#### **EDR RECOVERED GOVERNMENT ARCHIVES**

#### Exclusive Recovered Govt. Archives

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 12/30/2013 Number of Days to Update: 182

Source: State Water Resources Control Board Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/13/2014

Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

## **COUNTY RECORDS**

## ALAMEDA COUNTY:

#### Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/21/2015 Date Data Arrived at EDR: 01/28/2015 Date Made Active in Reports: 02/26/2015

Number of Days to Update: 29

Source: Alameda County Environmental Health Services

Telephone: 510-567-6700 Last EDR Contact: 05/21/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Semi-Annually

## **Underground Tanks**

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/21/2015 Date Data Arrived at EDR: 01/28/2015 Date Made Active in Reports: 02/26/2015

Number of Days to Update: 29

Source: Alameda County Environmental Health Services

Telephone: 510-567-6700 Last EDR Contact: 05/21/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Semi-Annually

## AMADOR COUNTY:

**CUPA Facility List Cupa Facility List** 

> Date of Government Version: 03/09/2015 Date Data Arrived at EDR: 03/24/2015 Date Made Active in Reports: 03/31/2015

Number of Days to Update: 7

Source: Amador County Environmental Health

Telephone: 209-223-6439 Last EDR Contact: 06/05/2015

Next Scheduled EDR Contact: 09/21/2015

Data Release Frequency: Varies

#### **BUTTE COUNTY:**

**CUPA Facility Listing** Cupa facility list.

> Date of Government Version: 11/20/2014 Date Data Arrived at EDR: 11/24/2014 Date Made Active in Reports: 01/07/2015

Number of Days to Update: 44

Source: Public Health Department Telephone: 530-538-7149 Last EDR Contact: 04/14/2015

Next Scheduled EDR Contact: 04/27/2015 Data Release Frequency: No Update Planned

## CALVERAS COUNTY:

**CUPA Facility Listing** Cupa Facility Listing

> Date of Government Version: 04/17/2015 Date Data Arrived at EDR: 04/21/2015 Date Made Active in Reports: 05/07/2015

Number of Days to Update: 16

Source: Calveras County Environmental Health

Telephone: 209-754-6399 Last EDR Contact: 03/30/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

#### COLUSA COUNTY:

**CUPA Facility List** Cupa facility list.

> Date of Government Version: 06/11/2014 Date Data Arrived at EDR: 06/13/2014 Date Made Active in Reports: 07/07/2014 Number of Days to Update: 24

Source: Health & Human Services Telephone: 530-458-0396 Last EDR Contact: 06/12/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Varies

#### CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/26/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 13

Source: Contra Costa Health Services Department

Telephone: 925-646-2286 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Semi-Annually

## DEL NORTE COUNTY:

**CUPA Facility List** Cupa Facility list

> Date of Government Version: 05/19/2015 Date Data Arrived at EDR: 05/22/2015 Date Made Active in Reports: 06/05/2015

Number of Days to Update: 14

Source: Del Norte County Environmental Health Division

Telephone: 707-465-0426 Last EDR Contact: 05/18/2015

Next Scheduled EDR Contact: 08/17/2015

Data Release Frequency: Varies

## EL DORADO COUNTY:

CUPA Facility List CUPA facility list.

> Date of Government Version: 05/26/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/05/2015

Number of Days to Update: 7

Source: El Dorado County Environmental Management Department

Telephone: 530-621-6623 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

## FRESNO COUNTY:

#### **CUPA Resources List**

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 03/31/2015 Date Data Arrived at EDR: 04/15/2015 Date Made Active in Reports: 04/23/2015

Number of Days to Update: 8

Source: Dept. of Community Health Telephone: 559-445-3271 Last EDR Contact: 04/06/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Semi-Annually

## **HUMBOLDT COUNTY:**

CUPA Facility List CUPA facility list.

> Date of Government Version: 03/11/2015 Date Data Arrived at EDR: 03/13/2015 Date Made Active in Reports: 03/24/2015

Number of Days to Update: 11

Source: Humboldt County Environmental Health

Telephone: N/A

Last EDR Contact: 05/26/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

## IMPERIAL COUNTY:

CUPA Facility List Cupa facility list.

> Date of Government Version: 04/27/2015 Date Data Arrived at EDR: 04/28/2015 Date Made Active in Reports: 05/13/2015

Number of Days to Update: 15

Source: San Diego Border Field Office

Telephone: 760-339-2777 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

## INYO COUNTY:

CUPA Facility List Cupa facility list.

> Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 09/11/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 33

Source: Inyo County Environmental Health Services

Telephone: 760-878-0238 Last EDR Contact: 05/21/2015

Next Scheduled EDR Contact: 09/07/2015

Data Release Frequency: Varies

## KERN COUNTY:

Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

> Date of Government Version: 07/22/2014 Date Data Arrived at EDR: 11/12/2014 Date Made Active in Reports: 12/19/2014

Number of Days to Update: 37

Source: Kern County Environment Health Services Department

Telephone: 661-862-8700 Last EDR Contact: 06/12/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

#### KINGS COUNTY:

## **CUPA Facility List**

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolldates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/26/2015 Date Data Arrived at EDR: 05/28/2015 Date Made Active in Reports: 06/15/2015

Number of Days to Update: 18

Source: Kings County Department of Public Health

Telephone: 559-584-1411 Last EDR Contact: 05/21/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

#### LAKE COUNTY:

CUPA Facility List Cupa facility list

> Date of Government Version: 05/05/2015 Date Data Arrived at EDR: 05/07/2015 Date Made Active in Reports: 05/20/2015

Number of Days to Update: 13

Source: Lake County Environmental Health

Telephone: 707-263-1164 Last EDR Contact: 04/16/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Varies

## LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009 Date Data Arrived at EDR: 03/31/2009 Date Made Active in Reports: 10/23/2009

Number of Days to Update: 206

Source: EPA Region 9 Telephone: 415-972-3178 Last EDR Contact: 03/23/2015

Next Scheduled EDR Contact: 07/06/2015 Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014 Date Data Arrived at EDR: 01/30/2015 Date Made Active in Reports: 03/04/2015

Number of Days to Update: 33

Source: Department of Public Works Telephone: 626-458-3517 Last EDR Contact: 04/13/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/20/2015 Date Data Arrived at EDR: 04/20/2015 Date Made Active in Reports: 05/07/2015

Number of Days to Update: 17

Source: La County Department of Public Works

Telephone: 818-458-5185 Last EDR Contact: 04/20/2015

Next Scheduled EDR Contact: 08/03/2015

Data Release Frequency: Varies

#### City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009 Date Data Arrived at EDR: 03/10/2009 Date Made Active in Reports: 04/08/2009

Number of Days to Update: 29

Source: Engineering & Construction Division Telephone: 213-473-7869

Last EDR Contact: 04/15/2015

Next Scheduled EDR Contact: 08/03/2015

Data Release Frequency: Varies

## Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/15/2015 Date Data Arrived at EDR: 01/29/2015 Date Made Active in Reports: 03/10/2015

Number of Days to Update: 40

Source: Community Health Services Telephone: 323-890-7806 Last EDR Contact: 04/16/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Annually

## City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 04/02/2015 Date Made Active in Reports: 04/13/2015

Number of Days to Update: 11

Source: City of El Segundo Fire Department

Telephone: 310-524-2236 Last EDR Contact: 03/06/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Semi-Annually

## City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/03/2015 Date Data Arrived at EDR: 05/26/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 16

Source: City of Long Beach Fire Department

Telephone: 562-570-2563 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Annually

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/14/2015 Date Data Arrived at EDR: 04/23/2015 Date Made Active in Reports: 05/11/2015

Number of Days to Update: 18

Source: City of Torrance Fire Department

Telephone: 310-618-2973 Last EDR Contact: 04/13/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Semi-Annually

## MADERA COUNTY:

## **CUPA Facility List**

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/28/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/15/2015

Number of Days to Update: 17

Source: Madera County Environmental Health

Telephone: 559-675-7823 Last EDR Contact: 05/22/2015

Next Scheduled EDR Contact: 09/07/2015

Data Release Frequency: Varies

#### MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 10/08/2014 Date Data Arrived at EDR: 10/22/2014 Date Made Active in Reports: 12/15/2014

Number of Days to Update: 54

Source: Public Works Department Waste Management

Telephone: 415-499-6647 Last EDR Contact: 05/05/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Semi-Annually

#### MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 05/22/2015

Date Data Arrived at EDR: 05/26/2015

Date Made Active in Reports: 06/05/2015

Number of Days to Update: 10

Source: Merced County Environmental Health

Telephone: 209-381-1094

Last EDR Contact: 05/22/2015

Next Scheduled EDR Contact: 09/07/2015

Data Release Frequency: Varies

## MONO COUNTY:

CUPA Facility List CUPA Facility List

> Date of Government Version: 02/27/2015 Date Data Arrived at EDR: 03/06/2015 Date Made Active in Reports: 03/10/2015

Number of Days to Update: 4

Source: Mono County Health Department

Telephone: 760-932-5580 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015

Data Release Frequency: Varies

## MONTEREY COUNTY:

**CUPA Facility Listing** 

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 03/19/2015 Date Data Arrived at EDR: 03/20/2015 Date Made Active in Reports: 03/31/2015

Number of Days to Update: 11

Source: Monterey County Health Department

Telephone: 831-796-1297 Last EDR Contact: 05/26/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

#### NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011 Date Data Arrived at EDR: 12/06/2011 Date Made Active in Reports: 02/07/2012

Number of Days to Update: 63

Source: Napa County Department of Environmental Management

Telephone: 707-253-4269 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008 Source:

Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008

Number of Days to Update: 23

Source: Napa County Department of Environmental Management

Telephone: 707-253-4269 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: No Update Planned

**NEVADA COUNTY:** 

CUPA Facility List CUPA facility list.

> Date of Government Version: 02/12/2015 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/03/2015

Number of Days to Update: 18

Source: Community Development Agency

Telephone: 530-265-1467 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015

Data Release Frequency: Varies

**ORANGE COUNTY:** 

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2015 Date Data Arrived at EDR: 05/12/2015 Date Made Active in Reports: 06/05/2015

Number of Days to Update: 24

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 05/06/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2015 Date Data Arrived at EDR: 05/12/2015 Date Made Active in Reports: 06/08/2015

Number of Days to Update: 27

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 05/06/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2015 Date Data Arrived at EDR: 05/12/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 30

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 05/12/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

PLACER COUNTY:

## Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/12/2015 Date Made Active in Reports: 03/18/2015

Number of Days to Update: 6

Source: Placer County Health and Human Services

Telephone: 530-745-2363 Last EDR Contact: 06/21/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Semi-Annually

## RIVERSIDE COUNTY:

## Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/28/2015 Date Data Arrived at EDR: 04/30/2015 Date Made Active in Reports: 05/13/2015

Number of Days to Update: 13

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 03/23/2015

Next Scheduled EDR Contact: 07/06/2015 Data Release Frequency: Quarterly

## Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 04/28/2015 Date Data Arrived at EDR: 04/30/2015 Date Made Active in Reports: 05/13/2015

Number of Days to Update: 13

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 03/23/2015

Next Scheduled EDR Contact: 07/06/2015 Data Release Frequency: Quarterly

#### SACRAMENTO COUNTY:

## Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/02/2015 Date Data Arrived at EDR: 04/08/2015 Date Made Active in Reports: 04/16/2015

Number of Days to Update: 8

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 04/08/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Quarterly

## Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/02/2015 Date Data Arrived at EDR: 04/08/2015 Date Made Active in Reports: 04/16/2015

Number of Days to Update: 8

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 04/08/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Quarterly

## SAN BERNARDINO COUNTY:

## Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 03/02/2015 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/10/2015

Number of Days to Update: 7

Source: San Bernardino County Fire Department Hazardous Materials Division

Telephone: 909-387-3041 Last EDR Contact: 05/12/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

#### SAN DIEGO COUNTY:

## Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided In the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013 Date Data Arrived at EDR: 09/24/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 23

Source: Hazardous Materials Management Division

Telephone: 619-338-2268 Last EDR Contact: 06/05/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

#### Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2014 Date Data Arrived at EDR: 11/21/2014 Date Made Active in Reports: 12/29/2014

Number of Days to Update: 38

Source: Department of Health Services

Telephone: 619-338-2209 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

#### **Environmental Case Listing**

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010 Date Data Arrived at EDR: 06/15/2010 Date Made Active in Reports: 07/09/2010

Number of Days to Update: 24

Source: San Diego County Department of Environmental Health

Telephone: 619-338-2371 Last EDR Contact: 06/03/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: No Update Planned

#### SAN FRANCISCO COUNTY:

## Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008 Date Data Arrived at EDR: 09/19/2008 Date Made Active in Reports: 09/29/2008

Number of Days to Update: 10

Source: Department Of Public Health San Francisco County

Telephone: 415-252-3920 Last EDR Contact: 05/06/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

## Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010 Date Data Arrived at EDR: 03/10/2011 Date Made Active in Reports: 03/15/2011

Number of Days to Update: 5

Source: Department of Public Health

Telephone: 415-252-3920 Last EDR Contact: 05/06/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/24/2015 Date Data Arrived at EDR: 03/25/2015 Date Made Active in Reports: 03/31/2015

Number of Days to Update: 6

Source: Environmental Health Department

Telephone: N/A

Last EDR Contact: 03/23/2015

Next Scheduled EDR Contact: 07/06/2015 Data Release Frequency: Semi-Annually

#### SAN LUIS OBISPO COUNTY:

**CUPA Facility List** 

Cupa Facility List.

