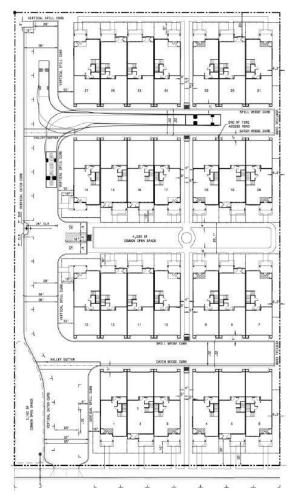
Appendix F

Traffic Impact Study

3544 Jamison Way Development Castro Valley, CA Transportation Impact Study



Draft Report

Prepared For:

Alameda County

March 2017

Prepared By:



3544 Jamison Way Development Castro Valley, CA

TRANSPORTATION IMPACT Study

DRAFT REPORT

Prepared For:
Alameda County



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March 2017

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Exhibit C - Existing Traffic Counts

EXECUTIVE SUMMARY

This report has been prepared to present the results of a Transportation Impact Study (TIS) performed by Wood Rodgers, Inc. for the proposed 3544 Jamison Way development project (Project) in Alameda County (County), California. This study has been performed to determine impacts the proposed Project may have on surrounding transportation facilities and potential mitigation measures that could be implemented to address significant impacts.

The proposed Project envisions redevelopment of an approximately 1.86-acre site located at 3544 Jamison Way in the unincorporated community of Castro Valley in Alameda County, California. The Project proposes to demolish the seven existing single-family dwelling unit homes and one duplex which currently occupy the site and construct 27 new townhomes in their place. The Project site is designated Residential Mixed Density (RMX) (29 dwelling units per acre) under the 2012 Castro Valley General Plan and is zoned Suburban Residence Density 15 (RS-D-15), or 1 unit per 1,500 gross square feet.

PROJECT GENERATED TRIPS

New trips generated by the proposed Project were estimated using rates from the *Institute of Transportation Engineers Trip Generation Manual*, 9th Edition. This TIS assumed trip reductions to the proposed Project generated trips due to displaced existing land uses (and their associated trips) as well as a 10 percent transit/bicycle/pedestrian reduction due to the Project's close proximity to the Castro Valley BART station and shopping centers. The proposed Project is anticipated to generate a total of 112 daily trips, 11 AM peak hour trips (2 inbound and 9 outbound), and 11 PM peak hour trips (8 inbound and 3 outbound) under typical "annual average" traffic demand conditions.

INTERSECTION OPERATIONS, IMPACTS, AND MITIGATION MEASURES

This TIS report analyzed five (5) "study" intersections under "Existing" and "Existing plus Project" AM, mid to late afternoon, and PM peak hour conditions. HCM 2000 based analysis was performed using Synchro 9 software. CA-MUTCD based peak hour signal warrant-3 (urban areas) was also checked at all unsignalized study intersections. Level of service standards and significance criteria used in this TIS were based on Castro Valley and Alameda County standards and criteria used by other nearby cities.

The all-way stop-controlled Somerset Avenue / Santa Maria Avenue intersection is currently operating and projected to operate at unacceptable "Existing" and "Existing plus Project" AM, mid to late afternoon, and PM peak hour LOS "F" conditions. The one-way stop-controlled Jamison Way / Redwood Road intersection is currently operating and projected to operate at unacceptable "Existing" and "Existing plus Project" mid to late afternoon and PM peak hour LOS "F" conditions. All of the remaining study intersections are currently operating and projected to operate at acceptable level of service during the AM, mid to late afternoon, and PM peak hours under "Existing" and "Existing plus Project" conditions.

Based on the significance criteria used in this TIS, the Project was found to have "less than significant" impacts on all five (5) study intersections under "Existing plus Project" AM, mid to late afternoon, and PM peak hour conditions.

ON-SITE PARKING

The proposed project would provide approximately 3.04 parking spaces per unit (two garages spaces and approximately 1.04 visitor spaces per unit) which meets the minimum of two (2) parking spaces (at least one covered) and one (1) visitor space per townhome unit required by the Alameda County

Townhome Design Guidelines. Two (2) of the visitor spaces provided would be disabled accessible parking stalls.

TRANSIT IMPACTS

Project site residents could walk or bike to bus stops for AC Transit Routes 32 and 48 and the Castro Valley BART station which are all located within 0.6 miles of the Project site. The increase in transit ridership caused by the proposed Project is not projected to be enough to significantly impact transit route delay or operations.

PEDESTRIAN IMPACTS

The Project would construct sidewalk along the north side of Jamison Way for the full length of the Project lot. Project site residents could access the CV Transit Bus Route 32 and 48 bus stops, Castro Valley BART station, nearby schools, and nearby shopping centers via the existing and proposed pedestrian facilities on Jamison Way, Santa Maria Avenue, Redwood Road, Somerset Avenue, Castro Valley Boulevard, etc. Outside of the Project site, there are no currently planned Pedestrian improvements for study area facilities.

BICYCLE IMPACTS

Project site residents could access the CV Transit Bus Route 32 and 48 bus stops and Castro Valley BART station via the existing class II bike lanes on Castro Valley Boulevard, Redwood Road, and Norbridge Avenue in the Project study area. According to the Castro Valley General Plan, class II bike lanes are proposed to be constructed on Somerset Avenue between Lake Chabot Road and Redwood Road, on Redwood Road between Castro Valley Boulevard and Seven Hills Road (filling in the current gap), and on Castro Valley Boulevard between Redwood Road and Crow Canyon Road (filling in the current gap). These class II bike lanes, once constructed, could be utilized by future Project residents for better bicycle access to nearby destinations and transit stops.

1. INTRODUCTION

This report has been prepared to present the results of a Transportation Impact Study (TIS) performed by Wood Rodgers, Inc. for the proposed 3544 Jamison Way Townhome development project (Project) in Alameda County (County), California. This study has been performed to determine impacts the proposed Project may have on surrounding transportation facilities and potential mitigation measures that could be implemented to address significant impacts. This introduction outlines project description, study area, analysis scenarios, analysis methods, significance criteria, and organization of the overall report.

1.1 PROJECT DESCRIPTION

The proposed Project envisions redevelopment of an approximately 1.86-acre site located at 3544 Jamison Way in the unincorporated community of Castro Valley in Alameda County, California. The Project site is generally located north of I-580, just west of Redwood Road and is generally bound by Jamison Way to the south, and other apartments, townhomes, and single family dwelling units to the north, east, and west. The Project site location is shown on the map in **Figure 1**.

The most recent preliminary Project site plan (by MacKay & Somps, February 26, 2016) is shown in **Figure 2**. The Project proposes to demolish the seven existing single-family dwelling unit homes and one duplex which currently occupy the site and construct 27 new townhomes in their place. The Project site is designated Residential Mixed Density (RMX) (29 dwelling units per acre) under the 2012 Castro Valley General Plan and is zoned Suburban Residence Density 15 (RS-D-15), or 1 unit per 1,500 gross square feet.

Based on the preliminary site plan, access to and from the Project site is planned to be provided via a new full access one-way stop-controlled driveway intersection that would extend north from Jamison way along the west edge of the Project site.

1.2 STUDY AREA

1.2.1 Intersections

Study intersections were selected for analysis based on engineering judgement and coordination with County Public Works Agency staff. The following five (5) existing and proposed study intersections were analyzed in this TIS and are shown on **Figure 1**:

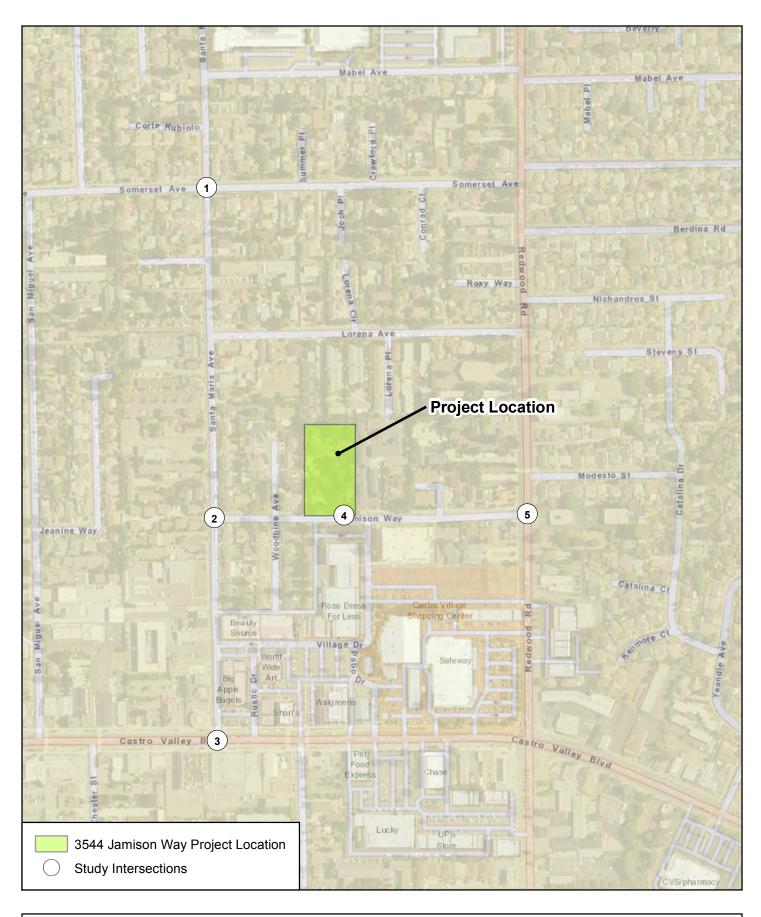
- 1. Somerset Avenue / Santa Maria Avenue
- 2. Jamison Way / Santa Maria Avenue
- 3. Castro Valley Boulevard / Santa Maria Avenue
- 4. Jamison Way / Project Access Driveway
- 5. Jamison Way / Redwood Road

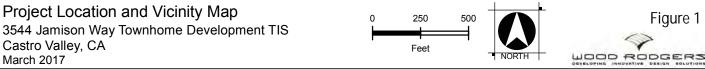
1.2.2 PEDESTRIAN, BICYCLE, AND TRANSIT FACILITIES

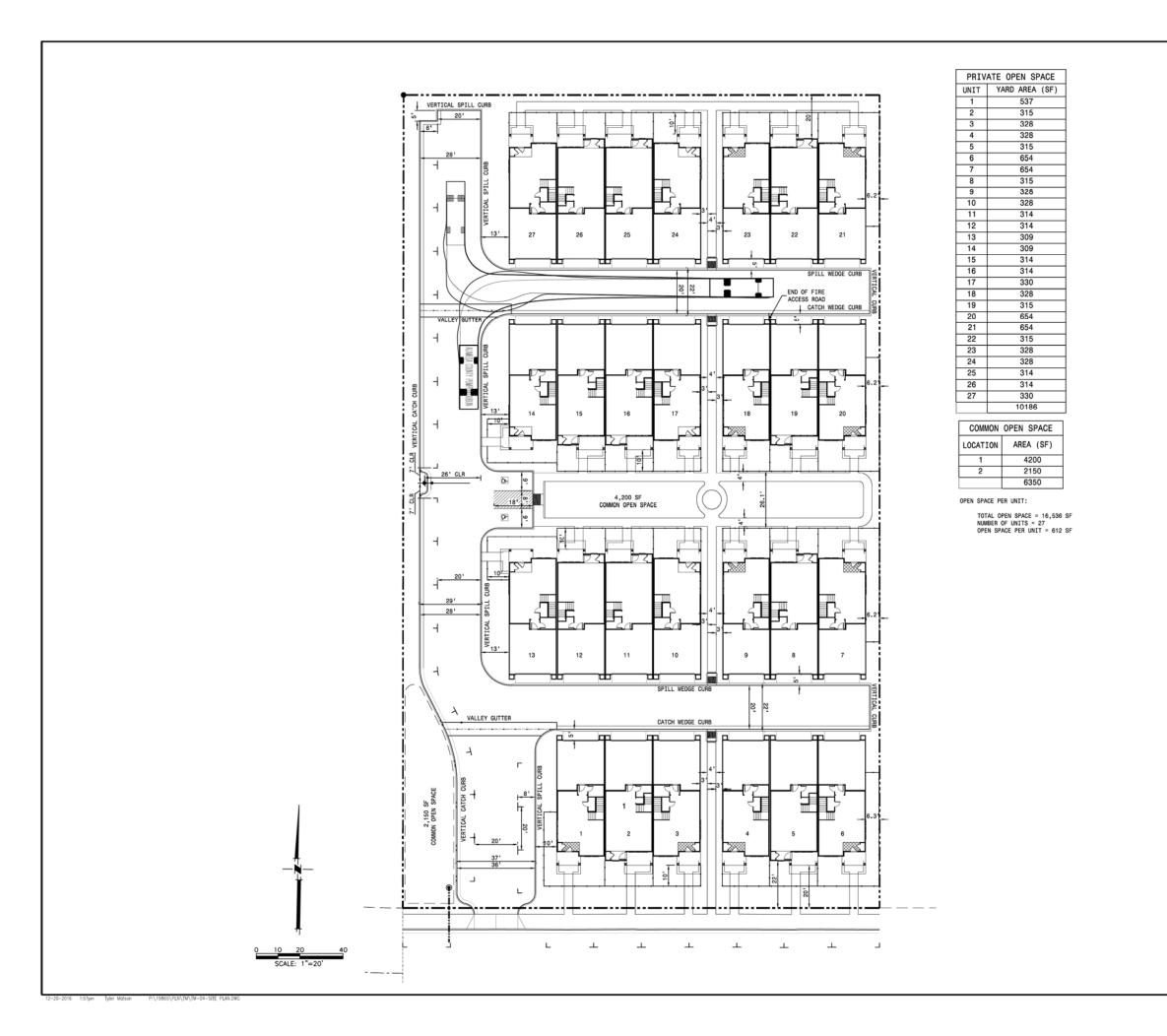
This TIS analyzes Project impacts on pedestrian, bicycle, and transit facilities located in the vicinity of the study area intersections listed above and which would be used to gain access to the Project site. This includes facilities on Jamison Way, Santa Maria Avenue, Somerset Avenue, Castro Valley Boulevard, and Redwood Road.

1.3 Analysis Scenarios

The five (5) study intersections were evaluated under AM peak hour (highest hour of traffic between 7 and 9 AM), mid to late afternoon peak hour (highest hour of traffic between 2 and 4 PM), and PM peak hour (highest hour of traffic between 4 and 6 PM) conditions for the following scenarios:







NO. CGO467

DESIGNED UNDER THE CONTROL OF THE CO

DATE: DEC SCALE: DRAWN BY: DESIGNED B

MACKAY & SOMPS

3544 JAMISON WAY
NG TENTATIVE TRACT MAP NO. 8380
SITE PLAN

PROJECT NO. 19865.000

FIGURE 2

2 | 4

- Existing Conditions: Existing traffic volumes from counts.
- Existing plus Project Conditions: Existing traffic volumes plus traffic projected to be generated by the proposed Project.

Mid to late afternoon peak hour traffic conditions were analyzed to determine intersection operations during peak traffic generated by the Castro Valley High School located just a few blocks north of the Project site.

1.4 ANALYSIS METHODS

Traffic operations in this TIS have been quantified through the determination of "Level of Service" (LOS). Level of Service is a qualitative measure of traffic operating conditions, whereby a letter grade "A" through "F" is assigned to an intersection or roadway segment, representing progressively worsening traffic operations. LOS "A" represents free-flow conditions with little to no delays, while LOS "F" represents jammed or grid-lock conditions.

1.4.1 Intersections

Intersection LOS has been calculated for all intersection control types using methods documented in the Transportation Research Board Publication *Highway Capacity Manual, Fourth Edition, 2000* (HCM-2000). For one-way-stop-controlled (OWSC) and two-way-stop-controlled (TWSC) intersections the "worst-case" movement delays and LOS are reported. For signalized and all-way-stop-controlled (AWSC) intersections the intersection delays and LOS reported are the "average" values for the whole intersection. The delay-based HCM-2000 LOS criteria for different types of intersection controls are outlined in **Table 1**.

Table 1. HCM-2000 Based Level-of-Service (LOS) Thresholds for Intersections

Level of				n Control Delay ds/vehicle)
Service	Flow Type	Operational Characteristics	Signal Control	Two-Way-Stop or All-Way Stop Control
"A"	Stable Flow	Free-flow conditions with negligible to minimal delays. Excellent progression with most vehicles arriving during the green phase and not having to stop at all. Nearly all drivers find freedom of operation.	<u><</u> 10	0 – 10
"B"	Stable Flow	Good progression with slight delays. Short cycle-lengths typical. Relatively more vehicles stop than under LOS "A". Vehicle platoons are formed. Drivers begin to feel somewhat restricted within groups of vehicles.	> 10 – 20	> 10 – 15
"C"	Stable Flow	Relatively higher delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear. The number of vehicles stopping is significant, although many still pass through without stopping. Most drivers feel somewhat restricted.	> 20 – 35	> 15 – 25
"D"	Approaching Unstable Flow	Somewhat congested conditions. Longer but tolerable delays may result from unfavorable progression, long cycle lengths, and/or high volume-to-capacity ratios. Many vehicles are stopped. Individual cycle failures may be noticeable. Drivers feel restricted during short periods due to temporary back-ups.	> 35 – 55	> 25 – 35
"E"	Unstable Flow	Congested conditions. Significant delays result from poor progression, long cycle lengths, and high volume-to-capacity ratios. Individual cycle failures occur frequently. There are typically long queues of vehicles waiting upstream of the intersection. Driver maneuverability is very restricted.	> 55 – 80	> 35 – 50
"F"	Forced Flow	Jammed or grid-lock type operating conditions. Generally considered to be unacceptable for most drivers. Zero or very poor progression, with over-saturation or high volume-to-capacity ratios. Several individual cycle failures occur. Queue spillovers from other locations restrict or prevent movement.	> 80	> 50
Source: HC	M-2000, Exhibits	s 16-2, 17-2 and 17-22.		

For this TIS, calculated "Peak Hour Factor" (PHF) and a 2% heavy vehicle composition have been specified for each intersection under "Existing" and "Existing plus Project" peak hour analysis. *Synchro 9* operations analysis software was used to complete the HCM-2000 LOS analysis procedures for study intersections.

1.5 Level of Service Standards and Impact Criteria

1.5.1 Intersection Level of Service Impact Criteria

1.5.1.1 Signalized Intersections

According to the Castro Valley General Plan, Circulation Chapter, Policy 6.2-1 (Alameda County Community Development Agency, March 2012), the community currently utilizes LOS "E" as the minimum acceptable LOS threshold for intersections that fall on a Congestion Management Program (CMP) Roadway. CMP roadways include: Castro Valley Boulevard, Center Street, Grove Way, Crow Canyon Road, and Redwood road. The community utilizes LOS "D" or better as the acceptable LOS threshold for all non-CMP roadway intersections during peak travel periods.

Based on LOS policy in the Castro Valley General Plan and criteria used by other cities within Alameda County, Project impacts at signalized intersections would be considered significant if one of the following criteria is met:

- 1. If the addition of project generated traffic to an intersection causes the AM, mid to late afternoon, or PM peak hour LOS of the intersection to degrade from an acceptable LOS ("E" or better for CMP intersections or "D" or better for non-CMP intersections) to an unacceptable LOS, then the impact is significant.
- 2. If an intersection operates at an unacceptable AM, mid to late afternoon, or PM peak hour LOS (LOS "F" for CMP intersections or LOS "E" or "F" for non-CMP intersections) without the addition of project generated traffic, and the addition of project generated traffic increases the average intersection control delay by four (4) seconds or more, then the impact is significant.

1.5.1.2 Unsignalized Intersections

There is no officially adopted significance criterion for unsignalized intersections within Castro Valley or Alameda County. Based on criteria used by TISs for similar nearby projects, significant impacts are defined to occur when the addition of Project generated traffic causes the average intersection delay for all-way stop controlled intersections, or worst movement delay for one or two-way stop controlled intersections, to degrade to unacceptable levels <u>and</u> the intersection satisfies the CA-MUTCD peak-hour volume signal warrant.

1.5.1.3 Signal Warrants

In order to determine whether traffic signals should be installed at currently unsignalized intersections, a supplemental *California Manual on Uniform Traffic Control Devices*, dated November 2014 (*CA-MUTCD*) based traffic signal warrant analysis was also completed. The term "signal warrants" refers to the list of established criteria used by Caltrans and other public agencies to quantitatively justify or ascertain the need for installation of a traffic signal at an unsignalized intersection location. The CA-MUTCD signal warrant criteria are based upon several factors including volume of vehicular and pedestrian traffic, location of school areas, frequency and type of collisions, etc. CA-MUTCD indicates that "the satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal." This TIS evaluated CA-MUTCD based Peak-Hour-Volume-based Warrant 3 (Urban Areas) as a representative type of warrant analysis.

1.6 REPORT ORGANIZATION

The remainder of this report is divided into the following chapters:

- Executive Summary
- Chapter 1: Introduction
- Chapter 2: Existing Conditions Describes existing conditions and operations of the study area intersections, roadways, transit system, pedestrian facilities, and bicycle facilities.
- Chapter 3: Existing Plus Project Conditions Describes the methods used to estimate and distribute Project generated traffic and the resulting study facilities operations.
- Chapter 4: Site Access and Circulation Describes site access and circulation for the Project site.
- Chapter 5: Potential Effects on Transit, Bicycle, and Pedestrian Facilities and Services Describes potential effects the proposed Project may have on the transit system, pedestrian facilities, and bicycle facilities.
- Chapter 6: Impacts and Mitigation Measures Describes the projected impacts the Project will have on study area facilities (if any) and presents potential mitigations.

2. EXISTING CONDITIONS

This chapter describes the existing roadway network, transit services, pedestrian facilities, and bicycle facilities within the study area. It also presents existing volumes at study intersections and roadways as well as calculated delays and LOS.

2.1 Existing Roadway Network

This section provides descriptions of the study area roadways.

Castro Valley Boulevard is a two to four lane arterial that runs east-west through the unincorporated community of Castro Valley. It begins as a four-lane arterial at the Foothill Boulevard / Mattox Road / Castro Valley Boulevard / I-238-I-580 Ramps intersection and continues east until reducing to a two lane arterial at Five Canyons Parkway. The road then crosses under I-580 and eventually terminates at Palo Verde Road where it becomes Dublin Canyon Road. The posted speed limit on Castro Valley Boulevard near the Project study area is 30 miles per hour. Two hour parking is allowed on both sides of Castro Valley Boulevard near the Project study area. Castro Valley Boulevard is defined as a CMP roadway under the Castro Valley General Plan Circulation Chapter.

Redwood Road is a two to six lane arterial that runs north-south through the community of Castro Valley. It begins as a six-lane arterial at the A Street / Redwood Road / Grove Way intersection in Castro Valley and runs north, until becoming a four lane arterial at the intersection with Castro Valley Boulevard. The four-lane arterial continues north until Seven Hills Road, where it drops to a two-lane arterial. The two-lane arterial continues north and west, through the Anthony Chabot Regional Park and the Redwood Regional Park, until reaching the east side of Oakland where it crosses over State Route 13 and becomes 35th Avenue. The posted speed limit on Redwood Road near the Project study area is 35 miles per hour. On-Street parking is allowed on some segments of Redwood Road north of Jamison Way in the Project study area. South of Jamison Way, on-street parking is not allowed on either side of the street. Redwood Road is defined as a CMP roadway under the Castro Valley General Plan Circulation Chapter.

Somerset Avenue is a two-lane collector that runs east-west through the community of Castro Valley. It begins at President Drive in the west and ends at Salem Road in the east. The posted speed limit on Somerset Avenue near the Project study area is 25 miles per hour. On-street parking is allowed on both sides of Somerset Road near the Project study area.

Santa Maria Avenue is a two lane local road / residential street that runs north-south in Castro Valley between Castro Valley Boulevard and Seven Hills Road. The posted speed limit on Santa Maria Avenue near the Project study area is 25 miles per hour. On-street parking is allowed on both sides of the street north of Jamison Way. South of Jamison Way, on-street parking is only allowed on some segments of the street.

Jamison Way is a two lane local road / residential street that runs east-west in Castro Valley between Santa Maria Avenue and Redwood Road. The posted speed limit on Jamison Way is 25 miles per hour. On-street parking is allowed on both sides of the road.

2.2 PEDESTRIAN FACILITIES

Castro Valley Boulevard and Redwood Road have pedestrian sidewalks on both sides of the road within the Project study area. Somerset Avenue, Santa Maria Avenue, and Jamison Way have pedestrian sidewalks for most of their length within the project study area, however, some sporadic segments have only asphalt sidewalks or no sidewalks. Currently, there is no existing sidewalk on the north side of Jamison Way fronting the proposed Project site/lot.

The signalized Castro Valley Boulevard / Santa Maria Avenue intersection has pedestrian crosswalks with push buttons on the north and east legs. The all-way-stop-controlled Somerset Avenue / Santa Maria Avenue intersection has pedestrian crosswalks on all four legs. The one-way-stop-controlled Jamison Way / Redwood Road intersection has a pedestrian crosswalk on the south leg. The remaining two study intersections do not have marked pedestrian crosswalks.

2.3 BICYCLE FACILITIES

The Castro Valley General Plan classifies the City's existing and proposed bike and trail network into the following three categories (based on Chapter 1000 of the Caltrans Highway Design Manual):

<u>Class I</u>: Provides a completely separated facility designed for the exclusive use of bicyclists and pedestrians with crossing points minimized.

<u>Class II</u>: Provides a restricted right-of-way designated lane for the exclusive or semi-exclusive use of bicycles with through travel by motor vehicles or pedestrians prohibited, but with vehicle parking and crossflows by pedestrians and motorists permitted.

<u>Class III</u>: Provides a right-of-way designated by signs or permanent markings and shared with pedestrians and motorists.

Class II bikeways currently exist on the following segments of the study facilities:

- Redwood Road between North 6th Street and Castro Valley Boulevard and between Seven Hills Road and Camino Alta Mira.
- Castro Valley Boulevard between San Miguel Avenue and Redwood Road and between Crow Canyon Road and Five Canyons Parkway.

For Somerset Avenue, Santa Maria Avenue, and Jamison Way it can be assumed that bicycles are allowed to share the roadway with vehicles.

2.4 Existing Transit Service

Transit services are provided by the Alameda-Contra Costa Transit District (AC District) and Bay Area Rapid Transit (BART) within Castro Valley and the Project study area. These agencies and the transit routes they provide within/nearby the project study area are described in this section.

Alameda-Contra Costa Transit District (AC District)

AC Transit operate eight (8) bus routes through Castro Valley, and four (4) additional routes that serve the surrounding area. AC Transit buses serve the Castro Valley BART station, downtown, nearby medical facilities, and recreation areas. Paratransit service is also provided for users with special needs. The following bus routes operate within the vicinity of the Project study area:

Bus Route 32 is a two-way loop that runs in Castro Valley, North Hayward, Cherryland, and Ashland. The route has major stops at the Hayward BART station, the Bay Fair BART station, and the Castro Valley BART station. It provides service every hour, in both directions, from 5:00 AM to 9:00 PM on weekdays and from 6:40 AM to 7:30 PM on weekends. Bus Route 32 has stops on either end of the block of Castro Valley Boulevard between Santa Maria Avenue and Redwood Road in the Project study area.

Bus Route 48 is a point-to-point route that runs between the Bay Fair BART station and the Hayward BART station with stops in Castro Valley along the way, including the Castro Valley BART station. It provides service every hour, in both directions, from approximately 6:45 AM to 9:45 PM on weekdays, and does not provide service on weekends. Bus Route 48 has stops on Redwood Road just south of Castro Valley Boulevard and on either end of the block of Somerset Avenue between Santa Maria Avenue and Redwood Road in Project study area.

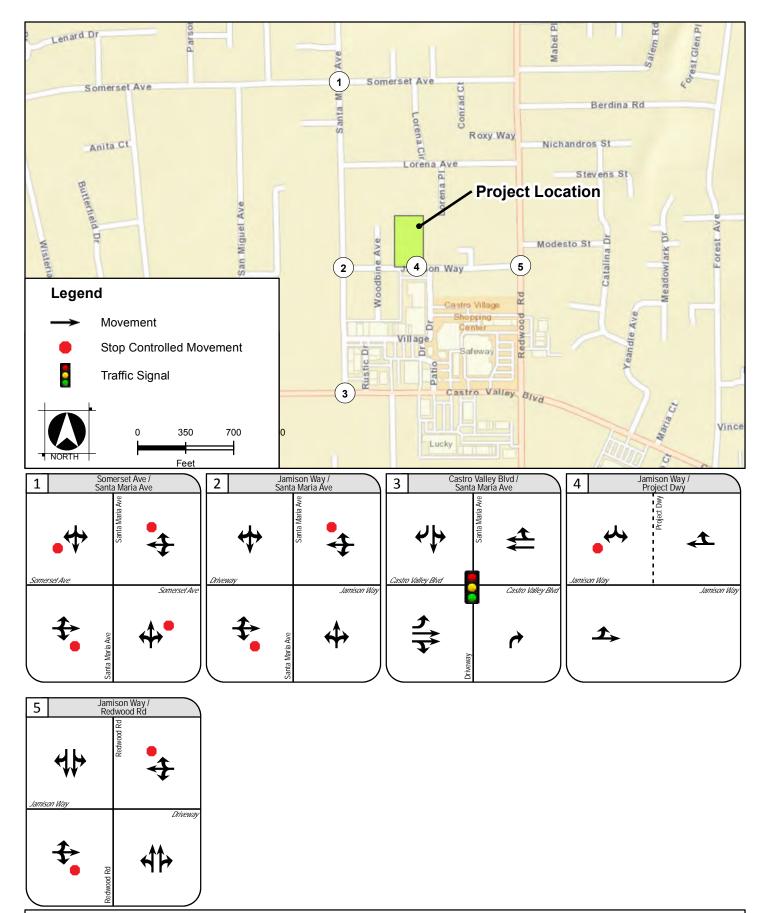
Bay Area Rapid Transit (BART)

BART provides a system of grade-separated, electric heavy rail trains that transport passengers throughout the Bay Area. The Castro Valley BART station, which is a stop of the Dublin-Pleasanton line, is located on the southwest corner of the Redwood Road / Norbridge Avenue intersection, about a 0.6 mile walk or bike ride from the Project site. The Dublin-Pleasanton line provides direct service to Oakland, San Francisco, and the San Francisco International Airport. Additionally, the Bay Fair station (located in San Leandro) can be used to transfer between the Dublin-Pleasanton and Fremont-Richmond lines and the Hayward station (located in Hayward) can be used to transfer between the Fremont-Richmond and Fremont-Daly City lines.

2.5 Existing Traffic Volumes and Intersection Lane Geometrics

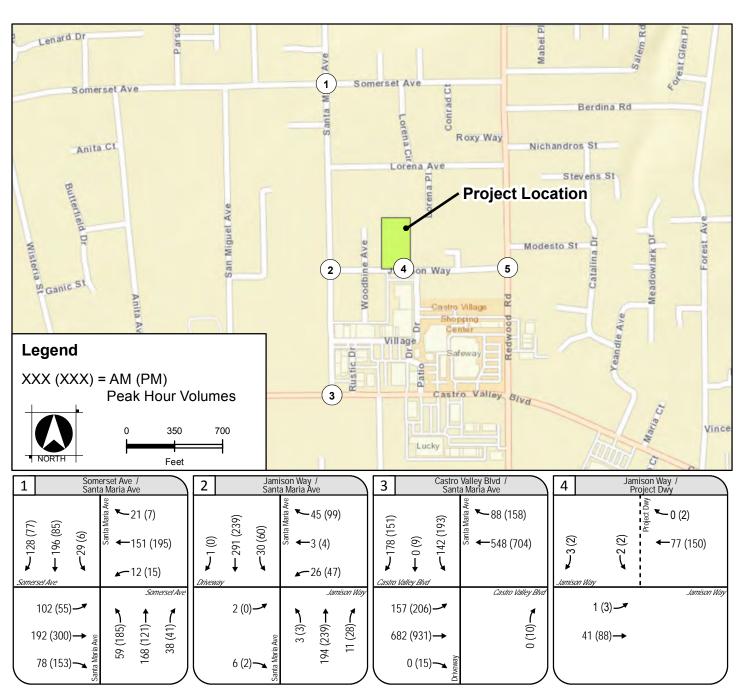
Project study intersection traffic operations were evaluated for the AM, mid to late afternoon, and PM peak hours. The AM peak hour is defined as the highest one hour of traffic flow counted between 7:00 AM and 9:00 AM on a typical weekday, the mid to late afternoon peak hour is defined as highest one hour of traffic flow counted between 2:00 PM and 4:00 PM on a typical weekday, and the PM peak hour is defined as the highest one hour of traffic flow counted between 4:00 PM and 6:00 PM on a typical weekday.

