedestrian facilities linking transit stops to tourist facilities entrances, provided such pedestrian facilities do not exceed one-quarter mile.	.5%	
	Other pedestrian facilities	Pedestrian and bicycle system improvements beyond above related measures.  Contact Public Works.	varies	
	Other site amenities	Provide site amenities that reduce the need for vehicle trips based on documentation of trip reduction. Contact Public Works.	varies	
	Park & ride	Provide park & ride facilities. Contact Public Works.	varies	
	Transportation system management program	Provide a local transportation system management program to reduce on-site trips based on documentation of expected trip reduction.  Contact Public Works.	2%	
	Educational	Provide educational and marketing strategies to tourists		
	and Marketing	to reduce vehicle trips. Contact Public Works.	varies	
	On-site services	Provide on-site ATMs, restaurants, dry cleaners, grocery and other typically needed services to reduce travel.	1%	
	Park & ride, shuttles, marketing techniques for special events	Provide information to Public Works.	varies	

	Tourist- oriented vehicle use reduction		varies
	Other	Other measures supported by documented data of trip reductions in other developments. Contact Public Works.	varies
OURI	ST-ORIENTED D	EVELOPMENT TOTAL	

I/we declare under penalty of perjury that the informati Trip Reduction Plan, including any attachments include to the best of my/our knowledge.	on contained in this Facilities ed herewith, are true and correct
Signature of Applicant	10/14/21 Date
Signature of Property Owner or Authorized Agent	Date 10 /14 /21