Date of Government Version: 05/22/2015 Date Data Arrived at EDR: 05/26/2015 Date Made Active in Reports: 06/10/2015

Number of Days to Update: 15

Source: San Luis Obispo County Public Health Department

Telephone: 805-781-5596 Last EDR Contact: 05/20/2015

Next Scheduled EDR Contact: 09/07/2015

Data Release Frequency: Varies

## SAN MATEO COUNTY:

**Business Inventory** 

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/13/2015 Date Data Arrived at EDR: 04/15/2015 Date Made Active in Reports: 04/23/2015

Number of Days to Update: 8

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921

Last EDR Contact: 06/15/2015

Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/16/2015 Date Data Arrived at EDR: 03/17/2015 Date Made Active in Reports: 03/24/2015

Number of Days to Update: 7

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 06/10/2015

Next Scheduled EDR Contact: 06/29/2015 Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:

**CUPA Facility Listing** 

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011 Date Data Arrived at EDR: 09/09/2011 Date Made Active in Reports: 10/07/2011

Number of Days to Update: 28

Source: Santa Barbara County Public Health Department

Telephone: 805-686-8167

Last EDR Contact: 05/22/2015 Next Scheduled EDR Contact: 09/07/2015

Data Release Frequency: Varies

## SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/23/2015 Date Data Arrived at EDR: 02/25/2015 Date Made Active in Reports: 03/03/2015

Number of Days to Update: 6

Source: Department of Environmental Health

Telephone: 408-918-1973 Last EDR Contact: 06/05/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005 Date Data Arrived at EDR: 03/30/2005 Date Made Active in Reports: 04/21/2005

Number of Days to Update: 22

Source: Santa Clara Valley Water District

Telephone: 408-265-2600 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014 Date Data Arrived at EDR: 03/05/2014 Date Made Active in Reports: 03/18/2014

Number of Days to Update: 13

Source: Department of Environmental Health

Telephone: 408-918-3417 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/07/2015 Date Data Arrived at EDR: 05/12/2015 Date Made Active in Reports: 06/08/2015

Number of Days to Update: 27

Source: City of San Jose Fire Department

Telephone: 408-535-7694 Last EDR Contact: 05/07/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Annually

SANTA CRUZ COUNTY:

**CUPA Facility List** 

CUPA facility listing.

Date of Government Version: 05/22/2015 Date Data Arrived at EDR: 05/26/2015 Date Made Active in Reports: 06/08/2015

Number of Days to Update: 13

Source: Santa Cruz County Environmental Health

Telephone: 831-464-2761 Last EDR Contact: 05/22/2015

Next Scheduled EDR Contact: 09/07/2015

Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 03/11/2015 Date Data Arrived at EDR: 03/13/2015 Date Made Active in Reports: 03/24/2015

Number of Days to Update: 11

Source: Shasta County Department of Resource Management

Telephone: 530-225-5789 Last EDR Contact: 05/26/2015

Next Scheduled EDR Contact: 09/07/2015

Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/13/2015 Date Data Arrived at EDR: 03/19/2015 Date Made Active in Reports: 03/24/2015

Number of Days to Update: 5

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 06/10/2015

Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Quarterly

**Underground Storage Tanks** 

Underground storage tank sites located in Solano county.

Date of Government Version: 03/13/2015 Date Data Arrived at EDR: 03/20/2015 Date Made Active in Reports: 03/31/2015

Number of Days to Update: 11

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 06/10/2015

Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Quarterly

SONOMA COUNTY:

**Cupa Facility List** Cupa Facility list

> Date of Government Version: 03/31/2015 Date Data Arrived at EDR: 04/02/2015 Date Made Active in Reports: 04/10/2015

Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department

Telephone: 707-565-1174 Last EDR Contact: 03/30/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2015 Date Data Arrived at EDR: 04/02/2015 Date Made Active in Reports: 04/13/2015

Number of Days to Update: 11

Source: Department of Health Services Telephone: 707-565-6565

Last EDR Contact: 03/30/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

SUTTER COUNTY:

**Underground Storage Tanks** 

Underground storage tank sites located in Sutter county.

Date of Government Version: 03/09/2015 Date Data Arrived at EDR: 03/10/2015 Date Made Active in Reports: 03/18/2015

Number of Days to Update: 8

Source: Sutter County Department of Agriculture

Telephone: 530-822-7500 Last EDR Contact: 06/05/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

**CUPA Facility List** Cupa facility list

> Date of Government Version: 05/05/2015 Date Data Arrived at EDR: 05/07/2015 Date Made Active in Reports: 05/13/2015

Number of Days to Update: 6

Source: Divison of Environmental Health

Telephone: 209-533-5633 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015

Data Release Frequency: Varies

**VENTURA COUNTY:** 

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 04/27/2015 Date Data Arrived at EDR: 05/22/2015 Date Made Active in Reports: 06/05/2015

Number of Days to Update: 14

Source: Ventura County Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 05/18/2015

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Quarterly

#### Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012

Number of Days to Update: 49

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 04/02/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Annually

## Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 37

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 05/18/2015

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Quarterly

#### Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 04/27/2015 Date Data Arrived at EDR: 04/29/2015 Date Made Active in Reports: 05/13/2015

Number of Days to Update: 14

Source: Ventura County Resource Management Agency

Telephone: 805-654-2813 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

## Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2015 Date Data Arrived at EDR: 03/18/2015 Date Made Active in Reports: 03/26/2015

Number of Days to Update: 8

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 03/18/2015

Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

## YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2015 Date Data Arrived at EDR: 04/01/2015 Date Made Active in Reports: 04/13/2015

Number of Days to Update: 12

Source: Yolo County Department of Health

Telephone: 530-666-8646

Last EDR Contact: 03/23/2015

Next Scheduled EDR Contact: 07/06/2015 Data Release Frequency: Annually

YUBA COUNTY:

**CUPA Facility List** 

CUPA facility listing for Yuba County.

Date of Government Version: 05/18/2015 Date Data Arrived at EDR: 05/19/2015 Date Made Active in Reports: 06/05/2015

Number of Days to Update: 17

Source: Yuba County Environmental Health Department

Telephone: 530-749-7523 Last EDR Contact: 05/18/2015

Next Scheduled EDR Contact: 08/17/2015

Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 45

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 05/18/2015

Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 04/29/2015 Date Made Active in Reports: 05/29/2015

Number of Days to Update: 30

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 04/14/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2015 Date Data Arrived at EDR: 05/06/2015 Date Made Active in Reports: 05/20/2015

Number of Days to Update: 14

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 05/06/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/21/2014 Date Made Active in Reports: 08/25/2014

Number of Days to Update: 35

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 04/16/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/15/2014 Date Made Active in Reports: 08/13/2014

Number of Days to Update: 29

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 05/26/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 03/19/2015 Date Made Active in Reports: 04/07/2015

Number of Days to Update: 19

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/11/2015

Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

#### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

#### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

#### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are

comparable across all states.

## Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## STREET AND ADDRESS INFORMATION

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## APPENDIX D

## REGULATORY AGENCY DOCUMENTATION

## Orchard Supply Hardware #050 (CERSID: 10081324)

## Facility Information Accepted Feb 25, 2015

Submitted on 2/25/2015 12:18:05 PM by justin ford of Orchard Supply Company, LLC (San Jose, CA) Submittal was Accepted on 2/25/2015 12:46:42 PM by Rick Miller

- · Business Activities
- · Business Owner/Operator Identification

#### Guldance Messages

• Warning:

1. Business Activities - The federal EPA ID Number for CERSID: 10081324 has changed from: 'CAL000191159' to 'CAL000389902'.

## Emergency Response and Training Plans Accepted Feb 25, 2015

Submitted on 2/25/2015 12:18:05 PM by justin ford of Orchard Supply Company, LLC (San Jose, CA) Submittal was Accepted on 2/25/2015 12:45:47 PM by Rick Miller

- Emergency Response/Contingency Plan
  - Emergency Response/Contingency Plan (Adobe PDF, 291KB)
- Employee Training Plan
  - · Employee Training Plan (Adobe PDF, 29KB)

## California Environmental Reporting System (CERS)

**Business Activities** 

## Site Identification

## Orchard Supply Hardware #050

777 Sunnyvale-Saratoga Road Sunnyvale, CA 94086 County Santa Clara CERS ID 10081324

EPA ID Number CAL000389902

## **Submittal Status**

Submitted on 2/25/2015 by justin ford of Orchard Supply Company, LLC (San Jose, CA)

Submittal was Accepted; Processed on 2/25/2015 by Rick Miller for Sunnyvale Department of Public Safety

#### Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?

Yes

## Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?

No

## Hazardous Waste

Is your facility a Hazardous Waste Generator?

Yes

Does your facility treat hazardous waste on-site?

No

is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?

No

Does your facility consolidate hazardous waste generated at a remote site?

No

Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?

No No

Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.

s your facility a Household Hazardous Waste (HHW) Collection site?

No

## Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?

No

Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.

No

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?

tal No

## Additional Information

No additional comments provided.

## California Environmental Reporting System (CERS)

**Business Owner Operator** 

Facility/Site

Orchard Supply Hardware #050

777 Sunnyvale-Saratoga Road

Sunnyvale, CA 94086

CERS ID 10081324

**Submittal Status** 

Submitted on 2/25/2015 by justin ford of Orchard Supply Company, LLC (San Jose, CA)

Submittal was Accepted; Processed on 2/25/2015 by Rick Miller for Sunnyvale Department of Public Safety

**Business Fax** 

Identification

Orchard Supply Company, LLC

Operator Phone (408) 732-7734

**Business Phone** (408) 732-7734

**Beginning Date** 

**Ending Date** 

Dun & Bradstreet 783266950

SIC Code 5251

Primary NAICS 44413

Facility/Site Mailing Address

6450 Via Del Oro San Jose, CA 95119

Jose Vera Title

Store Manager

**Business Phone** 

24-Hour Phone

Pager Number

(408) 250-9844 (408) 250-9844

NA

Owner

Orchard Supply Company, LLC

(408) 281-3500 6450 Via Del Oro San Jose, CA 95119 Secondary Emergency Contact

Primary Emergency Contact

Darryl Hirohama

Title

Assistant Manager

Business Phone (408) 264-1348 24-Hour Phone (408) 505-4723

Pager Number

NΑ

**Billing Contact** 

Gary Uecker

(408) 365-2670

gary.uecker@osh.com

6450 Via Del Oro

San Jose, CA 95119

**Environmental Contact** 

Justin Ford (408) 365-2786

6450 Via Del Oro San Jose, CA 95119

justin.ford@osh.com

Name of Signer

Justin Ford

**Environmental Compliance Manager** 

Signer Title

Document Preparer

Additional Information

Elizabeth Sanhueza

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Mardit Properties Limited Partnership

Phone

(408) 971-8000

Mailing Address P O Box 2098

Saratoga, CA 95070

Assessor Parcel Number (APN)