Wood Rodgers conducted new AM, mid to late afternoon, and PM peak hour vehicular, pedestrian, and bicycle traffic counts at all study intersections on Tuesday, December 6, 2016. **Figure 3** illustrates existing intersection lane geometrics and control and **Figure 4** illustrates "Existing" conditions traffic volumes.



Existing Lane Geometric and Control 3544 Jamison Way Townhome Development TIS Castro Valley, CA March 2017

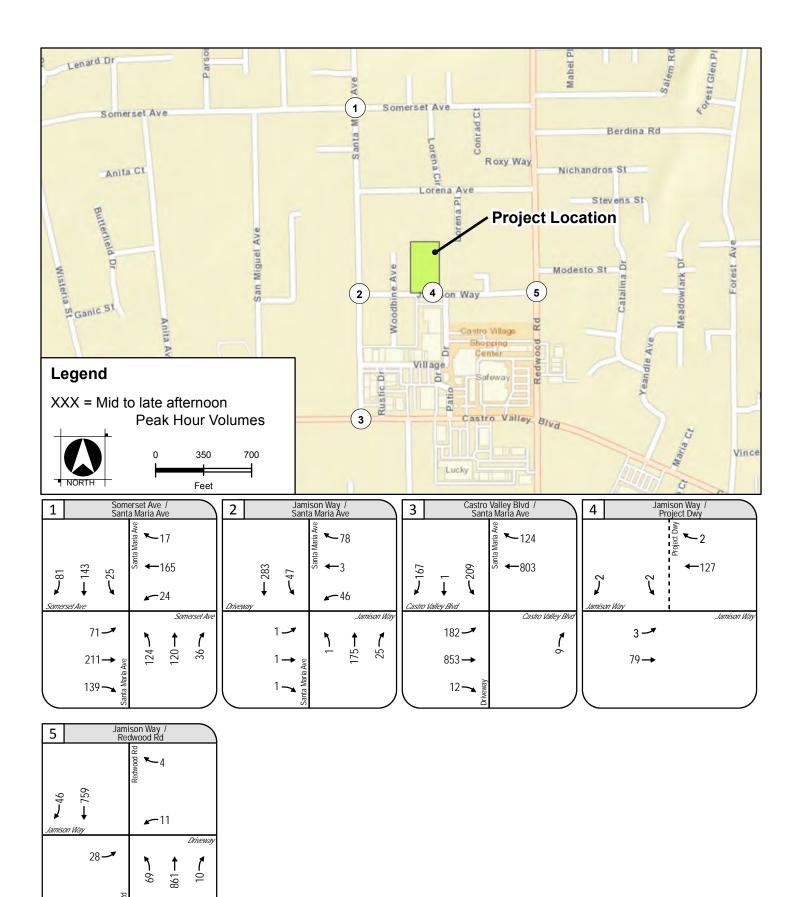




5	Jamison Way / Redwood Rd									
	(30)		Redwood Rd	0 (4)						
-31 (25)	- 901 (730)	-2 (0)		0 (1)						
≠	on Way	<u>, </u>	~	0 (8)						
	7 (20)—)	†	Driveway (2) 4					
	31 (61	Redwood Rd	46 (79)	730 (1016)	* *					

"Existing" Traffic Volumes 3544 Jamison Way Townhome Development TIS Castro Valley, CA March 2017





"Existing" Traffic Volumes 3544 Jamison Way Townhome Development TIS Castro Valley, CA

Castro Valley, CA March 2017



2.6 "EXISTING" INTERSECTION OPERATIONS

Table 2 presents existing study intersection traffic operations analysis under existing intersection geometrics and control (illustrated in **Figure 3**) and "Existing" intersection traffic volumes (illustrated in **Figure 4**).

Table 2. "Existing" Conditions Intersection Traffic Operation

		Control	LOS	Peak	Existi	ng Cond	litions
#	Intersection	Type	Criteria	Hour	Delay (S/V) ¹	V)1 LOS Me 1.3 F Y 1.4 F Y 1.9 C N 1.7 B N 1.4 C N 1.8	Wrnt Met? ²
				AM	84.3	F	Yes
1	Somerset Avenue / Santa Maria Avenue	AWSC	D	MD	108.5	F	No
				PM	77.4	F	Yes
				AM	16.9	С	No
2	2 Jamison Way / Santa Maria Avenue	owsc	D	MD	20.8	С	No
				PM	14.7	В	No
		Signal		AM	18.2	В	No
3	Castro Valley Boulevard / Santa Maria Avenue		E	MD	20.4	С	No
				PM	20.8	С	No
				AM	9.0	Α	No
4	Jamison Way / Project Access Driveway⁴	OWSC	D	MD	9.5	Α	No
				PM	9.5	Α	No
				AM	28.5	D	No
5	Jamison Way / Redwood Road	owsc	Е	MD	133.5	F	No
				PM	99.6	F	No

Notes: 1. For OWSC (One-Way-Stop-Control) and TWSC (Two-Way-Stop-Control) intersections, "worst-case" movement delay is indicated. "Average" control delays (in seconds/vehicle) are indicated for AWSC (All-Way-Stop-Control) and Signal-Control intersections.

2. Wrnt Met? = CA-MUTCD based Peak-hour-Volume Warrant #3 (Urban Areas)

As shown in **Table 2**, the all-way stop-controlled Somerset Avenue / Santa Maria Avenue intersection is currently operating at unacceptable LOS "F" conditions during the AM, mid to late afternoon, and PM peak hours. The one-way stop-controlled Jamison Way / Redwood Road intersection is currently operating at unacceptable LOS "F" conditions during the mid to late afternoon and PM peak hours. All of the remaining study intersections are currently operating at acceptable level of service conditions during the AM, mid to late afternoon, and PM peak hours. CA-MUTCD based peak hour signal warrant-3 (urban areas) is projected to be met at the all-way stop-controlled Somerset Avenue / Santa Maria Avenue intersection under "Existing" AM and PM peak hour conditions. Synchro software intersection LOS outputs are included in **Appendix Exhibit A**, and CA-MUTCD signal warrant-3 worksheets are included in **Appendix Exhibit B**.

The Somerset Avenue / Santa Maria Avenue and Jamison Way / Redwood Road intersections experience high queueing and delays during peak hours due to traffic from the nearby Castro Valley High School, Our Lady of Grace Catholic School, and other surrounding developments.

All recommended improvements and mitigation measures are discussed in a subsequent section of this TIS report.

^{3.} MD = Mid to late afternoon peak hour conditions.

^{4.} Project Access Driveway is considered the existing Project site driveway that serves the existing seven houses and one duplex under "Existing" conditions and the proposed Project site driveway that will serve the proposed 27 townhomes under "plus Project" conditions. **BOLD** indicates unacceptable level of service.

3. EXISTING PLUS PROJECT CONDITIONS

This chapter provides a description of the proposed Project, a discussion of the Project trip generation and distribution/assignment methods used to forecast Project-only volumes at study intersections, and analysis of traffic operations and impacts due to the proposed Project.

3.1 PROJECT SITE

3.1.1 PROJECT SITE DESCRIPTION

The proposed Project would demolish the seven (7) single family residential units and one (1) duplex that currently occupy the approximately 1.86 acre Project site and construct 27 townhome units in their place. The proposed site would consist of eight (8) new buildings, arranged in four (4) rows of two. Each building would contain three (3) to four (4) townhomes. The Project would provide 54 garage spaces (2 per unit) as well as 26 on-street spaces (assuming two of the 28 on street parking spaces shown on the current Project site plan are removed to accommodate 20 feet of red curb on both sides of the Project driveway) and two (2) disabled accessible parking stalls for guests (approximately 1.04 per unit). 20 of the on-street parking spaces would be provided along the west side of the proposed Project access driveway and the remaining six (6) on-street parking spaces would be provided along the north side of Jamison Way along the proposed Project site. Two disabled accessible parking stalls would be provided off of the east side of the proposed Project access driveway, near the middle of the development. Overall the proposed Project site would have 84 total spaces and an average of 3.04 spaces per unit.

The Project would gain access to the local road network via a single new Project access driveway / proposed internal road that would extend north from Jamison way along the entire length of the west side of the Project site. Two additional internal roads would be constructed perpendicular to the proposed project access driveway to give residents access to their garages. The Project would construct sidewalk along the north side of Jamison Way fronting the Project site.

3.2 Project Generated Trips

3.2.1 TRIP GENERATION

This TIS used *Institute of Transportation Engineers (ITE) Trip Generation Manual, 9th Edition* rates to estimate Project trip generation. The entire proposed development Project can essentially be characterized as the Residential Condominium/Townhouse land use. The following trip generation rates from the ITE were used to estimate Project generated trips:

Residential Condominium/Townhouse – For the proposed Project's 27 townhome units, the "Residential Condominium/Townhouse" (Use Code 230) trip generation rate was used. ITE Trip Generation describes Residential Condominium/Townhouse as: "... ownership units that have at least one other owned unit within the same building structure."

The Project's generated trips were reduced based on the estimated number of trips that will be eliminated from the network once the existing Project site land uses (seven single family residential units and one duplex) are displaced. Existing land use trip generation was estimated using the following trip generation rates from the ITE Trip Generation Manual, 9th Edition:

Single Family Detached Housing – For the existing Project site's seven single family residential units, the "Single Family Detached Housing" (Use Code 210) trip generation rate was used. ITE Trip Generation describes Single Family Detached Housing as: "...all single-family detached homes on individual lots."

Residential Condominium/Townhouse – For the existing Project site's one duplex (containing two units), the "Residential Condominium/Townhouse" (Use Code 230) trip generation rate was used (described above).

Due to the Project's close proximity to the Castro Valley BART station (located within a 0.6 mile walk of the Project site) and nearby shopping center (located on the southern side of Jamison Way), and input from County staff, a 10 percent transit/bicycle/pedestrian reduction of new Project generated vehicle trips was also assumed, based on coordination with County Staff. The Project does not propose any mixed-use or commercial land uses, therefore no internal matching of Project trips was assumed.

Table 3 summarizes the trip generation rates used for the proposed Project and existing land uses. **Table 4** summarizes the trip generation volumes for the proposed project.

Land Use Category	Source	ITE Code	Rate Unit	Trin I		day AM ır Rate/l		Weekday PM Peak Hour Rate/Unit		
		Code	Oilit	Rate/Unit ¹	Total	In%	Out%	Total	In%	Out%
Residential Condominium/Townhouse	ITE	230	DU ²	7.63	0.67	17%	83%	0.78	67%	33%
Single Family Detached Housing	ITE	210	DU	9.52	0.75	25%	75%	1.00	63%	37%

Notes: ¹Calculated and average trip rates were used in this analysis using the fitted curve equation, consistent with information contained in the ITE Publication Trip Generation (Ninth Edition)

 $^{2}DU = Dwelling\ Unit$

Table 4. Project Trip Generation Volumes

Land Use	Unito	Units Quantity			day AM our Trips		Weekday PM Peak Hour Trips		
	Ullits	Qualitity	Trips	Total	In	Out	Total	In	Out
Residential Condominium/Townhouse	DU ²	27	206	18	3	15	21	14	7
Existing Single Family Detached Housing Reduction	DU	-7	-67	-5	-1	-4	-7	-4	-3
Existing Residential Condominium/ Townhouse (Duplex) Reduction	DU	-2	-15	-1	0	-1	-2	-1	-1
New Trips		18	124	12	2	10	12	9	3
10% Transit/Bike/Walk Reduction		-2	-12	-1	0	-1	-1	-1	0
Net New Trips		16	112	11	2	9	11	8	3

Notes: 1 The trips illustrated in this table are based on ITE Trip Generation (9th Edition) calculated and average trip rates, using the fitted curve equations. 2 DU = Dwelling Unit

As illustrated in **Table 4**, the proposed Project is anticipated to generate a total of 112 daily trips, 11 AM peak hour trips (2 inbound and 9 outbound), and 11 PM peak hour trips (8 inbound and 3 outbound) under typical "annual average" traffic demand conditions. These trips would be considered "new" (or incremental) trips on the City's immediate local circulation system.

3.2.2 PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

Project trips were assigned to the study area network based on existing traffic volumes, observed travel patterns, daily travel pattern information contained in the Castro Valley General Plan, and routes to major freeways within the study area. **Figure 5** illustrates the estimated Project directional trip distribution and assignment patterns projected to be generally applicable for the Project under existing conditions, on an annualized average usage basis. **Figure 5** also illustrates the estimated AM, mid to late afternoon, and PM peak hour new "Project Only" traffic volumes projected to be applicable under existing conditions. Note that since the ITE Trip Generation Manual does not contain trip generation rates for the mid to late afternoon peak hour, the PM peak hour rates were conservatively used to estimate mid to late afternoon peak hour "Project Only" volumes as well. "Project Only" traffic volumes were also added on top of "Existing" conditions traffic volumes at study intersections, to estimate "Existing plus Project" conditions traffic volumes. **Figure 6** illustrates the estimated AM, mid to late afternoon, and PM peak hour "Existing plus Project" conditions traffic volumes at study intersections

3.3 "Existing Plus Project" Intersection Operations

"Existing plus Project" intersection operations were analyzed under the "Existing plus Project" traffic volumes (shown in **Figure 6**) and existing intersection lane geometrics and control (shown in **Figure 3**). illustrates the resulting "Existing plus Project" intersection LOS operations. also contains "Existing" conditions intersection delays and LOS for comparison purposes, as well as the projected change in intersection delay caused by the addition of Project generated trips. The projected change in intersection delay was reported for use in identifying significant impacts at signalized intersections.

		Control	LOS	Peak	Existi	ng Con	ditions	Existir	ng plus l	Project Co	nditions
1 2 3 4 1	Intersection	Type	Criteria	Hour	Delay (S/V) ¹	LOS	Wrnt Met? ²	Delay (S/V) ¹	LOS	Wrnt Met? ²	Change in Delay
				AM	84.3	F	Yes	85.4	F	Yes	1.1
1	Somerset Avenue / Santa Maria Avenue	AWSC	D	MD ³	108.5	F	No	111.2	F	No	2.7
				PM	77.4	F	Yes	78.3	F	Yes	0.9
				AM	16.9	O	No	17.5	O	No	0.6
2	2 Jamison Way / Santa Maria Avenue	owsc	D	MD	20.8	O	No	21.2	O	No	0.4
				PM	14.7	В	No	14.9	С	No	0.2
		Signal	Ш	AM	18.2	В	No	18.2	В	No	0.0
3	Castro Valley Boulevard / Santa Maria Avenue			MD	20.4	O	No	20.5	O	No	0.1
				PM	20.8	O	No	20.8	O	No	0.0
				AM	9.0	Α	No	9.1	Α	No	0.1
4	Jamison Way / Project Access Driveway⁴	owsc	D	MD	9.5	Α	No	9.6	Α	No	0.1
	7 tooose 2e.iiay			PM	9.5	Α	No	9.6	Α	No	0.1
				AM	28.5	D	No	27.8	D	No	-0.7
5	Jamison Way / Redwood Road	1 ()//.5(. 1	Е	MD	133.5	F	No	137.3	F	No	3.8
				PM	99.6	F	No	102.0	F	No	2.4

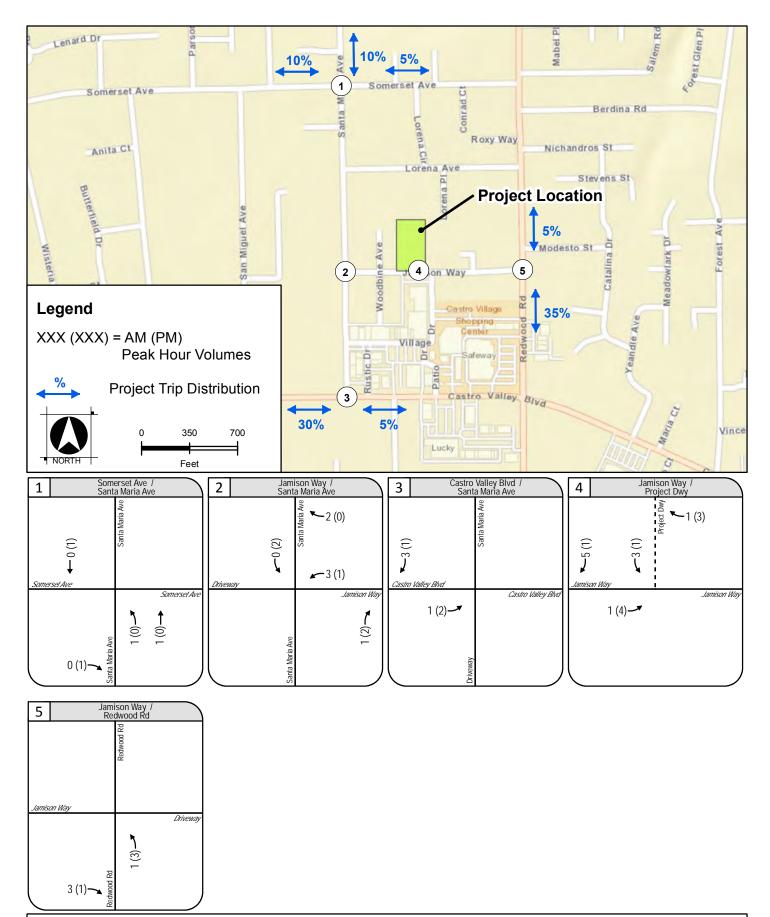
Notes: 1. For OWSC (One-Way-Stop-Control) and TWSC (Two-Way-Stop-Control) intersections, "worst-case" movement delay is indicated. "Average" control delays (in seconds/vehicle) are indicated for AWSC (All-Way-Stop-Control) and Signal-Control intersections.

^{2.} Wrnt Met? = CA-MUTCD based Peak-hour-Volume Warrant #3 (Urban Areas)

^{3.} MD = Mid to late afternoon peak hour conditions.

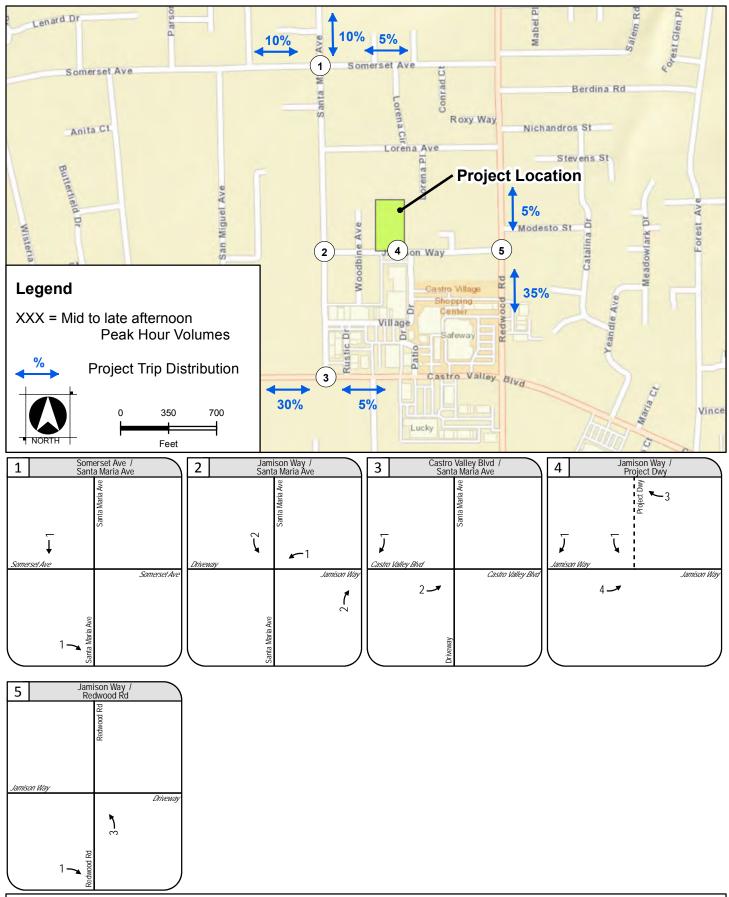
^{4.} Project Access Driveway is considered the existing Project site driveway that serves the existing seven houses and one duplex under "Existing" conditions and the proposed Project site driveway that will serve the proposed 27 townhomes under "plus Project" conditions.

BOLD indicates unacceptable level of service.



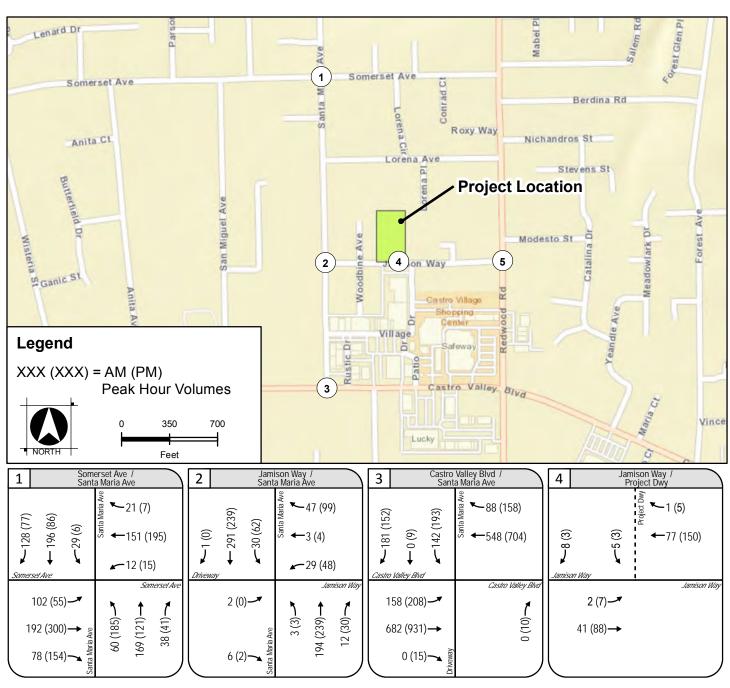
Project Trip Distribution and "Project Only" Traffic Volumes 3544 Jamison Way Townhome Development TIS Castro Valley, CA March 2017

Figure 5A



Project Trip Distribution and "Project Only" Traffic Volumes 3544 Jamison Way Townhome Development TIS Castro Valley, CA March 2017

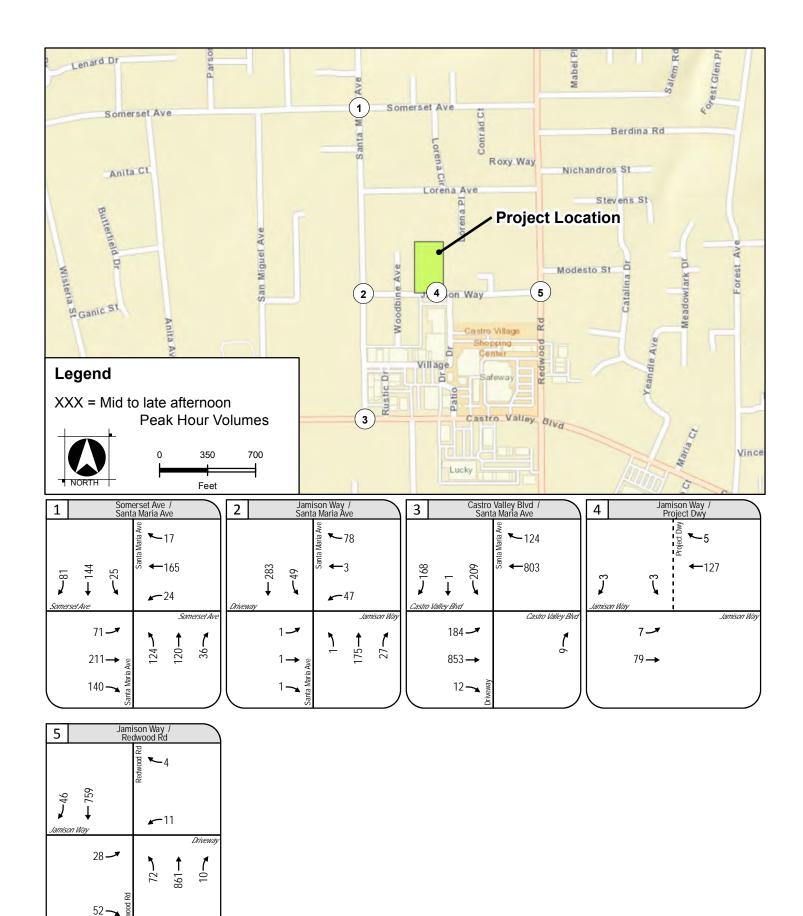
Figure 5B



5		Jamison Way / Redwood Rd									
	30)		Redwood Rd	~	0 (4)						
-31 (25)	- 901 (730)	- 2 (0)	æ	←	0 (1)						
🗸	↓ on Way	•		~	0 (8)						
	7 (20)—*		٦	†	Driveway					
		70		47 (82) —	730 (1016)—	4 (5)-					
	34 (62	Redwood Rd		4	730 (,					

"Existing plus Project" Traffic Volumes 3544 Jamison Way Townhome Development TIS Castro Valley, CA March 2017





"Existing plus Project" Traffic Volumes 3544 Jamison Way Townhome Development TIS Castro Valley, CA March 2017



As shown in , the all-way stop-controlled Somerset Avenue / Santa Maria Avenue intersection is projected to continue to operate at unacceptable LOS "F" conditions during the AM, mid to late afternoon, and PM peak hours. The one-way stop-controlled Jamison Way / Redwood Road intersection is projected to operate at unacceptable LOS "F" conditions during the mid to late afternoon and PM peak hours. All of the remaining study intersections are projected to operate at acceptable level of service during the AM, mid to late afternoon, and PM peak hours under "Existing plus Project" conditions. CA-MUTCD based peak hour signal warrant-3 (urban areas) is projected to continue to be met at the all-way stop-controlled Somerset Avenue / Santa Maria Avenue intersection under "Existing plus Project" AM and PM peak hour conditions. Synchro software intersection LOS outputs are included in **Appendix Exhibit A**, and CA-MUTCD signal warrant-3 worksheets are included in **Appendix Exhibit B**.

All recommended improvements and mitigation measures are discussed in a subsequent section of this TIS report.

4. SITE ACCESS AND CIRCULATION

This chapter reviews the proposed Project site plan, including discussion of site access roadways, internal queuing, internal circulation, pedestrian and bicycle facilities, and on-site parking.

4.1 Project Access Driveway

The proposed Project would gain access to the nearby roadway network via one (1) new Project access driveway/roadway. The new Project driveway is proposed to be a full-access intersection that would extend north from Jamison Way and run along the entire west side of the Project site. The Project roadway intersection would be single lane in, single lane out, and egress stop-controlled, with Jamison Way traffic having the right-of-way.

Since the proposed project driveway would intersect Jamison Way at a 90-degree angle, based on common practice, consistency with other driveways within project area, and California Manual on Uniform Traffic Control Devices Figure 3B-21 (CA) Example of Parking Space Markings, 20-foot red curb No Parking Zones along the north side of Jamison Way may be required on both sides of the project driveway.

4.1.1 INTERNAL QUEUEING AT PROJECT ACCESS DRIVEWAY

The proposed Project driveway at Jamison Way has a throat depth of approximately 100 feet, which means it can accommodate up to approximately four (4) queued egress (southbound) vehicles without impacting traffic on the proposed southern internal street. Based on HCM-2000 Synchro analysis performed for the Project access driveway intersection, it is projected that the Project access driveway would have a worst-case "Existing plus Project" peak hour egress (southbound) queue of approximately 25 feet (or one vehicle), which is 75 feet less than the available storage. The Project access driveway throat depth is projected to be adequate.

4.2 INTERNAL CIRCULATION

All roadways within the Project site plan will allow two-way traffic and all internal intersection will be uncontrolled (yield-controlled). Traffic volumes on proposed internal Project site roadways are not projected to be large enough to require other traffic control improvements. Therefore, no other internal street intersection improvements are recommended.

4.3 Pedestrian and Bicycle Access and Circulation

Due to the small nature of the proposed site, no dedicated bicycle facilities are proposed. Bicyclists can share the proposed on-site roadways with vehicles to navigate the Project site and access Jamison Way and the nearby existing bicycle facilities. The Project site proposes pedestrian walkways running north/south between the proposed town home buildings. Pedestrians on site would be able to use these proposed walkways to access Jamison Way, nearby existing and proposed pedestrian facilities, and any of the town home buildings.

4.4 ON-SITE PARKING

The proposed Project site will provide approximately 54 garage spaces (2 per unit) as well as 26 on-street parking spaces (assuming two of the 28 on street parking spaces shown on the current Project site plan may be removed to accommodate 20 feet of red curb on both sides of the Project driveway) and 2 disabled accessible parking stalls for visitors (approximately 1.04 per unit). The on-street parking spaces will consist of 20 parallel parking spaces striped on the west side of the proposed Project access driveway and six (6) parallel parking spaces striped on the north side of Jamison Way fronting the Project site. The proposed site will provide a total of 82 parking spaces for an average of 3.04 parking spaces per unit. No on-street parking will be allowed on the two other internal streets which will run perpendicular to the Project access driveway.

According to the Alameda County Design Guidelines for Townhomes and Small-Lot Single Family Homes on Narrow Lots (prepared for Alameda County Community Development Agency by Dyett & Bhatia Urban and Regional Planners and Kahn Mortimer Associates, March 23, 2009) newly constructed townhomes are required to provide a minimum of two parking spaces per unit (one of which must be covered) and a minimum of one guest parking space per unit for units that are greater than 1,000 square feet. Therefore, the proposed Project site is projected to meet the City's parking requirements by providing two (2) covered parking spaces and 1.04 guest spaces per unit.

5. POTENTIAL EFFECTS ON TRANSIT, BICYCLE, AND PEDESTRIAN FACILITIES AND SERVICES

This section discusses projected Project impacts on study area transit, bicycle, and pedestrian facilities.

5.1 Transit Impacts

Project site residents could walk or bike to bus stops for AC Transit Routes 32 and 48 which are located along Somerset Avenue, Castro Valley Boulevard, and Redwood Road within a half mile walk of the Project site. The Castro Valley BART station is also located approximately 0.6 miles south of the Project site, within reasonable walking or bicycling distance.

The increase in transit ridership caused by the proposed Project is not projected to be enough to significantly impact transit route delay or operations.

5.2 Pedestrian Impacts

There is currently no sidewalk along the north side of Jamison Way fronting the Project site. The Project site plan proposes to construct sidewalk along the north side of Jamison Way for the full length of the lot. This new sidewalk would connect to the existing adjacent sidewalk to the east. Project site residents could access the CV Transit Bus Route 32 and 48 bus stops located on Somerset Avenue, Castro Valley Boulevard, and Redwood Road on foot via the mostly continuous existing

and proposed sidewalks provided on Jamison Way, Santa Maria Avenue, Redwood Road, Somerset Avenue, and Castro Valley Boulevard, as well as the pedestrian crosswalks with push buttons located at the Castro Valley Boulevard intersections with Santa Maria Avenue, Wilbeam Avenue, and Redwood Road. Project site residents could use those same pedestrian facilities as well as the continuous sidewalks provided on Wilbeam Avenue and Norbridge Avenue to reach the Castro Valley BART station as well. Existing sidewalks on Santa Maria Avenue and Redwood Road could also be used by residents to access the nearby Castro Valley High School to the north, while existing sidewalks on Santa Maria Avenue, Somerset Avenue, Castro Valley Boulevard, and San Miguel Avenue could also be used by residents to access the nearby Castro Valley Elementary School to the west. A large shopping center just south of the Project site which includes a Safeway could be easily accessed by residents on foot as well.

Outside of the Project site, there are no currently planned Pedestrian improvements for study area facilities.

5.3 BICYCLE IMPACTS

Project site residents could access the CV Transit Bus Route 32 and 48 bus stops located on Somerset Avenue, Castro Valley Boulevard, and Redwood Road and/or the Castro Valley BART station via bicycle using the existing class II bike lanes on Castro Valley Boulevard, Redwood Road, and Norbridge Avenue in the Project study area.

According to the Castro Valley General Plan, class II bike lanes are proposed to be constructed on Somerset Avenue between Lake Chabot Road and Redwood Road, on Redwood Road between Castro Valley Boulevard and Seven Hills Road (filling in the current gap), and on Castro Valley Boulevard between Redwood Road and Crow Canyon Road (filling in the current gap). These class II bike lanes, once constructed, could be utilized by future Project residents for better bicycle access to nearby destinations and transit stops.

6. IMPACTS AND MITIGATION MEASURES

This chapter of the TIS evaluates the study intersection operations results presented in ("Existing plus Project" conditions) against the LOS impact criteria summarized in Section 1.5 of this report.

6.1 "EXISTING PLUS PROJECT" IMPACTS AND MITIGATION MEASURES

The following intersections were projected to operate at unacceptable LOS conditions under "Existing plus Project" AM, mid to late afternoon, and/or PM peak hour conditions as illustrated in .

Intersection #1 – Somerset Avenue / Santa Maria Avenue

The all-way stop-controlled Somerset Avenue / Santa Maria Avenue intersection is projected to operate at unacceptable "Existing" and "Existing plus Project" AM, mid to late afternoon, and PM peak hour LOS "F" conditions. The CA-MUTCD based peak hour signal warrant-3 (urban areas) is currently and projected to be met at this intersection under "Existing" and "Existing plus Project" AM and PM peak hour conditions. Since the intersection was already operating at unacceptable conditions before the addition of Project generated trips, based on the intersection traffic impact criteria defined in Section 1.5 of this report, Project impact at the Somerset Avenue / Santa Maria Avenue intersection is projected to be "less than significant".

Intersection #5 – Jamison Way / Redwood Road

The one-way stop-controlled Jamison Way / Redwood Road intersection is projected to operate at unacceptable "Existing" and "Existing plus Project" mid to late afternoon and PM peak hour LOS "F" conditions. The CA-MUTCD based peak hour signal warrant-3 (urban areas) is not currently and not projected to be met at this intersection under "Existing" or "Existing plus Project" peak hour conditions. Since the intersection was already operating at unacceptable conditions before the addition of Project generated trips and the CA-MUTCD based peak hour signal warrant-3 is not met, based on the intersection traffic impact criteria defined in Section 1.5 of this report, Project impact at the Jamison Way / Redwood Road intersection is projected to be "less than significant".

All of the remaining study intersections are currently operating and projected to operate at acceptable level of service during the AM, mid to late afternoon, and PM peak hours under "Existing" and "Existing plus Project" conditions. Therefore, Project impacts at the remaining study intersections are projected to be "less than significant".

Appendix Exhibit A Intersection Level of Service Outputs

	۶	→	•	•	•	•	4	†	/	/	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			₽			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	102	192	78	12	151	21	59	168	38	29	196	128
Future Volume (vph)	102	192	78	12	151	21	59	168	38	29	196	128
Peak Hour Factor	0.85	0.85	0.85	0.88	0.88	0.88	0.78	0.78	0.78	0.72	0.72	0.72
Hourly flow rate (vph)	120	226	92	14	172	24	76	215	49	40	272	178
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	438	210	340	490								
Volume Left (vph)	120	14	76	40								
Volume Right (vph)	92	24	49	178								
Hadj (s)	-0.04	-0.02	-0.01	-0.17								
Departure Headway (s)	7.8	8.8	8.2	7.7								
Degree Utilization, x	0.95	0.52	0.77	1.05								
Capacity (veh/h)	438	381	425	451								
Control Delay (s)	59.1	20.9	34.1	84.3								
Approach Delay (s)	59.1	20.9	34.1	84.3								
Approach LOS	F	С	D	F								
Intersection Summary												
Delay			56.3									
Level of Service			F									
Intersection Capacity Utilizat	tion		70.8%	IC	U Level o	of Service			С			
Analysis Period (min)			15									

	۶	→	•	•	←	4	1	†	<i>></i>	/	↓	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	2	0	6	26	3	45	3	194	11	30	291	1
Future Volume (Veh/h)	2	0	6	26	3	45	3	194	11	30	291	1
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.40	0.40	0.40	0.77	0.77	0.77	0.66	0.66	0.66	0.73	0.73	0.73
Hourly flow rate (vph)	5	0	15	34	4	58	5	294	17	41	399	1
Pedestrians		18			40			6			1	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		2			4			1			0	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)								917				
pX, platoon unblocked												
vC, conflicting volume	873	860	424	855	852	344	418			351		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	873	860	424	855	852	344	418			351		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	98	100	98	86	99	91	100			96		
cM capacity (veh/h)	223	266	616	241	269	672	1121			1162		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	20	96	316	441								
Volume Left	5	34	5	41								
Volume Right	15	58	17	1								
cSH	428	397	1121	1162								
Volume to Capacity	0.05	0.24	0.00	0.04								
Queue Length 95th (ft)	4	23	0	3								
Control Delay (s)	13.8	16.9	0.2	1.1								
Lane LOS	В	С	Α	А								
Approach Delay (s)	13.8	16.9	0.2	1.1								
Approach LOS	В	С	0.2									
Intersection Summary												
Average Delay			2.8									
Intersection Capacity Utiliza	tion		46.8%	IC	:Ulevel	of Service			А			
Analysis Period (min)			15	IC.	O LOVOI (J. JOI VICE						
raidiyələ i Gilou (IIIII)			10									

	•	→	•	•	←	•	•	†	/	/	+	-√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	∱ ∱			ተኈ				7		र्स	7
Traffic Volume (vph)	157	682	0	0	548	88	0	0	0	142	0	178
Future Volume (vph)	157	682	0	0	548	88	0	0	0	142	0	178
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	4.0			4.0						4.0	4.5
Lane Util. Factor	1.00	0.95			0.95						1.00	1.00
Frpb, ped/bikes	1.00	1.00			0.99						1.00	1.00
Flpb, ped/bikes	1.00	1.00			1.00						1.00	1.00
Frt	1.00	1.00			0.98						1.00	0.85
Flt Protected	0.95	1.00			1.00						0.95	1.00
Satd. Flow (prot)	1770	3539			3437						1770	1583
Flt Permitted	0.95	1.00			1.00						0.95	1.00
Satd. Flow (perm)	1770	3539	0.75	0.07	3437	0.07	0.00	2.00	0.00	0.00	1770	1583
Peak-hour factor, PHF	0.75	0.75	0.75	0.87	0.87	0.87	0.92	0.92	0.92	0.83	0.83	0.83
Adj. Flow (vph)	209	909	0	0	630	101	0	0	0	171	0	214
RTOR Reduction (vph)	0	0	0	0	15	0	0	0	0	0	0	173
Lane Group Flow (vph)	209	909	0	0	716	0	0	0	0	0	171	41
Confl. Peds. (#/hr)	20		44 1	44		20			17	17		
Confl. Bikes (#/hr)	D 1	NI A	I		N 1 A	1_				0 111	N.1.0	
Turn Type	Prot	NA			NA				Perm	Split		custom
Protected Phases	7	4			8				,	6	6	7
Permitted Phases	12.0	40.4			22.0				6		22.5	7
Actuated Green, G (s)	13.9	40.4 40.4			22.0 22.0						23.5 23.5	13.9
Effective Green, g (s)	13.9 0.19	0.56			0.31						0.33	13.9 0.19
Actuated g/C Ratio Clearance Time (s)	4.5	4.0			4.0						4.0	4.5
Vehicle Extension (s)	3.0	3.0			3.0						3.0	3.0
	342	1988			1051						578	306
Lane Grp Cap (vph) v/s Ratio Prot	c0.12	0.26			c0.21						c0.10	300
v/s Ratio Prot v/s Ratio Perm	CU. 12	0.20			CU.2 I						CO. 10	0.03
v/c Ratio	0.61	0.46			0.68						0.30	0.03
Uniform Delay, d1	26.5	9.3			21.9						18.0	24.0
Progression Factor	1.00	1.00			1.00						1.00	1.00
Incremental Delay, d2	3.2	0.2			1.8						1.3	0.2
Delay (s)	29.7	9.5			23.7						19.3	24.2
Level of Service	C C	Α			C C						17.3	Z 7.2
Approach Delay (s)	O	13.2			23.7			0.0			22.1	O
Approach LOS		В			C			A			C	
Intersection Summary								, ,				
HCM 2000 Control Delay			18.2	Ш	CM 2000	Level of S	Sorvico		В			
HCM 2000 Control Delay HCM 2000 Volume to Capacity ratio			0.51	П	CIVI 2000	LEVEL OF	JCI VICE		Б			
Actuated Cycle Length (s)	icity ratio		71.9	Cı	um of lost	time (c)			12.5			
Intersection Capacity Utilization			51.2%			of Service			12.5 A			
Analysis Period (min)	auOH		15	10	O LEVEL	J. JEI VICE			٨			
Analysis Fellou (IIIIII)			10									

c Critical Lane Group

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Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		4	ĵ.		*/*		
Traffic Volume (veh/h)	1	41	77	0	2	3	
Future Volume (Veh/h)	1	41	77	0	2	3	
Sign Control		Free	Free		Stop		
Grade		0%	0%		0%		
Peak Hour Factor	0.77	0.77	0.77	0.77	0.77	0.77	
Hourly flow rate (vph)	1	53	100	0	3	4	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type		None	None				
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	100				155	100	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	100				155	100	
tC, single (s)	4.1				6.4	6.2	
tC, 2 stage (s)							
tF (s)	2.2				3.5	3.3	
p0 queue free %	100				100	100	
cM capacity (veh/h)	1493				836	956	
	EB 1	WB 1	SB 1				
Direction, Lane # Volume Total							
	54	100	7				
Volume Left	1	0	3				
Volume Right	1402	1700	4				
Volume to Congoity	1493	1700	900				
Volume to Capacity	0.00	0.06	0.01				
Queue Length 95th (ft)	0	0	1				
Control Delay (s)	0.1	0.0	9.0				
Lane LOS	A	0.0	A				
Approach LOS	0.1	0.0	9.0				
Approach LOS			А				
Intersection Summary							
Average Delay			0.4				
Intersection Capacity Utilizati	ion		14.1%	IC	U Level c	of Service	
Analysis Period (min)			15				

	۶	→	•	•	+	1	1	†	<i>></i>	\		√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			सीके			413	
Traffic Volume (veh/h)	7	0	31	0	0	0	46	730	4	2	901	31
Future Volume (Veh/h)	7	0	31	0	0	0	46	730	4	2	901	31
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.79	0.79	0.79	0.92	0.92	0.92	0.79	0.79	0.79	0.87	0.87	0.87
Hourly flow rate (vph)	9	0	39	0	0	0	58	924	5	2	1036	36
Pedestrians		19						2				
Lane Width (ft)		12.0						12.0				
Walking Speed (ft/s)		3.5						3.5				
Percent Blockage		2						0				
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1655	2122	557	1606	2138	464	1091			929		
vC1, stage 1 conf vol										,_,		
vC2, stage 2 conf vol												
vCu, unblocked vol	1655	2122	557	1606	2138	464	1091			929		
tC, single (s)	7.5	6.5	6.9	7.5	6.5	6.9	4.1			4.1		
tC, 2 stage (s)	7.0	0.0	0.7	7.0	0.0	0.7						
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	84	100	92	100	100	100	91			100		
cM capacity (veh/h)	58	44	464	59	43	544	624			732		
							024			752		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	48	0	520	467	520	554						
Volume Left	9	0	58	0	2	0						
Volume Right	39	0	0	5	0	36						
cSH	200	1700	624	1700	732	1700						
Volume to Capacity	0.24	0.00	0.09	0.27	0.00	0.33						
Queue Length 95th (ft)	23	0	8	0	0	0						
Control Delay (s)	28.5	0.0	2.6	0.0	0.1	0.0						
Lane LOS	D	Α	Α		Α							
Approach Delay (s)	28.5	0.0	1.3		0.0							
Approach LOS	D	Α										
Intersection Summary												
Average Delay			1.3									
Intersection Capacity Utilization			61.6%	IC	CU Level	of Service			В			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	71	211	139	24	165	17	124	120	36	25	143	81
Future Volume (vph)	71	211	139	24	165	17	124	120	36	25	143	81
Peak Hour Factor	0.84	0.84	0.84	0.74	0.74	0.74	0.79	0.79	0.79	0.67	0.67	0.67
Hourly flow rate (vph)	85	251	165	32	223	23	157	152	46	37	213	121
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	501	278	355	371								
Volume Left (vph)	85	32	157	37								
Volume Right (vph)	165	23	46	121								
Hadj (s)	-0.13	0.01	0.04	-0.14								
Departure Headway (s)	8.1	8.8	8.4	8.2								
Degree Utilization, x	1.12	0.68	0.83	0.85								
Capacity (veh/h)	440	386	408	425								
Control Delay (s)	108.5	28.3	41.6	42.7								
Approach Delay (s)	108.5	28.3	41.6	42.7								
Approach LOS	F	D	Е	Е								
Intersection Summary												
Delay			61.7									
Level of Service			F									
Intersection Capacity Utiliza	tion		78.2%	IC	:U Level o	of Service			D			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	1	1	1	46	3	78	1	175	25	47	283	0
Future Volume (Veh/h)	1	1	1	46	3	78	1	175	25	47	283	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.75	0.75	0.75	0.84	0.84	0.84	0.76	0.76	0.76	0.82	0.82	0.82
Hourly flow rate (vph)	1	1	1	55	4	93	1	230	33	57	345	0
Pedestrians		31			100						11	
Lane Width (ft)		12.0			12.0						12.0	
Walking Speed (ft/s)		3.5			3.5						3.5	
Percent Blockage		3			10						1	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)								917				
pX, platoon unblocked												
vC, conflicting volume	844	855	376	809	838	358	376			363		
vC1, stage 1 conf vol	0	000	0,0	007		000	0,0					
vC2, stage 2 conf vol												
vCu, unblocked vol	844	855	376	809	838	358	376			363		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	,,,	0.0	0.2	7	0.0	0.2						
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	100	100	77	98	85	100			95		
cM capacity (veh/h)	198	246	651	234	251	615	1148			1082		
					201	010	1140			1002		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	3	152	264	402								
Volume Left	1	55	1	57								
Volume Right	1	93	33	0								
cSH	282	378	1148	1082								
Volume to Capacity	0.01	0.40	0.00	0.05								
Queue Length 95th (ft)	1	47	0	4								
Control Delay (s)	17.9	20.8	0.0	1.7								
Lane LOS	С	С	Α	Α								
Approach Delay (s)	17.9	20.8	0.0	1.7								
Approach LOS	С	С										
Intersection Summary												
Average Delay			4.8									
Intersection Capacity Utilization	ation		52.4%	IC	CU Level	of Service			Α			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	∱ ∱			∱ ∱				7		र्स	7
Traffic Volume (vph)	182	853	12	0	803	124	0	0	9	209	1	167
Future Volume (vph)	182	853	12	0	803	124	0	0	9	209	1	167
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0			4.0				4.0		4.0	4.0
Lane Util. Factor	1.00	0.95			0.95				1.00		1.00	1.00
Frpb, ped/bikes	1.00	1.00			0.98				0.95		1.00	1.00
Flpb, ped/bikes	1.00	1.00			1.00				1.00		1.00	1.00
Frt Elt Droto stad	1.00	1.00			0.98				0.86		1.00	0.85
Flt Protected	0.95	1.00 3528			1.00 3399				1.00		0.95	1.00 1583
Satd. Flow (prot) FIt Permitted	1770 0.95	1.00			1.00				1536 1.00		1774 0.95	1.00
Satd. Flow (perm)	1770	3528			3399				1536		1774	1583
	0.92		0.92	0.87		0.87	0.75	0.75		0.87	0.87	
Peak-hour factor, PHF Adj. Flow (vph)	198	0.92 927	13		0.87 923	143	0.75		0.75 12	240	0.87	0.87 192
RTOR Reduction (vph)	0	927	0	0	923	0	0	0	9	0	0	159
Lane Group Flow (vph)	198	939	0	0	1052	0	0	0	3	0	241	33
Confl. Peds. (#/hr)	58	737	74	74	1032	58	U	U	31	31	241	33
Confl. Bikes (#/hr)	30		1	74		1			JI	31		
Turn Type	Prot	NA	'		NA	'			Perm	Split	NA	custom
Protected Phases	7	4			8				1 Cilli	6	6	Custom
Permitted Phases	,								6	, and the second		7
Actuated Green, G (s)	14.0	49.2			31.2				23.3		23.3	14.0
Effective Green, g (s)	14.0	49.2			31.2				23.3		23.3	14.0
Actuated g/C Ratio	0.17	0.61			0.39				0.29		0.29	0.17
Clearance Time (s)	4.0	4.0			4.0				4.0		4.0	4.0
Vehicle Extension (s)	3.0	3.0			3.0				3.0		3.0	3.0
Lane Grp Cap (vph)	307	2156			1317				444		513	275
v/s Ratio Prot	c0.11	0.27			c0.31						c0.14	
v/s Ratio Perm									0.00			0.02
v/c Ratio	0.64	0.44			0.80				0.01		0.47	0.12
Uniform Delay, d1	30.9	8.3			21.9				20.4		23.5	28.1
Progression Factor	1.00	1.00			1.00				1.00		1.00	1.00
Incremental Delay, d2	4.6	0.1			3.5				0.0		3.1	0.2
Delay (s)	35.5	8.4			25.3				20.4		26.6	28.3
Level of Service	D	А			С				С		С	С
Approach Delay (s)		13.1			25.3			20.4			27.3	
Approach LOS		В			С			С			С	
Intersection Summary												
HCM 2000 Control Delay			20.4	H	CM 2000	Level of S	Service		С			
HCM 2000 Volume to Capa	city ratio		0.65									
Actuated Cycle Length (s)			80.5		um of lost				12.0			
Intersection Capacity Utiliza	ition		65.1%	IC	U Level o	of Service			С			
Analysis Period (min)			15									

	•	→	←	4	-	4
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1>		W	
Traffic Volume (veh/h)	3	79	127	2	2	2
Future Volume (Veh/h)	3	79	127	2	2	2
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84
Hourly flow rate (vph)	4	94	151	2	2	2
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	153				254	152
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	153				254	152
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	100				100	100
cM capacity (veh/h)	1428				733	894
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	98	153	4			
Volume Left	4	0	2			
Volume Right	0	2	2			
cSH	1428	1700	805			
Volume to Capacity	0.00	0.09	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.3	0.0	9.5			
Lane LOS	А		А			
Approach Delay (s)	0.3	0.0	9.5			
Approach LOS			A			
Intersection Summary						
Average Delay			0.3			
Intersection Capacity Utiliz	zation		16.8%	IC	U Level c	f Service
Analysis Period (min)			15			

Exieting WETKIT												<u>_</u>
	•	→	•	•	←	•	4	†	/	>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			€ 1Ъ			414	
Traffic Volume (veh/h)	28	0	51	11	0	4	69	861	10	0	759	46
Future Volume (Veh/h)	28	0	51	11	0	4	69	861	10	0	759	46
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.76	0.76	0.76	0.63	0.63	0.63	0.93	0.93	0.93	0.86	0.86	0.86
Hourly flow rate (vph)	37	0	67	17	0	6	74	926	11	0	883	53
Pedestrians		109						5				
Lane Width (ft)		12.0						12.0				
Walking Speed (ft/s)		3.5						3.5				
Percent Blockage		10						0				
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1636	2104	582	1593	2124	468	1045			937		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1636	2104	582	1593	2124	468	1045			937		
tC, single (s)	7.5	6.5	6.9	7.5	6.5	6.9	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	25	100	84	66	100	99	88			100		
cM capacity (veh/h)	49	40	407	50	39	541	593			727		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	104	23	537	474	442	494						
Volume Left	37	17	74	0	0	0						
Volume Right	67	6	0	11	0	53						
cSH	114	65	593	1700	727	1700						
Volume to Capacity	0.92	0.35	0.12	0.28	0.00	0.29						
Queue Length 95th (ft)	142	33	11	0	0	0						
Control Delay (s)	133.5	87.7	3.4	0.0	0.0	0.0						
Lane LOS	F	F	Α									
Approach Delay (s)	133.5	87.7	1.8		0.0							
Approach LOS	F	F										
Intersection Summary												
Average Delay			8.5									
Intersection Capacity Utiliza	tion		65.2%	IC	CU Level	of Service			С			
Analysis Period (min)			15									

	•	→	•	•	•	•	4	†	<i>></i>	\	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	55	300	153	15	195	7	185	121	41	6	85	77
Future Volume (vph)	55	300	153	15	195	7	185	121	41	6	85	77
Peak Hour Factor	0.92	0.92	0.92	0.94	0.94	0.94	0.85	0.85	0.85	0.84	0.84	0.84
Hourly flow rate (vph)	60	326	166	16	207	7	218	142	48	7	101	92
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	552	230	408	200								
Volume Left (vph)	60	16	218	7								
Volume Right (vph)	166	7	48	92								
Hadj (s)	-0.12	0.03	0.07	-0.23								
Departure Headway (s)	6.8	7.7	7.2	7.7								
Degree Utilization, x	1.04	0.49	0.82	0.43								
Capacity (veh/h)	520	433	488	429								
Control Delay (s)	77.4	18.0	35.6	16.3								
Approach Delay (s)	77.4	18.0	35.6	16.3								
Approach LOS	F	С	Е	С								
Intersection Summary												
Delay			46.5									
Level of Service			Е									
Intersection Capacity Utilizat	tion		81.4%	IC	:U Level	of Service			D			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			44			4			4	
Traffic Volume (veh/h)	0	0	2	47	4	99	3	239	28	60	239	0
Future Volume (Veh/h)	0	0	2	47	4	99	3	239	28	60	239	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.50	0.50	0.50	0.94	0.94	0.94	0.95	0.95	0.95	0.93	0.93	0.93
Hourly flow rate (vph)	0	0	4	50	4	105	3	252	29	65	257	0
Pedestrians		9			12			1			10	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		1			1			0			1	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)								917				
pX, platoon unblocked												
vC, conflicting volume	786	695	267	676	680	288	266			293		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	786	695	267	676	680	288	266			293		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	99	85	99	86	100			95		
cM capacity (veh/h)	244	339	764	340	346	735	1287			1254		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	4	159	284	322								
Volume Left	0	50	3	65								
Volume Right	4	105	29	0								
cSH	764	528	1287	1254								
Volume to Capacity	0.01	0.30	0.00	0.05								
Queue Length 95th (ft)	0	31	0	4								
Control Delay (s)	9.7	14.7	0.1	2.0								
Lane LOS	Α	В	А	Α								
Approach Delay (s)	9.7	14.7	0.1	2.0								
Approach LOS	Α	В										
Intersection Summary												
Average Delay			4.0									
Intersection Capacity Utilizat	tion		56.7%	IC	:U Level	of Service			В			
Analysis Period (min)			15	10	5 25,01				5			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	∱ ∱			ተኈ				7		र्स	7
Traffic Volume (vph)	206	931	15	0	704	158	0	0	10	193	9	151
Future Volume (vph)	206	931	15	0	704	158	0	0	10	193	9	151
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0			4.0				4.0		4.0	4.0
Lane Util. Factor	1.00	0.95			0.95				1.00		1.00	1.00
Frpb, ped/bikes	1.00 1.00	1.00 1.00			0.98 1.00				0.97 1.00		1.00	1.00 1.00
Flpb, ped/bikes Frt	1.00	1.00			0.97				0.86		1.00	0.85
FIt Protected	0.95	1.00			1.00				1.00		0.95	1.00
Satd. Flow (prot)	1770	3526			3364				1557		1778	1583
Flt Permitted	0.95	1.00			1.00				1.00		0.95	1.00
Satd. Flow (perm)	1770	3526			3364				1557		1778	1583
Peak-hour factor, PHF	0.88	0.88	0.88	0.91	0.91	0.91	0.50	0.50	0.50	0.94	0.94	0.94
Adj. Flow (vph)	234	1058	17	0	774	174	0	0	20	205	10	161
RTOR Reduction (vph)	0	1	0	0	22	0	0	0	14	0	0	130
Lane Group Flow (vph)	234	1074	0	0	926	0	0	0	6	0	215	31
Confl. Peds. (#/hr)	46		70	70		46			19	19		
Confl. Bikes (#/hr)						2						
Turn Type	Prot	NA			NA				Perm	Split	NA	custom
Protected Phases	7	4			8					6	6	
Permitted Phases									6			7
Actuated Green, G (s)	15.4	47.7			28.3				25.3		25.3	15.4
Effective Green, g (s)	15.4	47.7			28.3				25.3		25.3	15.4
Actuated g/C Ratio	0.19	0.59			0.35				0.31		0.31	0.19
Clearance Time (s)	4.0	4.0			4.0				4.0		4.0	4.0
Vehicle Extension (s)	3.0	3.0			3.0				3.0		3.0	3.0
Lane Grp Cap (vph)	336	2076			1175				486		555	300
v/s Ratio Prot	c0.13	0.30			c0.28				0.00		c0.12	0.00
v/s Ratio Perm	0.70	0.50			0.70				0.00		0.20	0.02
v/c Ratio	0.70 30.6	0.52 9.8			0.79 23.7				0.01 19.2		0.39 21.8	0.10 27.1
Uniform Delay, d1 Progression Factor	1.00	1.00			1.00				1.00		1.00	1.00
Incremental Delay, d2	6.2	0.2			3.6				0.0		2.0	0.1
Delay (s)	36.8	10.1			27.2				19.3		23.8	27.2
Level of Service	30.0 D	В			C C				В		23.0 C	Z7.2
Approach Delay (s)	D	14.8			27.2			19.3	D		25.3	Ü
Approach LOS		В			С			В			С	
Intersection Summary												
HCM 2000 Control Delay			20.8	Н	CM 2000	Level of S	Service		С			
HCM 2000 Volume to Capa	city ratio		0.62		2000	_0 V OI OI C	201 1100					
	J.13 14110			Sı	um of lost	time (s)			12.0			
	ition								C			
Analysis Period (min)			15									
Actuated Cycle Length (s) Intersection Capacity Utiliza	J		81.0 64.4%		um of lost U Level o	time (s) of Service			12.0 C			

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Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		4	f)		**		
Traffic Volume (veh/h)	3	88	150	2	2	2	
Future Volume (Veh/h)	3	88	150	2	2	2	
Sign Control		Free	Free		Stop		
Grade		0%	0%		0%		
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	
Hourly flow rate (vph)	3	94	160	2	2	2	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type		None	None				
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	162				261	161	
vC1, stage 1 conf vol	.02						
vC2, stage 2 conf vol							
vCu, unblocked vol	162				261	161	
tC, single (s)	4.1				6.4	6.2	
tC, 2 stage (s)	•••				0.1	0.2	
tF (s)	2.2				3.5	3.3	
p0 queue free %	100				100	100	
cM capacity (veh/h)	1417				726	884	
		N/D 4	00.4		, 20		
Direction, Lane #	EB 1	WB 1	SB 1				
Volume Total	97	162	4				
Volume Left	3	0	2				
Volume Right	0	2	2				
cSH	1417	1700	797				
Volume to Capacity	0.00	0.10	0.01				
Queue Length 95th (ft)	0	0	0				
Control Delay (s)	0.2	0.0	9.5				
Lane LOS	Α		А				
Approach Delay (s)	0.2	0.0	9.5				
Approach LOS			Α				
Intersection Summary							
Average Delay			0.2				
Intersection Capacity Utilizati	ion		18.0%	IC	U Level o	of Service	
Analysis Period (min)			15				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4T)			414	
Traffic Volume (veh/h)	20	0	61	8	1	4	79	1016	5	0	730	25
Future Volume (Veh/h)	20	0	61	8	1	4	79	1016	5	0	730	25
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.84	0.84	0.84	0.54	0.54	0.54	0.93	0.93	0.93	0.93	0.93	0.93
Hourly flow rate (vph)	24	0	73	15	2	7	85	1092	5	0	785	27
Pedestrians		24										
Lane Width (ft)		12.0										
Walking Speed (ft/s)		3.5										
Percent Blockage		2										
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1546	2090	430	1730	2100	548	836			1097		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1546	2090	430	1730	2100	548	836			1097		
tC, single (s)	7.5	6.5	6.9	7.5	6.5	6.9	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	63	100	87	66	96	99	89			100		
cM capacity (veh/h)	65	45	560	44	45	480	775			632		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	97	24	631	551	392	420						
Volume Left	24	15	85	0	0	0						
Volume Right	73	7	0	5	0	27						
cSH	195	60	775	1700	632	1700						
Volume to Capacity	0.50	0.40	0.11	0.32	0.00	0.25						
Queue Length 95th (ft)	62	37	9	0	0	0						
Control Delay (s)	40.6	99.6	2.8	0.0	0.0	0.0						
Lane LOS	Е	F	Α									
Approach Delay (s)	40.6	99.6	1.5		0.0							
Approach LOS	Е	F										
Intersection Summary												
Average Delay			3.8									
Intersection Capacity Utilizat	ion		66.5%	IC	U Level	of Service			С			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	102	192	78	12	151	21	59	168	38	29	196	128
Future Volume (vph)	102	192	78	12	151	21	60	169	38	29	196	128
Peak Hour Factor	0.85	0.85	0.85	0.88	0.88	0.88	0.78	0.78	0.78	0.72	0.72	0.72
Hourly flow rate (vph)	120	226	92	14	172	24	77	217	49	40	272	178
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	438	210	343	490								
Volume Left (vph)	120	14	77	40								
Volume Right (vph)	92	24	49	178								
Hadj (s)	-0.04	-0.02	-0.01	-0.17								
Departure Headway (s)	7.8	8.9	8.2	7.8								
Degree Utilization, x	0.95	0.52	0.78	1.06								
Capacity (veh/h)	438	380	425	451								
Control Delay (s)	59.7	21.0	34.9	85.4								
Approach Delay (s)	59.7	21.0	34.9	85.4								
Approach LOS	F	С	D	F								
Intersection Summary												
Delay			57.0									
Level of Service			F									
Intersection Capacity Utilizat	ion		70.8%	IC	U Level o	of Service			С			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	2	0	6	26	3	45	3	194	11	30	291	1
Future Volume (Veh/h)	2	0	6	29	3	47	3	194	12	30	291	1
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.40	0.40	0.40	0.77	0.77	0.77	0.66	0.66	0.66	0.73	0.73	0.73
Hourly flow rate (vph)	5	0	15	38	4	61	5	294	18	41	399	1
Pedestrians		18			40			6			1	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		2			4			1			0	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)								917				
pX, platoon unblocked												
vC, conflicting volume	876	862	424	856	853	344	418			352		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	876	862	424	856	853	344	418			352		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	98	100	98	84	99	91	100			96		
cM capacity (veh/h)	221	266	616	241	269	672	1121			1161		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	20	103	317	441								
Volume Left	5	38	5	41								
Volume Right	15	61	18	1								
cSH	426	391	1121	1161								
Volume to Capacity	0.05	0.26	0.00	0.04								
Queue Length 95th (ft)	4	26	0	3								
Control Delay (s)	13.9	17.5	0.2	1.1								
Lane LOS	В	С	Α	Α								
Approach Delay (s)	13.9	17.5	0.2	1.1								
Approach LOS	В	С										
Intersection Summary												
Average Delay			3.0									
Intersection Capacity Utiliza	tion		46.8%	IC	:U Level	of Service			Α			
Analysis Period (min)			15	10	5 25,01				,,			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ť	∱ î≽			∱ ∱				7		ર્ન	7
Traffic Volume (vph)	157	682	0	0	548	88	0	0	0	142	0	178
Future Volume (vph)	158	682	0	0	548	88	0	0	0	142	0	181
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	4.0			4.0						4.0	4.5
Lane Util. Factor	1.00	0.95			0.95						1.00	1.00
Frpb, ped/bikes	1.00	1.00			0.99						1.00	1.00
Flpb, ped/bikes	1.00	1.00			1.00						1.00	1.00
Frt	1.00	1.00			0.98						1.00	0.85
Flt Protected	0.95	1.00			1.00						0.95	1.00
Satd. Flow (prot)	1770	3539			3437						1770	1583
Flt Permitted	0.95	1.00			1.00						0.95	1.00
Satd. Flow (perm)	1770	3539			3437						1770	1583
Peak-hour factor, PHF	0.75	0.75	0.75	0.87	0.87	0.87	0.92	0.92	0.92	0.83	0.83	0.83
Adj. Flow (vph)	211	909	0	0	630	101	0	0	0	171	0	218
RTOR Reduction (vph)	0	0	0	0	15	0	0	0	0	0	0	176
Lane Group Flow (vph)	211	909	0	0	716	0	0	0	0	0	171	42
Confl. Peds. (#/hr)	20		44	44		20			17	17		
Confl. Bikes (#/hr)			1_			1				- · · ·		
Turn Type	Prot	NA			NA				Perm	Split	NA	custom
Protected Phases	7	4			8				,	6	6	7
Permitted Phases	110	40.5			00.0				6		00.5	7
Actuated Green, G (s)	14.0	40.5			22.0						23.5	14.0
Effective Green, g (s)	14.0	40.5			22.0						23.5	14.0
Actuated g/C Ratio	0.19	0.56			0.31						0.33	0.19
Clearance Time (s)	4.5	4.0			4.0						4.0	4.5
Vehicle Extension (s)	3.0	3.0			3.0						3.0	3.0
Lane Grp Cap (vph)	344	1990			1050						577	307
v/s Ratio Prot	c0.12	0.26			c0.21						c0.10	0.00
v/s Ratio Perm	0 (1	0.47			0.70						0.20	0.03
v/c Ratio	0.61	0.46			0.68						0.30	0.14
Uniform Delay, d1	26.5	9.3			21.9						18.1	24.0
Progression Factor	1.00	1.00			1.00						1.00	1.00
Incremental Delay, d2	3.2 29.8	0.2 9.4			1.8 23.8						1.3 19.4	0.2 24.2
Delay (s) Level of Service	29.8 C				23.8 C						19.4 B	
Approach Delay (s)	C	A 13.3			23.8			0.0			22.1	С
Approach LOS		13.3 B			23.0 C			Ο.0			22.1 C	
		D			C			А			C	
Intersection Summary					_							
HCM 2000 Control Delay			18.2	H	CM 2000	Level of S	service		В			
HCM 2000 Volume to Capa	city ratio		0.51	-					46 =			
Actuated Cycle Length (s)			72.0		um of lost				12.5			
Intersection Capacity Utiliza	ition		51.2%	IC	U Level o	of Service			А			
Analysis Period (min)			15									