**Number of Employees** 

Facility ID

43-007-003523

## CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN

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BUSINESS NAME (Same as Fi Orchard Supply Ha					ness A.	s)									3.
BUSINESS SITE ADDRESS 777 Sunnyvale-Sai													-		103.
BUSINESS SITE CITY	atoga									104,	1	ZIP COI	)E		105.
Sunnyvale	···										CA	94086	3		
TYPE OF BUSINESS (e.g., Pai	nting Contr	actor)					A3.	INCID	ENTAL (	OPERA	TIONS (e.g.,	Fleet Mair	ntenance)		A4.
Hardware store															
THIS PLAN COVERS CHEMION 1. HAZARDOUS MATERI					-	AKES	SINVC	DLVING	: (Check	all that	apply)				A5.
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Whenever there is an imminen Emergency Coordinator is on cal 1. Activate internal facility alarn 2. Notify appropriate local autho 3. Notify the California Emerger	ll) shall: ns or comm prities (i.e., e	unicatio	ns systen 1).	ns, wh	iere ap	plicab	•					Coordinato	r (or his/	her designee v	hen the
Before facility operations are re Substances Control (DTSC), the with requirements to: 1. Provide for proper storage and the facility; and 2. Ensure that no material that cleanup procedures are compl	local Unifi d disposal o is incompat	ied Prog f recove	ram Age	ncy (l	UPA), tamina	and that	he loca oil or su	I fire dep urface wa	oartment'	s hazaro	dous material	s program	that the f	acility is in cor	npliance elease at
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NOTIFICATIONS TO NEIGHB	ORING FA					AFFE	CTED	BY AN	OFF-SIT	E RELI				all that apply)	C2.
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AGENCY NOTIFICATION PHO	ONE NUM	BERS:	CAL	IFOR	NIA D	EPT.	OF TO	XIC SU	BSTANC	CES CO	NTROL (DT	SC)	(916)	255-3545	
			REG	IONA	L WA	TER	QUAL	ITY CO	NTROL I	BOARE	)		(510)	622-2300	C8.
			U.S.	ENVI	IRONN	MENT	TAL PR	ROTECT	ION AG	ENCY (	US EPA)		(800)	300-2193	
			CAL	IFOR	NIA D	EPT (	OF FIS	H AND	GAME (	DFG).			(916)	358-2900	
										,			(202)	267-2180	1
														263-2800	
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					Specify							CII.			C12.
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D. EMERGENCY CONTAINMENT AND CLEANUP PROCEDURES	
SPILL PREVENTION, CONTAINMENT, AND CLEANUP PROCEDURES: (Check all boxes that apply to indicate your procedures for containing spills, relefires or explosions; and preventing and mitigating associated harm to persons, property, and the environment.)	
■ 1. MONITOR FOR LEAKS, RUPTURES, PRESSURE BUILD-UP, ETC.;	DI.
☑ 2. PROVIDE STRUCTURAL PHYSICAL BARRIERS (e.g., Portable spill containment walls);	
3. PROVIDE ABSORBENT PHYSICAL BARRIERS (e.g., Pads, pigs, pillows);	
☑ 4. COVER OR BLOCK FLOOR AND/ OR STORM DRAINS;	
☐ 5. BUILT-IN BERM IN WORK / STORAGE AREA;	
☑ 6. AUTOMATIC FIRE SUPPRESSION SYSTEM;	
7. ELIMINATE SOURCES OF IGNITION FOR FLAMMABLE HAZARDS (e.g. Flammable liquids, Propane);	
■ 8. STOP PROCESSES AND/OR OPERATIONS;	
☐ 9. AUTOMATIC / ELECTRONIC EQUIPMENT SHUT-OFF SYSTEM; ☐ 10. SHUT-OFF WATER, GAS, ELECTRICAL UTILITIES AS APPROPRIATE;	
☑ 10. SHOT-OFF WATER, GAS, ELECTRICAL OTHER AS AFFROMATE,  ☑ 11. CALL 9-1-1 FOR PUBLIC EMERGENCY RESPONDER ASSISTANCE / MEDICAL AID;	
■ 13. ACCOUNT FOR EVACUATED PERSONS IMMEDIATELY AFTER EVACUATION CALL;	
■ 14. PROVIDE PROTECTIVE EQUIPMENT FOR ON-SITE RESPONSE TEAM;	
☑ 15. REMOVE OR ISOLATE CONTAINERS / AREA AS APPROPRIATE;	
☑ 16. HIRE LICENSED HAZARDOUS WASTE CONTRACTOR;	
☑ 17. USE ABSORBENT MATERIAL FOR SPILLS WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;	
☐ 18. SUCTION USING SHOP VACUUM WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;	
☐ 19. WASH / DECONTAMINATE EQUIPMENT W/ CONTAINMENT and DISPOSAL OF EFFLUENT / RINSATE AS HAZARDOUS WASTE; ☑ 20. PROVIDE SAFE TEMPORARY STORAGE OF EMERGENCY-GENERATED WASTES;	
☑ 21. OTHER (Specify): Hazardous waste clean-up is completed by outside contractor	02.
Trazardous waste deali-up is completed by outside contractor	
E. FACILITY EVACUATION	
THE FOLLOWING ALARM SIGNAL(S) WILL BE USED TO BEGIN EVACUATION OF THE FACILITY (CHECK ALL THAT APPLY):	EI.
□ 1. BELLS;  □ 2. HORNS/SIRENS;	
3. VERBAL (I.E., SHOUTING);	
	2.
THE FOLLOWING LOCATION(S) IS/ARE EVACUEE EMERGENCY ASSEMBLY AREA(S) (i.e., Front parking lot, specific street corner, etc.)	E3.
Front parking lot	
Note: The Emergency Coordinator must account for all on site employees and/or site visitors after evacuation.	
☑ EVACUATION ROUTE MAP(S) POSTED AS REQUIRED	E4.
Note: The map(s) must show primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas, and must be prominently porthroughout the facility in locations where it will be visible to employees and visitors.	sted
F. ARRANGEMENTS FOR EMERGENCY SERVICES	
Explanation of Requirement: Advance arrangements with local fire and police departments, hospitals, and/or emergency services contractors should be made appropriate for your facility. You may determine that such arrangements are not necessary.	e as
ADVANCE ARRANGEMENTS FOR LOCAL EMERGENCY SERVICES (Check one of the following)	Fl.
<ul> <li>□ 1. HAVE BEEN DETERMINED NOT NECESSARY; or</li> <li>□ 2. THE FOLLOWING ARRANGEMENTS HAVE BEEN MADE (Specify):</li> </ul>	2.
<ol> <li>Contract with PAMF medical foundation for all employee injuries (650-934-7000)</li> <li>Contract with PSC emergency contractor for all haz mat and waste spills</li> </ol>	
2. Contract with 1 CO emergency contractor for all that that and waste spins	

#### CERS Consolidated Emergency Response / Contingency Plan - Page 3 of 4 Rev. 06/27/11 G. EMERGENCY EQUIPMENT Check all boxes that apply to list emergency response equipment available at the facility and identify the location(s) where the equipment is kept and the equipment's capability, if applicable. [e.g., 🛛 CHEMICAL PROTECTIVE GLOVES | Spill response kit | One time use, Oil & solvent resistant only.] **TYPE** EQUIPMENT AVAILABLE LOCATION CAPABILITY (If applicable) Safety 1. X CHEMICAL PROTECTIVE SUITS, APRONS, G3. Aisle 19 OR VESTS and 2. X CHEMICAL PROTECTIVE GLOVES G4 G5. First Aid Aisle 19 3. X CHEMICAL PROTECTIVE BOOTS G6. G7. Aisle 19 4. X SAFETY GLASSES / GOGGLES / SHIELDS G8 G9. Tool Corral 5. X HARD HATS G10 Gil Aisle 19 ▼ CARTRIDGE RESPIRATORS G12 G13. Aisle 19 7. SELF-CONTAINED BREATHING APPARATUS G14. G15. ▼ FIRST AID KITS / STATIONS G17 G16 Aisle 19 9. X PLUMBED EYEWASH FOUNTAIN / SHOWER Pick up station 10. PORTABLE EYEWASH KITS G20 G21 G23 11. X OTHER Pick up area Eye wash station refillable 12. OTHER G24 G25 13. X PORTABLE FIRE EXTINGUISHERS G26 G27 Fire Aisle 19 Fighting 14. ☐ FIXED FIRE SYSTEMS / SPRINKLERS / G29 FIRE HOSES 15. TIFIE ALARM BOXES OR STATIONS G30 G31. 16. OTHER Spill 17. X ALL-IN-ONE SPILL KIT G34 Pick up station Control G36 G37. 18. X ABSORBENT MATERIAL and Pick up station Clean-Up 19. X CONTAINER FOR USED ABSORBENT Pick up station 20. BERMING / DIKING EQUIPMENT G40 G41. Pick up station G43. 21. X BROOM G42 Aisle 19 22. X SHOVEL G44. G45 Aisle 19 G46 G47. 23. X SHOP VAC Aisle 19 24. EXHAUST HOOD G48 G49 G50. G51. 25. EMERGENCY SUMP / HOLDING TANK 26. CHEMICAL NEUTRALIZERS G52 G53. 27. GAS CYLINDER LEAK REPAIR KIT G54 G55. G56 G57. 28. SPILL OVERPACK DRUMS G58 G59 29. OTHER 30. X TELEPHONES (Includes cellular) Communi-Front cashier stations and help desk cations G62 G63 31. X INTERCOM / PA SYSTEM and Front cashier stations and help desk Alarm G65 32. X PORTABLE RADIOS Systems All team members 33. AUTOMATIC ALARM CHEMICAL G66 G67 MONITORING EQUIPMENT G68 G69

Duck tape Aisle 10

G71

34. X OTHER

35. OTHER

Other

H. EARTHQUAKE VU	LNERABILITY
Identify areas of the facility that are vulnerable to hazardous materials releases / spills do inspection.	ue to earthquake-related motion. These areas require immediate isolation and
VULNERABLE AREAS: (Check all that apply)  HI.	LOCATIONS (e.g., shop, outdoor shed, forensic lab)
■ 1. HAZARDOUS MATERIALS / WASTE STORAGE AREA	Pick up station waste storage area.
2. PROCESS LINES / PIPING	Н3.
3. LABORATORY	H4.
4. WASTE TREATMENT AREA	H5.
Identify mechanical systems vulnerable to releases / spills due to earthquake-related motion	n. These systems require immediate isolation and inspection.
VULNERABLE SYSTEMS: (Check all that apply)  H6.	LOCATIONS
☑ 1. SHELVES, CABINETS AND RACKS	Throughout store H7
2. TANKS (EMERGENCY SHUTOFF)	H8
☑ 3. PORTABLE GAS CYLINDERS	Propane tanks pick up station H9.
▼ 4. EMERGENCY SHUTOFF AND/OR UTILITY VALVES	Electrical room H10.
■ 5. SPRINKLER SYSTEMS	Throughout store HII.
6. STATIONARY PRESSURIZED CONTAINERS (e.g., Propane dispensing tank)	Propane at pick up
<del></del>	Tropano de pon ap
I. EMPLOYEE T	KAINING
<ul> <li>Explanation of Requirement: Employee training is required for all employees handling hincluding volunteers and/or contractors. Training must be:</li> <li>Provided within 6 months for new hires;</li> <li>Amended as necessary prior to change in process or work assignment;</li> <li>Given upon modification to the Emergency Response / Contingency Plan, and updated/r</li> </ul>	
<ul> <li>Hazard communication related to health and safety;</li> <li>Methods for safe handling of hazardous substances;</li> <li>Fire hazards of materials / processes;</li> <li>Conditions likely to worsen emergencies;</li> <li>Coordination of emergency response;</li> <li>Notification procedures;</li> <li>Peter Agrance</li> <li>Deter Agrance</li> <li>Eventualization of the procedures;</li> <li>Coordination procedures;</li> <li>Coordination of the procedures;</li> <li>Coordination of t</li></ul>	ommunication and alarm systems; rsonal protective equipment; the of emergency response equipment (e.g. Fire extinguishers, respirators, s.); the contamination procedures; the contamination procedures (if applicable).
INDICATE HOW EMPLOYEE TRAINING PROGRAM IS ADMINISTERED (Check all	that apply)
☑ 1. FORMAL CLASSROOM; ☐ 2. VIDEOS; ☑ 3. SAFETY / TAILGA	TE MEETINGS;
■ 4. STUDY GUIDES / MANUALS (Specify): Emergency action plan, monthly safety posting	gs, etc.
6. NOT APPLICABLE BECAUSE FACILITY HAS NO EMPLOYEES	
<ul> <li>Large Quantity Generator (LQG) Training Records: Large quantity hazardous waste hazardous waste per month) must retain written documentation of employee hazardous wase</li> <li>A written outline/agenda of the type and amount of both introductory and continuing responsibility for the management of hazardous waste (e.g., labeling, manifesting, comp</li> <li>The name, job title, and date of training for each hazardous waste management training so</li> <li>A written job description for each of the above job positions that describes job duties are to the position.</li> <li>Current employee training records must be retained until closure of the facility.</li> <li>Former employee training records must be retained at least three years after termination.</li> </ul>	te management training sessions which includes:  ng training that will be given to persons filling each job position having liance with accumulation time limits, etc.).  session given to an employee filling such a job position; and  and the skills, education, or other qualifications required of personnel assigned
J. LIST OF ATTA	CHMENTS
(Check one of the following)  ☑ 1. NO ATTACHMENTS ARE REQUIRED; or  ☐ 2. THE FOLLOWING DOCUMENTS ARE ATTACHED:	J1 J2
11. The Following Documents All Attaches.	

	EMPLOYEE TRAINING	G PLA	N	
	1. FACILITY INFORMATIO	)N		
	AME (Same as FACILITY NAME or DBA – Doing Business As) d Supply Hardware #050	I	FACILITY ID 13-007-003523	CERS ID# 10081324
ADDRESS	777 Sunnyvale-Saratoga Road Sunnyvale, CA 9408	6		
	2. TRAINING FOR PERSONN	EL	• .	
	Not applicable because facility has no employees			
Personne	l are trained in the following procedures:			
$\checkmark$	Internal alarm/notification			
$\checkmark$	Evacuation/re-entry procedures & assembly point location	18		
$\checkmark$	Emergency incident reporting			
$\checkmark$	External emergency response organization notification			•
<b>√</b>	Location(s) and contents of Emergency Response/Conting	gency Plan		
<b>√</b>	Facility evacuation drills, that are conducted at least: (Spe	cify: "Quart	erly", etc.)	
Chemical	3. TRAINING FOR CHEMICAL HA Handlers are additionally trained in the following:	NDLERS		
$\checkmark$	Safe methods for handling and storage of hazardous mater	rials		
$\checkmark$	Location(s) and proper use of fire and spill control equipn	nent		-
<b>√</b>	Spill procedures/emergency procedures			
$\checkmark$	Proper use of personal protective equipment			
<b>√</b>	Specific hazard(s) of each chemical to which they may be (i.e., inhalation, ingestion, absorption)			
<b>V</b>	Hazardous Waste Handlers/Managers are trained in all as specific to their job duties (e.g., container accumulation ti requirements, storage area inspection requirements, manif	me requirem	nents, labeling	anagement
<u> 1 6 4 7 7 </u>	4. EMERGENCY RESPONSE TI	EAM	<u> </u>	
	are capable of and engaged in the following: s section only if you have an in-house emergency response team			
	Personnel rescue procedures			
<b>√</b>	Shutdown of operations			
<b>√</b>	Liaison with responding agencies	-		
<b>√</b>	Use, maintenance, and replacement of emergency respons	e equipment	t	
$\checkmark$	Refresher training, which is provided at least annually		_	
<b>√</b>	Emergency response drills, which are conducted at least: (Specify: "Quarterly", etc.)	Code Ada	am-Quarterly	

	5. RECORD KEEPING						
The following records are maintained at the facility (Check all that apply).							
Note: This list of records does not necessarily identify every type of record required to be maintained by the							
facility.							
$\checkmark$	Current employees training records (to be retained until closure of the facility)						
<b>✓</b>	Former employees' training records (to be retained at least three years after termination of employment)						
$\checkmark$	Training Program(s) (i.e., written description of introductory and continuing training)						
$\checkmark$	Current copy of this Emergency Response/Contingency Plan						
<b>√</b>	Record of recordable/reportable hazardous material/waste releases						
<b>√</b>	Record of hazardous material/waste storage area inspections						
	Record of hazardous waste tank daily inspections						
$\checkmark$	Description and documentation of facility emergency response drills						

## **County of Santa Clara**

Department of Environmental Health

1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 www.Elfinfo.org



February 11, 2010

Mr. Tony Zarinelli
Pacific DSLA #2
P.O. Box 3060
Newport Beach, California 92658-9023

Subject:

Fuel Leak Site Case Closure Former Firestone Tire, 112 E. El Camino Real,

Sunnyvale, CA: Case No. 14-796, SCVWDID No. 06S2W36K01f

Dear Mr. Zarinelli:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code.

Please contact our office if you have any questions regardingthis matter.

Sincerely.

Ben Gale, Director

## **County of Santa Clara**

Department of Environmental Health

1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 www.EHInfo.org



February 11, 2010

Mr. Tony Zarinelli
Pacific DSLA #2
P.O. Box 3060
Newport Beach, California 92658-9023

Subject:

Fuel Leak Site Case Closure Former Firestone Tire, 112 E. El Camino Real,

Sunnyvale, CA; Case No. 14-796, SCVWDID No. 06S2W36K01f

Dear Mr. Zarinelli:

This letter transmits the enclosed underground storage tank (UST) case closure letter for the subject case in accordance with Chapter 6.75 (Section 25296.10 [g]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, all Local Oversight Programs (LOP) in the State are required to use this case closure letter for UST leak sites. The Santa Clara Valley Water District began transferring the LOP and all cases to the County of Santa Clara Department of Environmental Health on July 1, 2004. The County of Santa Clara is responsible for the issuance of the attached closure letter. The case closure summary is also enclosed. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

Please note the following conditions still remain at the site: residual contamination remains in soil of 71 parts per million (ppm) Total Petroleum Hydrocarbons as Diesel (TPHd), 210 ppm Total Oil and Grease, and 0.062 Aroclor 1260.

Residual contamination in soil remains at the site that could pose an unacceptable risk under certain site development activities such as site grading, excavation, or the installation of water wells. The County and the appropriate planning and building department shall be notified prior to any changes in land use, grading activities, excavation, and installation of water wells. This notification shall include a statement that residual contamination exists on the property and list all mitigation actions, if any, necessary to ensure compliance with this site management requirement. The levels of residual contamination and any associated site risk are expected to reduce with time.

Mr. Zarinelli February 11, 2010 Page 2 of 2

If you have any questions regarding the enclosed case closure form, please call Ms. Lani Lee of the Local Oversight Program at (408) 918-1977. Thank you.

Sincerely,

Nicole Pullman Program Manager

Hazardous Materials Compliance Division

Micole Pulman

Local Oversight Program

Attachments:

1. Case Closure Letter

2. Case Closure Summary

cc/enc:

Mr. David Charter, State Water Resources Control Board

Mr. Nathan King, Regional Water Quality Control Board

Ms. Lily Lee, Division of Clean Water Programs

Mr. Woody Lovejoy, TCG, 394 Cecilia Way, Tiburon, CA 94920

## **County of Santa Clara**

Environmental Resource Agency Department of Environmental Health



## CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

Date: January 29, 2010

## I. AGENCY INFORMATION

Agency Name: County of Santa Clara,	Address: 1555 Berger Drive, #300
Department of Environmental Health	
City/State/Zip: San Jose, CA 95112	Phone: (408) 918-3400
Responsible Staff Person: Lani Lee	Title: Hazardous Materials Specialist II

## II. CASE INFORMATION

Site Facility Name: Former Firestone Tire							
Site Facility Address	s: 112 E. El Ca	amino F	Real, Sunnyvale 9408	17			
RB LUSTIS Case N	o:	Local	Case No: 06S2W36I	<b>&lt;01f</b>	LOP Case No.: 14-796		
URF Filing Date:		SWE	EPS No.:		APN: 211-17	-001	
Responsible	Parties	Address			Phone Number		
Pacific DSLA #2 c/o Tony Zarinelli		P.O. Box 3060 Newport Beach, CA 92658-9023					
Tank I.D. No.			Contents	Place	Closed In e/Removed?	Date	
1	100		Hydraulic Fluid	F	Removed	5/09	
Piping							

## III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown								
Site characterization complete? Yes Date Approved by Oversight Agency: 1/29/10								
Monitoring wells installed? No	Monitoring wells installed? No Number: 0 Proper screened interval? NA							
Highest GW Depth Below	Lowest Depth:	> 60' Flow Direction: northerly*						
Ground Surface: > 60'								
Most Sensitive Current Use: Potential Drinking Water								

<sup>\*</sup> Groundwater flow reported for fuel leak investigations in the area of the site is between northwesterly to northerly to northeasterly.

Summary of Production Wells in Vicinity: There are no active water supply wells located within a ¼-mile radius of the site. An active environmental well was identified as being located onsite. Work was done to locate the well and it was not found. The SCVWD has changed the status of this well to abandoned.						
Are drinking water wells affected? No	Aquifer Name: Santa Clara Valley Basin					
Is surface water affected? No	Is surface water affected? No Nearest SW Name: Sunnyvale East Channel ~3,624 ft southeast					
Off-site Beneficial Use Impacts (Addresses/Location	Off-site Beneficial Use Impacts (Addresses/Locations): none.					
Reports on file? Yes Where are reports filed? County of Santa Clara,						
	Dept. of Environmental Health					

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL							
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date				
Tank	1 – 100-gal. steel	Disposed; 21 <sup>st</sup> Century EMI, Fernley, NV	7/09				
Piping	Not Reported	Disposed; 21 <sup>st</sup> Century EMI, Fernley, NV	7/09				
Free Product							
Soil	23 cubic yards	Disposed; Hay Road Landfill, Vacaville, CA	11/09				
Groundwater		a-					
Barrels	no.						

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP

(Please see Attachment 3 for additional information on contaminant locations and concentrations)

Soil	(ppm)	Water	(ppb)		Soil	(ppm)	Water	(ppb)
Before	After	Before	After	Contaminant	Before	After	Before	After
4.3 <sup>1</sup>	<0.243			Xylene	0.031	<0.0098 <sup>3</sup>		
15,0001	714			Ethylbenzene	0.005	<0.0049 <sup>3</sup>		
				_				
ND <sup>2</sup>	ND <sup>2</sup>			Oil & Grease	32,0001	210 <sup>3</sup>		**
0.0061	<0.0049 <sup>3</sup>			Heavy Metals	NA	NA		
2.81	<0.050 <sup>3</sup>			MTBE	ND <sup>2</sup>	ND <sup>2</sup>		
2.8 <sup>1</sup>	0.062 <sup>3</sup>			Acetone	0.36 <sup>1</sup>	<0.048 <sup>3</sup>		
	Before 4.3 <sup>1</sup> 15,000 <sup>1</sup> ND <sup>2</sup> 0.006 <sup>1</sup> 2.8 <sup>1</sup>	4.3 <sup>1</sup> <0.24 <sup>3</sup> 15,000 <sup>1</sup> 71 <sup>4</sup> ND <sup>2</sup> ND <sup>2</sup> 0.006 <sup>1</sup> <0.0049 <sup>3</sup> 2.8 <sup>1</sup> <0.050 <sup>3</sup>	Before         After         Before           4.3¹         <0.24³	Before         After         Before         After           4.3¹         <0.24³	Before         After         Before         After         Contaminant           4.3¹         <0.24³	Before         After         Before         After         Contaminant         Before           4.3¹         <0.24³	Before         After         Before         After         Contaminant         Before         After           4.3¹         <0.24³	Before         After         Before         After         Contaminant         Before         After         Before           4.3¹         <0.24³

Description of Interim Remediation Activities: soil removal

## NA – Not Analzyed Notes:

1. Soil sample D-1 collected 8 feet below the ground surface (ft bgs) in the underground storage tank (UST) excavation on 5/12/09.

2. All soil samples analyzed for these constituents were not reported to have concentrations present above the laboratory reporting limits.

3. Soil sample BD-1 collected at 10 ft bgs in the same excavation as sample D1 on 5/12/09. This confirmation soil sample was also reported to contain 10 ppm TPHd.

4. Soil sample HL7-4 collected at 16 ft bgs in the same excavation as HL7 on 9/29/09. This was the deepest excavation.

## IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Environmental Health Department staff does not make specific determinations concerning public health risk. However, it does not appear that the release would present a risk to human health.

Site Management Requirements: Residual contamination in soil remains at the site that could pose an unacceptable risk under certain site development activities such as site grading, excavation, or the installation of water wells. Therefore, the impact of the disturbance of any residual contamination shall be assessed and appropriate action taken so that there is no significant impact to human health, safety, or the environment. This could necessitate additional sampling, health risk assessment, and mitigation measures. DEH and the appropriate planning and building department shall be notified prior to any changes in land use, grading activities, and excavation. This notification shall include a statement that residual contamination exists on the property and list all mitigation actions, if any, necessary to ensure compliance with this site management requirement. The levels of residual contamination and any

associated site risk are expected to reduce with time.							
Should corrective action be reviewed if land use changes? Yes, See Site Management Requirements							
Number of Wells Commissioned:	Number of Wells	Number of Wells Retained: 0					
	0 Decommissioned: 0						
List Enforcement Actions Taken: None.							
List Enforcement Actions Rescinde	ed: None.						

## V. ADDITIONAL COMMENTS, DATA, ETC.

## Site History:

2009 – In May, 6 hydraulic lifts and an underground storage tank (UST) were removed from the site. The UST was reported to have contained hydraulic oil. Soil samples (HL1 through HL5 and HL7) were collected beneath the hydraulic lifts at depths of 6.5-9.5 feet below the ground surface. None of these samples were reported to contain Polychlorinated Biphenyls (PCBs) above the laboratory reporting limit.

Sample HL1 (7 ft bgs) was reported to contain 85 parts per million (ppm) Total Petroleum Hydrocarbons as Diesel (TPHd) and 210 ppm Hydrocarbon Oit Range Organics (HORO). TPH as Gasoline (TPHg), Fuel Oxygenates (FOs) and Volatile Organic Compounds (VOCs) were not reported to be present above the laboratory reporting limits. Additional excavation was conducted in June in this area and sample HL1-2 was collected from 9.5 ft bgs and was reported to contain 3,500 ppm TPHd and 4,700 ppm HORO. In August, additional soil was removed and sample HL1-3 was collected at 11.5 ft bgs and reported to contain 3.3 ppm TPHd and HORO was not present above the laboratory reporting limit.

Sample HL7 (6.5 ft bgs) was reported to contain 900 ppm TPHd and 2,700 ppm HORO. TPHg, FOs and VOCs were not reported to be present above the laboratory reporting limits. Additional excavation was conducted in June in this area and sample HL7-2 was collected from 11.5 ft bgs and was reported to contain 410 ppm TPHd and 750 ppm HORO. In August, additional soil was removed and sample HL703 was collected at 12 ft bgs and reported to contain 570 ppm TPHd and 1,500 ppm HORO.