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Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		4	1>		**		
Traffic Volume (veh/h)	1	41	77	0	2	3	
Future Volume (Veh/h)	2	41	77	1	5	8	
Sign Control		Free	Free		Stop		
Grade		0%	0%		0%		
Peak Hour Factor	0.77	0.77	0.77	0.77	0.77	0.77	
Hourly flow rate (vph)	3	53	100	1	6	10	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type		None	None				
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	101				160	100	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	101				160	100	
tC, single (s)	4.1				6.4	6.2	
tC, 2 stage (s)							
tF (s)	2.2				3.5	3.3	
p0 queue free %	100				99	99	
cM capacity (veh/h)	1491				830	955	
Direction, Lane #	EB 1	WB 1	SB 1				
Volume Total	56	101	16				
Volume Left	3	0	6				
Volume Right	0	1	10				
cSH	1491	1700	904				
Volume to Capacity	0.00	0.06	0.02				
Queue Length 95th (ft)	0	0	1				
Control Delay (s)	0.4	0.0	9.1				
Lane LOS	Α		Α				
Approach Delay (s)	0.4	0.0	9.1				
Approach LOS			Α				
Intersection Summary							
Average Delay			1.0				
Intersection Capacity Utilization	on		14.1%	IC	U Level c	f Service	
Analysis Period (min)			15				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			414			€î₽	
Traffic Volume (veh/h)	7	0	31	0	0	0	46	730	4	2	901	31
Future Volume (Veh/h)	7	0	34	0	0	0	47	730	4	2	901	31
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.79	0.79	0.79	0.92	0.92	0.92	0.79	0.79	0.79	0.87	0.87	0.87
Hourly flow rate (vph)	9	0	43	0	0	0	59	924	5	2	1036	36
Pedestrians		19						2				
Lane Width (ft)		12.0						12.0				
Walking Speed (ft/s)		3.5						3.5				
Percent Blockage		2						0				
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1657	2124	557	1612	2140	464	1091			929		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1657	2124	557	1612	2140	464	1091			929		
tC, single (s)	7.5	6.5	6.9	7.5	6.5	6.9	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	84	100	91	100	100	100	91			100		
cM capacity (veh/h)	58	44	464	57	43	544	624			732		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	52	0	521	467	520	554						
Volume Left	9	0	59	0	2	0						
Volume Right	43	0	0	5	0	36						
cSH	209	1700	624	1700	732	1700						
Volume to Capacity	0.25	0.00	0.09	0.27	0.00	0.33						
Queue Length 95th (ft)	24	0	8	0	0	0						
Control Delay (s)	27.8	0.0	2.6	0.0	0.1	0.0						
Lane LOS	D	А	А		Α							
Approach Delay (s)	27.8	0.0	1.4		0.0							
Approach LOS	D	А										
Intersection Summary												
Average Delay			1.3									
Intersection Capacity Utiliza	ation		61.6%	IC	U Level	of Service			В			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	71	211	139	24	165	17	124	120	36	25	143	81
Future Volume (vph)	71	211	140	24	165	17	124	120	36	25	144	81
Peak Hour Factor	0.84	0.84	0.84	0.74	0.74	0.74	0.79	0.79	0.79	0.67	0.67	0.67
Hourly flow rate (vph)	85	251	167	32	223	23	157	152	46	37	215	121
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	503	278	355	373								
Volume Left (vph)	85	32	157	37								
Volume Right (vph)	167	23	46	121								
Hadj (s)	-0.13	0.01	0.04	-0.14								
Departure Headway (s)	8.1	8.8	8.5	8.2								
Degree Utilization, x	1.13	0.68	0.83	0.85								
Capacity (veh/h)	441	385	408	425								
Control Delay (s)	111.2	28.5	41.9	43.5								
Approach Delay (s)	111.2	28.5	41.9	43.5								
Approach LOS	F	D	Е	Е								
Intersection Summary												
Delay			62.9									
Level of Service			F									
Intersection Capacity Utilization	tion		78.2%	IC	U Level o	of Service			D			
Analysis Period (min)			15									

Synchro 9 Report - HCM 2000 Exist_MD.syn

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	1	1	1	46	3	78	1	175	25	47	283	0
Future Volume (Veh/h)	1	1	1	47	3	78	1	175	27	49	283	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.75	0.75	0.75	0.84	0.84	0.84	0.76	0.76	0.76	0.82	0.82	0.82
Hourly flow rate (vph)	1	1	1	56	4	93	1	230	36	60	345	0
Pedestrians		31			100						11	
Lane Width (ft)		12.0			12.0						12.0	
Walking Speed (ft/s)		3.5			3.5						3.5	
Percent Blockage		3			10						1	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)								917				
pX, platoon unblocked												
vC, conflicting volume	852	864	376	816	846	359	376			366		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	852	864	376	816	846	359	376			366		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	100	100	76	98	85	100			94		
cM capacity (veh/h)	195	242	651	231	248	614	1148			1079		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1						,		
Volume Total	3	153	267	405								
Volume Left	3 1	56	207	60								
	1	93	36	00								
Volume Right cSH	278	373	1148	1079								
Volume to Capacity	0.01	0.41	0.00	0.06								
Queue Length 95th (ft)	101	49	0	4								
Control Delay (s)	18.1	21.2	0.0	1.8								
Lane LOS	C	C	A	A								
Approach Delay (s)	18.1	21.2	0.0	1.8								
Approach LOS	С	С										
Intersection Summary												
Average Delay			4.9									
Intersection Capacity Utiliza	tion		52.4%	IC	CU Level	of Service			Α			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ť	∱ ∱			∱ }				7		र्स	7
Traffic Volume (vph)	182	853	12	0	803	124	0	0	9	209	1	167
Future Volume (vph)	184	853	12	0	803	124	0	0	9	209	1	168
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0			4.0				4.0		4.0	4.0
Lane Util. Factor	1.00	0.95			0.95				1.00		1.00	1.00
Frpb, ped/bikes	1.00	1.00			0.98				0.95		1.00	1.00
Flpb, ped/bikes	1.00	1.00			1.00				1.00		1.00	1.00
Frt	1.00	1.00			0.98				0.86		1.00	0.85
Flt Protected	0.95	1.00			1.00				1.00		0.95	1.00
Satd. Flow (prot)	1770	3528			3399				1536		1774	1583
· · · · · · · · · · · · · · · · · · ·			0.00	0.07		0.07	0.75	0.75		0.07		
, , ,												
		939			1052		U	U			241	34
	58			74					31	31		
	Dunk	NΙΛ			NIA	<u> </u>			Dame	C1!1	NIA	21124242
									Perm	•		Custom
	/	4			Ö				6	0	0	7
	1/1	10.3			21.2						23.3	
, ,												
									777			210
	00.11	0.27			60.51				0.00		60.14	0.02
	0.65	0.44			0.80						0.47	
												28.2
Level of Service	D				С				С		С	С
Approach Delay (s)		13.2			25.4			20.4			27.4	
Approach LOS		В			С			С			С	
Intersection Summary												
HCM 2000 Control Delay			20.5	H	CM 2000	Level of S	Service		С			
HCM 2000 Volume to Capaci	ty ratio		0.66									
Actuated Cycle Length (s)			80.6	Sı	um of lost	time (s)			12.0			
Intersection Capacity Utilization	on		65.1%	IC	U Level o	of Service			С			
Analysis Period (min)			15									
Approach Delay (s) Approach LOS Intersection Summary HCM 2000 Control Delay HCM 2000 Volume to Capaci Actuated Cycle Length (s) Intersection Capacity Utilization	ty ratio		0.66 80.6 65.1%	Sı	25.4 C CM 2000 um of lost	time (s)			C 12.0	0.87 240 0 0 31 Split 6	27.4	

	•	→	+	•	/	4	
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		ર્ન	ĵ»		W		
Traffic Volume (veh/h)	3	79	127	2	2	2	
Future Volume (Veh/h)	7	79	127	5	3	3	
Sign Control		Free	Free		Stop		
Grade		0%	0%		0%		
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	
Hourly flow rate (vph)	8	94	151	6	4	4	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type		None	None				
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	157				264	154	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	157				264	154	
tC, single (s)	4.1				6.4	6.2	
tC, 2 stage (s)							
tF (s)	2.2				3.5	3.3	
p0 queue free %	99				99	100	
cM capacity (veh/h)	1423				721	892	
Direction, Lane #	EB 1	WB 1	SB 1				
Volume Total	102	157	8				
Volume Left	8	0	4				
Volume Right	0	6	4				
cSH	1423	1700	797				
Volume to Capacity	0.01	0.09	0.01				
Queue Length 95th (ft)	0	0	1				
Control Delay (s)	0.6	0.0	9.6				
Lane LOS	Α		Α				
Approach Delay (s)	0.6	0.0	9.6				
Approach LOS			А				
Intersection Summary							
Average Delay			0.5				
Intersection Capacity Utilizat	tion		16.8%	IC	:U Level d	of Service	Α
Analysis Period (min)			15	, ,	3.27		

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			€ 1Ъ			414	
Traffic Volume (veh/h)	28	0	51	11	0	4	69	861	10	0	759	46
Future Volume (Veh/h)	28	0	52	11	0	4	72	861	10	0	759	46
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.76	0.76	0.76	0.63	0.63	0.63	0.93	0.93	0.93	0.86	0.86	0.86
Hourly flow rate (vph)	37	0	68	17	0	6	77	926	11	0	883	53
Pedestrians		109						5				
Lane Width (ft)		12.0						12.0				
Walking Speed (ft/s)		3.5						3.5				
Percent Blockage		10						0				
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1642	2110	582	1600	2130	468	1045			937		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1642	2110	582	1600	2130	468	1045			937		
tC, single (s)	7.5	6.5	6.9	7.5	6.5	6.9	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	24	100	83	65	100	99	87			100		
cM capacity (veh/h)	49	39	407	49	38	541	593			727		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	105	23	540	474	442	494						
Volume Left	37	17	77	0	0	0						
Volume Right	68	6	0	11	0	53						
cSH	113	64	593	1700	727	1700						
Volume to Capacity	0.93	0.36	0.13	0.28	0.00	0.29						
Queue Length 95th (ft)	145	33	11	0	0	0						
Control Delay (s)	137.3	90.0	3.5	0.0	0.0	0.0						
Lane LOS	F	F	Α									
Approach Delay (s)	137.3	90.0	1.9		0.0							
Approach LOS	F	F										
Intersection Summary												
Average Delay			8.9									
Intersection Capacity Utiliza	ation		65.2%	IC	CU Level	of Service			С			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	_
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	55	300	153	15	195	7	185	121	41	6	85	77
Future Volume (vph)	55	300	154	15	195	7	185	121	41	6	86	77
Peak Hour Factor	0.92	0.92	0.92	0.94	0.94	0.94	0.85	0.85	0.85	0.84	0.84	0.84
Hourly flow rate (vph)	60	326	167	16	207	7	218	142	48	7	102	92
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	553	230	408	201								
Volume Left (vph)	60	16	218	7								
Volume Right (vph)	167	7	48	92								
Hadj (s)	-0.13	0.03	0.07	-0.23								
Departure Headway (s)	6.8	7.7	7.3	7.7								
Degree Utilization, x	1.05	0.49	0.82	0.43								
Capacity (veh/h)	520	433	488	429								
Control Delay (s)	78.3	18.0	35.7	16.4								
Approach Delay (s)	78.3	18.0	35.7	16.4								
Approach LOS	F	С	E	С								
Intersection Summary												
Delay			46.9									
Level of Service			Е									
Intersection Capacity Utilizat	ion		81.4%	IC	U Level o	of Service			D			
Analysis Period (min)			15									

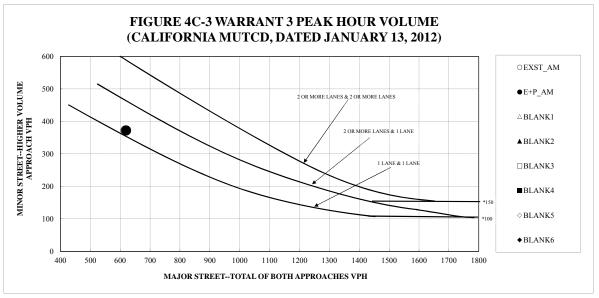
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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	0	0	2	47	4	99	3	239	28	60	239	0
Future Volume (Veh/h)	0	0	2	48	4	99	3	239	30	62	239	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.50	0.50	0.50	0.94	0.94	0.94	0.95	0.95	0.95	0.93	0.93	0.93
Hourly flow rate (vph)	0	0	4	51	4	105	3	252	32	67	257	0
Pedestrians		9			12			1			10	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		1			1			0			1	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)								917				
pX, platoon unblocked												
vC, conflicting volume	791	702	267	682	686	290	266			296		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	791	702	267	682	686	290	266			296		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	99	85	99	86	100			95		
cM capacity (veh/h)	242	335	764	337	343	734	1287			1251		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	4	160	287	324								
Volume Left	0	51	3	67								
Volume Right	4	105	32	0								
cSH	764	523	1287	1251								
	0.01	0.31	0.00	0.05								
Volume to Capacity Queue Length 95th (ft)	0.01	32	0.00									
0 , ,	9.7	14.9	0.1	4 2.1								
Control Delay (s)												
Lane LOS	Α	B	A	A								
Approach LOS	9.7	14.9	0.1	2.1								
Approach LOS	А	В										
Intersection Summary												
Average Delay			4.0									
Intersection Capacity Utiliza	ition		56.7%	IC	CU Level	of Service			В			
Analysis Period (min)			15									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	∱ ∱			ተኈ				7		ની	7
Traffic Volume (vph)	206	931	15	0	704	158	0	0	10	193	9	151
Future Volume (vph)	208	931	15	0	704	158	0	0	10	193	9	152
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0			4.0				4.0		4.0	4.0
Lane Util. Factor	1.00	0.95			0.95				1.00		1.00	1.00
Frpb, ped/bikes	1.00 1.00	1.00 1.00			0.98 1.00				0.97 1.00		1.00	1.00 1.00
Flpb, ped/bikes Frt	1.00	1.00			0.97				0.86		1.00	0.85
Flt Protected	0.95	1.00			1.00				1.00		0.95	1.00
Satd. Flow (prot)	1770	3526			3364				1557		1778	1583
Flt Permitted	0.95	1.00			1.00				1.00		0.95	1.00
Satd. Flow (perm)	1770	3526			3364				1557		1778	1583
Peak-hour factor, PHF	0.88	0.88	0.88	0.91	0.91	0.91	0.50	0.50	0.50	0.94	0.94	0.94
Adj. Flow (vph)	236	1058	17	0	774	174	0	0	20	205	10	162
RTOR Reduction (vph)	0	1	0	0	22	0	0	0	14	0	0	131
Lane Group Flow (vph)	236	1074	0	0	926	0	0	0	6	0	215	31
Confl. Peds. (#/hr)	46		70	70		46			19	19		
Confl. Bikes (#/hr)						2						
Turn Type	Prot	NA			NA				Perm	Split	NA	custom
Protected Phases	7	4			8					6	6	
Permitted Phases									6			7
Actuated Green, G (s)	15.5	47.8			28.3				25.3		25.3	15.5
Effective Green, g (s)	15.5	47.8			28.3				25.3		25.3	15.5
Actuated g/C Ratio	0.19	0.59			0.35				0.31		0.31	0.19
Clearance Time (s)	4.0	4.0			4.0				4.0		4.0	4.0
Vehicle Extension (s)	3.0	3.0			3.0				3.0		3.0	3.0
Lane Grp Cap (vph)	338	2078			1173				485		554	302
v/s Ratio Prot	c0.13	0.30			c0.28				0.00		c0.12	0.00
v/s Ratio Perm	0.70	0.50			0.70				0.00		0.20	0.02
v/c Ratio	0.70	0.52			0.79 23.7				0.01		0.39	0.10
Uniform Delay, d1	30.6 1.00	9.8 1.00			1.00				19.3 1.00		21.8	27.1 1.00
Progression Factor	6.2				3.6						2.0	0.1
Incremental Delay, d2 Delay (s)	36.8	0.2 10.0			27.3				0.0 19.3		23.9	27.2
Level of Service	J0.0	В			27.3 C				17.3 B		23.7 C	27.2 C
Approach Delay (s)	D	14.9			27.3			19.3	D		25.3	O
Approach LOS		В			C			В			C	
Intersection Summary												
HCM 2000 Control Delay			20.8	Н	CM 2000	Level of S	Sarvica		С			
HCM 2000 Control Delay HCM 2000 Volume to Capa	ncity ratio		0.62	17	CIVI ZUUU	LOVOI UI V	OCI VICE		C			
Actuated Cycle Length (s)	ionly rullo		81.1	Sı	um of lost	time (s)			12.0			
Intersection Capacity Utiliza	ation		64.4%			of Service			C			
Analysis Period (min)			15	10	. 5 257010	O 01 V100						
a.joio . c.nou (mm)			10									

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Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	1>		W	
Traffic Volume (veh/h)	3	88	150	2	2	2
Future Volume (Veh/h)	7	88	150	5	3	3
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	7	94	160	5	3	3
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	165				270	162
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	165				270	162
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	100				100	100
cM capacity (veh/h)	1413				715	882
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	101	165	6			
Volume Left	7	0	3			
Volume Right	0	5	3			
cSH	1413	1700	790			
Volume to Capacity	0.00	0.10	0.01			
Queue Length 95th (ft)	0	0	1			
Control Delay (s)	0.6	0.0	9.6			
Lane LOS	А		А			
Approach Delay (s)	0.6	0.0	9.6			
Approach LOS			Α			
Intersection Summary						
Average Delay			0.4			
Intersection Capacity Utiliz	zation		18.0%	IC	III evel c	of Service
Analysis Period (min)	<u></u>		15.076	10	LOVOIC	n Joi vice
Alialysis Fellou (IIIII)			13			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4T)			414	
Traffic Volume (veh/h)	20	0	61	8	1	4	79	1016	5	0	730	25
Future Volume (Veh/h)	20	0	62	8	1	4	82	1016	5	0	730	25
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.84	0.84	0.84	0.54	0.54	0.54	0.93	0.93	0.93	0.93	0.93	0.93
Hourly flow rate (vph)	24	0	74	15	2	7	88	1092	5	0	785	27
Pedestrians		24										
Lane Width (ft)		12.0										
Walking Speed (ft/s)		3.5										
Percent Blockage		2										
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1552	2096	430	1737	2106	548	836			1097		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1552	2096	430	1737	2106	548	836			1097		
tC, single (s)	7.5	6.5	6.9	7.5	6.5	6.9	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	63	100	87	66	95	99	89			100		
cM capacity (veh/h)	64	45	560	44	44	480	775			632		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	98	24	634	551	392	420						
Volume Left	24	15	88	0	0	0						
Volume Right	74	7	0	5	0	27						
cSH	194	59	775	1700	632	1700						
Volume to Capacity	0.51	0.40	0.11	0.32	0.00	0.25						
Queue Length 95th (ft)	63	38	10	0	0	0						
Control Delay (s)	41.2	102.0	2.9	0.0	0.0	0.0						
Lane LOS	Е	F	А									
Approach Delay (s)	41.2	102.0	1.5		0.0							
Approach LOS	Е	F										
Intersection Summary												
Average Delay			3.9									
Intersection Capacity Utiliza	ation		66.5%	IC	U Level	of Service			С			
Analysis Period (min)			15									

Appendix Exhibit B California MUTCD Signal Warrant Analysis



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

CCENADIO	APPRO	APPROACH(ES)			
SCENARIO	MAJOR MINOR		MET?		
EXST_AM	618	372	YES		
E+P_AM	620	372	YES		
BLANK1	0	0			
BLANK2	0	0			
BLANK3	0	0			
BLANK4	0	0			
BLANK5	0	0			
BLANK6	0	0			
Note: Major approach is the total of both approaches. Minor approach is the					

Date: March 13, 2017 Intersection No.: 1

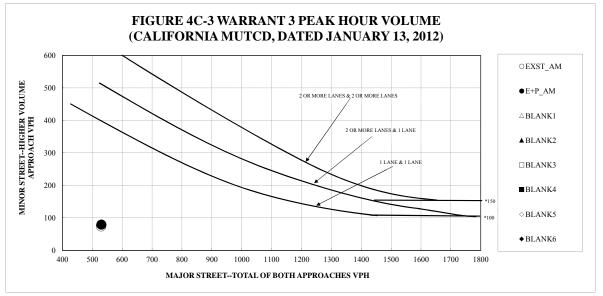
Somerset Avenue / Santa Maria Avenue Intersection:

Number of lanes on MAJOR street:

Number of lanes on MINOR street:

WOOD RODGERS

ighest of both approaches.



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

SCENARIO -	APPRO	ACH(ES)	WARRANT
	MAJOR	MINOR	MET?
EXST_AM	530	74	NO
E+P_AM	531	79	NO
BLANK1	0	0	
BLANK2	0	0	
BLANK3	0	0	
BLANK4	0	0	
BLANK5	0	0	
BLANK6	0	0	

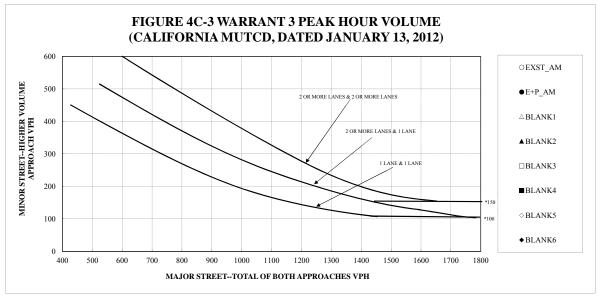
Note: Major approach is the total of both approaches. Minor approach is the ighest of both approaches.

Date: March 13, 2017 Intersection No.: 2

Jamison Way / Santa Maria Avenue Intersection:

Number of lanes on MAJOR street:





*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

SCENARIO	APPRO	ACH(ES)	WARRANT MET?
SCENARIO	MAJOR	MINOR	
EXST_AM	119	5	NO
E+P_AM	121	13	NO
BLANK1	0	0	
BLANK2	0	0	
BLANK3	0	0	
BLANK4	0	0	
BLANK5	0	0	
BLANK6	0	0	

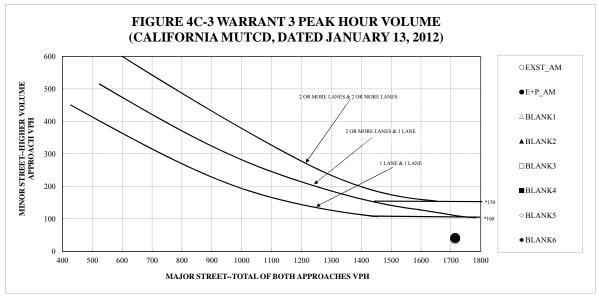
Note: Major approach is the total of both approaches. Minor approach is the ighest of both approaches.

Date: March 13, 2017 Intersection No.: 4

Jamison Way / Project Access Driveway Intersection:

Number of lanes on MAJOR street:





*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

SCENARIO	APPRO	ACH(ES)	WARRANT
SCENARIO	MAJOR	MINOR	MET?
EXST_AM	1714	38	NO
E+P_AM	1715	41	NO
BLANK1	0	0	
BLANK2	0	0	
BLANK3	0	0	
BLANK4	0	0	
BLANK5	0	0	
BLANK6	0	0	

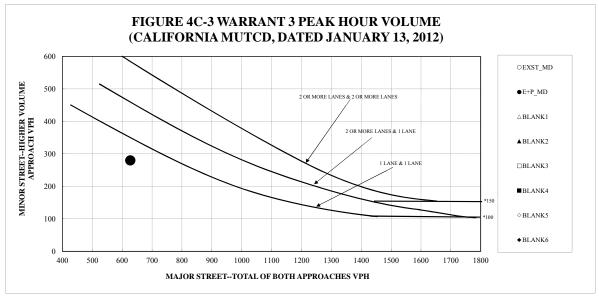
Note: Major approach is the total of both approaches. Minor approach is the highest of both approaches.

Date: March 13, 2017 Intersection No.: 5

Intersection: Jamison Way / Redwood Road

Number of lanes on MAJOR street: 2





*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

SCENARIO	APPRO	ACH(ES)	WARRANT
SCENARIO	MAJOR	MINOR	MET?
EXST_MD	627	280	NO
E+P_MD	628	280	NO
BLANK1	0	0	
BLANK2	0	0	
BLANK3	0	0	
BLANK4	0	0	
BLANK5	0	0	
BLANK6	0	0	

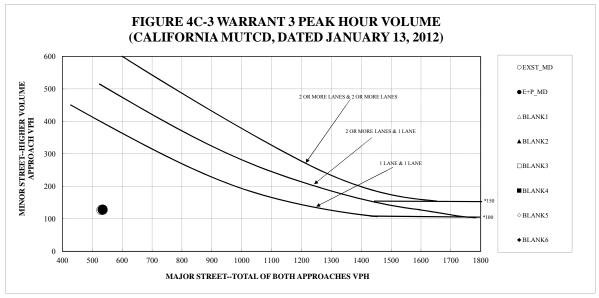
Note: Major approach is the total of both approaches. Minor approach is the ighest of both approaches.

Date: March 13, 2017 Intersection No.: 1

Somerset Avenue / Santa Maria Avenue Intersection:

Number of lanes on MAJOR street:





*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

SCENARIO	APPRO	APPROACH(ES)		
SCENARIO	MAJOR	MINOR	MET?	
EXST_MD	531	127	NO	
E+P_MD	535	128	NO	
BLANK1	0	0		
BLANK2	0	0		
BLANK3	0	0		
BLANK4	0	0		
BLANK5	0	0		
BLANK6	0	0		

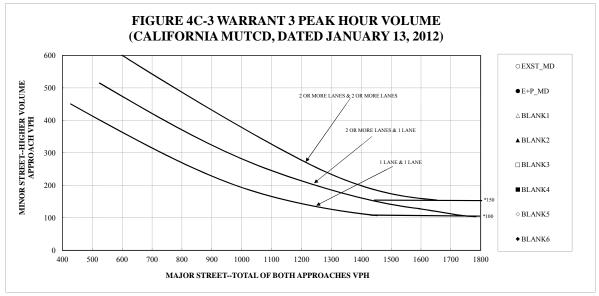
Note: Major approach is the total of both approaches. Minor approach is the highest of both approaches.

Date: March 13, 2017 Intersection No.: 2

Intersection: Jamison Way / Santa Maria Avenue

Number of lanes on MAJOR street: 1





*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

SCENARIO	APPRO	APPROACH(ES)		
SCENARIO	MAJOR	MINOR	MET?	
EXST_MD	211	4	NO	
E+P_MD	218	6	NO	
BLANK1	0	0		
BLANK2	0	0		
BLANK3	0	0		
BLANK4	0	0		
BLANK5	0	0		
BLANK6	0	0		

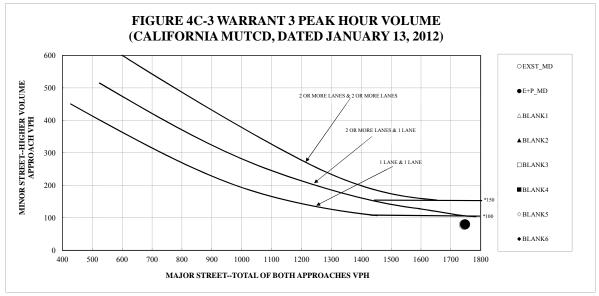
Note: Major approach is the total of both approaches. Minor approach is the ighest of both approaches.

Date: March 13, 2017 Intersection No.: 4

Jamison Way / Project Access Driveway Intersection:

Number of lanes on MAJOR street:





*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

SCENARIO	APPRO	APPROACH(ES)		
SCENARIO	MAJOR	MINOR	MET?	
EXST_MD	1745	79	NO	
E+P_MD	1748	80	NO	
BLANK1	0	0		
BLANK2	0	0		
BLANK3	0	0		
BLANK4	0	0		
BLANK5	0	0		
BLANK6	0	0		

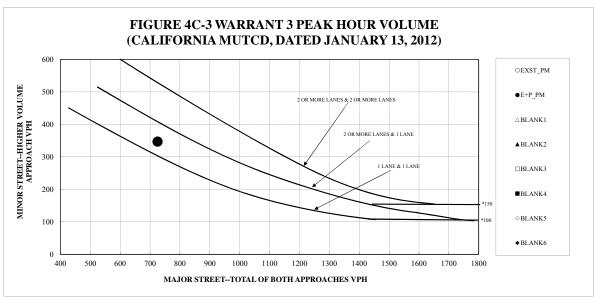
Note: Major approach is the total of both approaches. Minor approach is the highest of both approaches.

Date: March 13, 2017 Intersection No.: 5

Intersection: Jamison Way / Redwood Road

Number of lanes on MAJOR street: 2





*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

APPRO	ACH(ES)	WARRANT
MAJOR	MINOR	MET?
725	347	YES
726	347	YES
0	0	
0	0	
0	0	
0	0	
0	0	
0	0	
	725 726 0 0 0 0 0	725 347 726 347 0 0 0 0 0 0 0 0 0 0 0 0

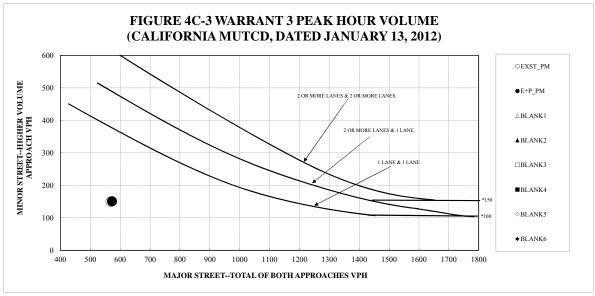
Note: Major approach is the total of both approaches. Minor approach is the highest of both approaches.

Date: March 13, 2017 Intersection No.: 1

Intersection: Somerset Avenue / Santa Maria Avenue

Number of lanes on MAJOR street: 1





*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

SCENARIO	APPRO	ACH(ES)	WARRANT
	MAJOR	MINOR	MET?
EXST_PM	569	150	NO
E+P_PM	573	151	NO
BLANK1	0	0	
BLANK2	0	0	
BLANK3	0	0	
BLANK4	0	0	
BLANK5	0	0	
BLANK6	0	0	

Note: Major approach is the total of both approaches. Minor approach is the ighest of both approaches.

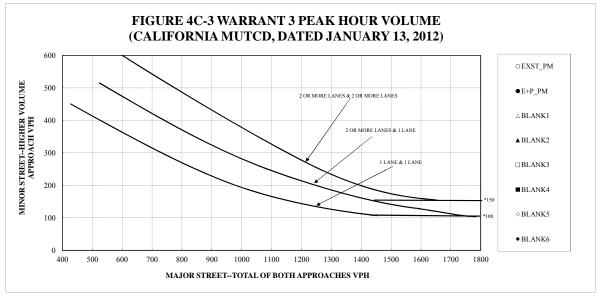
Date: March 13, 2017 Intersection No.: 2

Jamison Way / Santa Maria Avenue Intersection:

Number of lanes on MAJOR street:



SCENARIOS: "PM PEAK HOUR" CONDITIONS



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

SCENARIO	APPRO	ACH(ES)	WARRANT
SCENARIO	MAJOR	MINOR	MET?
EXST_PM	243	4	NO
E+P_PM	250	6	NO
BLANK1	0	0	
BLANK2	0	0	
BLANK3	0	0	
BLANK4	0	0	
BLANK5	0	0	
BLANK6	0	0	

Note: Major approach is the total of both approaches. Minor approach is the highest of both approaches.