2 soil samples (T1 and D1) were collected from beneath the UST. Sample T1 was collected from the bottom of the excavation at approximately 5 ft bgs and D1 was collected from stained soil within the excavation at 8 ft bgs. Additional soil was removed in the area of sample D1 from the excavation and sample BD1 was collected from 10 ft bgs. Sample D1 was reported to have the maximum concentrations of 4.3 ppm TPHg, 15,000 ppm TPHd, 32,000 ppm HORO, 0.360 ppm Acetone, 0.180 ppm 1,2,4-Trimethylbenzene, 2.8 ppm PCB 1248, 2.8 PCB-1260, and very low concentrations of other VOCs. Benzene and FOs were not reported to be present above the laboratory reporting limits.

Sample BD1 was reported to contain 84 ppm TPHd, 210 ppm HORO, and 0.062 ppm PCB-1260. All other Constituents of Concern (COCs) were not reported to be present above the laboratory reporting limits. Additional excavation was conducted in June and sample BD1-2 was collected from 12.5 ft bgs and reported to contain 10 ppm TPHd. HORO was not reported to be present above the laboratory reporting limit.

In September, a boring (SB2) was advanced to 60 ft bgs within the HL7 excavation. The boring was allowed to site for 3 hours and groundwater did not enter the boring. Soil samples were analyzed from 14 and 16 ft bgs. The 14 foot sample was reported to contain 22 ppm TPHd and 88 ppm HORO and the 16 foot sample was not reported to have either constituent present above the laboratory reporting limits.

Additional soil was removed from the HL7 excavation and sample HL7-4 was collected from 16 ft bgs and was reported to contain 71 ppm TPHd and 97 ppm HORO.

During review of this case, it was found that an environmental well was located onsite and was listed as being active. Work was completed to try to locate the well and it was never located. Based on the investigative work completed, the SCVWD has changed the status of this well from active to abandoned.

## Considerations and/or Variances:

Approximately 23 cubic yards of soil were removed from the site. Excavations were extended to approximately 16 ft bgs to remove impacted soil. Residual contamination remains in soil of 71 ppm TPHd, 210 ppm HORO, and 0.062 ppm Aroclor 1260. Benzene and MtBE were not reported to be present in any of the soil samples above the laboratory reporting limits.

Groundwater was not encountered during investigations onsite. First encountered groundwater is estimated to be present at depths of greater than 60 ft bgs.

There are no active water supply wells located within 1/4-mile of the site.

## Conclusion:

The Department of Environmental Health believes that the residual soil contamination at the site does not pose a continuing, significant threat to groundwater resources, human health, or the environment. Regional Water Quality Control Board objectives have not been compromised. The investigation was performed in accordance with state and local guidelines. The Department of Environmental Health recommends that this site be closed.

## VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Lani Lee	Title: Hazardous Materials Specialist II		
Signature:	Date: January 29, 2010		
Approved by: Nicole Pullman	Title: Program Manager		
Signature: Nicole Pullman	Date: 1/29/10		

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

Former Firestone Tire 112 E. El Camino Real, Sunnyvale 06S2W36K01f

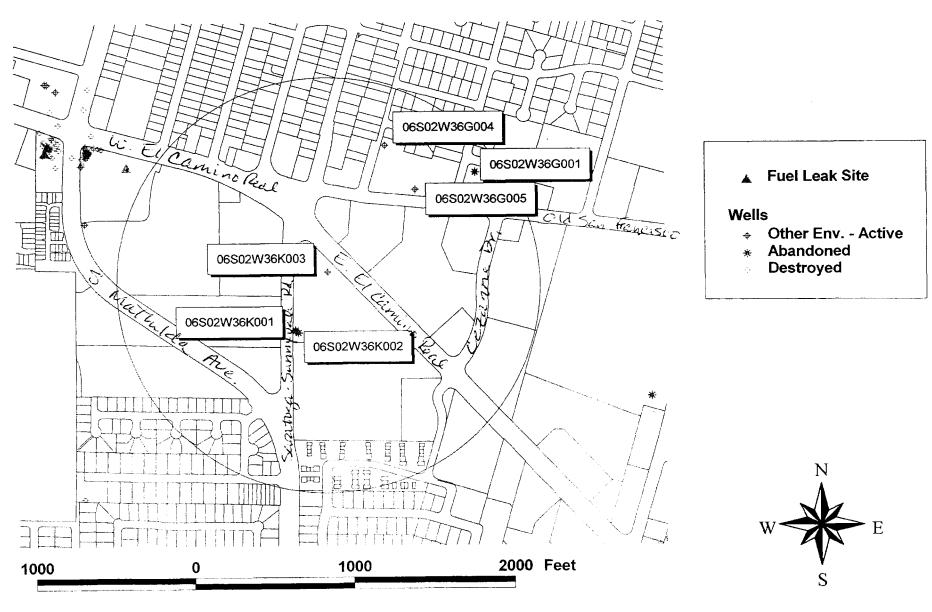
## **VII. REGIONAL BOARD NOTIFICATION**

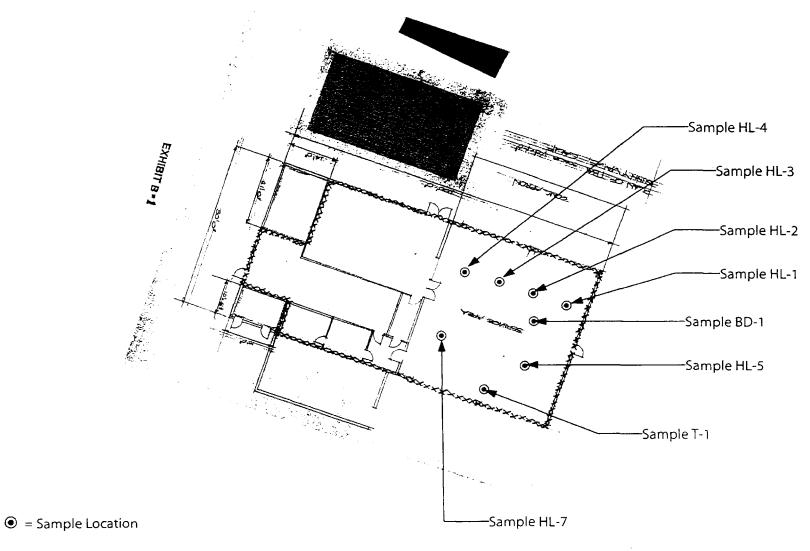
Regional Board Staff Name: Nathan King	Title: Engineering Geologist  Date Submitted to RB:	
RB Response: Concur based solely upon information contained in this case closure summary.		
Signature: And Date: Nathan King	Nathan King cn=Nathan King, o=RWQCB, ou=Toxics Cleanup Division, email=nking@waterboards.ca.gov, c=US	
And the second of the second o	2010.02.10 13:55:56 -08'00'	

- Attachments:
  1. Site Vicinity Map
  2. Site Plan
  3. Soil Analytical Data

This document and the related Case Closure Letter shall be retained by the lead agency as part of the official site file.

## Former Firestone Tire 112 E. El Camino Real, Sunnvyale 10/27/09







## THE CONSULTING GROUP 394 Cecilia Way, Tiburon, CA 94920

Tel: 415.381.2560 / Fax: 415.381.1741

J00 N0	092001				
Date 16 September 2009					
Drawn	.by	RC			
Rev	WL	Approd	WL		

## Sample Locations Sketch 112 E. El Camino Real Sunnyvale, CA

For: Tony Zarinelli
Pacific Development Group

PO. Box 3060 Newport Beach, CA 92658

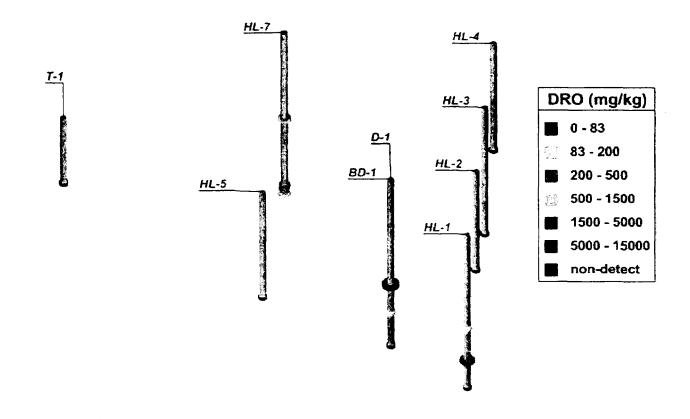
# Project N

Figure

2

plement 1/2 E. El Conino Sunny vely D-1, BD-1

D-1 - Dirty Soil, BD-1 - Below Dirty Soil





#### THE CONSULTING GROUP

394 Cecilia Way, Tiburon, CA 94920 Tel: 415.381.2560 / Fax: 415.381.1741

Job No	<sup>No</sup> 092001							
Date	13	August 2	009					
Drawn	by	RC						
Rev	WL	Apprvd	WL					

Sample Locations with DRO Results
112 E.El Camino Real Sunnyvale.CA
For : Tony Zarinelli
Pacific Development Group
P.O. Box 3060
Newport Beach, CA 92658

Project	Figu
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					IA	_	ETROLEU					5						
							pling and A											
						1	12 East El C			, California								Dup
								TCG Projec				r · -			T			- 1
Sample #	HL-1	HL-2	HL-3	HL-4	HL-5	HL-7	T-1	D-1	BD-1	HL-1-2	HL-7-2	BD-1-2	HL-1-3	HL-7-3		SB2@14'-16'	HL-7-4	HL7-4
Date	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	07/09/09	07/09/09	07/09/09	08/05/09	08/05/09		09/08/09	9/29/2009	
Matrix	Soil	Soil	Soîl	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Constituent	Constituent 71 Modified EPA Method 8015 (mg/kg) 3 1D 9.5 12.5 11.5 12.5 11.5 12.5							16'	16									
DRO	85	19	10	17	4.5	990	1.1	15000	84	3500	210	10	3,3	570	22	ND(0.99)	10	7
HORO	210	ND(50)	ND(50)	56	ND(50)	2700	ND(50)	32000	210	4700	750	ND(49)	ND/949)	1500	88	ND(50)	ND(50)	9
			E	PA Method	8260 (mg/k	g)												
Benzene	ND(0,0043	ND(0.0047	ND(0.0048)	ND(0.0048	ND(0.0044	ND(0.0044	ND(0.0048)	ND(0.016)	ND(0.0049)	NA	NA	NA	NA	NA	NA	NA	NA	NA
GRO	ND(0.22)	ND(0.23)	ND(0.24)	ND(0.24)	ND(0.22)	ND(0.22)	ND(0.24)	4.3	ND(0.24)	NA	NA	NA	NA	NA	NA	NA	NA	NA
TAME							ND(0.0048)							NA	NA	NA	NA	NA
ETBE							ND(0,0048)							NA	NA	NA .	NA	NA
Toluene							ND(0.0048)						NA	NA	NA	NA	NA	NA
Xylenes							ND(0,0097)						NA	NA	NA	NA		NA
MTBE							ND(0.0048)					NA_		NA	NA	NA		NA
DIPE							ND(0.0048)					NA .		NA	NA	NA	NA	NA
TBA							ND(0.0097						NA	NA	NA	NA	NA	NA
Ethyl-Benzene	ND(0,0043	ND(0.0047	ND(0.0048)	ND(0,0048	ND(0.0044	ND(0,0047	ND(0.0048)	ND(0.016)	ND(0.0049	NA	NA	NA	NA	NA	NA	NA	INA	NA

HL-1 = Sample designation HL-7-4 = TCG Confirmation sample

HL7-4 = Watterson Confirmation sample

bold = detection bold italics = detection > ESL





#### TABLE 2 - VOC ANALYTICAL RESULTS (Low Level)-Soil

### Soil Sampling and Analysis - Hydraulic Lift Removal Program 112 East El Camino Real, Sunnyvale, California

				ct #092001		- in -			
Sample #	HL-1	HL-2	HL-3	HL-4	HL-5	HL-7	T-1	D-1	BD-1
Date	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09
Matrix	Soil	Soil	Soll	Soll	Soil	Soil	Soil	Soil	Soil
Constituent				EPA N	lethod 8260B (	'ua/ka)			
MTBE	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Acetone	ND(50)	ND(49)	ND(49)	ND(49)	ND(50)	ND(50)	ND(49)	360	ND(48)
Benzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Bromodichloromethane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Bromobenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Bromochloromethane	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Bromoform	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Bromomethane	ND(10)	ND(9.8)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.8)	ND(9.6)	ND(9.7)
2-Butanone (MEK)	ND(50)	ND(49)	ND(49)	ND(49)	ND(50)	ND(50)	ND(49)	84	ND(48)
n-Butylbenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	41	ND(4.8)
sec-Butylbenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	20	ND(4.8)
tert-Butylbenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Carbon Disulfide	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Carbon Tetrachloride	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Chlorobenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Chloroethane	ND(10)	ND(9.8)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.8)	ND(9.6)	ND(9.7)
Chloroform	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Chloromethane	ND(10)	ND(9.8)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.8)	ND(9.6)	ND(9.7)
2-Chlorotoluene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
4-Chlorotoluene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Dibromochloromethane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,2-Dichlorobenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,3-Dichlorobenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,4-Dichlorobenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,3-Dichloropropane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,1-Dichloropropene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,2-Dibromo-3-Chloropropane	ND(50)	ND(49)	ND(49)	ND(49)	ND(50)	ND(50)	ND(49)	ND(48)	ND(48)
1,2-Dibromoethane (EDB)	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Dibromoethane	ND(10)	ND(9.8)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.8)	ND(9.6)	ND(9.7)
Dichlorodifluoromethane	ND(10)	ND(9.8)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.8)	ND(9.6)	ND(9.7)
1,1-Dichloroethane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)





1,2-Dichloroethane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,1-Dichloroethene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
cis-1,2-Dichloroethene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
trans-1,2-Dichloroethene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,2-Dichloropropane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
cis-1,3-Dichloropropene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
trans-1,3-Dichloropropene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Ethyl Benzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	5	ND(4.8)
Hexachlorobutadiene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
2-Hexanone (MBK)	ND(50)	ND(49)	ND(49)	ND(49)	ND(50)	ND(50)	ND(49)	ND(48)	ND(48)
isopropylbenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	9.3	ND(4.8)
4-isopropyttoluene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	26	ND(4.8)
Methylene Chloride	ND(10)	ND(9.8)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.8)	ND(9.6)	ND(9.7)
4-Methyl-2-Pentanone (MIBK)	ND(50)	ND(49)	ND(49)	ND(49)	ND(50)	ND(50)	ND(49)	ND(48)	ND(48)
Naphthalene	ND(10)	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.9)	ND(9.9)	ND(9.8)	56	ND(9.7)
n-Propylbenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	24	ND(4.8)
Styrene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,1,1,2-Tetrachloroethane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,1,2,2-Tetrachloroethane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Tetrachioroethene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Toluene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	6	ND(4.8)
1,2,3-Trichlorobenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	7.6	ND(4.8)
1,2,4-Trichlorobenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	16	ND(4.8)
1,1,1-Trichloroethane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,1,2-Trichloroethane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Trichloroethene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Trichlorofluoromethane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,2,3-Trichloropropane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,1,2-Trichloro 1,2,2-trifluoroethane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
1,2,4-Trimethylbenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	180	ND(4.8)
1,3,5-Trimethylbenzene	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	61	ND(4.8)
Vinyl Acetate	ND(50)	ND(49)	ND(49)	ND(49)	ND(50)	ND(50)	ND(49)	ND(48)	ND(48)
Vinyl Chloride	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	ND(4.8)
Total Xylenes	ND(10)	ND(9.8)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.8)	31	ND(9.7)
2,2-Dichloropropane	ND(5)	ND(4.9)	ND(4.9)	ND(4.9)	ND(5)	ND(5)	ND(4.9)	ND(4.8)	

#### Notes:

HL-1 = sample designation
ND = not detected (method detection limit)

results in micrograms per liter (ug/l)

bold = detection

092001-Tables.xls

1/21/2010

#### **TABLE 3 - PCB ANALYTICAL RESULTS**

#### Soil Sampling and Analysis - Hydraulic Lift Removal Program 112 East El Camino Real, Sunnyvale, California TCG Project #092001

Sample #	HL-1	HL-2	HL-3	HL-4	HL-5	HL-7	T-1	D-1	BD-1
Date	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09	05/12/09
Matrix	Soil	Soli							
Aroclor 1016	ND(50)	ND(49)	ND(50)	ND(50)	ND(49)	ND(50)	ND(50)	ND(2500)	ND(50)
Aroclor 1221	ND(50)	ND(49)	ND(50)	ND(50)	ND(49)	ND(50)_	ND(50)	ND(2500)	ND(50)
Aroclor 1232	ND(50)	ND(49)	ND(50)	ND(50)	ND(49)	ND(50)	ND(50)	ND(2500)	ND(50)
Aroclor 1242	ND(50)	ND(49)	ND(50)	ND(50)	ND(49)	ND(50)	ND(50)	ND(2500)	ND(50)
Aroclor 1248	ND(50)	ND(49)	ND(50)	ND(50)	ND(49)	ND(50)	ND(50)	2800	ND(50)
Aroclor 1254	ND(50)	ND(49)	ND(50)	ND(50)	ND(49)	ND(50)	ND(50)	ND(2500)	ND(50)
Aroclor 1260	60	ND(49)	ND(50)	ND(50)	ND(49)	ND(50)	ND(50)	2800	62

#### Notes:

HL-1 sample desgignations

ND = not detected (method detection limit)

Results in milligrams per kilogram (ug/kg)

bold = detection

bold italics = detection > ESL (220 ug/kg)



## $\frac{\text{APPENDIX E}}{\text{HISTORICAL DOCUMENTATION}}$

#### **Commercial Property**

777 Sunnyvale Saratoga Road Sunnyvale, CA 94087

Inquiry Number: 4326874.9

June 18, 2015

### The EDR Aerial Photo Decade Package



#### **Date EDR Searched Historical Sources:**

Aerial Photography June 18, 2015

**Target Property:** 777 Sunnyvale Saratoga Road Sunnyvale, CA 94087

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1939	Aerial Photograph. Scale: 1"=500'	Flight Year: 1939	USGS
1948	Aerial Photograph. Scale: 1"=500'	Flight Year: 1948	USGS
1950	Aerial Photograph. Scale: 1"=500'	Flight Year: 1950	USGS
1956	Aerial Photograph. Scale: 1"=500'	Flight Year: 1956	USGS
1968	Aerial Photograph. Scale: 1"=500'	Flight Year: 1968	USGS
1974	Aerial Photograph. Scale: 1"=500'	Flight Year: 1974	USGS
1982	Aerial Photograph. Scale: 1"=500'	Flight Year: 1982	USGS
1991	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1991	USGS/DOQQ
1998	Aerial Photograph. Scale: 1"=500'	Flight Year: 1998 Best Copy Available from original source	USGS
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP





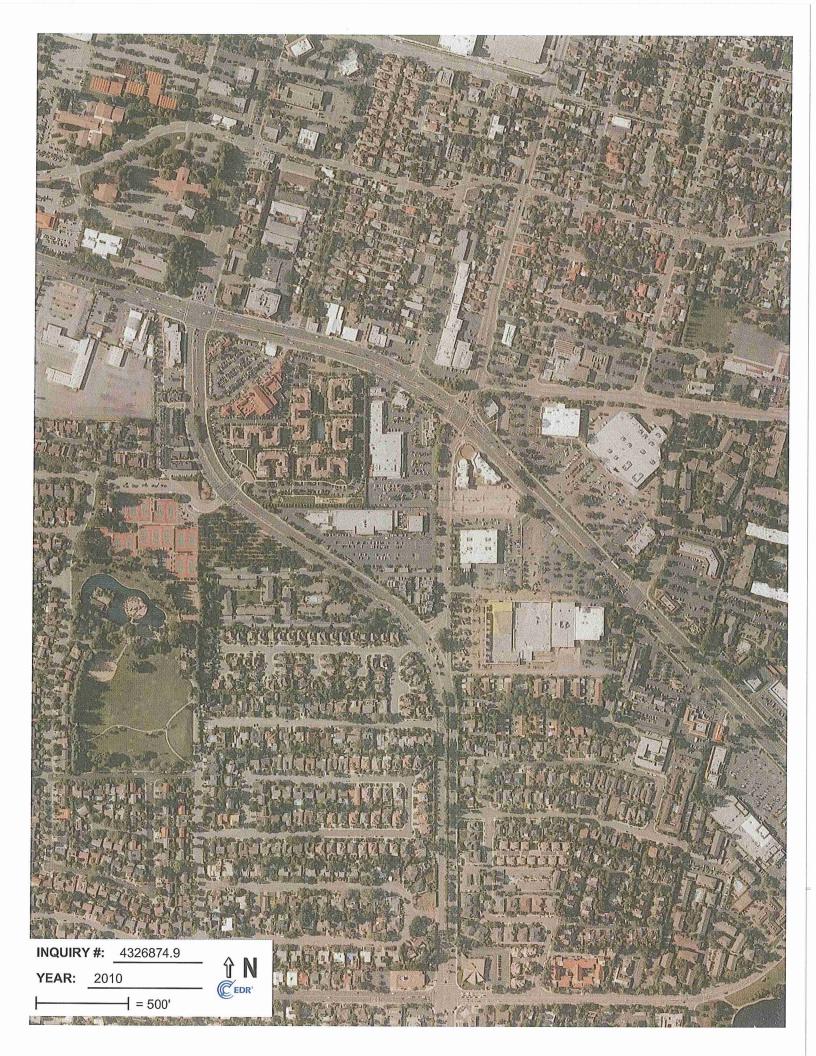














#### **Commercial Property**

777 Sunnyvale Saratoga Road Sunnyvale, CA 94087

Inquiry Number: 4326874.4

June 16, 2015

### **EDR Historical Topographic Map Report**



#### **EDR Historical Topographic Map Report**

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

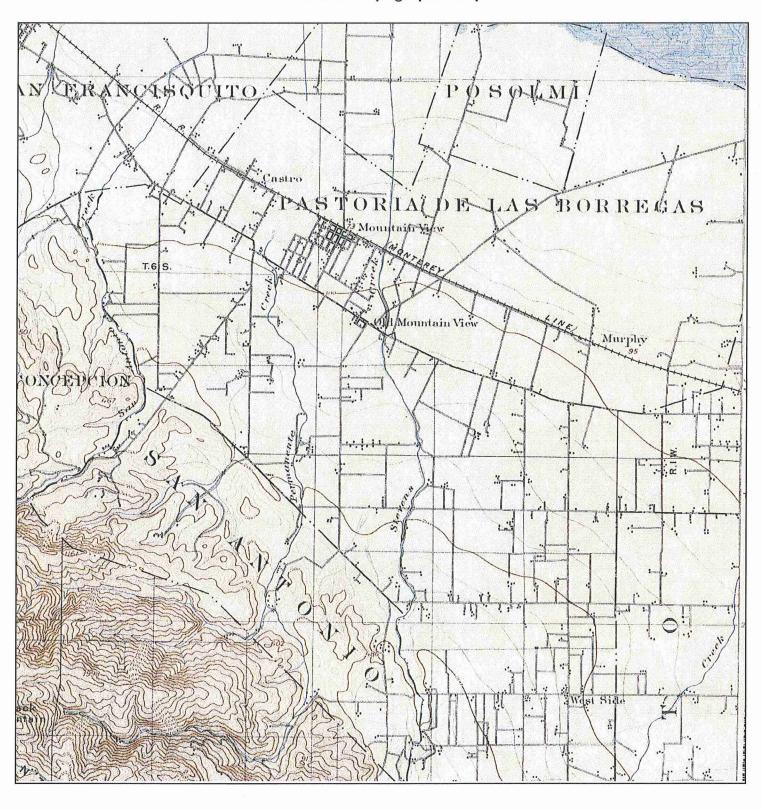
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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N

TARGET QUAD

NAME: PALO ALTO

MAP YEAR: 1899

SERIES:

15

SCALE:

1:62500

SITE NAME: Commercial Property

ADDRESS: 777 Sunnyvale Saratoga Road

Sunnyvale, CA 94087

37.3659 / -122.033 LAT/LONG:

CLIENT:

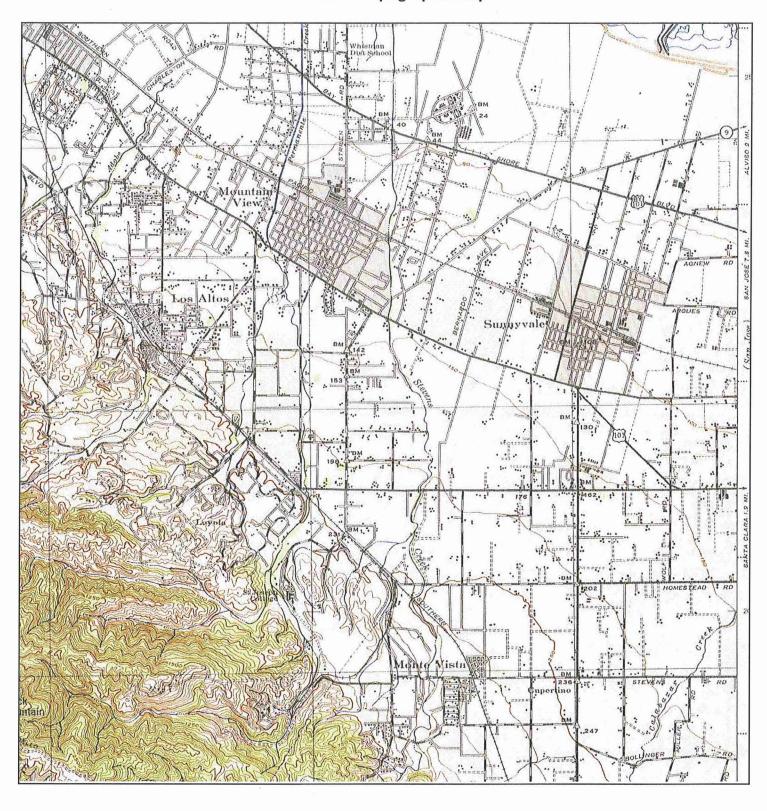
MooreTwining Associates, Inc.