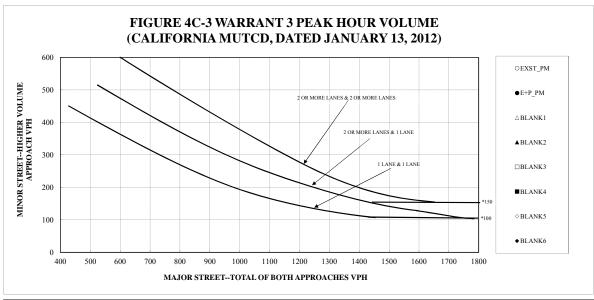
Date: March 13, 2017 Intersection No.: 4

Intersection: Jamison Way / Project Access Driveway

Number of lanes on MAJOR street: 1

Number of lanes on MINOR street: 1





*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

SCENARIO	APPRO	ACH(ES)	WARRANT
SCENARIO .	MAJOR	MINOR	MET?
EXST_PM	1855	81	NO
E+P_PM	1858	82	NO
BLANK1	0	0	
BLANK2	0	0	
BLANK3	0	0	
BLANK4	0	0	
BLANK5	0	0	
BLANK6	0	0	

Note: Major approach is the total of both approaches. Minor approach is the highest of both approaches.

Date: March 13, 2017 Intersection No.: 5

Intersection: Jamison Way / Redwood Road

Number of lanes on MAJOR street: 2

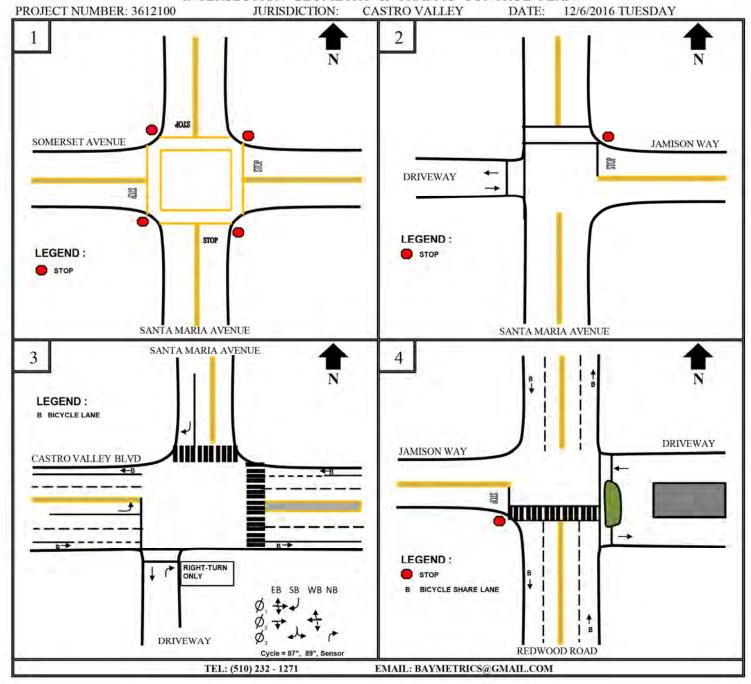
Number of lanes on MINOR street: 1



Appendix C Existing Traffic Counts

BAYMETRICS

INTERSECTION GEOMETRY & TRAFFIC CONTROL PLAN



SANTA MARIA SOMERSET AV	VENUE		<u> </u>		Y TIME: DICTION		CASTR	7:00 AM O VALI		TO FILE:	9:00 3612100		
<u> </u>			<u></u>	JURISI	DICTION	:	CASTR	O VALI	EY 1	FILE:	3612100	1AM	
	1 405 1 40		†										
128			NORTH	I			ARR	RIVAL / I	DEPARTU	JRE VO	LUMES		
	196 29	0					PHF =	0.72]				
		U L					1	353	291				
		*	21						†		PHF = 0.88		
	1174	, ≁	151			338	_	+	ı		184		
		•	12										
			0		ן ו				1				
						0.85		+	ı				
0	59 168	38						286	265				
SANTA	MARIA AVENUI	E							PHF =	0.78]		
NORT	HBOUND	SC	OUTHBOUN	D		EAST	BOUND)		WEST	BOUND		TOTAL
U-TURN LEFT	THRU RIGHT	U-TURN L			U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	
			SURVE	Y I	DATA				1				,
	25 1			46		34	37	16		5	19	6	256
	37 6			62			89	40			38		460
													761
													1074
													1404
													1634 1828
													2010
					ERIO								
0 12	25 1	0	7 48	46	0	34	37	16	0	5	19	6	256
0 19	12 5	0	1 26	16	0	24	52	24	0	3	19	3	204
0 8	61 13	0	8 54	27	0	36	39	9	0	2	42	2	301
0 13	59 13	0	10 54	40	0	39	33	7	0	5	30	10	313
0 23	38 6	0	7 68	47	0	22	52	26	0	3	31	7	330
0 15	10 6	0	4 20	14	0	5	68	36	0	2	48	2	230
0 16	9 4	0	3 17	18	0	8	49	20	0	3	46	1	194
1 0 15	9 5	0	1 19	12	0	3	37	27	0	6	47	1	182
T					1				1				
													1074
													1148
													1174
													1067 936
1 0 09	00 21						200	109	U	14	1/2	11	930
NORT	HBOUND	SO	OUTHBOUN	ID		EAST	BOUND)		WEST	BOUND		TOTAL
NBU NBL	NBT NBR			SBR	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	
					0			78	0			21	1174 OVER 41.1
		0.00 0		0.68	0.00			0.54	0.00			0.53	OVERALL 0.89
			1										7
			14										191
			S-LEG										101
<u> </u>		22 1271		EMAIL	D 4373 C			ATL CO	M	(00		191
1 1 1 1 1 1 1 1 1 1	NORT U-TURN LEFT 1	NORTHBOUND U-TURN LEFT THRU RIGHT	NORTHBOUND SO	NORTHBOUND SOUTHBOUN U-TURN LEFT THRU RIGHT U-TURN LEFT THRU S U R V E	NORTHBOUND SOUTHBOUND	NORTHBOUND SOUTHBOUND SURVEY DATA	NORTHBOUND	NORTHBOUND SOUTHBOUND EASTBOUND	The image of the	TIT74	NORTHBOUND SOUTHBOUND EASTBOUND WEST	NORTHOUND SOUTHBOUND EASTBOUND WESTBOUND WES	SOUTHBOUND SOU

PROJECT	Ր:		TRAFF	IC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE	:	1	12/6/2016	5	DAY:	TUESD	AY	
N-S APPR	OAC	CH:	SANTA	MARIA	AVENU	JE				SURVE	Y TIME	:		7:00 AM	[TO	9:00	AM	
E-W APPR	ROA	CH:	SOMER	SET AV	ENUE					JURISI	DICTION	V:	CASTR	O VALL	EY	FILE:	3612100	-1AM	
PEAK 7:30 AM	to	0 1 0		0		7			NORTH O O O]]]	то	ΓΑL W-E 3		TOTAL	PEAK L BICYC 1. N-END [1]	LE VOI]]]	TAL E-E 0	END]]
TIME	Di	EDIOD	<u>'</u>		MARIA A		1	COLUM	TROUN	D.		TOTAL		6	<u>'</u>	NATION.	TROUNE		TOTAL
From	P	ERIOD To	U-TURN	LEFT	HBOUN THRU		U-TURN	LEFT	HBOUN THRU		U-TURN	LEFT	BOUND THRU		U-TURN	LEFT	THRU	RIGHT	TOTAL
110111		10	U-TUKIN	LEFT	TIIKU	KIGITI	U-TUKIN		RVE		ATA	LEFT	IIIKU	KIGIII	0-TOKIN	LEI I	HIKU	KIGITI	<u>l</u>
7:00 AM	to	7:15 AM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
7:15 AM	to	7:30 AM	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	4
7:30 AM	to	7:45 AM	0	0	1	0	0	1	3	0	0	0	0	0	0	0	0	0	5
	to	8:00 AM	0	0	4	0	0	1	3	0	0	0	0	0	0	0	0	0	8
	to	8:15 AM	0	0	4	0	0	1	3	0	0	1	0	0	0	0	0	0	9
	to	8:30 AM	0	0	4	0	0	1	3	0	0	1	0	2	0	0	0	0	11
	to to	8:45 AM 9:00 AM	0	0	4 4	0	0	1	3	0	0	1	0	2 2	0	0	0	0	11 11
0.43 AW	10	9.00 AW	U	U	4	U	U	TOT			ERIC		U	2	U	U	U	U	11
7:00 AM	to	7:15 AM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
7:15 AM	to	7:30 AM	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
7:30 AM	to	7:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
7:45 AM	to	8:00 AM	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	to	8:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	to	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
	to	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	ω	9:00 AM	U	U	U	U	0		O J R L Y		OTAL		U	0	U	U	0	U	U
7:00 AM	to	8:00 AM	0	0	4	0	0	1	3	0	0	0	0	0	0	0	0	0	8
7:15 AM		8:15 AM		0	3	0	0	1	2	0	0	1	0	0	0	0	0	0	7
7:30 AM		8:30 AM		0	3	0	0	0	1	0	0	1	0	2	0	0	0	0	7
7:45 AM	to	8:45 AM	0	0	3	0	0	0	0	0	0	1	0	2	0	0	0	0	6
8:00 AM	to	9:00 AM	0	0	0 TEL:	0 (510) 2	0	0	0	0	0	1 ETRICS	0 COCM	2	0	0	0	0	3

7:30 AM to 8:30 AM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	3	1	3	0	7

B.A.Y.M.E.T.R.I.C.S. PEDESTRIAN MOVEMENT SUMMARY

SURVEY DATA	PROJECT:		TRAFFIC	COUN	TS IN CAS	TRO VAL	LEY		SURVEY	DATE:	12/6/2016	i
PEAK HOUR	N-S APPROA	ACH:	SANTA M	ARIA A	VENUE				DAY:		TUESDA	Y
PEAK HOUR 07:30 AM TO 08:30 AM TO TO TO TO TO TO TO TO TO T	E-W APPRO	ACH:	SOMERS	ET AVE	NUE				JURISDI	CTION:	CASTRO	VALLE
O7.30 AM	SURVEY PE	RIOD): 7:00	AM	TO	9:00	AM		FILE:		3612100-	1AM
TIME PERIOD NORTH X-WALK EAST X-WALK SOUTH X-WALK WEST X-WALK SUR V E Y DATA To	07:30 AM SOMERSET A	6 H AVEN	08:30 AM 60 UE 7 16 CROSSWA SIDEWALK	FSANTA	→ → ← → MARIA AV	2 C 8		W-LEG G&H BY LEG: N-LEG S-LEG	23 E&F S-LEG 5 23	DESTRIAN 191	N-LEG A&B 5 BY DIRE NB(D+G) SB(C+H) EB(A+F)	C&D E-LEG CTION: 149 14
From To A B C D E F G H TOTAL SURVEY DATA 07:00 AM 07:15 AM 1 0 0 0 1 0 0 3 0 3 0 8 07:15 AM 07:45 AM 4 0 4 19 2 0 12 0 41 07:45 AM 08:00 AM 4 2 8 65 7 7 4 40 2 135 08:00 AM 08:15 AM 5 5 8 93 7 21 63 8 210 08:45 AM 09:00 AM 5 6 8 93 7 22 63 9 213 TOTAL BY PERIOD 07:00 AM 07:45 AM 1 0 0 1 0 0 1 0 3 07:15 AM 08:00 AM 1 0 0 3 0 1 0 3 07:15 AM 08:00 AM 1 0 0 1 0 0 1 0 3 07:15 AM 08:00 AM 1 0 0 1 0 0 1 0 3 07:15 AM 08:00 AM 1 0 0 0 1 0 0 1 0 3 07:15 AM 08:30 AM 1 0 0 0 2 0 0 2 0 5 07:30 AM 07:45 AM 2 0 4 16 2 0 9 0 33 07:45 AM 08:00 AM 0 2 4 46 5 7 28 2 94 08:00 AM 08:15 AM 0 0 0 0 24 0 8 21 3 56 08:15 AM 08:00 AM 0 1 0 0 0 1 0 5 0 2 11 08:00 AM 08:15 AM 0 0 0 0 0 1 0 5 0 2 11 08:00 AM 08:15 AM 0 0 0 0 0 1 0 5 0 2 11 08:00 AM 08:15 AM 0 0 0 0 0 1 0 5 0 2 11 08:00 AM 08:15 AM 0 0 0 0 0 1 0 5 0 2 11 08:00 AM 08:15 AM 0 0 0 0 0 1 0 5 0 2 11 08:00 AM 08:30 AM 0 1 0 0 0 0 1 0 5 0 2 11 08:00 AM 08:30 AM 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			STOP						66		WB (B+E)	10
From To A B C D E F G H TOTAL 07:00 AM	TIME	PEI	RIOD	NORTH	I X-WALK	EAST X-	WALK	SOUTH	X-WALK	WEST X	K-WALK	
07:00 AM 07:15 AM 1 0 0 1 0 0 1 0 3 0 8 07:15 AM 07:30 AM 2 0 0 3 0 0 3 0 8 07:30 AM 07:45 AM 4 0 4 19 2 0 12 0 41 07:45 AM 08:00 AM 4 2 8 65 7 7 40 2 135 08:00 AM 08:15 AM 4 2 8 89 7 15 61 5 191 08:15 AM 08:30 AM 4 3 8 92 7 16 63 8 210 08:30 AM 08:45 AM 5 5 8 93 7 21 63 8 210 08:45 AM 09:00 AM 1 0 0			То									TOTAL
07:15 AM					SU	RVEY	DAT	ГΑ		•		•
07:30 AM 07:45 AM 4 0 4 19 2 0 12 0 41 07:45 AM 08:00 AM 4 2 8 65 7 7 40 2 135 08:00 AM 08:15 AM 4 2 8 89 7 15 61 5 191 08:15 AM 08:30 AM 4 3 8 92 7 16 63 6 199 08:30 AM 08:45 AM 5 5 8 93 7 21 63 8 210 08:45 AM 09:00 AM 5 6 8 93 7 21 63 8 210 07:00 AM 09:00 AM 1 0 0 1 0 0 1 0 0 2 0 5 5 0 2 0 0 2 0 </td <td>07:00 AM</td> <td></td> <td>07:15 AM</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>3</td>	07:00 AM		07:15 AM	1	0	0	1	0	0	1	0	3
07:45 AM 08:00 AM 4 2 8 65 7 7 40 2 135 08:00 AM 08:15 AM 4 2 8 89 7 15 61 5 191 08:15 AM 08:30 AM 4 3 8 92 7 16 63 6 199 08:30 AM 08:45 AM 5 5 8 93 7 21 63 8 210 08:45 AM 09:00 AM 5 6 8 93 7 22 63 9 213 TOTAL BY PERIOD 07:00 AM 07:15 AM 1 0 0 1 0 3 07:15 AM 07:30 AM 1 0 0 2 0 5 07:30 AM 07:45 AM 2 0 4 16 2 0 9 0	07:15 AM		07:30 AM	2	0	0	3	0	0	3	0	8
08:00 AM 08:15 AM 4 2 8 89 7 15 61 5 191 08:15 AM 08:30 AM 4 3 8 92 7 16 63 6 199 08:30 AM 08:45 AM 5 5 8 93 7 21 63 8 210 08:45 AM 09:00 AM 5 6 8 93 7 21 63 8 210 08:45 AM 09:00 AM 5 6 8 93 7 22 63 9 213 TOTA L B Y P E R I O D 0 1 0 0 1 0 0 1 0 3 213 3 3 2 0 3 3 2 0 3 2 0 3 3 2 0 3 3 3 3 3 3	07:30 AM		07:45 AM	4	0	4	19	2	0	12	0	41
08:15 AM 08:30 AM 4 3 8 92 7 16 63 6 199 08:30 AM 08:45 AM 5 5 5 8 93 7 21 63 8 210 08:45 AM 09:00 AM 5 6 8 93 7 22 63 9 213 ***TOTAL BY PERIOD** ***TOTAL BY PERIOD** 07:00 AM 07:15 AM 1 0 0 1 0 0 1 0 0 2 0 5 07:30 AM 07:45 AM 2 0 4 16 2 0 9 0 33 07:45 AM 08:00 AM 0 2 4 46 5 7 28 2 94 08:00 AM 08:15 AM 0 0 0 24 0 8 21 3 56 08:15 AM 08:30 AM 0 1 0 3 0 1 2 1 8 08:30 AM 08:45 AM 1 2 0 1 0 0 0 1 0 1 3 08:45 AM 08:00 AM 0 1 0 3 0 1 2 1 8 08:30 AM 08:45 AM 1 2 0 1 0 3 0 1 2 1 8 08:30 AM 08:45 AM 1 2 0 1 0 0 0 1 0 1 3 ***HOURLY TOTALS** 07:00 AM 08:00 AM 4 2 8 65 7 7 4 40 2 135 07:15 AM 08:00 AM 3 2 8 88 7 15 60 5 188 07:30 AM 08:15 AM 3 2 8 88 7 15 60 5 188 07:30 AM 08:30 AM 1 5 4 74 5 21 51 8 169	07:45 AM		08:00 AM	4	2	8	65	7	7	40	2	135
08:30 AM 08:45 AM 5 5 8 93 7 21 63 8 210 08:45 AM 09:00 AM 5 6 8 93 7 22 63 9 213 TOTAL BY PERIOD 07:00 AM 07:15 AM 1 0 0 1 0 0 1 0 3 07:15 AM 07:30 AM 1 0 0 2 0 0 2 0 5 07:30 AM 07:45 AM 2 0 4 16 2 0 9 0 33 07:45 AM 08:00 AM 0 2 4 46 5 7 28 2 94 08:00 AM 08:15 AM 0 0 0 24 0 8 21 3 56 08:15 AM 08:30 AM 0 1	08:00 AM		08:15 AM	4	2	8	89	7	15	61	5	191
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Tel: (510) 232-1271 EMAIL: BAYMETRICS@GMAIL.COM	00.00 AW											, 0

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	149	14	18	10	191
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	5	23	97	66	191

PROJECT	`:		TRAFF	IC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE:	;	1	2/6/201	6]	DAY:	TUESD	AY	
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4:00 PM	to	4:15 PM		57	31	5		5	17	27		9	74	48		4	45	2	324
4:15 PM	to	4:30 PM		106	53	15		6	40	45		19	132	94		9	93	3	615
4:30 PM	to	4:45 PM		141	73	23		8	60	61		36	209	124		13	124	5	877
4:45 PM	to	5:00 PM		195	92	31		9	84	85		54	266	177		18	176	6	1193
5:00 PM	to	5:15 PM		243	133	44		10	113	105		63	357	215		22	226	8	1539
5:15 PM	to	5:30 PM		289	159	50		13	128	120		77	436	248		26	268	9	1823
5:30 PM	to	5:45 PM		326	194	64		14	145	138		91	509	277		28	319	12	2117
5:45 PM	to	6:00 PM		366	231	76		16	168	156	EDIO	110	572	302		29	375	12	2413
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	to	5:30 PM		46	26	6	0	3	15	15	0	14	79	33	0	4	42	1	284
	to	5:45 PM		37	35	14	0	1	17	18	0	14	73	29	0	2	51	3	294
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4:15 PM	to	5:15 PM	0	186	102	39	0	5	96	78	0	54	283	167	0	18	181	6	1215
4:30 PM	to	5:30 PM	0	183	106	35	0	7	88	75	0	58	304	154	0	17	175	6	1208
	to	5:45 PM		185	121	41	0	6	85	77	0	55	300	153	0	15	195	7	1240
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PHF BY N			0.00	0.86	0.74	0.73	0.00	0.50	0.73	0.80	0.00	0.76	0.82	0.72	0.00	0.75	0.94	0.58	OVERALL
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PROJECT	Г:		TRAFFI	C COU	NTS IN	CASTR	O VALLI	EΥ		SURVE	Y DATE	:		12/6/2016	i	DAY:	TUESD	AY	
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4:30 PM	to	4:45 PM	0	0	3	0	0	0	0	0	0	1	0	0	0	0	2	0	6
4:45 PM	to	5:00 PM	0	0	3	0	0	0	0	0	0	2	0	0	0	0	2	0	7
5:00 PM	to	5:15 PM	0	0	3	0	0	0	0	0	0	2	0	0	0	0	2	0	7
5:15 PM	to	5:30 PM	0	0	3	0	0	0	0	0	0	2	0	0	0	0	3	0	8
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4:30 PM	to	4:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2
4:45 PM	to	5:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
5:00 PM	to	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	to	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
5:30 PM	to	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	to	6:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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PROJECT:		TRAFFIC	COUN	TS IN CAS	TRO VAI	LEY		SURVEY	DATE:	12/6/2016	
N-S APPRO	ACH:	SANTA M	ARIA A	VENUE				DAY:		TUESDA	Y
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SURVEY PE	RIOL	D: 4:00	PM	TO	6:00	PM	_	FILE:		3612100-	1PM
04:45 PM SOMERSET	AVEN	05:45 PM 1 G UE 0 1 CROSSWA SIDEWALK STOP CON	F SANTA LK	B B B B B B B B B B B B B B B B B B B	2 0 C	↑ D 4	W-LEG G&H BY LEG: N-LEG S-LEG E-LEG	5 1 E&F S-LEG 2 1 6	EAK HOIDESTRIAN 14 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	N-LEG A&B 2 6 BY DIRE NB(D+G) SB(C+H) EB(A+F)	C&D E-LEG CTION: 5 6 1
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04:15 PM		04:30 PM	1	0	8	4	2	2	2	5	24
04:30 PM		04:45 PM	2	0	13	4	4	2	2	5	32
04:45 PM		05:00 PM	2	2	14	5	4	3	2	7	39
05:00 PM		05:15 PM	2	2	15	7	4	3	2	7	42
05:15 PM		05:30 PM	2	2	15	7	4	3	2	8	43
05:30 PM		05:45 PM	2	2	15	8	4	3	3	9	46
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12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	5	6	1	2	14
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	2	1	6	5	14

PROJECT:		TRAFFIC	COUNTS	S IN CASTR	O VALL	EY		SURVE	Y DATE:		1	2/6/201	6]	DAY:	TUESD	AY	
N-S APPROAC	'Н:	SANTA M	ARIA AV	ENUE				SURVE	Y TIME:			2:00 PM	['	то	4:00	PM	
E-W APPROAC	CH:	SOMERSE	ET AVEN	UE				JURISI	ICTION	:	CASTR	O VALI	LEY 1	FILE:	3612100	-1MD	
PEAK HOU	UR 3:15 PM		01 1	42 25		1	† NORTH				ARR	IVAL / I	DEPARTU	JRE VO	LUMES		
			81 1	43 25	0						PHF =	0.67]				
				↓ ↓	U		1					249	208				
	0					•	17						1		PHF = 0.74		
[71			1156		←	165		[370	—	+	'	—	206		
<u> </u>	211					√	24			421					272		
L	139		\cap	<u> </u>	*	\hookrightarrow	0		[PHF =			1				
SOMERSET AV	ENUE		↓]						L	0.84]	306	280				
		SA		24 120 RIA AVENUE	36							300	PHF =	0.79]		
TIME DE	EDIOD		ODTID	OLIND		COLUE	IDOLINI			EAGE	DOLIND		I	MARGO	EDOLIND		TOTAL
From PE	To		ORTHBO	RU RIGHT	U-TURN	LEFT	HBOUNI THRU		U-TURN	LEFT	BOUND THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	TOTAL
Fioni	10	O-TOKIN I	ASF 1 11	IKU KIGITI	U-TUKIN		RVE		ATA	LEFT	TIKU	KIGITI	U-TOKN	LEI I	HIKO	KIGITI	
2:00 PM to	2:15 PM		36	28 6		2	7	9		16	54	36		9	36	4	243
2:15 PM to	2:30 PM		70	68 21		8	23	19		39	100	71		17	74	6	516
2:30 PM to	2:45 PM		98 1	02 31		16	80	47		64	136	98		22	104	10	808
2:45 PM to	3:00 PM		128 1	27 35		22	124	68		75	196	131		28	142	15	1091
3:00 PM to	3:15 PM		160 1	48 42		27	150	90		87	265	175		33	201	21	1399
3:15 PM to	3:30 PM	:	201 1	64 51		28	168	118		94	313	211		41	259	23	1671
3:30 PM to	3:45 PM			81 63		31	185	129		100	358	253		51	313	23	1931
3:45 PM to	4:00 PM		282 1	99 68		35 T O T	201 A.I. E	148 3 Y P	ERIO	108 D	425	297		56	364	23	2206
2,00 DM 40	2.15 DM	0	36 2	20 6	0	2	7	9	0		54	26	0	9	26	4	242
2:00 PM to 2:15 PM to	2:15 PM 2:30 PM			28 6 40 15	0	6	16	10	0	16 23	54 46	36 35	0	8	36 38	2	243 273
2:30 PM to	2:45 PM			34 10	0	8	57	28	0	25	36	27	0	5	30	4	292
2:45 PM to	3:00 PM			25 4	0	6	44	21	0	11	60	33	0	6	38	5	283
3:00 PM to	3:15 PM			21 7	0	5	26	22	0	12	69	44	0	5	59	6	308
3:15 PM to	3:30 PM		41	16 9	0	1	18	28	0	7	48	36	0	8	58	2	272
3:30 PM to	3:45 PM	0	43	17 12	0	3	17	11	0	6	45	42	0	10	54	0	260
3:45 PM to	4:00 PM	0	38	18 5	0	4	16	19	0	8	67	44	0	5	51	0	275
					_	HOU	JRLY	T (TAL	S			1				_
2:00 PM to	3:00 PM			27 35	0	22	124	68	0	75	196	131	0	28	142	15	1091
2:15 PM to	3:15 PM			20 36	0	25	143	81	0	71	211	139	0	24	165	17	1156
2:30 PM to	3:30 PM			96 30	0	20	145	99	0	55	213	140	0	24	185	17	1155
2:45 PM to	3:45 PM 4:00 PM			79 32	0	15	105	82	0	36	222	155	0	29	209	13	1123
3:00 PM to	4.00 PM	0	154	72 33	0 P I	13 E A K	77 H O U	80 R S	U M M A	33 A R Y	229	166	U	28	222	8	1115
2:15 PM to	3:15 PM	N	ORTHB	OUND			HBOUN				BOUND	ı		WEST	FBOUND)	TOTAL
				BT NBR	SBU	SBL	SBT	SBR	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	1
VOLUMI DUE DV MOVI				20 36	0	25	143	81	0	71	211	139	0	24	165	17	1156
PHF BY MOVE PHF BY APPR		0.00	0.79	.75 0.60	0.00	0.78	0.63 67	0.72	0.00	0.71	0.76 84	0.79	0.00	0.75	.74	0.71	OVERALL 0.94
BICYCLI			3				4			0.					1		9
PEDESTRI	IAN		8				39				9				42		298
DEDEGERATE	OV LEC		N-LEG				EG			E-L					LEG		200
PEDESTRIAN E	or leg:	<u> </u>	29 T1	EL: (510) 2	22 122		22	ZNAAIT .	BAYM		58 S@GM.	ATL CO	M	-	89		298
			11	LL. (310) 2	JZ - 1Z	. 1	1	J1 V1/711 .	PULLIVII	- 1 ICIC	JW CIVII	iii.co	171				

$\underline{B.A.Y.M.E.T.R.I.C.S.}$

PROJECT	Т:		TRAFFI	C COU	NTS IN	CASTR	O VALLI	EY		SURVE	Y DATE	::		12/6/2016	i	DAY:	TUESD	AY	
N-S APPR	ROAC	CH:	SANTA	MARIA	AVENU	JE				SURVE	Y TIME	:		2:00 PM		TO	4:00	PM	
E-W APP	ROA	CH:	SOMER	SET AV	ENUE					JURISI	ICTION	V:	CASTR	O VALL	EY	FILE:	3612100	-1MD	
PEA 2:15 PM	to	0 0 1		0	4	1 2			0 1 0]]]	то	TAL W-I	2	TOTAL	1	HOUR CLE VOI 8 6 2]]]	TAL E-E 2 1	END]]
TIME	Pl	ERIOD	<u> </u>		MARIA A		: 	SOUTH	IBOUN	D		TOTAL	S-END FBOUNI	7		WEST	BOUND)	TOTAL
From		То	U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	1	U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	RIGHT	
								SU	RVE	Y I	АТА								•
2:00 PM	to	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	to	2:30 PM	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
2:30 PM	to	2:45 PM	0	1	2	0	0	0	4	0	0	0	1	0	0	0	0	0	8
2:45 PM	to	3:00 PM	0	1	2	0	0	0	4	0	0	0	1	0	0	0	1	0	9
3:00 PM	to	3:15 PM	0	1	2	0	0	0	4	0	0	0	1	0	0	0	1	0	9
3:15 PM	to	3:30 PM		1	2	0	0	0	5	0	0	0	1	0	0	0	2	0	11
3:30 PM 3:45 PM	to	3:45 PM 4:00 PM		1 2	2 2	0	0	0	5 5	0	0	0	2 2	0	0	0	2 2	0	12 13
J.#J FIVI	to	+.00 F M	U	4		U		TOTA			ERIC			U	U	U		U	13
2:00 PM	to	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM		2:30 PM		1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
2:30 PM	to	2:45 PM		0	2	0	0	0	4	0	0	0	0	0	0	0	0	0	6
2:45 PM	to	3:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
3:00 PM	to	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	to	3:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
3:30 PM	to	3:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
3:45 PM	to	4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
								ΗOU	RLY	T (TAL	S							_
														0	0				
2:00 PM		3:00 PM		1	2	0	0	0	4	0	0	0	1	U	0	0	1	0	9
2:15 PM	to	3:15 PM	0	1	2	0	0	0	4 4	0	0	0	1	0	0	0	1	0	9
2:15 PM 2:30 PM	to to	3:15 PM 3:30 PM	0	1 0	2 2	0	0	0	4 5	0	0	0	1	0 0	0	0	1 2	0	
2:15 PM 2:30 PM 2:45 PM	to to to	3:15 PM 3:30 PM 3:45 PM	0 0 0	1 0 0	2 2 0	0 0 0	0 0 0	0 0 0	4 5 1	0 0 0	0 0 0	0 0 0	1 0 1	0 0 0	0 0 0	0 0 0	1 2 2	0 0 0	9 9 4
2:15 PM 2:30 PM 2:45 PM	to to	3:15 PM 3:30 PM	0 0 0	1 0	2 2 0 0	0 0 0	0	0 0 0 0	4 5 1 1	0 0 0	0 0 0	0 0 0	1 0 1 1	0 0	0 0 0	0	1 2	0	9 9

2:15 PM to 3:15 PM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	3	4	1	1	9

PROJECT:	7	TRAFFIC	COUNTS	IN CAS	TRO VAL	LEY		SURVEY	DATE:	12/6/2016				
N-S APPROA	CH: S	SANTA M	IARIA AV	ENUE				DAY:		TUESDA	Y			
E-W APPROA	ACH: S	SOMERS	ET AVEN	UE				JURISDI	CTION:	CASTRO	VALLE			
SURVEY PER	RIOD:	2:00	PM	TO	4:00	PM	_	FILE:		3612100-	1MD			
O2:15 PM SOMERSET A	85 H VENUI	O3:15 PM 4 G E 13 9 CROSSWA SIDEWALK STOP CON		EARIA AV	29 0 154	↑ D 4	W-LEG G&H BY LEG: N-LEG S-LEG E-LEG	22 E&F S-LEG 29 22 158		N-LEG A&B 29 158 BY DIRE NB(D+G) SB(C+H) EB(A+F)	C&D E-LEG CTION: 8 239 9			
	<u> </u>	STOP					W-LEG	89		WB(B+E)	42			
TIME PERIOD NORTH X-WALK EAST X-WALK SOUTH X-WALK WEST X-WALK														
From		To	\boldsymbol{A}	В	C	D A 7	E	F	G	H	TOTAL			
		1	1		RVEY	DAT	1		ı					
		02:15 PM	0	0	0	0	1	0	2	0	3			
		02:30 PM	0	15	104	1	9	3	4	77	213			
02:30 PM		02:45 PM	0	20	115	1	9	3	4	81	233			
02:45 PM		03:00 PM	0	21	145	1	11	3	5	85	271			
03:00 PM		03:15 PM	0	29	154	4	14	9	6	85	301			
03:15 PM		03:30 PM	0	34	159	5	16	9	7	85	315			
03:30 PM		03:45 PM	0	35	163	7	19	12	7	86	329			
03:45 PM		04:00 PM	0	35	165	13	19	12	8	87	339			
			1	ТОТА	L BY	PEF	RIOD		1					
02:00 PM		02:15 PM	0	0	0	0	1	0	2	0	3			
02:15 PM		02:30 PM	0	15	104	1	8	3	2	77	210			
02:30 PM		02:45 PM	0	5	11	0	0	0	0	4	20			
02:45 PM		03:00 PM	0	1	30	0	2	0	1	4	38			
03:00 PM		03:15 PM	0	8	9	3	3	6	1	0	30			
03:15 PM		03:30 PM	0	5	5	1	2	0	1	0	14			
03:30 PM		03:45 PM	0	1	4	2	3	3	0	1	14			
03:45 PM		04:00 PM	0	0	2	6	0	0	1	1	10			
				HOU	RLY	TOT	ALS							
02:00 PM		03:00 PM	0	21	145	1	11	3	5	85	271			
02:15 PM		03:15 PM	0	29	154	4	13	9	4	85	298			
		03:30 PM	0	19	55	4	7	6	3	8	102			
02.45 DM					40			9	2	-	96			
02:45 PM		03:45 PM	0	15	48	6	10	9	3	5	90			
		03:45 PM 04:00 PM	0	15 14	48 20	12	8	9	3	2	68			