CONTACT:

Philip Marquez

4326874.4 INQUIRY#:

RESEARCH DATE: 06/16/2015



N

TARGET QUAD

PALO ALTO NAME:

15

MAP YEAR: 1943

SERIES:

SCALE:

1:62500

SITE NAME: Commercial Property

ADDRESS:

777 Sunnyvale Saratoga Road

Sunnyvale, CA 94087

LAT/LONG:

37.3659 / -122.033

CLIENT:

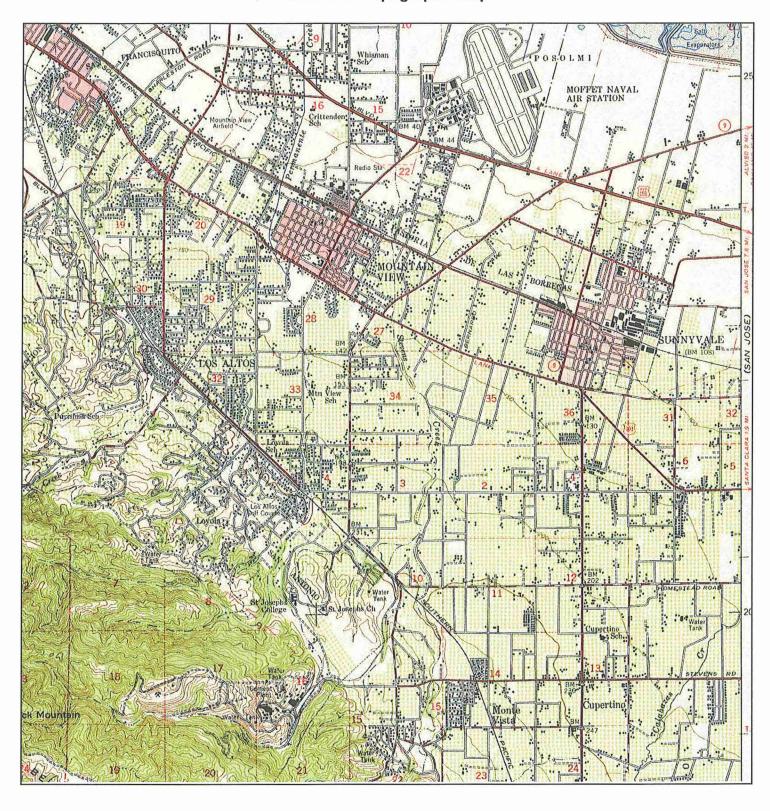
MooreTwining Associates, Inc.

CONTACT:

Philip Marquez

4326874.4 INQUIRY#:

RESEARCH DATE: 06/16/2015



N

TARGET QUAD

PALO ALTO NAME:

MAP YEAR: 1948

SERIES: 15

SCALE: 1:62500

SITE NAME: Commercial Property

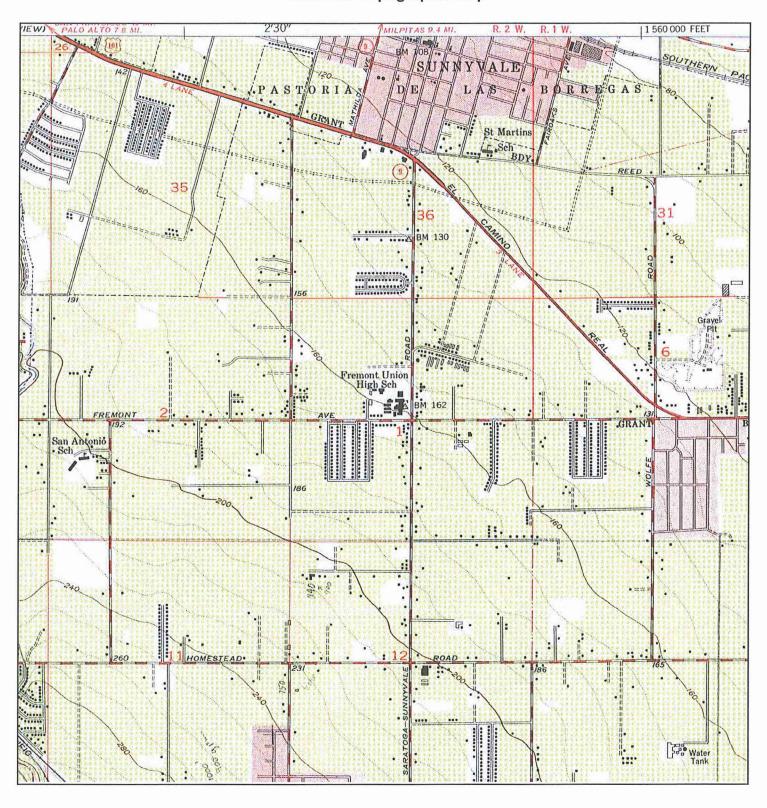
ADDRESS: 777 Sunnyvale Saratoga Road

Sunnyvale, CA 94087

LAT/LONG: 37.3659 / -122.033 CLIENT:

MooreTwining Associates, Inc.

CONTACT: Philip Marquez 4326874.4 INQUIRY#: RESEARCH DATE: 06/16/2015



N T TARGET QUAD

NAME: CUPERTINO

MAP YEAR: 1953

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Commercial Property

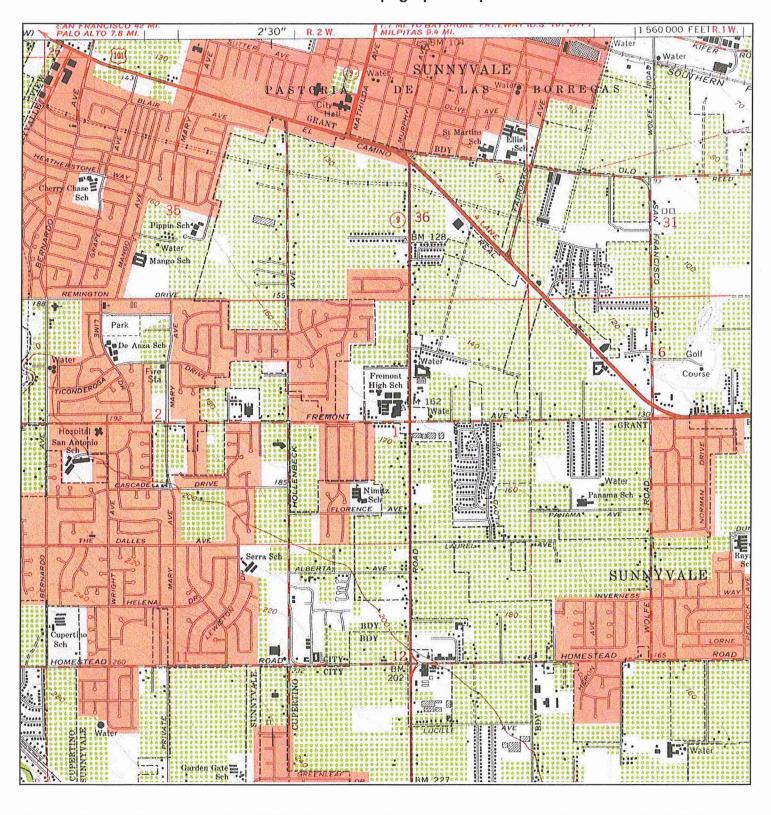
ADDRESS: 777 Sunnyvale Saratoga Road

Sunnyvale, CA 94087

LAT/LONG: 37.3659 / -122.033

CLIENT: MooreTwining Associates, Inc.

CONTACT: Philip Marquez INQUIRY#: 4326874.4 RESEARCH DATE: 06/16/2015



TARGET QUAD

**CUPERTINO** NAME:

MAP YEAR: 1961

SERIES:

SCALE:

7.5 1:24000 SITE NAME:

Commercial Property

ADDRESS:

777 Sunnyvale Saratoga Road

Sunnyvale, CA 94087

LAT/LONG:

37.3659 / -122.033

CLIENT:

MooreTwining Associates, Inc.

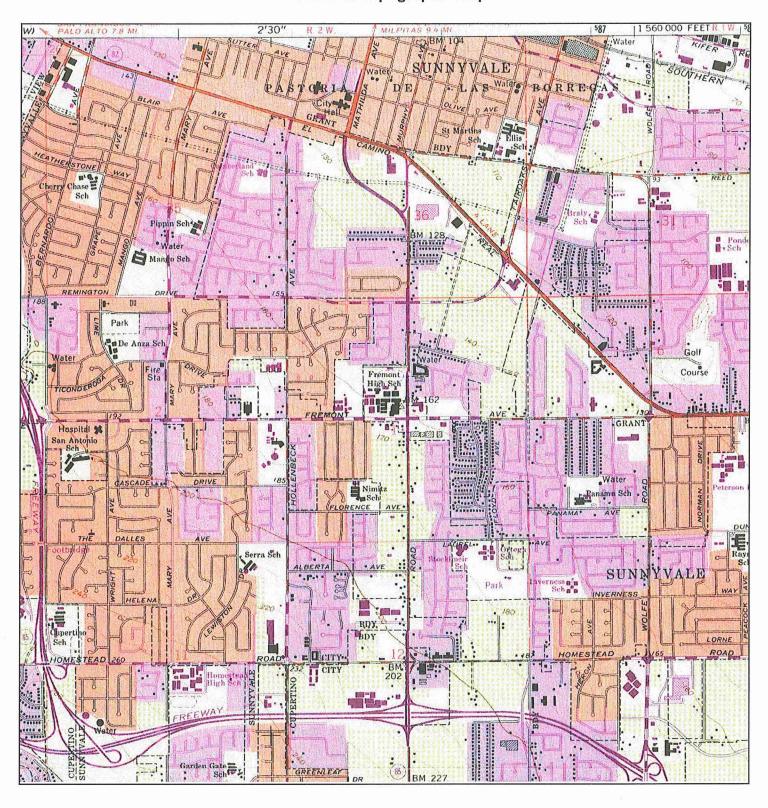
CONTACT:

Philip Marquez

INQUIRY#:

4326874.4

RESEARCH DATE: 06/16/2015



N T TARGET QUAD

NAME: CUPERTINO

MAP YEAR: 1968

PHOTOREVISED FROM: 1961

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Commercial Property

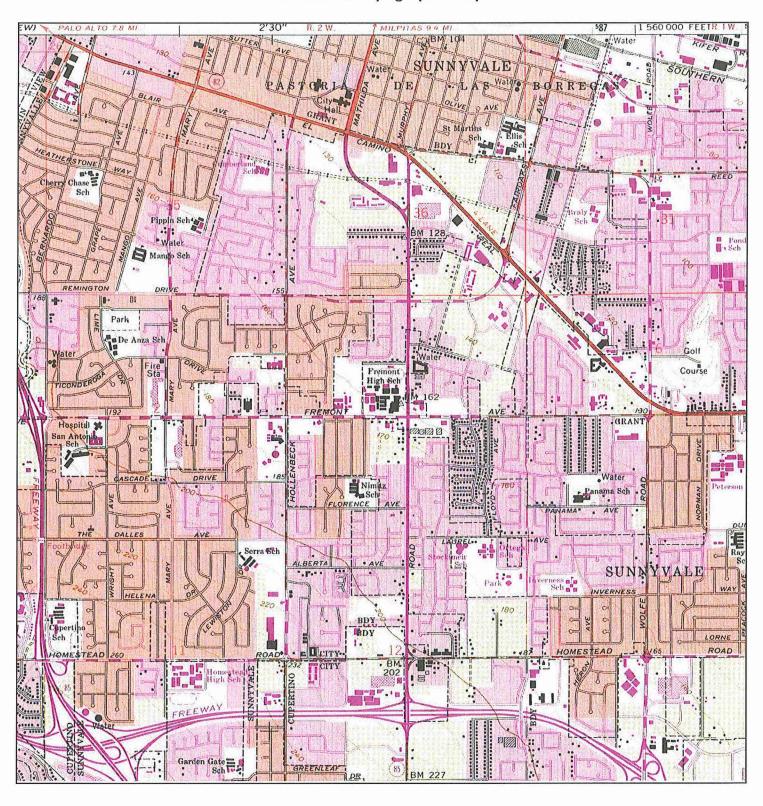
ADDRESS: 777 Sunnyvale Saratoga Road

Sunnyvale, CA 94087

LAT/LONG: 37.3659 / -122.033

CLIENT: MooreTwining Associates, Inc.