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	8	239	9	42	298
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	29	22	158	89	298

N-S APPROACH: E-W APPROACH: PEAK HOUR	SANTA MAR JAMISON W	RIA AVENUE /AY					Y TIME: DICTION		CASTR	7:00 AM		ΓΟ FILE:	9:00 3612100		
PEAK HOUR	JAMISON W	AY			J	URIST	ICTION		CASTR	VALI	FV 1	CII E.	3612100	2 4 1/4	
						CILIDE	.1011011	•	CHOTH	JVALL	11.1	FILE.	3012100	-2/1VI	
7:15 AM to 8:15 AI		201 20			NORTH				ARR	IVAL / I	DEPARTU	RE VO	LUMES		
	1	291 30	0						PHF =	0.73]				
		J	. () 1	AMISO	N WAY				[322	241				
0				<u> </u>	45						†		PHF = 0.77		
2		612	-, I	←	3		г	6		+	- '		74		
0			-	←	26										
6	$\exists \neg lacksquare$				0		L	8		1	+		41		
DRIVEWAY) 1	^ [ŕ				PHF = 0.40		ţ					
			'						[324	208				
	SAN	2 194 FA MARIA AVEN									PHF =	0.66]		
TIME PERIOD	NO	RTHBOUND	:	SOUTI	HBOUND			EAST	BOUND			WEST	BOUND		TOTAL
From To	U-TURN LEF	T THRU RIGH	T U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	
	_		-	SU	RVEY		ATA								-
7:00 AM to 7:15 A	M 0 0	25 4		8	72	0		0	0	2		7	1	6	125
7:15 AM to 7:30 Al		49 4		14	132	0		0	0	2		13	2	14	232
7:30 AM to 7:45 AI		112 7		18	191	0		1	0	4		17	2	27	381
7:45 AM to 8:00 Al				27	265	0		2	0	8		25	2	37	566
8:00 AM to 8:15 AI				38	363	1		2	0	8		33	4	51	737
8:15 AM to 8:30 AM 8:30 AM to 8:45 AM		243 20 263 22		45 52	416 455	1		2 2	0	9 10		43 47	5	56 63	843 924
8:45 AM to 9:00 AI				66	502	1		2	2	10		54	5	67	1026
			Т	ГОТА		Y P	ERIO								
7:00 AM to 7:15 AI	M 0 0	25 4	0	8	72	0	0	0	0	2	0	7	1	6	125
7:15 AM to 7:30 AI	M 1 1	24 0	0	6	60	0	0	0	0	0	0	6	1	8	107
7:30 AM to 7:45 Al	M 0 0	63 3	0	4	59	0	0	1	0	2	0	4	0	13	149
7:45 AM to 8:00 A	м 0 1	73 5	0	9	74	0	0	1	0	4	0	8	0	10	185
8:00 AM to 8:15 A	0 0 M	34 3	0	11	98	1	0	0	0	0	0	8	2	14	171
8:15 AM to 8:30 A	0 0 M	24 5	0	7	53	0	0	0	0	1	0	10	1	5	106
8:30 AM to 8:45 A	М 0 1	20 2	0	7	39	0	0	0	0	1	0	4	0	7	81
8:45 AM to 9:00 Al	0 0 M	25 3	0	14	47 I D I II	0	0	0	2	0	0	7	0	4	102
	<u> </u>				RLY		TAL								
7:00 AM to 8:00 AI			0	27	265	0	0	2	0	8	0	25	2	37	566
7:15 AM to 8:15 AI			0	30	291	1	0	2	0	6	0	26	3	45	612
7:30 AM to 8:30 AM 7:45 AM to 8:45 AM		194 16 151 15	0	31 34	284 264	1	0	2	0	7 6	0	30 30	3	42 36	611 543
8:00 AM to 9:00 AI			0	34 39	237	1	0	0	2	2	0	30 29	3	30	543 460
	• 1	103 13	PE.		HOUE		U M M A				ı	-/		20	200
7:15 AM to 8:15 AM	1 NO	RTHBOUND	,	SOUTI	HBOUND			EAST	BOUND			WEST	BOUND		TOTAL
VIOLID CE	NBU NB			SBL	SBT	SBR	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	
VOLUME PHF BY MOVEMENT	0.25 0.50		0.00	30 0.68	291 0.74	0.25	0.00	0.50	0.00	6 0.38	0.00	26 0.81	0.38	45 0.80	612 Overall
PHF BY APPROACH	0.25 0.50	0.66	0.00	0.08		0.23	0.00	0.30		0.50	0.00		.77	0.00	0.83
BICYCLE		2		3				0					0		5
PEDESTRIAN		48 N-LEG			0			2			•		5		65
		S-L	EG			E-L	EG				LEG				
PEDESTRIAN BY LEG:		1		ϵ	5			4()			1	18		65

PROJECT	Г:		TRAFF	IC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE	: :		12/6/2016	5	DAY:	TUESD	AY	
N-S APPR	ROA	CH:	SANTA	MARIA	AVENU	JE				SURVE	Y TIME	:		7:00 AM	[TO	9:00	AM	
E-W APP	ROA	CH:	JAMIS(ON WAY	•					JURISI	DICTION	N:	CASTR	O VALL	EY	FILE:	3612100	-2AM	
PEA 7:15 AM DRIVEWA	to Tay	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	3	5		JAMISO	NORTH ON WAY O O O]]]	то	FAL W-I	END 0	TOTAL	PEAK L BICYC 1 N-END 3 3	LE VOI]]]	TAL E-F 0 0 0	end]]
TIME	P	ERIOD	 	SANTA I	MARIA A	AVENUE		SOUTI	HBOUN	D D		TOTAL	S-END TBOUNI	5			TBOUND)	TOTAL
From		То	U-TURN	LEFT	THRU		U-TURN	LEFT	THRU		U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	RIGHT	<u> </u>
							-	SU	RVE	Y I	АТА								-
7:00 AM	to	7:15 AM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
7:15 AM	to	7:30 AM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	4
7:30 AM	to	7:45 AM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	4
7:45 AM	to	8:00 AM	0	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0	7
8:00 AM	to	8:15 AM	0	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0	7
8:15 AM	to	8:30 AM	0	0	3	0	0	0	5	0	0	0	0	0	0	0	0	0	8
8:30 AM	to	8:45 AM		0	3	0	0	0	6	0	0	0	0	0	0	0	0	0	9
8:45 AM	to	9:00 AM	0	0	3	0	0	0 T O T	7 A.T. T	0 0 V D	E R I C	0	0	0	0	0	0	0	10
7.00 135	_	7.15 43 5			,			TOT			1		^		C		^	0	
7:00 AM		7:15 AM		0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
7:15 AM		7:30 AM		0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
7:30 AM	to	7:45 AM		0	0	0	0	0	0 2	0	0	0	0	0	0	0	0	0	3
7:45 AM	to	8:00 AM 8:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	to			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
8:15 AM 8:30 AM	to	8:30 AM 8:45 AM		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1 1
8:30 AM 8:45 AM		9:00 AM		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1 1
O.+J AIVI	ιο	2.00 AIVI	U	U	U	U	U		J R L Y		O T A L		U	U	U	U	U	U	1
7:00 AM	to	8:00 AM	0	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0	7
7:15 AM		8:15 AM		0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5
7:30 AM		8:30 AM		0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	4
7:45 AM		8:45 AM		0	1	0	0	0	4	0	0	0	0	0	0	0	0	0	5
8:00 AM		9:00 AM		0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
		,					32 - 127							AIL.CO		-			

7:15 AM to 8:15 AM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	2	3	0	0	5

B.A.Y.M.E.T.R.I.C.S. PEDESTRIAN MOVEMENT SUMMARY

PROJECT:		TRAFFIC	COUNT	TS IN CAS	TRO VAL	LEY		SURVEY	DATE:	12/6/2016				
N-S APPROA	ACH:	SANTA M	ARIA A	VENUE				DAY:		TUESDA	Y			
E-W APPRO								JURISDI	CTION:	CASTRO	VALLE			
SURVEY PE	RIOD	7:00	AM	TO	9:00	AM		FILE:		3612100-2	2AM			
DRIVEWAY	6 H	08:15 AM 12 5 1 CROSSWA SIDEWALK STOP CON	F SANTA : LK	B B B B B B B B B B B B B B B B B B B	4]	D 36	W-LEG G&H BY LEG: N-LEG S-LEG E-LEG	18 6 E&F S-LEG 1 6 40	65 ←→	N-LEG A&B 1 40 BY DIRE NB(D+G) SB(C+H) EB(A+F)	C&D E-LEG CTION: 48 10 2			
		STOP					W-LEG	18		WB (B+E)	5			
TIME PERIOD NORTH X-WALK EAST X-WALK SOUTH X-WALK WEST X-WALK														
From		To	\boldsymbol{A}	В	С	D	E	F	G	H	TOTAL			
				SU	RVEY	DAT	ľΑ				1			
07:00 AM		07:15 AM	0	0	2	1	2	0	0	1	6			
07:15 AM		07:30 AM	0	0	3	6	7	1	0	2	19			
07:30 AM		07:45 AM	0	0	3	17	7	1	3	4	35			
07:45 AM		08:00 AM	1	0	5	35	7	1	11	4	64			
08:00 AM		08:15 AM	1	0	6	37	7	1	12	7	71			
08:15 AM		08:30 AM	1	2	7	39	7	1	13	10	80			
08:30 AM		08:45 AM	3	2	14	41	7	1	13	11	92			
08:45 AM		09:00 AM	5	2	15	43	7	1	15	15	103			
				TOTA	L BY	PEI	RIOD							
07:00 AM		07:15 AM	0	0	2	1	2	0	0	1	6			
07:15 AM		07:30 AM	0	0	1	5	5	1	0	1	13			
07:30 AM		07:45 AM	0	0	0	11	0	0	3	2	16			
07:45 AM		08:00 AM	1	0	2	18	0	0	8	0	29			
08:00 AM		08:15 AM	0	0	1	2	0	0	1	3	7			
08:15 AM		08:30 AM	0	2	1	2	0	0	1	3	9			
08:30 AM							1 .			1	12			
08.30 AM		08:45 AM	2	0	7	2	0	0	0	1	12			
08:30 AM 08:45 AM		08:45 AM 09:00 AM	2 2	0 0	7 1	2 2	0	0	2	4	11			
					1		0		-					
				0	1	2	0		-					
08:45 AM		09:00 AM	2	0 H O U	1 RLY	2 T O T A	0 A L S	0	2	4	11			
08:45 AM 07:00 AM		09:00 AM 08:00 AM	1	0 H O U	1 R L Y 5	2 T O T A	0 A L S 7	0	2	4	11 64			
08:45 AM 07:00 AM 07:15 AM		09:00 AM 08:00 AM 08:15 AM	1 1	0 H O U 0 0	1 R L Y 5 4	2 TOTA 35 36	0 A L S 7 5	1 1	11 12	4 6	64 65			
08:45 AM 07:00 AM 07:15 AM 07:30 AM	 	09:00 AM 08:00 AM 08:15 AM 08:30 AM	1 1 1	0 H O U 0 0 2	1 R L Y 5 4 4	2 TOTA 35 36 33	0 A L S 7 5 0	1 1 0	11 12 13	4 6 8	64 65 61			

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	48	10	2	5	65
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	1	6	40	18	65

PROJECT:			IC COU			O VALLI	EY			Y DATE			12/6/2010		DAY:	TUESDA		
N-S APPROACI E-W APPROAC			MARIA ON WAY		E					Y TIME: DICTION			2:00 PM O VALI		TO FILE:	4:00 3612100		
PEAK HOU								NORTH			-			DEPARTU				
İ			0	283	47	0						PHF =	0.82]				
	ſ			1	_		JAMISC	ON WAY					330	254				
]	1	1					←	78					 	1		PHF = 0.84		
	1	→	L	60	<u> </u>		\leftarrow	46		[3	←			←	73		
DRIVEWAY	1	<u></u>	ıΩ	\uparrow	1		$\overline{\Box}$	0			PHF = 0.75		1	1				
ı			0	1	175	25							330	201				
<u> </u>			SANTA N	MARIA A										PHF =	0.76]		
	RIOD		NORTI					HBOUNI				BOUND				BOUND		TOTAL
From	То	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU R V E Y		U-TURN A T A	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	
2:00 PM to	2:15 PM	0	0	51	6		13	44	1	AIA	0	0	1		11	0	18	145
	2:30 PM	0	0	111	12		24	101	1		0	0	1		16	0	42	308
	2:45 PM	0	0	150	18		32	173	1		0	0	2		30	0	55	461
2:45 PM to	3:00 PM	0	1	187	24		40	266	1		1	0	2		43	2	78	645
3:00 PM to	3:15 PM	0	1	226	31		60	327	1		1	1	2		57	3	96	806
3:15 PM to	3:30 PM	1	2	275	37		70	378	2		1	2	2		73	3	112	958
3:30 PM to	3:45 PM	1	3	323	46		86	433	2		2	2	3		84	3	133	1121
3:45 PM to	4:00 PM	1	4	374	48		97	486	2		2	2	3		92	3	152	1266
						1	TOT.	AL B	Y P	ERIO	D			T				ı
	2:15 PM	0	0	51	6	0	13	44	1	0	0	0	1	0	11	0	18	145
	2:30 PM	0	0	60	6	0	11	57	0	0	0	0	0	0	5	0	24	163
	2:45 PM	0	0	39	6	0	8	72	0	0	0	0	1	0	14	0	13	153
	3:00 PM	0	1	37	7	0	8	93	0	0	1	0	0	0	13	2	23	184
	3:15 PM 3:30 PM	0	0	39 49	7 6	0	20 10	61 51	0	0	0	1	0	0	14 16	1 0	18 16	161 152
	3:45 PM	1	1	49	9	0	16	55	0	0	1	0	1	0	11	0	21	163
	4:00 PM		1	51	2	0	11	53	0	0	0	0	0	0	8	0	19	145
			•		-			JRLY		TAL		-			-			
2:00 PM to	3:00 PM	0	1	187	24	0	40	266	1	0	1	0	2	0	43	2	78	645
2:15 PM to	3:15 PM	0	1	175	25	0	47	283	0	0	1	1	1	0	46	3	78	661
2:30 PM to	3:30 PM	1	2	164	25	0	46	277	1	0	1	2	1	0	57	3	70	650
2:45 PM to	3:45 PM	1	3	173	28	0	54	260	1	0	2	2	1	0	54	3	78	660
3:00 PM to	4:00 PM	1	3	187	24	0 P F	57 A K	220 H O U	1 R S	0 U M M A	1 A R V	2	1	0	49	1	74	621
2:15 PM to	3:15 PM		NORTE	HBOUN	D	1 1		HBOUNI		O 1V1 1V1 /		BOUND)		WEST	TBOUND		TOTAL
		NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	
VOLUME		0	1	175	25	0	47	283	0	0	1	1	1	0	46	3	78	661
PHF BY MOVE		0.00	0.25	0.73	0.89	0.00	0.59	0.76	0.00	0.00	0.25	0.25	0.25	0.00	0.82	0.38	0.81	OVERALL
BICYCLE			0.7					82 0			0.			 		.84		0.90 0
PEDESTRIA			6					25			2					9		142
			N-L					EG			E-L					LEG		
PEDESTRIAN B	Y LEG:		11		,_,,,	32 - 127		0		BAYM		00				31		142

$\underline{B.A.Y.M.E.T.R.I.C.S.}$

PROJECT	Г:		TRAFF	IC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE	: :		12/6/2016	5	DAY:	TUESD	AY	
N-S APPR	COAC	CH:	SANTA	MARIA	AVENU	E				SURVE	Y TIME	:		2:00 PM	:	TO	4:00	PM	
E-W APPI	ROA	CH:	JAMISO	ON WAY	•					JURISI	ICTION	N:	CASTR	O VALL	EY	FILE:	3612100	-2MD	
	to			0	0			JAMISO	N WAY 0 0 0			TAL W-I 0			PEAK L BICYC	HOUR LE VOI	LUMES]	TAL E-E 0 0 0	IND
TIME	P	ERIOD	<u> </u>		0 MARIA A HBOUN		0	SOUTH	IBOUN	D		TOTAL	S-END	0	0	0 WEST	BOUND	1	TOTAL
From	1.	To	U-TURN	LEFT	THRU		U-TURN	LEFT	THRU		U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	RIGHT	TOTAL
									RVE		АТА								
2:00 PM	to	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	to	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	to	2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	to	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	to	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	to	3:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	to	3:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	to	4:00 PM	0	0	0	0	0	TOTA	0	0 3 Y P	ERIC	0) D	0	0	0	0	0	0	0
2:00 PM	to	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM		2:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	to	2:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	to	3:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	to	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	to	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	to	3:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	to	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
								HOU			TAL								
2:00 PM		3:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM		3:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM		3:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM		3:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	to	4:00 PM	U	U			32 - 127							AIL.CO		U	U	U	U
						· · / =							<u> </u>						

2:15 PM to 3:15 PM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	0	0	0	0	0

$\underline{B.A.Y.M.E.T.R.I.C.S.}$

PROJECT:		TRAFFIC	COUNT	S IN CAS	TRO VAI	LLEY		SURVEY	DATE:	12/6/2016	
N-S APPRO	ACH:							DAY:		TUESDA	
E-W APPRO									CTION:	CASTRO	
SURVEY PI				TO	4:00	PM		FILE:		3612100-2	
O2:15 PM DRIVEWAY	30 H	03:15 PM 1 0 0 0 CROSSWA SIDEWALE	F SANTA : LK	B B B B B B B B B B B B B B B B B B B	9 2 MISON C 95	N WAY D 5	W-LEG G&H BY LEG: N-LEG S-LEG	31 0 E&F S-LEG	EAK HO DESTRIAN 142	N-LEG A&B 11 100 BY DIRE NB(D+G) SB(C+H)	C&D E-LEG CTION: 6 125
	_	STOP CON STOP	TROL LI	NE			E-LEG W-LEG	100 31		EB (A+F) WB (B+E)	9
		3101					W-LEG	- 31]	(B (B L)	,
TIME	PEI	RIOD	NORTH	X-WALK	EAST X	-WALK	SOUTH	X-WALK	WEST X	K-WALK	
From		To	A	В	С	D	E	F	G	Н	TOTAL
				SU	RVEY	DAT	ГΑ				
02:00 PM		02:15 PM	0	0	2	2	0	1	1	1	7
02:15 PM		02:30 PM	0	1	2	3	0	1	1	1	9
02:30 PM		02:45 PM	1	7	51	3	0	1	2	18	83
02:45 PM		03:00 PM	2	9	79	6	0	1	2	31	130
03:00 PM		03:15 PM	2	9	97	7	0	1	2	31	149
03:15 PM		03:30 PM	2	9	101	15	0	3	2	32	164
03:30 PM		03:45 PM	2	9	111	15	0	4	2	32	175
03:45 PM		04:00 PM	2	9	114	15	0	4	4	34	182
				ТОТА	L BY	PEI	RIOD				
02:00 PM		02:15 PM	0	0	2	2	0	1	1	1	7
02:15 PM		02:30 PM	0	1	0	1	0	0	0	0	2
02:30 PM		02:45 PM	1	6	49	0	0	0	1	17	74
02:45 PM		03:00 PM	1	2	28	3	0	0	0	13	47
02:45 PM 03:00 PM		03:00 PM 03:15 PM	1 0		28 18	3	0	0	0	13	47 19
				2							
03:00 PM 03:15 PM		03:15 PM 03:30 PM	0	2	18	1	0	0	0	0	19 15
03:00 PM		03:15 PM	0	0 0	18 4	1 8	0	0 2	0	0 1	19
03:00 PM 03:15 PM 03:30 PM		03:15 PM 03:30 PM 03:45 PM	0 0 0	0 0 0	18 4 10 3	1 8 0 0	0 0 0	0 2 1	0 0 0	0 1 0	19 15 11
03:00 PM 03:15 PM 03:30 PM 03:45 PM		03:15 PM 03:30 PM 03:45 PM 04:00 PM	0 0 0 0	2 0 0 0 0 0 H O U	18 4 10 3	1 8 0 0 TOTA	0 0 0 0 A L S	0 2 1 0	0 0 0 2	0 1 0 2	19 15 11 7
03:00 PM 03:15 PM 03:30 PM 03:45 PM		03:15 PM 03:30 PM 03:45 PM 04:00 PM	0 0 0 0	2 0 0 0 0 0 HOU	18 4 10 3 R L Y	1 8 0 0 TOTA	0 0 0 0 A L S	0 2 1 0	0 0 0 2	0 1 0 2	19 15 11 7
03:00 PM 03:15 PM 03:30 PM 03:45 PM 02:00 PM 02:15 PM		03:15 PM 03:30 PM 03:45 PM 04:00 PM 03:00 PM 03:15 PM	0 0 0 0	2 0 0 0 0 0 HOU 9	18 4 10 3 R L Y 79 95	1 8 0 0 TOTA	0 0 0 0 A L S	0 2 1 0	0 0 0 2 2	0 1 0 2 31 30	19 15 11 7 130 142
03:00 PM 03:15 PM 03:30 PM 03:45 PM 02:00 PM 02:15 PM 02:30 PM		03:15 PM 03:30 PM 03:45 PM 04:00 PM 03:00 PM 03:15 PM 03:30 PM	0 0 0 0	2 0 0 0 0 0 HOU 9 9	18 4 10 3 R L Y 79 95 99	1 8 0 0 TOTA 6 5	0 0 0 0 0 A L S	0 2 1 0	0 0 0 2 2 1 1	0 1 0 2 31 30 31	19 15 11 7 130 142 155
03:00 PM 03:15 PM 03:30 PM 03:45 PM 02:00 PM 02:15 PM		03:15 PM 03:30 PM 03:45 PM 04:00 PM 03:00 PM 03:15 PM	0 0 0 0	2 0 0 0 0 0 H O U	18 4 10 3 R L Y 79 95	1 8 0 0 TOTA	0 0 0 0 A L S	0 2 1 0	0 0 0 2 2	0 1 0 2 31 30	19 15 11 7 130 142

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	6	125	2	9	142
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	11	0	100	31	142

PROJECT:	TRAFI	TC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE	:	1	2/6/201	6	DAY:	TUESD	AY	
N-S APPROACH:	SANTA	MARIA	AVENU	UE				SURVE	Y TIME:			4:00 PM	I	то	6:00	PM	
E-W APPROACH:	JAMIS	ON WAY	Y					JURISI	DICTION	:	CASTR	O VALI	LEY	FILE:	3612100	-2PM	
PEAK HOUR 4:15 PM to 5:15 F	'M					•	† NORTH				ARR	IVAL / 1	DEPARTU	JRE VO	LUMES		
		0	239	60	0] 1					PHF =	0.93]				
					U	JAMIS	ON WAY					299	338				
0						•	- 99					1	†		PHF = 0.94		
0	_ ⊬				-	-	- 4					↓	l			<u> </u>	
0	┪,	•	7.	21]	<i></i>	47			6	←			←	150		
2	\exists					<u> </u>	0			2	→		A	→	88		
DRIVEWAY	•	<u>. </u>	1	1						PHF = 0.50		<u> </u>	Ī				
					'	<u> </u>						289	270				
		SANTA	MARIA	AVENUI	28 E								PHF =	0.95]		
TIME PERIOD	,	NORT	HBOUN	D		SOUT	THBOUNI	D		EAST	BOUND	ı		WEST	TBOUND)	TOTAL
From To	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	
	_				1	SU	JRVE	Y I	ATA								•
4:00 PM to 4:15 F		0	56	3	0	18	48	0	0	0	0	0	0	11	0	21	157
4:15 PM to 4:30 F		0	115	7	0	30	116	0	0	0	0	1	0	24	0	40	333
4:30 PM to 4:45 F		0	174	15	0	38	182	0	0	0	0	1	0	38	2	64	514
4:45 PM to 5:00 F		2	232	26	0	61	233	0	0	0	0	1	0	53	2	89	699
5:00 PM to 5:15 F		2	295	31	0	78	287	0	0	0	0	2	0	58	4	120	878
5:15 PM to 5:30 F 5:30 PM to 5:45 F		2	355 389	34 40	1	94 110	333 375	1	0	0	1 4	3	0	68 79	5 5	145 175	1042 1187
5:45 PM to 6:00 F		5	472	45	1	129	410	1	0	0	5	3	0	87	6	209	1374
					1	ТОТ		BY P	ERIO								
4:00 PM to 4:15 F	M 0	0	56	3	0	18	48	0	0	0	0	0	0	11	0	21	157
4:15 PM to 4:30 F	M 0	0	59	4	0	12	68	0	0	0	0	1	0	13	0	19	176
4:30 PM to 4:45 F	M 0	0	59	8	0	8	66	0	0	0	0	0	0	14	2	24	181
4:45 PM to 5:00 F	M 0	2	58	11	0	23	51	0	0	0	0	0	0	15	0	25	185
5:00 PM to 5:15 F	M 1	0	63	5	0	17	54	0	0	0	0	1	0	5	2	31	179
5:15 PM to 5:30 F	M 0	0	60	3	0	16	46	1	0	0	1	1	0	10	1	25	164
5:30 PM to 5:45 F		2	34	6	1	16	42	0	0	0	3	0	0	11	0	30	145
5:45 PM to 6:00 F	M 0	1	83	5	0	19	35 LLD L X	0	0	0	1	0	0	8	1	34	187
400 PM			2		1 .		URLY		TAL		-						
4:00 PM to 5:00 F		2	232	26	0	61	233	0	0	0	0	1	0	53	2	89	699
4:15 PM to 5:15 F		2	239	28	0	60	239	0	0	0	0	2	0	47	4	99	721
4:30 PM to 5:30 F 4:45 PM to 5:45 F		2 4	240 215	27 25	0	64 72	217 193	1 1	0	0	1 4	2 2	0	44 41	5 3	105 111	709 673
5:00 PM to 6:00 F		3	240	25 19	1	68	193	1	0	0	5	2	0	34	<i>3</i>	120	675
2.50 2.11 10 0.00 1			-10	17		EAK	HOU		UMM					J.		.20	3,5
4:15 PM to 5:15 P	М	NORT	HBOUN	D		SOUT	THBOUNI	D		EAST	BOUND			WEST	TBOUND)	TOTAL
110	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	L
VOLUME PHF BY MOVEMENT	0.25	0.25	239 0.95	28 0.64	0.00	0.65	239 0.88	0.00	0.00	0.00	0.00	0.50	0.00	47 0.78	0.50	99 0.80	721 OVERALL
PHF BY APPROACH			.95	0.04	0.00		0.88	0.00	0.00	0.00		0.50	0.00		.94	0.00	0.97
BICYCLE			1			`	1			(0		2
PEDESTRIAN			10				11			(5		32
DEDECTRIANDVIE	<u>.</u>					S-			ļ				<u> </u>				22
FEDESTRIAN BY LEC	1.			(510) 2	22 12	71		ZMAII -	DAVM			AII CO	M		7		32
PEDESTRIAN BY LEC	it		TEL:	(510) 2	232 - 127		LEG 1	EMAIL:	BAYM		2	AIL.CO	M		Section 19 of the section of the sec		32

PROJECT	Г:		TRAFF	IC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE	:		12/6/2016	i	DAY:	TUESD	AY	
N-S APPR	ROAG	CH:	SANTA	MARIA	AVENU	J E				SURVE	Y TIME	:		4:00 PM		TO	6:00	PM	
E-W APPI	ROA	CH:	JAMISO	ON WAY						JURISI	ICTION	N:	CASTR	O VALL	EY	FILE:	3612100	-2PM	
PEAK HOUR 4:15 PM to 5:15 PM 0												TAL W-I			PEAK L BICYC 2 N-END 1	HOUR LE VOI	LUMES]	TAL E-E 0 0 0	IND
TIME	P	ERIOD	<u> </u>	SANTA	MARIA A	AVENUE		SOUTI	HROUN	D		TOTAL	S-END	2	1	1 WEST	BOUND	1	TOTAL
From	-	To	U-TURN	LEFT	THRU		U-TURN	LEFT	THRU		U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	RIGHT	1011111
			<u> </u>					SU	RVE	Y I	АТА								
4:00 PM	to	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
4:15 PM	to	4:30 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	4
4:30 PM	to	4:45 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	4
4:45 PM	to	5:00 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	4
5:00 PM	to	5:15 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	4
5:15 PM	to	5:30 PM		0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	4
5:30 PM	to	5:45 PM 6:00 PM		0	1 2	0	0	0	1	0	0	0	0	0	0	0	0	2 2	4 5
5:45 PM	to	0.00 PM	U	U	2	U	U	TOTA			ERIC		U	U	U	U	U		3
4:00 PM	to	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
4:15 PM		4:30 PM		0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
4:30 PM	to	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	to	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	to	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	to	5:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	to	5:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	to	6:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
100 == :				-		-			RLY		TAL				-	-			
4:00 PM		5:00 PM		0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	4
4:15 PM		5:15 PM		0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
4:30 PM		5:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM 5:00 PM		5:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 1
J.00 FIVI	ю	0.00 F M	U	U										AIL.CO		U	U	U	1
													<u></u>						

4:15 PM to 5:15 PM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	1	1	0	0	2

PROJECT:	TRAFFIC	COUNT	S IN CAS	TRO VAL	LEY		SURVEY	DATE:	12/6/2016	
N-S APPROACI	H: SANTA M	IARIA A'	VENUE				DAY:		TUESDA	Y
E-W APPROAC	H: JAMISON	WAY					JURISDI	CTION:	CASTRO	VALLE
SURVEY PERIO	OD: 4:00	PM	TO	6:00	PM		FILE:		3612100-2	2PM
PEAK FOR TO	05:15 PM 6 1 0 CROSSWA SIDEWALE STOP CON	F F SANTA I	B E MARIA AV	8 8	N WAY	W-LEG G&H BY LEG: N-LEG S-LEG E-LEG	9 1 E&F S-LEG 10 1 12	32	N-LEG A&B 10 12 BY DIRE NB(D+G) SB(C+H) EB(A+F)	C&D E-LEG CTION: 10 11 6
•	STOP	ı				W-LEG	9	I	WB(B+E)	5
	ERIOD		X-WALK	EAST X		SOUTH			K-WALK	mom
From	То	A	B	C R V E Y	D A T	Ε Α	F	G	H	TOTAL
04-00 PM	04:15 DM	2					2	0	2	7.2
04:00 PM	04:15 PM	3	0	3	1	1	2 2	0	3	13
04:15 PM 04:30 PM	04:30 PM 04:45 PM	7	1 2	5 7	1	2 2	2	0 3	4 5	19 29
	04:45 PM 05:00 PM	9	3	9	3	2 2	2	6	-	
04:45 PM 05:00 PM		9	4	11	5	2	2	6	6	40 45
	05:30 PM	13	5		6	2	4	8	10	43 64
			5	16 20		2		9		-
05:30 PM	05:45 PM	13			10	2 2	4	9	13	76
05:45 PM	06:00 PM	13	TOTA	L BY	10 PFI	RIOD	4	9	14	80
04:00 PM	04.15 DM	2	0			1	2	0	2	12
04:00 PM	04:15 PM	3		3	1	1	2	0	3	13
04:15 PM	04:30 PM	1	1	2	0	1	0	0	1	6
04:30 PM	04:45 PM	3	1	2	0	0	0	3	1	10
04:45 PM	05:00 PM	2	1	2	2	0	0	3	1	11
05:00 PM	05:15 PM	0	1	2	2	0	0	0	0	5
05:15 PM	05:30 PM	4	1	5	1	0	2	2	4	19
05:30 PM	05:45 PM	0	0	4	4	0	0	1	3	12
05:45 PM	06:00 PM	0	1	2 D I V	0 TOT	0	0	0	1	4
			$H \cup I$	RLY	TOT	ALS				
04.00 P) -	05.00	_			_	_	_	,		
04:00 PM	05:00 PM	9	3	9	3	2	2	6	6	40
04:15 PM	05:15 PM	6	3 4	8	4	1	0	6	3	32
04:15 PM 04:30 PM	05:15 PM 05:30 PM	6 9	3 4 4	8 11	4 5	1 0	0 2	6 8	3 6	32 45
04:15 PM 04:30 PM 04:45 PM	05:15 PM 05:30 PM 05:45 PM	6 9 6	3 4 4 3	8 11 13	4 5 9	1 0 0	0 2 2	6 8 6	3 6 8	32 45 47
04:15 PM 04:30 PM	05:15 PM 05:30 PM	6 9 6 4	3 4 4 3 3	8 11 13 13	4 5 9 7	1 0	0 2 2 2	6 8 6 3	3 6 8	32 45

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	10	11	6	5	32
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	10	1	12	9	32

PROJECT:		IC COU			O VALL	EY			Y DATE			12/6/201			TUESDA		
N-S APPROACH: E-W APPROACH:		MARIA RO VALL			5.D				Y TIME: DICTION		CASTR	7:00 AM		TO FILE:	9:00 3612100		
PEAK HOUR 7:30 AM to 8:30 A			MARIA A				† NORTH	JURISI	DICTION	<u>:</u>			DEPARTI			-3AM	
		178	0	142	0						PHF =	0.83]				
l			Ţ	(\bigcup		1					320	245				
157						1	548		_			 	†		PHF = 0.87		
682	╣ →	I	179	95		←	0		[[726 839	←			←	824		
CASTRO VALLEY BO	ULEVARI	<u> </u>	1	1			0		[PHF = 0.75		<u> </u>	†				
		0	0	0	0							0	0				
		DRIVEV			v								PHF =	0.00]		
TIME PERIOD		NORTI	HBOUNI	D		SOUT	HBOUN	D		EAST	BOUND)		WEST	BOUND		TOTAL
From To	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	
7:00 AM to 7:15 A	м			0		42	RVE	Y L	DATA	22	72	1		0	70	9	250
7:15 AM to 7:30 A				0		76	0	71		36	147	1		0	164	23	518
7:30 AM to 7:45 A				0		117	0	110		73	273	1		0	252	52	878
7:45 AM to 8:00 A	М			0		156	0	155		136	490	1		0	412	74	1424
8:00 AM to 8:15 A	М			0		197	0	210		167	696	1		0	561	92	1924
8:15 AM to 8:30 A	М			0		218	0	249		193	829	1		0	712	111	2313
8:30 AM to 8:45 A	М			1		240	0	274		214	940	1		0	854	128	2652
8:45 AM to 9:00 A	М			1		267	0	304	EDIO	236	1077	1		0	964	152	3002
						TOT			ERIO								T
7:00 AM to 7:15 A		0	0	0	0	42	0	34	0	22	72	1	0	0	70	9	250
7:15 AM to 7:30 AM 7:30 AM 7:45 AM		0	0	0	0	34 41	0	37 39	0	14 37	75 126	0	0	0	94 88	14 29	268 360
7:45 AM to 8:00 A		0	0	0	0	39	0	45	0	63	217	0	0	0	160	22	546
8:00 AM to 8:15 A		0	0	0	0	41	0	55	0	31	206	0	0	0	149	18	500
8:15 AM to 8:30 A		0	0	0	0	21	0	39	0	26	133	0	0	0	151	19	389
8:30 AM to 8:45 A		0	0	1	0	22	0	25	0	21	111	0	0	0	142	17	339
8:45 AM to 9:00 A		0	0	0	0	27	0	30	0	22	137	0	0	0	110	24	350
						JOH	JRLY	T (DTAL	S							
7:00 AM to 8:00 A		0	0	0	0	156	0	155	0	136	490	1	0	0	412	74	1424
7:15 AM to 8:15 A		0	0	0	0	155	0	176	0	145	624	0	0	0	491	83	1674
7:30 AM to 8:30 A		0	0	0	0	142	0	178	0	157	682	0	0	0	548	88	1795
7:45 AM to 8:45 A		0	0	1	0	123	0	164	0	141	667	0	0	0	602	76	1774
8:00 AM to 9:00 A	M 0	0	0	1	0 P E	111 E A K	0 H O U	149 R S	0 U M M A	100 A R Y	587	0	0	0	552	78	1578
7:30 AM to 8:30 AM	М	NORTI	HBOUNI	D			HBOUN				BOUND)		WEST	BOUND		TOTAL
	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	1
VOLUME PHF BY MOVEMENT	0.00	0.00	0.00	0 00	0.00	142 0.87	0.00	178	0.00	157 0.62	682 0.79	0 00	0.00	0.00	548	0.76	1795 OVERALL
PHF BY MOVEMENT	0.00	0.00		0.00	0.00		83	0.81	0.00		75	0.00	0.00		0.86	0.76	0.82
	1		0				2				2				1		5
BICYCLE													i –	_			81
			0				7				0				34		01
BICYCLE		N-L	0 . EG			S-I	7 . EG 4			E-L	0 .EG 7			W-1	LEG 0		81

PROJECT	PROJECT: TRAFFIC COUNTS IN CASTRO VALLEY I-S APPROACH: SANTA MARIA AVENUE									SURVEY DATE: 12/6/2016 DAY: TUESDAY									
N-S APPE	ROAC	CH:	SANTA	MARIA	AVENU	E				SURVE	Y TIME	:		7:00 AM		TO	9:00	AM	
E-W APP	ROA	СН:	CASTR	O VALL	EY BOU	LEVA	RD			JURISI	DICTION	V:	CASTR	O VALL	EY	FILE:	3612100	-3AM	
PEA 7:30 AM	to to	8:30 AM 0 1 1 0	LEVARD	0	MARIA A 0 5	2	0	1 1 1	0 1 0]]]		FAL W-I	2	TOTAL]]]	TAL E-F 4 1 3	END
TIME	Þ	ERIOD	I	DRIVEV	VAY HBOUNI	<u> </u>		SOUTI	HBOUN	D		TOTAL	S-END FBOUNE	0		WEST	BOUND	1	TOTAL
From	- 1.	To	U-TURN	LEFT	THRU		U-TURN	LEFT	THRU		U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	RIGHT	TOTAL
									RVE		АТА								
7:00 AM	to	7:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	to	7:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	to	7:45 AM	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	4
7:45 AM	to	8:00 AM		0	0	0	0	2	0	0	0	1	1	0	0	0	1	0	5
8:00 AM	to	8:15 AM		0	0	0	0	2	0	0	0	1	1	0	0	0	1	0	5
8:15 AM	to	8:30 AM		0	0	0	0	3	0	0	0	1	1	0	0	0	1	0	6
8:30 AM 8:45 AM	to	8:45 AM 9:00 AM		0	0	0	0	4 5	0	0	0	1	2 2	0	0	0	2 2	0	9 10
0.43 AW	ιο	9.00 AW	U	U	U	U	U	TOTA			ERIC	D		U	U	U	2	U	10
7:00 AM	to	7:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	to	7:30 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	to	7:45 AM	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	3
7:45 AM	to	8:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:00 AM	to	8:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM		8:30 AM		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	to	8:45 AM		0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	3
8:45 AM	Ю	9:00 AM	0	0	0	0	0	1 H O I	R L Y	0 T (0 D T A L	0 S	0	0	0	0	0	0	1
7:00 AM	to	8:00 AM	0	0	0	0	0	2	0	0	0	1	1	0	0	0	1	0	5
7:15 AM		8:15 AM		0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	4
7:30 AM		8:30 AM		0	0	0	0	2	0	0	0	1	1	0	0	0	1	0	5
7:45 AM		8:45 AM		0	0	0	0	3	0	0	0	0	1	0	0	0	1	0	5
8:00 AM	to	9:00 AM	0	0	0	0	0	3	0	0	0	0	1	0	0	0	1	0	5
<u></u>					TEL: ((510) 2	32 - 127	/ 1		EMAIL:	BAYM	ETRIC	S@GM.	AIL.CO	M				

7:30 AM to 8:30 AM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	0	2	2	1	5

B.A.Y.M.E.T.R.I.C.S. PEDESTRIAN MOVEMENT SUMMARY

PROJECT:		TRAFFIC	COUNT	S IN CAS	TRO VAI	LLEY		SURVEY	DATE:	12/6/2016	
N-S APPROA	ACH:	SANTA M	ARIA A	VENUE				DAY:		TUESDA	Y
E-W APPRO					VARD			JURISDI	CTION:	CASTRO	VALLE
SURVEY PE	RIOI): 7:00	AM	TO	9:00	AM		FILE:		3612100-	3AM
CASTRO VAI	O H LLEY	08:30 AM 0 G BOULEVA 26 18	A	E VAY	8 12 C 7) D 10	W-LEG G&H BY LEG: N-LEG S-LEG E-LEG	OTAL PEI	EAK HOIDESTRIAN 81	N-LEG A&B	C&D E-LEG
	_	STOP CON	I KOL LII	NE			W-LEG	0		$\mathbf{WB}(B+E)$	34
									1		
TIME	PE	RIOD	NORTH	X-WALK	EAST X	-WALK	SOUTH	X-WALK	WEST X	K-WALK	
From		To	A	В	С	D	E	F	G	H	TOTAL
					RVEY	DAT	ľΑ		1		1
07:00 AM		07:15 AM	0	3	0	0	1	4	0	0	8
07:15 AM		07:30 AM	0	3	1	7	7	8	0	0	26
07:30 AM		07:45 AM	0	4	2	11	7	12	0	0	36
07:45 AM		08:00 AM	5	4	3	14	21	19	0	0	66
08:00 AM		08:15 AM	8	6	6	17	31	20	0	0	88
08:15 AM		08:30 AM	12	11	8	17	33	26	0	0	107
08:30 AM		08:45 AM	14	15	10	18	34	31	0	0	122
08:45 AM		09:00 AM	19	16	10	18	37	35	0	0	135
				TOTA	L BY	PEF	RIOD				
07:00 AM		07:15 AM	0	3	0	0	1	4	0	0	8
07:15 AM		07:30 AM	0	0	1	7	6	4	0	0	18
07:30 AM		07:45 AM	0	1	1	4	0	4	0	0	10
07:45 AM		08:00 AM	5	0	1	3	14	7	0	0	30
08:00 AM		08:15 AM	3	2	3	3	10	1	0	0	22
							1		1		
08:15 AM		08:30 AM	4	5	2	0	2	6	0	0	19
08:15 AM 08:30 AM		08:30 AM 08:45 AM	4 2	5 4	2 2	0 1	2	6 5	0	0	19 15
			-		_	-	_			-	
08:30 AM		08:45 AM	2	4	2	1	1 3	5	0	0	15
08:30 AM		08:45 AM	2	4	2	1 0	1 3	5	0	0	15
08:30 AM 08:45 AM		08:45 AM 09:00 AM	2 5	4 1 H O U	2 0 R L Y	1 0 T O T A	1 3 A L S	5	0	0	15 13
08:30 AM 08:45 AM 07:00 AM		08:45 AM 09:00 AM 08:00 AM	5	4 1 H O U	2 0 R L Y	1 0 TOTA	1 3 A L S 21	5 4	0 0	0 0	15 13
08:30 AM 08:45 AM 07:00 AM 07:15 AM		08:45 AM 09:00 AM 08:00 AM 08:15 AM	2 5 5 8	4 1 HOU 4 3	2 0 R L Y 3 6	1 0 TOTA 14 17	1 3 A L S 21 30	5 4 19 16	0 0	0 0 0	15 13 66 80
08:30 AM 08:45 AM 07:00 AM 07:15 AM 07:30 AM		08:45 AM 09:00 AM 08:00 AM 08:15 AM 08:30 AM	5 8 12	4 1 H O U 4 3 8	2 0 RLY 3 6 7	1 0 TOTA 14 17 10	1 3 A L S 21 30 26	5 4 19 16 18	0 0 0 0 0 0	0 0 0 0 0 0	15 13 66 80 81

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	10	7	30	34	81
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	20	44	17	0	81

PROJECT:		IC COU			O VALL	EY			Y DATE:			12/6/2010			TUESDA		
N-S APPROACH: E-W APPROACH:		MARIA RO VALL			5.D				Y TIME: DICTION			2:00 PM O VALI		TO FILE:	4:00 3612100-		
PEAK HOUR 2:45 PM to 3:45 P			MARIA A				† NORTH	<u>JURISI</u>	DICTION	<u>:</u>			DEPARTU			SMID	
		167	1	209	0 [†						PHF =	0.87]				
			↓	\	U							377	306				
182						1 (803		<u>-</u>			 	1		PHF = 0.87		
853	-		230	50		<i>-</i>	0			970 1047	←			←	927		
L 12 CASTRO VALLEY BO	ULEVARI	<u> </u>	1	1	^		0			PHF = 0.92		1	1				
		0	0	0	9							13	9				
		DRIVEW	~	<u> </u>	,								PHF =	0.75]		
TIME PERIOD		NORTI	HBOUNI)		SOUT	HBOUNI	D		EAST	BOUND)		WEST	BOUND		TOTAL
From To	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	↓
2:00 PM to 2:15 P	м			4		37	RVE	Y L	ATA	40	150	2		0	192	38	507
2:15 PM to 2:30 PM				12		82	0	73		89	326	5		0	339	74	1000
2:30 PM to 2:45 P				19		144	0	125		129	506	10		0	489	106	1528
2:45 PM to 3:00 P	М			20		209	0	168		184	732	12		0	664	134	2123
3:00 PM to 3:15 P	М			22		258	0	217		221	967	17		0	885	158	2745
3:15 PM to 3:30 P	М			25		309	1	256		271	1162	19		0	1117	191	3351
3:30 PM to 3:45 P	M			28		353	1	292		311	1359	22		0	1292	230	3888
3:45 PM to 4:00 P	М			31		401	2	319	EDIO	362	1566	25		0	1449	252	4407
						TOT			ERIO								T
2:00 PM to 2:15 PM		0	0	4	0	37	0	44	0	40	150	2	0	0	192	38	507
2:15 PM to 2:30 PM 2:30 PM to 2:45 PM		0	0	8 7	0	45 62	0	29 52	0	49 40	176 180	3 5	0	0	147 150	36 32	493 528
2:45 PM to 3:00 Pl		0	0	1	0	65	0	43	0	55	226	2	0	0	175	28	595
3:00 PM to 3:15 PM	_	0	0	2	0	49	0	49	0	37	235	5	0	0	221	24	622
3:15 PM to 3:30 PM		0	0	3	0	51	1	39	0	50	195	2	0	0	232	33	606
3:30 PM to 3:45 Pi		0	0	3	0	44	0	36	0	40	197	3	0	0	175	39	537
3:45 PM to 4:00 P		0	0	3	0	48	1	27	0	51	207	3	0	0	157	22	519
						JOH	JRLY	Т (DTAL	S							
2:00 PM to 3:00 P		0	0	20	0	209	0	168	0	184	732	12	0	0	664	134	2123
2:15 PM to 3:15 P		0	0	18	0	221	0	173	0	181	817	15	0	0	693	120	2238
2:30 PM to 3:30 P		0	0	13	0	227	1	183	0	182	836	14	0	0	778	117	2351
2:45 PM to 3:45 P		0	0	9	0	209	1	167	0	182	853	12	0	0	803	124	2360
3:00 PM to 4:00 P	M 0	0	0	11	0 P E	192 E A K	HOU	151 R S	0 U M M <i>A</i>	178 A R Y	834	13	0	0	785	118	2284
2:45 PM to 3:45 PM	Л	NORTI	HBOUNI)			HBOUNI				BOUND)		WEST	BOUND		TOTAL
	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	1
VOLUME PHF BY MOVEMENT	0.00	0.00	0.00	9	0.00	209 0.80	0.25	167 0.85	0.00	182 0.83	853 0.91	12 0.60	0.00	0.00	803 0.87	124 0.79	2360 OVERALL
PHF BY MOVEMENT PHF BY APPROACH	0.00	0.00		0.73	0.00		87	0.03	0.00	0.83		0.00	0.00		.87	0.79	0.95
		0.7					1]	1				1		3
BICYCLE						_	22			7	5			4	57		163
	-	9															
BICYCLE		9 N-L 58	EG			S-I	EG				EG			W-	LEG 0		163

$\underline{B.A.Y.M.E.T.R.I.C.S.}$

PROJECT	Г:		TRAFF	IC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE	C:		12/6/2016	5	DAY:	TUESD	AY	
N-S APPE	COAC	CH:	SANTA	MARIA	AVENU	E					Y TIME			2:00 PM		TO	4:00	PM	
E-W APP	ROA	CH:	CASTR	O VALL	EY BOU	JLEVAF	RD			JURISI	DICTION	V:	CASTR	O VALL	EY	FILE:	3612100	-3MD	
	K HO to	UR 3:45 PM 0 1 0			MARIA A 0	AVENUE 0		J L U	0 1 0			TAL W-I			PEAK L BICYC N-END	HOUR CLE VOL	LUMES	TAL E-E	END
	0 0																		
	Pl																1		TOTAL
From		То	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU R V E		U-TURN A T A	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	
2:00 PM	to	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
2:15 PM	to	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
2:30 PM		2:45 PM		0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	3
2:45 PM	to	3:00 PM	0	0	0	0	0	1	0	1	0	0	1	0	0	0	1	1	5
3:00 PM	to	3:15 PM	0	0	0	0	0	1	0	1	0	0	1	0	0	0	1	1	5
3:15 PM	to	3:30 PM	0	0	0	0	0	1	0	1	0	0	1	0	0	0	2	1	6
3:30 PM	to	3:45 PM	0	0	0	0	0	1	0	1	0	0	1	0	0	0	2	1	6
3:45 PM	to	4:00 PM	0	0	0	0	0	1	0	1	0	0	2	0	0	0	2	2	8
			Ι.				T .	TOT			ERIC								
2:00 PM		2:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
2:15 PM 2:30 PM	to to	2:30 PM 2:45 PM	0	0	0	0	0	0 1	0	0	0	0	0	0	0	0	0	1	1
2:45 PM	to	3:00 PM	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
3:00 PM	to	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	to	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
3:30 PM	to	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	to	4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2
							1	HOU	JRLY	T (OTAL	S							
2:00 PM		3:00 PM		0	0	0	0	1	0	1	0	0	1	0	0	0	1	1	5
2:15 PM		3:15 PM		0	0	0	0	1	0	1	0	0	1	0	0	0	0	1	4
2:30 PM		3:30 PM		0	0	0	0	1	0	1	0	0	1	0	0	0	1	0	4
2:45 PM 3:00 PM	to to	3:45 PM 4:00 PM	0	0	0	0	0	0	0	1 0	0	0	1 1	0	0	0	1 1	0	3
J.00 FWI	Ю	7.00 F W	U	U			32 - 127							AIL.CO	-	U	1	1	3
						. /													

2:45 PM to 3:45 PM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	0	1	1	1	3

PROJECT:		TRAFFIC	COUNT	S IN CAS	TRO VAL	LEY		SURVEY	DATE:	12/6/2016	i			
N-S APPROA	ACH:	SANTA M	ARIA A	VENUE				DAY:		TUESDA	Y			
E-W APPRO	ACH:	CASTRO	VALLEY	BOULE	VARD			JURISDI	CTION:	CASTRO	VALLE			
SURVEY PE	RIOI	D: 2:00	PM	TO	4:00	PM		FILE:		3612100-	3MD			
TOTAL PEDESTRIAN VOLUMES 163 N-LEG														
								0		WB (B+E)	57			
TIME	PFI	RIOD	NORTH	X-WALK	EAST Y	WALK	SOUTH	X.WAI.K	WEST	C-WALK				
From	1 151	То	A	B	C	D	E	F	G	H	TOTAL			
110111					RVEY	DAT					101.12			
02:00 PM		02:15 PM	2	4	1	1	1	4	0	0	13			
02:15 PM		02:30 PM	4	7	1	5	6	5	0	0	28			
02:30 PM		02:45 PM	8	13	13	8	8	9	0	0	59			
02:45 PM		03:00 PM	16	20	24	10	23	21	0	0	114			
03:00 PM		03:15 PM	24	23	30	10	32	38	0	0	157			
03:15 PM		03:30 PM	28	30	35	14	38	46	0	0	191			
03:30 PM		03:45 PM	43	36	35	17	42	49	0	0	222			
03:45 PM		04:00 PM	50	48	39	18	51	57	0	0	263			
				ТОТА			RIOD							
02:00 PM		02:15 PM	2	4	1	1	1	4	0	0	13			
02:15 PM		02:30 PM	2	3	0	4	5	1	0	0	15			
02:30 PM		02:45 PM	4	6	12	3	2	4	0	0	31			
02:45 PM		03:00 PM	8	7	11	2	15	12	0	0	55			
03:00 PM		03:00 PM	8	3	6	0	9	17	0	0	43			
03:15 PM		03:30 PM	4	3 7	5	4	6	8	0	0	34			
03:30 PM		03:45 PM	15	6	0	3	4	3	0	0	31			
03:30 PM 03:45 PM		03:45 PM 04:00 PM	7	12	4	1	9	8	0	0	31 41			
03.43 FWI		04.00 PM	/	H O U		TOTA	1 - 1	٥	U	U	41			
02:00 PM		03:00 PM	16	20	24	10 17	23	21	0	0	114			
02:00 PM 02:15 PM			22	19	29	9		34						
02:15 PM 02:30 PM		03:15 PM					31		0	0	144			
		03:30 PM	24	23	34	9	32	41	0	0	163			
02:45 PM		03:45 PM	35	23	22	9	34	40	0	0	163			
03:00 PM	7	04:00 PM Tel : (510)	34 232-127	28	15 EMA 1	8 1 · RAV	28 METRIC	36 'S@GM/	O O O	0	149			
		(010)	12/	_	231,2711		.,	~ C G1/11		_				

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	9	22	75	57	163
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	58	74	31	0	163

N-S APPROACH: E-W APPROACH: PEAK HOUR 4:00 PM to 5:00 PM		A AVENUE LEY BOULEVAL MARIA AVENUE 9 193					Y TIME: DICTION		CASTR	4:00 PM O VALI		TO FILE:	6:00 3612100-		
PEAK HOUR 4:00 PM to 5:00 PM	SANTA	MARIA AVENUI			<u> </u>	JURISI	ICTION	:	CASTR	O VALI	LEY 1	FILE:	3612100-	-ЗРМ	
4:00 PM to 5:00 PM	<u> </u>		Ξ												
0	151	9 193	Ι Δ		NORTH				ARF	RIVAL / I	DEPARTU	JRE VO	LUMES		
0			0						PHF =	0.94]				
0	┌		U L		1					353	366				
1				•	158						†		PHF = 0.91		
206	→	2377	,	←	703		F	854		+			862		
931		2311	¹	←	1		L 		_			←			
15					0		<u> </u>	1152		ı	†	<u> </u>	1132		
CASTRO VALLEY BOU	LEVARD	1	^ [-	PHF = 0.88		→					
	▼ 1	*	l							25	10				
	0 DRIVE	WAY	8	* Illegal l	Movement	in RED					PHF =	0.50]		
TIME PERIOD	NORT	THBOUND		SOUTI	HBOUNE)		EAST	BOUND)		WEST	TBOUND		TOTAL
From To	U-TURN LEFT	THRU* RIGHT	U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	TOTAL
110	o Total EEFT	in in in	o rom.		RVEY		ATA	LLI I	mice	Mon	o rom,	LLI	mic	ragii i	<u>. </u>
4:00 PM to 4:15 PM		1 1		48	1	32		52	210	1		1	150	35	532
4:15 PM to 4:30 PM		1 3		93	5	77		93	492	5		1	333	73	1176
4:30 PM to 4:45 PM		2 7		142	6	116		147	719	10		1	506	117	1773
4:45 PM to 5:00 PM		2 8		193	9	151		206	931	15		1	703	158	2377
5:00 PM to 5:15 PM		2 23		231	12	184		248	1116	21		1	850	187	2875
5:15 PM to 5:30 PM		2 26		271	12	219		288	1311	26		1	1021	222	3399
5:30 PM to 5:45 PM		2 29		303	18	249		327	1557	31		1	1173	259	3949
5:45 PM to 6:00 PM		2 32		323 T.O.T.	20 A.I. D	276	EDIO	383 D	1766	35		1	1356	285	4479
400 DV 445 DV			1	ТОТ			ERIO		210				150	2.5	
4:00 PM to 4:15 PM		1 1	0	48	1	32	0	52	210	1	0	1	150	35	532
4:15 PM to 4:30 PM		0 2	0	45	4	45	0	41	282	4	0	0	183	38	644
4:30 PM to 4:45 PM 4:45 PM to 5:00 PM	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	1 4 0 1	0	49 51	1 3	39 35	0	54 59	227 212	5 5	0	0	173 197	44 41	597 604
5:00 PM to 5:15 PM		0 15	0	38	3	33	0	42	185	6	0	0	147	29	498
5:15 PM to 5:30 PM		0 3	0	40	0	35	0	40	195	5	0	0	171	35	524
5:30 PM to 5:45 PM		0 3	0	32	6	30	0	39	246	5	0	0	152	37	550
5:45 PM to 6:00 PM		0 3	0	20	2	27	0	56	209	4	0	0	183	26	530
				HOU	JRLY	<u>T</u> (DTAL	S							
4:00 PM to 5:00 PM	0 0	2 8	0	193	9	151	0	206	931	15	0	1	703	158	2377
4:15 PM to 5:15 PM	0 0	1 22	0	183	11	152	0	196	906	20	0	0	700	152	2343
4:30 PM to 5:30 PM	0 0	1 23	0	178	7	142	0	195	819	21	0	0	688	149	2223
4:45 PM to 5:45 PM		0 22	0	161	12	133	0	180	838	21	0	0	667	142	2176
5:00 PM to 6:00 PM	0 0	0 24	0 P E	130 A K	11 H O U	125 R S 1	0 U M M A	177	835	20	0	0	653	127	2102
4:00 PM to 5:00 PM	NORT	THBOUND			HBOUNE		U IVI IVI A		BOUND)	I	WEST	TBOUND		TOTAL
1.00 1 W1 10 3.00 FW1	NBU NBL	NBT NBR	SBU	SBL	SBT	SBR	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	TOTAL
VOLUME	0 0	2 8	0	193	9	151	0	206	931	15	0	1	703	158	2377
PHF BY MOVEMENT	0.00 0.00	0.50 0.50	0.00	0.95	0.56	0.84	0.00	0.87	0.83	0.75	0.00	0.25	0.89	0.90	OVERALL
PHF BY APPROACH BICYCLE		0	1		94 0			0.	88		<u> </u>		.91		0.92 2
PEDESTRIAN		12	1		7			6					55		135
		LEG			EG			E-L					LEG		
PEDESTRIAN BY LEG:		46			0				9				0		135
		TEL: (510) 2	32 - 127	1	Е	EMAIL:	BAYM	ETRIC	S@GM	AIL.CO	M				

PROJECT	Γ:		TRAFF	IC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE	: :		12/6/2016	5	DAY:	TUESD	AY	
N-S APPR	COAC	CH:	SANTA	MARIA	AVENU	E					Y TIME			4:00 PM		TO	6:00	PM	
E-W APP	ROA	сн:	CASTR	O VALL	EY BOU	JLEVAF	RD			JURISI	DICTION	V:	CASTR	O VALL	EY	FILE:	3612100)-3PM	
	K HO to	UR 5:00 PM		SANTA	MARIA A	AVENUE 0		1) 1 (0 2 0			TAL W-I			PEAK L BICYC	HOUR CLE VOI	LUMES	TAL E-F 2 - 2 - 0	END]]
	0 0															TOTAL			
From	P	To	U-TURN	NORT:	THRU		U-TURN	LEFT	HBOUN THRU		U-TURN	EAST LEFT	THRU		U-TURN	WES1	THRU	RIGHT	TOTAL
FIOIII		10	U-TURN	LEFI	IHKU	RIGHT	U-TUKN		RVE		A T A	LEFI	IHKU	KIGHT	U-TUKN	LEFI	IHKU	KIGHT	
4:00 PM	to	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
4:15 PM	to	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
4:30 PM	to	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
4:45 PM	to	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
5:00 PM	to	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
5:15 PM	to	5:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	4
5:30 PM	to	5:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	4
5:45 PM	to	6:00 PM	0	0	0	0	0	TOTA	0 A I I	0 3 Y P	E R I C	0	2	0	0	0	3	1	6
4:00 PM	to	4:15 PM	0	0	0	0	0	0	0	0	0	<u>رر ر</u>	0	0	0	0	1	0	1
4:00 PM 4:15 PM		4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	to	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	to	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
5:00 PM	to	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	to	5:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
5:30 PM	to	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	to	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
100===				-	-	-			RLY		TAL		_					_	
4:00 PM		5:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
4:15 PM 4:30 PM		5:15 PM 5:30 PM		0	0	0	0	0	0	0	0	0	0 2	0	0	0	1 1	0	3
4:30 PM 4:45 PM		5:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	3
	to	6:00 PM		0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	4
							32 - 127				BAYM			AIL.CO	M				

4:00 PM to 5:00 PM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	0	0	0	2	2

PROJECT:		TRAFFIC	COUNT	S IN CAS	TRO VAL	LEY		SURVEY	DATE:	12/6/2016	;			
N-S APPROA	CH:	SANTA M	ARIA A	VENUE				DAY:		TUESDA	Y			
E-W APPRO	ACH:	CASTRO	VALLEY	BOULE	VARD			JURISDI	CTION:	CASTRO	VALLEY			
SURVEY PE	RIOD	: 4:00	PM	TO	6:00	PM	_	FILE:		3612100-	3PM			
									1					
TIME	PER	RIOD	NORTH	X-WALK	EAST X-	-WALK	SOUTH	X-WALK	WEST X	K-WALK				
From		To	A	В	С	D	E	F	G	Н	TOTAL			
					RVEY	DAT	1							
04:00 PM		04:15 PM	8	7	4	2	7	11	0	0	39			
04:15 PM		04:30 PM	14	10	4	5	19	21	0	0	73			
04:30 PM		04:45 PM	17	17	5	7	27	26	0	0	99			
04:45 PM		05:00 PM	24	22	7	12	33	37	0	0	135			
05:00 PM		05:15 PM	27	25	11	12	35	45	0	0	155			
05:15 PM		05:30 PM	33	31	14	18	38	52	0	0	186			
05:30 PM		05:45 PM	39	35	19	20	45	57	0	0	215			
05:45 PM		06:00 PM	41	37	19	22	50	60	0	0	229			
				ТОТА	L BY	PEF	RIOD		1					
04:00 PM		04:15 PM	8	7	4	2	7	11	0	0	39			
04:15 PM		04:30 PM	6	3	0	3	12	10	0	0	34			
04:30 PM		04:45 PM	3	7	1	2	8	5	0	0	26			
04:45 PM		05:00 PM	7	5	2	5	6	11	0	0	36			
05:00 PM		05:15 PM	3	3	4	0	2	8	0	0	20			
05:15 PM		05:30 PM	6	6	3	6	3	7	0	0	31			
05:30 PM		05:45 PM	6	4	5	2	7	5	0	0	29			
05:45 PM		06:00 PM	2	2	0	2	5	3	0	0	14			
				HOU	RLY	TOTA	A L S							
04:00 PM		05:00 PM	24	22	7	12	33	37	0	0	135			
04:15 PM		05:15 PM	19	18	7	10	28	34	0	0	116			
04:30 PM		05:30 PM	19	21	10	13	19	31	0	0	113			
04:45 PM		05:45 PM	22	18	14	13	18	31	0	0	116			
			17	15	14 12	13 10	18 17	31 23	0	0	116 94			

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	12	7	61	55	135
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	46	70	19	0	135

PROJECT:		IC COUN		CASTR	O VALL	EY			Y DATE			12/6/2010			TUESDA		
N-S APPROACH: E-W APPROACH:		OOD ROA ON WAY							Y TIME: DICTION		CASTR	7:00 AM O VALI		TO FILE:	9:00 3612100		
PEAK HOUR 7:30 AM to 8:30 AM	_	OI WAI					↑ NORTH	<u> </u>		•			DEPARTU			471171	
		31	901	2	0						PHF =	0.87]				
			1	_	U I	DRIVE	WAY]					934	737				
7		Г	17	52	ī	<u>←</u>	0		l I	77	—	 	1		PHF = 0.00		
0	$] \longrightarrow$	_			ı	←	0			38				`	6		
31	1					\subseteq	0		֓֞֜֞֜֜֜֞֜֜֜֜֜֜֜֓֓֓֓֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	PHF =			†				
JAMISON WAY		\Box		1			1		<u> </u>	0.79	_	+	- 1				
		0	46	730	4							932	780		.		
		REDWO	OD ROA	AD									PHF =	0.79]		
TIME PERIOD		NORTH					HBOUNI				BOUND				BOUND		TOTAL
From To	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT S I I	THRU R V E		U-TURN A T A	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	<u> </u>
7:00 AM to 7:15 AN	1	16	95	0	0	0	217	7	MIA	4	0	7		0	0	0	346
7:15 AM to 7:30 AN		31	210	0	0	0	380	10		5	0	15		0	0	0	651
7:30 AM to 7:45 AM		36	425	1	0	0	585	17		5	0	21		0	0	0	1090
7:45 AM to 8:00 AM	1	53	652	3	0	0	813	25		8	0	30		0	0	0	1584
8:00 AM to 8:15 AM	1	67	778	4	0	1	1071	35		9	0	38		0	0	0	2003
8:15 AM to 8:30 AM	1	77	940	4	0	2	1281	41		12	0	46		0	0	0	2403
8:30 AM to 8:45 AM	1	83	1096	5	0	2	1452	45		13	0	51		2	0	0	2749
8:45 AM to 9:00 AN	1	95	1256	8	1	2	1632	50		15	0	64		2	1	0	3126
						TOT	AL B	Y P	ERIO	D							
7:00 AM to 7:15 AM	1 0	16	95	0	0	0	217	7	0	4	0	7	0	0	0	0	346
7:15 AM to 7:30 AM	1 0	15	115	0	0	0	163	3	0	1	0	8	0	0	0	0	305
7:30 AM to 7:45 AM	0	5	215	1	0	0	205	7	0	0	0	6	0	0	0	0	439
7:45 AM to 8:00 AM	1 0	17	227	2	0	0	228	8	0	3	0	9	0	0	0	0	494
8:00 AM to 8:15 AM	1 0	14	126	1	0	1	258	10	0	1	0	8	0	0	0	0	419
8:15 AM to 8:30 AM	1 0	10	162	0	0	1	210	6	0	3	0	8	0	0	0	0	400
8:30 AM to 8:45 AM		6	156	1	0	0	171	4	0	1	0	5	0	2	0	0	346
8:45 AM to 9:00 AM	1 0	12	160	3	1	0	180	5	0	2	0	13	0	0	1	0	377
					Ι.		JRLY		OTAL				1				
7:00 AM to 8:00 AM		53	652	3	0	0	813	25	0	8	0	30	0	0	0	0	1584
7:15 AM to 8:15 AN		51	683	4	0	1	854	28	0	5	0	31	0	0	0	0	1657
7:30 AM to 8:30 AN		46	730	4	0	2	901	31	0	7	0	31	0	0	0	0	1752
7:45 AM to 8:45 AN		47	671	4	0	2	867	28	0	8	0	30	0	2	0	0	1659
8:00 AM to 9:00 AM	1 0	42	604	5	1 P E	2 E A K	819 H O U	25 R S	0 U M M A	7 A R Y	0	34	0	2	1	0	1542
7:30 AM to 8:30 AM		NORTH					HBOUNI				BOUND				BOUND		TOTAL
	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	
VOLUME DUE DV MOVEMENT	0	46	730	0.50	0	2	901	31	0	7	0.00	31	0	0.00	0	0.00	1752 OVED AL I
PHF BY MOVEMENT PHF BY APPROACH	0.00	0.68	0.80	0.50	0.00	0.50	0.87	0.78	0.00	0.58	0.00 79	0.86	0.00	0.00	0.00	0.00	OVERALL 0.89
BICYCLE	1	1					0)				0		1
PEDESTRIAN	1	14					5)				2		21
		N-L					EG				EG				LEG		
PEDESTRIAN BY LEG: 0					_	0 19											
PEDESTRIAN BY LEG:		0			32 - 127		2		BAYM						19		21

PROJEC	Г:		TRAFF	IC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE	:		12/6/2016	5	DAY:	TUESD	AY	
N-S APPE	ROAC	CH:	REDWO	OOD RO	AD					SURVE	Y TIME	:		7:00 AM	[TO	9:00	AM	
E-W APP	ROA	сн:	JAMIS(ON WAY	?					JURISI	DICTION	V:	CASTR	O VALL	EY	FILE:	3612100	-4AM	
PEA 7:30 AM	7:30 AM to 8:30 AM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							DRIVEV	NORTH VAY 0 0 0 0]]]		TAL W-I	0	TOTAL	PEAK L BICYC 2 N-END 0	LE VOI]]]	TAL E-E	END]]
TIME	Pì	ERIOD						SOUTI	HBOUN	D		TOTAL	S-END FBOUNE	1		WEST	FBOUNE)	TOTAL
-			U-TURN				U-TURN	LEFT	THRU		U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	RIGHT	
			-				-	SU	RVE	Y I	АТА								•
7:00 AM	to	7:15 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
7:15 AM	to	7:30 AM		0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	5
7:30 AM	to	7:45 AM		0	1	0	0	0	4	1	0	0	0	0	0	0	0	0	6
7:45 AM	to	8:00 AM		0	1	0	0	0	4	1	0	0	0	0	0	0	0	0	6
8:00 AM	to	8:15 AM		0	1	0	0	0	4	1	0	0	0	0	0	0	0	0	6
8:15 AM 8:30 AM	to to	8:30 AM 8:45 AM		0	1 1	0	0	0	4 7	1	0	0	0	0	0	0	0	0	6 9
8:45 AM		9:00 AM		0	1	0	0	0	8	1	0	0	0	0	0	0	0	0	10
55 7 HVI		7.00 THVI	,	,	-		,	TOT		•	ERIC				,				
7:00 AM	to	7:15 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
7:15 AM	to	7:30 AM	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	4
7:30 AM	to	7:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	to	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	to	8:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	to	8:30 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	to	8:45 AM		0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
8:45 AM	to	9:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
7 00 13 1		0.00		-					RLY		OTAL		_						
7:00 AM		8:00 AM		0	1	0	0	0	4	1	0	0	0	0	0	0	0	0	6
7:15 AM		8:15 AM		0	1	0	0	0	3	1	0	0	0	0	0	0	0	0	5
7:30 AM		8:30 AM 8:45 AM		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1 2
7:45 AM 8:00 AM		9:00 AM		0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	3 4
0.00 AW		7.00 AW	J	J			32 - 127							AIL.CO		0	U	U	
						. /													

7:30 AM to 8:30 AM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	1	0	0	0	1

B.A.Y.M.E.T.R.I.C.S. PEDESTRIAN MOVEMENT SUMMARY

PEAK HOUR 07:30 AM TO 08:30 A 5 14 H G JAMISON WAY 2 0 LEGEND: CROSS SIDEW.	ON WAY OO AM A F REDWO WALK ALK ONTROL LI NORTH A	TO B B COOD ROAD INE H X-WALK B		AAY AY D O	W-LEG G&H BY LEG: N-LEG S-LEG E-LEG W-LEG	FILE: FOTAL PEI 19 2 E&F S-LEG		3612100- UR N-UDIM N-LEG A&B 0 BY DIRE NB(D+G) SB(C+H) EB(A+F) WB(B+E)	C&D E-LEG CTION: 14 5 0 2
PEAK HOUR O7:30 AM TO 08:30 A	A A REDWO	B B B B B B B B B B B B B B B B B B B	0 0 0 DRIVEW 0	AY D 0	W-LEG G&H BY LEG: N-LEG S-LEG E-LEG W-LEG SOUTH	FILE: FOTAL PEI 19 2 E&F S-LEG 0 19	PEAK HODESTRIAN 21	3612100- UR N-UDIM N-LEG A&B 0 BY DIRE NB(D+G) SB(C+H) EB(A+F) WB(B+E)	C&D E-LEG CTION: 14 5 0 2
PEAK HOUR	AFF	B B B B B B B B B B B B B B B B B B B	0 0 0 DRIVEW 0	AY D 0	W-LEG G&H BY LEG: N-LEG S-LEG E-LEG W-LEG SOUTH	19 19 2 2 E&F S-LEG 0 2 0 19	DESTRIAN 21	N-LEG A&B 0 BY DIRE NB(D+G) SB(C+H) EB(A+F) WB(B+E)	C&D E-LEG CTION: 14 5 0 2
TIME PERIOD To O7:00 AM TO O8:30 A O7:15 A O7:00 AM TO O8:30 A O7:15 A O7:15 A O7:00 AM O7:15 A O7:00 AM O7:15 A O7:15 A	F F REDWO	DOD ROAD NE H X-WALK B	DRIVEW C 0 0	D O	W-LEG G&H BY LEG: N-LEG S-LEG E-LEG W-LEG SOUTH	19 2 E&F S-LEG 0 2 0 19	DESTRIAN 21	N-LEG A&B 0 BY DIRE NB(D+G) SB(C+H) EB(A+F) WB(B+E)	C&D E-LEG CTION: 14 5 0 2
TIME PERIOD From To 07:00 AM 07:15 A	A	В	1		SOUTH	X-WALK		K-WALK	
From To 07:00 AM 07:15 A	A	В	1		_				TOTAL
07:00 AM 07:15 A			С	D	E	F	~		TOTAL
		CII				1'	G	H	TOTAL
		30	RVEY	DAT	ГΑ				
07:15 AM 07:30 A	M 0	0	0	0	0	0	1	2	3
07.30 F	M 0	0	0	0	0	0	1	7	8
07:30 AM 07:45 A	M 0	0	0	0	0	0	5	10	15
07:45 AM 08:00 A	M 0	0	0	0	1	0	12	11	24
08:00 AM 08:15 A	M 0	0	0	0	2	0	15	12	29
08:15 AM 08:30 A	M 0	0	0	0	2	0	15	12	29
08:30 AM 08:45 A	M 0	0	0	0	2	0	16	12	30
08:45 AM 09:00 A	M 0	0	0	0	2	0	16	16	34
		ТОТА	L BY	PEI	RIOD				
07:00 AM 07:15 A	M 0	0	0	0	0	0	1	2	3
07:15 AM 07:30 A	M 0	0	0	0	0	0	0	5	5
07:30 AM 07:45 A	M 0	0	0	0	0	0	4	3	7
07:45 AM 08:00 A	M 0	0	0	0	1	0	7	1	9
08:00 AM 08:15 A	M 0	0	0	0	1	0	3	1	5
08:15 AM 08:30 A		0	0	0	0	0	0	0	0
08:30 AM 08:45 A	M 0	0	0	0	0	0	1	0	1
08:45 AM 09:00 A		0	0	0	0	0	0	4	4
,		HOU	RLY	TOT	ALS	-			•
07:00 AM 08:00 A	M 0	0	0	0	1	0	12	11	24
07:15 AM 08:15 A		0	0	0	2	0	14	10	26
07:30 AM 08:30 A		0	0	0	2	0	14	5	21
07:45 AM 08:45 A		0	0	0	2	0	11	2	15
08:00 AM 09:00 A		0	0	0	1	0	4	5	10
	0) 232-12				METRIC				10

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	14	5	0	2	21
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	0	2	0	19	21

PROJECT:	CASTR	O VALL	EY			Y DATE			12/6/201		DAY:	TUESDA					
N-S APPROACH: E-W APPROACH:		OOD RO. ON WAY							Y TIME: DICTION		CASTR	2:00 PM O VALI		TO FILE:	4:00 3612100		
PEAK HOUR 2:30 PM to 3:30 PM	_	ON WAI					† NORTH	JUNISI	JIC HON	•			DEPART			-4WID	
ı		46	759	0	0						PHF =	0.86]				
1			Ţ	(U	DRIVE	VAY 					805	893				
28			18	39	ı	<u>←</u>	0		 	109	—	\	1	_	PHF = 0.63		
0		·			•	\leftarrow	11			79					10		
51							0		_	79		ı	*	-	10		
JAMISON WAY] [1	^]			PHF = 0.76		↓					
1		6	63	861	10							827	940				
		REDWO											PHF =	0.93]		
TIME PERIOD		NORTI					HBOUN				BOUND				BOUND		TOTAL
From To	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT S I I	THRU RVE		U-TURN A T A	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	<u> </u>
2:00 PM to 2:15 P	M 0	17	185	3		1	128	9		10	0	19		0	0	1	373
2:15 PM to 2:30 P	0 N	31	414	3		3	262	13		17	0	26		0	1	2	772
2:30 PM to 2:45 P		48	648	4		3	444	23		21	0	36		1	1	4	1234
2:45 PM to 3:00 P		62	863	8		3	658	35		32	0	44		5	1	4	1716
3:00 PM to 3:15 P		76	1051	11		3	878	48		38	0	64		9	1	6	2188
3:15 PM to 3:30 PM		94	1275	13		3	1021	59		45	0	77		11	1	6	2611
3:30 PM to 3:45 PM 3:45 PM to 4:00 PM		112 127	1470 1674	14 14		3	1207 1343	62 72		55 63	0	92 100		11 11	1	7 8	3040 3423
5.45 TW to 4.00 T	VI	127	10/4	14		TOT			ERIO		0	100		11	-	0	3423
2:00 PM to 2:15 P	M 0	17	185	3	0	1	128	9	0	10	0	19	0	0	0	1	373
2:15 PM to 2:30 P		14	229	0	0	2	134	4	0	7	0	7	0	0	1	1	399
2:30 PM to 2:45 P	M 1	17	234	1	0	0	182	10	0	4	0	10	0	1	0	2	462
2:45 PM to 3:00 P	M 0	14	215	4	0	0	214	12	0	11	0	8	0	4	0	0	482
3:00 PM to 3:15 P	M 2	14	188	3	0	0	220	13	0	6	0	20	0	4	0	2	472
3:15 PM to 3:30 P	м 3	18	224	2	0	0	143	11	0	7	0	13	0	2	0	0	423
3:30 PM to 3:45 P		18	195	1	0	0	186	3	0	10	0	15	0	0	0	1	429
3:45 PM to 4:00 P	0 N	15	204	0	0	1	136	10	0	8	0	8	0	0	0	1	383
2.00 PM	, ,	<i>(</i> 2	0.00	0	_		JRLY		OTAL		^	4.	_	-	4	4	1811
2:00 PM to 3:00 P		62 50	863	8	0	3	658 750	35	0	32	0	44	0	5	1	4	1716
2:15 PM to 3:15 PM 2:30 PM to 3:30 PM		59 63	866 861	8	0	2	750 750	39 46	0	28	0	45 51	0	9	1 0	5 4	1815 1839
2:30 PM to 3:30 PM 2:45 PM to 3:45 PM		63 64	861 822	10 10	0	0	759 763	46 39	0	28 34	0	51 56	0	11 10	0	3	1839
3:00 PM to 4:00 PM		65	811	6	0	1	685	37	0	31	0	56	0	6	0	4	1707
						EAK	HOU	R S	UMM	ARY							
2:30 PM to 3:30 PM		NORTH			CDII		HBOUNI		EDII		BOUND		MDII		BOUND		TOTAL
VOLUME	NBU 6	NBL 63	NBT 861	NBR 10	SBU 0	SBL 0	SBT 759	SBR 46	EBU 0	EBL 28	EBT 0	EBR 51	WBU 0	WBL 11	WBT 0	WBR 4	1839
PHF BY MOVEMENT	0.50	0.88	0.92	0.63	0.00	0.00	0.86	0.88	0.00	0.64	0.00	0.64	0.00	0.69	0.00	0.50	OVERALL
PHF BY APPROACH		0.9	93				86			0.	76			0.	.63		0.95
DICKCLE		2					1)				0		3
BICYCLE						- 1	01		I)		I		0		114
PEDESTRIAN		N-1.								T7_T				W	LEC		
		N-L	EG			S-I	ÆG 5				EG				LEG 09		114

$\underline{B.A.Y.M.E.T.R.I.C.S.}$

PROJECT	Т:		TRAFF	IC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE	E:		12/6/2016	i	DAY:	TUESD	AY	
N-S APPR	ROAC	CH:	REDWO	OOD RO	AD					SURVE	Y TIME	:		2:00 PM		TO	4:00	PM	
E-W APP	ROA	СН:	JAMIS(ON WAY	7					JURISI	DICTION	N:	CASTR	O VALL	EY	FILE:	3612100	-4MD	
2:30 PM	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							DRIVEV	NORTH VAY 0 0 0]	то	TAL W-I	END 0	TOTAL	PEAK L BICYC	LE VOI]]]	TAL E-E 0 0 0	END]]
TIME	Pì	ERIOD	<u>'</u>			AD		SOUTI	HBOUN	D		TOTAL	S-END FBOUNI	3			TBOUND)	TOTAL
-			U-TURN				U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	<u> </u>
			•				-	SU	RVE	Y I	АТА			•					•
2:00 PM	to	2:15 PM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
2:15 PM	to	2:30 PM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
2:30 PM	to	2:45 PM	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5
2:45 PM	to	3:00 PM	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5
3:00 PM	to	3:15 PM	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5
3:15 PM	to	3:30 PM	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5
3:30 PM	to	3:45 PM		0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5
3:45 PM	to	4:00 PM	0	0	2	0	0	0 T O T	3	0	0	0	0	0	0	0	0	0	5
								TOT			ERIC								
2:00 PM		2:15 PM		0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
2:15 PM		2:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	to	2:45 PM		0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	3
2:45 PM	to	3:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	to	3:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	to	3:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	to	3:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	to	4:00 PM	0	0	0	0	0	0	O J R L Y	0 T.(0 O T A L	0	0	0	0	0	0	0	0
2.00 PM	A.c.	3:00 PM		0		0	0						0	0	0	0		0	-
2:00 PM 2:15 PM		3:00 PM 3:15 PM		0	2 2	0	0	0	3	0	0	0	0	0	0	0	0	0	5
				0		0		0	1	0				0			0	0	3
2:30 PM		3:30 PM		0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	3
2:45 PM		3:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.00 PM	ιο	4.00 PM	U	U												U	U	U	U
	00 PM to 4:00 PM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													112.00					

2:30 PM to 3:30 PM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	2	1	0	0	3

PROJECT:		TRAFFIC	COUNT	S IN CAS	TRO VAL	LEY		SURVEY	DATE:	12/6/2016	
N-S APPROA	CH:	REDWOO	D ROAL)			DAY:		TUESDA	Y	
E-W APPRO	ACH:	JAMISON	WAY					JURISDI	CTION:	CASTRO	VALLEY
SURVEY PE	RIOD	: 2:00	PM	TO	4:00	PM	_	FILE:		3612100-	4MD
JAMISON WA	TO T	8 G 0 5	F	E OD ROAD	0 0 0 DRIVEWA	D D	W-LEG G&H BY LEG: N-LEG S-LEG E-LEG	109 109 5 E&F S-LEG	EAK HO DESTRIAN 114	N-LEG A&B 0	C&D E-LEG
-	_	STOP CON STOP	TROL LIN	NE			E-LEG W-LEG	109		WB (B+E)	0
	_	3101					W-LEG	103		W B (B · E)	U
TIME	PER	IOD	NORTH	X-WALK	EAST X-	WALK	SOUTH	X-WALK	WEST Y	K-WALK	
From		To	A	В	С	D	E	F	G	Н	TOTAL
				SU	RVEY	DAT	ГΑ				
02:00 PM		02:15 PM	0	0	0	0	2	2	4	3	11
02:15 PM		02:30 PM	0	0	0	0	2	2	7	3	14
02:30 PM		02:45 PM	0	0	0	0	2	7	10	51	70
02:45 PM		03:00 PM	0	0	0	0	2	7	10	86	105
03:00 PM		03:15 PM	0	0	0	0	2	7	13	104	126
03:15 PM		03:30 PM	0	0	0	0	2	7	15	104	128
03:30 PM		03:45 PM	0	0	0	0	2	7	18	106	133
03:45 PM		04:00 PM	0	0	0	0	2	10	20	117	149
				TOTA	L BY	PEF	RIOD				
02:00 PM		02:15 PM	0	0	0	0	2	2	4	3	11
02:15 PM		02:30 PM	0	0	0	0	0	0	3	0	3
02:30 PM		02:45 PM	0	0	0	0	0	5	3	48	56
02:45 PM		03:00 PM	0	0	0	0	0	0	0	35	35
03:00 PM		03:15 PM	0	0	0	0	0	0	3	18	21
03:15 PM		03:30 PM	0	0	0	0	0	0	2	0	2
03:30 PM		03:45 PM	0	0	0	0	0	0	3	2	5
03:45 PM		04:00 PM	0	0	0	0	0	3	2	11	16
				HOU	RLY	TOTA	ALS				
02:00 PM		03:00 PM	0	0	0	0	2	7	10	86	105
02:15 PM		03:15 PM	0	0	0	0	0	5	9	101	115
02:30 PM		03:30 PM	0	0	0	0	0	5	8	101	114
02:45 PM		03:45 PM	0	0	0	0	0	0	8	55	63
03:00 PM		04:00 PM	0	0	0	0	0	3	10	31	44

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	8	101	5	0	114
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	0	5	0	109	114

PROJECT:	ROJECT: TRAFFIC COUNTS IN CAS					EY		SURVE	Y DATE	:	1	12/6/201	6	DAY:	TUESD	AY	
N-S APPROACH:	REDW	OOD RO	OAD					SURVE	Y TIME:	;		4:00 PM	Ι '	то	6:00	PM	
E-W APPROACH:	JAMIS	SON WAY	Y					JURISI	DICTION	:	CASTR	O VALI	LEY	FILE:	3612100)-4PM	
PEAK HOUR 5:00 PM to 6:00	PM						† NORTH				ARR	RIVAL / 1	DEPARTU	JRE VO	LUMES		
		25	730	0	0						PHF =	0.93]				
					U l	DRIVE	WAY					755	1040				
0	\Rightarrow					•	4					I	†		PHF = 0.54		
20	<u> </u>	4	10	49	,	•	1		г	05		Ţ	- 1			<u> </u> 1	
0	_	>	19	47	1	\leftarrow	8		L	95	—			<u> </u>	13] 1	
61	\exists \neg	, 📖				<u>_</u>	0		<u> </u>	81			†		5]	
JAMISON WAY		1		1	 					PHF = 0.84		ţ					
		10		1016							ĺ	809	1100				
		REDW(69 OOD ROA	1016 AD	5								PHF =	0.93			
TIME PERIO	D	NORT	HBOUN	D		SOUT	HBOUN)		EAST	BOUND)		WEST	FBOUND)	TOTAL
From To	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	U-TURN	LEFT	THRU	RIGHT	
	-				-	SU	JRVE	Υ I	ATA				-				-
4:00 PM to 4:15	PM 1	19	209	3		0	165	7		2	0	9		1	0	0	416
4:15 PM to 4:30	PM 3	33	442	3		0	334	14		9	0	23		1	0	0	862
4:30 PM to 4:45		45	640	11		0	496	21		15	0	34		1	0	3	1270
4:45 PM to 5:00		65	879	14		2	671	28		19	0	49		4	0	8	1745
5:00 PM to 5:15		86	1088	15		2	857	32		26	0	66		8	1	9	2198
5:15 PM to 5:30		99	1354	16		2	1037	39		28	0	83		10	1	9	2688
5:30 PM to 5:45 5:45 PM to 6:00		116 134	1627 1895	19 19		2 2	1233 1401	47 53		31 39	0	96 110		11 12	1	11 12	3208 3694
3.43 1 W to 0.00	1 101	134	1075	1)		TOT			ERIO		0	110		12		12	3074
4:00 PM to 4:15	PM 1	19	209	3	0	0	165	7	0	2	0	9	0	1	0	0	416
4:15 PM to 4:30		14	233	0	0	0	169	7	0	7	0	14	0	0	0	0	446
4:30 PM to 4:45		12	198	8	0	0	162	7	0	6	0	11	0	0	0	3	408
4:45 PM to 5:00	PM 2	20	239	3	0	2	175	7	0	4	0	15	0	3	0	5	475
5:00 PM to 5:15	PM 2	21	209	1	0	0	186	4	0	7	0	17	0	4	1	1	453
5:15 PM to 5:30	PM 2	13	266	1	0	0	180	7	0	2	0	17	0	2	0	0	490
5:30 PM to 5:45		17	273	3	0	0	196	8	0	3	0	13	0	1	0	2	520
5:45 PM to 6:00	PM 2	18	268	0	0	0	168	6	0	8	0	14	0	1	0	1	486
					1		URLY) TAL								T
4:00 PM to 5:00		65	879	14	0	2	671	28	0	19	0	49	0	4	0	8	1745
4:15 PM to 5:15		67	879	12	0	2	692	25	0	24	0	57	0	7	1	9	1782
4:30 PM to 5:30 4:45 PM to 5:45		66 71	912 987	13 8	0	2	703 737	25 26	0	19 16	0	60 62	0	9 10	1 1	9 8	1826 1938
4:45 PM to 5:45 5:00 PM to 6:00		69	1016	8 5	0	0	730	25	0	20	0	61	0	8	1	8 4	1938
2.30 1.11 10 0.00		07	.510			AK	HOU		UMM			V1					
5:00 PM to 6:00			HBOUN				HBOUNI				BOUND				ΓΒΟUND		TOTAL
	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	<u> </u>
VOLUME PHF BY MOVEMEN	10 T 0.63	0.82	1016 0.93	5 0.42	0.00	0.00	730 0.93	25 0.78	0.00	0.63	0.00	0.90	0.00	0.50	0.25	0.50	1949 OVERALL
PHF BY MOVEMEN			.93	0.42	0.00		1.93	0./8	0.00	0.63		0.90	0.00		.54	0.30	0.94
BICYCLE			4				3			(0				0		7
PEDESTRIAN			18				6				0				0		24
DEDECTRIANDALE	G.		LEG				LEG			E-L					LEG 24		24
PEDESTRIAN BY LE	U.			(510) 2	22 122			ZNAAIT .	DAVA			AII CO	M	-	∠4		24
PEDESTRIAN BY LE	G:		0 TEL:	(510) 2	32 - 127		0 I	EMAIL:	BAYM		0 S@GM/	AIL.CO)M		24		24

PROJECT	Г:		TRAFF	IC COU	NTS IN	CASTR	O VALL	EY		SURVE	Y DATE	:		12/6/2016	5	DAY:	TUESD	AY	
N-S APPR	ROAG	CH:	REDWO	OOD RO	AD					SURVE	Y TIME	:		4:00 PM	:	TO	6:00	PM	
E-W APP	ROA	СН:	JAMIS(ON WAY						JURISI	DICTION	V:	CASTR	O VALL	EΥ	FILE:	3612100	-4PM	
5:00 PM	0 3 0 0 DRIVIDATION DRIVI							DRIVEV	NORTH VAY 0 0 0]]]	то	ΓΑL W-] 0	END 0	TOTAL	PEAK L BICYC 1 N-END 3	LE VOI]]]	TAL E-E 0 0	ND
TIME	P	ERIOD	<u>'</u>					SOUTI	HBOUN	D		TOTAL	S-END	7		WEST	BOUND)	TOTAL
			U-TURN				U-TURN	LEFT	THRU		U-TURN	LEFT	THRU		U-TURN	LEFT	THRU	RIGHT	
								SU	RVE	Y I	АТА								
4:00 PM	to	4:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
4:15 PM	to	4:30 PM		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
4:30 PM	to	4:45 PM		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
4:45 PM	to	5:00 PM		0	0	0	0	2	0	0	0	1	0	0	0	0	0	2	5
5:00 PM	to	5:15 PM	0	0	2	0	0	2	0	0	0	1	0	0	0	0	0	2	7
5:15 PM 5:30 PM	to to	5:30 PM 5:45 PM		0	3	0	0	2 2	2 2	0	0	1 1	0	0	0	0	0	2 2	10 10
5:45 PM	to	6:00 PM		0	4	0	0	2	3	0	0	1	0	0	0	0	0	2	10
3.13 1111	10	0.001141	· ·	•	'		V	TOTA			ERIC	•		Ü	V	-			
4:00 PM	to	4:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
4:15 PM	to	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	to	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	to	5:00 PM		0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	4
5:00 PM	to	5:15 PM		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:15 PM	to	5:30 PM		0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	3
5:30 PM 5:45 PM	to	5:45 PM 6:00 PM		0	0 1	0	0	0	0 1	0	0	0	0	0	0	0	0	0	0 2
5:45 PM	to	0.00 PM	U	Ü	1	U	U		J R L Y		O T A L		U	U	U	U	U	U	
4:00 PM	to	5:00 PM	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	2	5
4:15 PM		5:15 PM		0	2	0	0	2	0	0	0	0	0	0	0	0	0	2	6
4:30 PM		5:30 PM		0	3	0	0	2	2	0	0	0	0	0	0	0	0	2	9
4:45 PM		5:45 PM		0	3	0	0	2	2	0	0	0	0	0	0	0	0	2	9
5:00 PM	to	6:00 PM	0	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0	7
					TEL:	(510) 2	32 - 127	/ 1		EMAIL:	BAYM	ETRIC	S@GM.	AIL.CO	M				

5:00 PM to 6:00 PM					
APPROACH VOLUME	NB	SB	EB	WB	TOTAL
BICYCLE	4	3	0	0	7

PROJECT: TRAFFIC COUNTS IN CASTRO VALLEY SURVEY DATE: 12/									12/6/2016	i	
N-S APPROA	CH:	REDWOO	D ROAI)				DAY:		TUESDA	·Υ
E-W APPROACH: JAMISON WAY JURISDICTION: CASTRO VAL											VALLEY
SURVEY PE	RIOI	D: 4:00	PM	TO	6:00 1	PM		FILE:		3612100-	4PM
_	то 6 Н	06:00 PM	F REDWO	E OD ROAD	O O O DRIVEWA	† D 0	W-LEG G&H BY LEG S-LEG E-LEG	24 0 E&F S-LEG	EAK HO DESTRIAL 24	N-LEG A&B 0	C&D E-LEG CTION: 18 6
	<u> </u>	STOP	TKOL LII	NE			W-LEG	24		WB (B+E)	0
TIME	DEI	DIOD	NODEL	W WAT IZ	EACEV	137 A T T7	COLUTI	V WAT 17	MITTER S	Z 337 A T 3Z	
From	PEI	To	A	X-WALK B	EAST X-	D D	E	X-WALK F	G WEST 2	K-WALK H	TOTAL
Trom		10	А		RVEY	DAT			U		TOTAL
04:00 PM		04:15 PM	0	0	0	0	0	0	8	6	14
04:15 PM		04:30 PM	0	0	0	0	0	0	18	6	24
04:30 PM		04:45 PM	0	0	0	0	0	0	23	9	32
04:45 PM		05:00 PM	0	0	0	0	0	0	24	10	34
05:00 PM		05:15 PM	0	0	0	0	0	0	25	12	37
05:15 PM		05:30 PM	0	0	0	0	0	0	33	13	46
05:30 PM		05:45 PM	0	0	0	0	0	0	38	15	53
05:45 PM		06:00 PM	0	0	0	0	0	0	42	16	58
			-	ТОТА			RIOD				
04:00 PM		04:15 PM	0	0	0	0	0	0	8	6	14
04:15 PM		04:30 PM	0	0	0	0	0	0	10	0	10
04:30 PM		04:45 PM	0	0	0	0	0	0	5	3	8
04:45 PM		05:00 PM	0	0	0	0	0	0	1	1	2
05:00 PM		05:15 PM	0	0	0	0	0	0	1	2	3
05:15 PM		05:30 PM	0	0	0	0	0	0	8	1	9
05:30 PM		05:45 PM	0	0	0	0	0	0	5	2	7
05:30 PM 05:45 PM		05:45 PM 06:00 PM	0	0	0	0	0	0	3 4	1	5
03.43 PM		00.00 PM	U			TOTA		U	4	1	э
04:00 PM		05:00 PM	0	0	0	0	0	0	24	10	34
04:00 PM 04:15 PM		05:15 PM	0	0	0	0	0	0	17	6	23
04:30 PM			0	0	0		0	0		7	
		05:30 PM				0			15		22
04:45 PM		05:45 PM	0	0	0	0	0	0	15	6	21
05:00 PM		06:00 PM	0 232-12	71	0 FMAI	$\frac{0}{I \cdot RAV}$	0 METRIO	0 ~S@GM 4	18 II COA	6	24
Tel: (510) 232-1271 EMAIL: BAYMETRICS@GMAIL.COM											

12:00 AM to 12:00 AM					
VOLUME BY DIRECTION	NB	SB	EB	WB	TOTAL
PEDESTRIAN	18	6	0	0	24
VOLUME BY LEG	N-LEG	S-LEG	E-LEG	W-LEG	TOTAL
PEDESTRIAN	0	0	0	24	24