CONTACT: Philip Marquez INQUIRY#: 4326874.4 RESEARCH DATE: 06/16/2015



N

TARGET QUAD

NAME: **CUPERTINO** 

MAP YEAR: 1973

PHOTOREVISED FROM: 1961

SERIES: 7.5

SCALE: 1:24000 SITE NAME: Commercial Property

ADDRESS: 777 Sunnyvale Saratoga Road

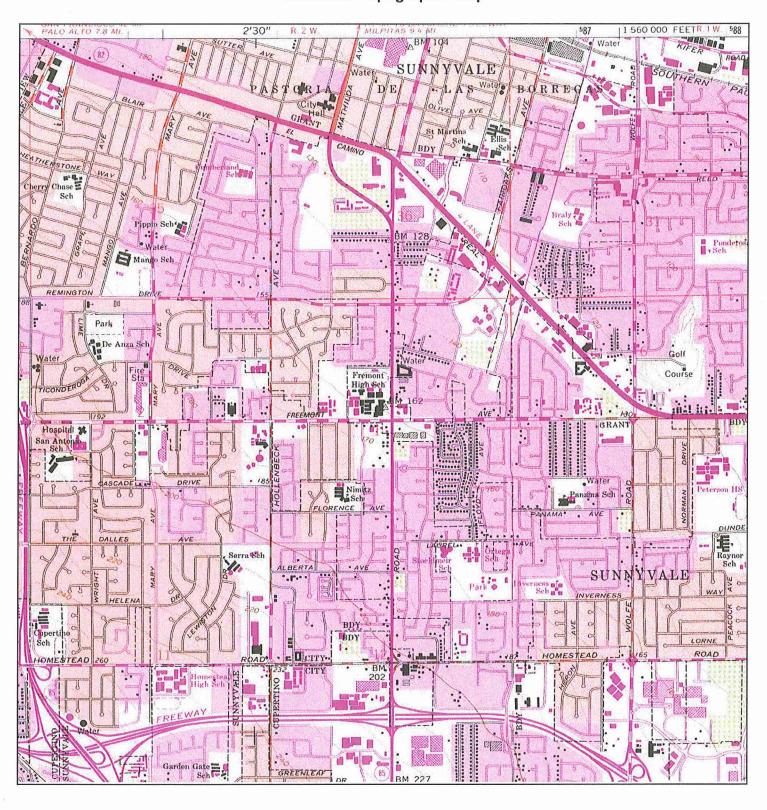
Sunnyvale, CA 94087

LAT/LONG: 37.3659 / -122.033

MooreTwining Associates, Inc. CLIENT:

Philip Marquez CONTACT: 4326874.4 INQUIRY#:

RESEARCH DATE: 06/16/2015



N

TARGET QUAD

**CUPERTINO** NAME:

MAP YEAR: 1980

PHOTOREVISED FROM: 1961 7.5

SERIES:

SCALE:

1:24000

SITE NAME:

Commercial Property

ADDRESS: 777 Sunnyvale Saratoga Road

Sunnyvale, CA 94087

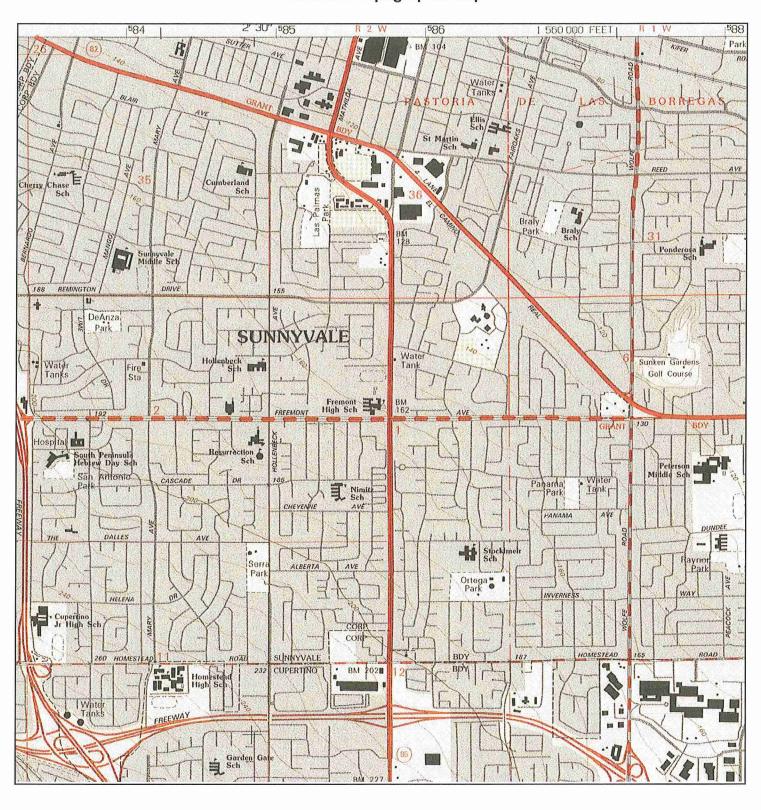
LAT/LONG: 37.3659 / -122.033 CLIENT:

MooreTwining Associates, Inc.

CONTACT: INQUIRY#:

Philip Marquez 4326874.4

RESEARCH DATE: 06/16/2015



N

TARGET QUAD

**CUPERTINO** NAME:

MAP YEAR: 1991

SERIES: 7.5

SCALE: 1:24000 SITE NAME: Commercial Property

777 Sunnyvale Saratoga Road ADDRESS:

Sunnyvale, CA 94087

LAT/LONG: 37.3659 / -122.033 CLIENT: MooreTwining Associates, Inc.

Philip Marquez CONTACT: 4326874.4 INQUIRY#: RESEARCH DATE: 06/16/2015

# APPENDIX F ENVIRONMENTAL QUESTIONNAIRE

#### **USER QUESTIONNAIRE**

Please fill out to the best of your knowledge. If you are unaware of the answer, please simply state that you "Don't know."

- 1. Current Site Address: 777 Sunnyvale Saratoga RD, Sunnyvale.
- 2. Current Assessor's Parcel Number(s): 201-36-002
- 3. Current Owner: Mardit Properties Limited Partnership, POX 2098 Saratoga, CA 95070
- 4. Former Owner: Don't Know
- 5. Description of Current and/ Previous Activities at the Site: Orchard Supply Hardware since 1979
- 6. Description of Adjacent Properties: Residential (South) & Commercial (North). East (Saratoga RD) (East) & Retail (West)
- 7. Are you aware of any Agricultural Chemical formulation, distribution or applications at the Site? No
- 8. Are you aware of any Bulk Chemical or Fuel Storage at the Site? No
- 9. Are you aware of any existing or previously existing Underground or Aboveground Storage Tanks at the Site? No
- 10. Are you aware of any waste treatment, storage, disposal, processing or recycling at the Site? No
- 12. Are you aware of any release or spills of hazardous materials as a result of illegal dumping? No
- 13. Are you aware of any Electrical Transformers or other items that may contain Polychlorinatedbiphenyls (PCBs)? No
- 14. Are you aware of any Septic Systems, Domestic/Agricultural Wells or Sump systems at the Site? No
- 15. Are any Hazardous Materials, Petroleum Products or Other Materials Requiring Permitting stored or used at the Site? Don't Know
- 16. Have any Environmental Cleanup Liens been filed or recorded against the Site? Don't Know
- 17. Do you have knowledge of any Activity and/or Land Use Limitations that are in place at the Site? No
- 18. Do you have any specialized knowledge related to the Site or Activities at adjacent properties? No
- 19. Does the Purchase Price being paid for the Site reasonably reflect the Fair Market Value? Yes If you conclude that there is a difference, have you considered whether the lower price is because of contamination is known or believed to be present at the Site?

20. Are you aware of commonly known or reasonably ascertainable information about the Site that would help the environmental professional to identify conditions indicative of a release or threatened release? No

This Questionnaire was prepared by:

Name: Brad Potestio

Title: Construction Manager

Firm: Oppidan

Relationship to Site: Project Manager

Preparer represents that to the best of the preparer's knowledge the above statements and facts are true and correct and that to the best of the preparer's knowledge no material facts have been suppressed or misstated.

Brad Potestio

June 22, 2015

Signature

Date

# APPENDIX G TITLE DOCUMENTATION

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#### First American Title Insurance Company National Commercial Services

801 Nicollet Mall, Suite 1900 Minneapolis, MN 55402-2504

David Scott Oppidan Investment Company 5125 County Road 101, Suite 100 Minnetonka, MN 55345-4158

Phone: (952)294-1255

Customer Reference:

777 Sunnyvale-Saratoga Road

Escrow Officer:

Karla J. Jordan

Phone:

(612)305-2030

Email:

kajordan@firstam.com

Buyer:

TBD

Owner:

Of Record

Property:

777 Sunnyvale-Saratoga Road, Sunnyvale, CA

#### PRELIMINARY REPORT

In response to the above referenced application for a policy of title insurance, this company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy forms.

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Exhibit A attached. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Exhibit A. Copies of the policy forms should be read. They are available from the office which issued this report.

Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit A of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

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It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

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Dated as of May 22, 2015 at 7:30 A.M.

The form of Policy of title insurance contemplated by this report is:

**ALTA Extended Owner Policy** 

A specific request should be made if another form or additional coverage is desired.

Title to said estate or interest at the date hereof is vested in:

Mardit Properties, a limited partnership

The estate or interest in the land hereinafter described or referred to covered by this Report is:

Fee

The Land referred to herein is described as follows:

(See attached Legal Description)

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in said policy form would be as follows:

- 1. General and special taxes and assessments for the fiscal year 2015-2016, a lien not yet due or payable.
- 2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.
- 3. A waiver of any claims for damages by reason of the location, construction, landscaping or maintenance of a contiguous freeway, highway, roadway or transit facility as contained in the document recorded January 26, 1956 as <u>Book 3398</u>, <u>Page 602</u> of Official Records.
- 4. An easement for public highway and incidental purposes, recorded December 18, 1961 as <u>Book</u> 5403, Page 7 of Official Records.

In Favor of:

The County of Santa Clara

Affects:

as described therein

- 5. A waiver of any claims for damages by reason of the location, construction, landscaping or maintenance of a contiguous freeway, highway, roadway or transit facility as contained in the document recorded December 18, 1961 as Book 5403, Page 7 of Official Records.
- 6. An easement for street, public utilities and incidental purposes, recorded April 25, 1972 as <u>Book</u> 9804, Page 23 of Official Records.

In Favor of:

City of Sunnyvale, a municipal corporation

Affects:

as described therein

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7. Terms and provisions of an unrecorded lease dated August 31, 1971, by and between Vincent DiTommaso and Rose DiTommaso as lessor and Orchard Supply Building Co., a California corporation as lessee, as disclosed by a Memorandum of Lease recorded January 24, 1979 as Book E248, Page 221, as Instrument No. 6268875 of Official Records.

Defects, liens, encumbrances or other matters affecting the leasehold estate, whether or not shown by the public records are not shown herein.

8. Prior to the issuance of any policy of title insurance, the Company will require:

An ALTA/ACSM survey of recent date which complies with the current minimum standard detail requirements for ALTA/ACSM land title surveys.

- 9. Any facts, rights, interests or claims which would be disclosed by a correct ALTA/ACSM survey.
- 10. Rights of parties in possession.

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### **INFORMATIONAL NOTES**

1. Taxes for proration purposes only for the fiscal year 2014-2015.

First Installment:

\$23,312.12, PAID

Second Installment:

\$23,312.12, PAID

Tax Rate Area:

09-000

APN:

201-36-002

- 2. According to the latest available equalized assessment roll in the office of the county tax assessor, there is located on the land a(n) Commercial Structure known as 777 Sunnyvale Saratoga Road, Sunnyvale, CA.
- 3. According to the public records, there has been no conveyance of the land within a period of twenty-four months prior to the date of this report, except as follows:

None

- 4. This preliminary report/commitment was prepared based upon an application for a policy of title insurance that identified land by street address or assessor's parcel number only. It is the responsibility of the applicant to determine whether the land referred to herein is in fact the land that is to be described in the policy or policies to be issued.
- 5. Should this report be used to facilitate your transaction, we must be provided with the following prior to the issuance of the policy:

# A. WITH RESPECT TO A CORPORATION:

- 1. A certificate of good standing of recent date issued by the Secretary of State of the corporation's state of domicile.
- 2. A certificate copy of a resolution of the Board of Directors authorizing the contemplated transaction and designating which corporate officers shall have the power to execute on behalf of the corporation.
- 3. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

#### B. WITH RESPECT TO A CALIFORNIA LIMITED PARTNERSHIP:

- 1. A certified copy of the certificate of limited partnership (form LP-1) and any amendments thereto (form LP-2) to be recorded in the public records;
- 2. A full copy of the partnership agreement and any amendments;
- 3. Satisfactory evidence of the consent of a majority in interest of the limited partners to the contemplated transaction;
- 4. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

### C. WITH RESPECT TO A FOREIGN LIMITED PARTNERSHIP:

1. A certified copy of the application for registration, foreign limited partnership (form LP-5) and any amendments thereto (form LP-6) to be recorded in the public records;

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- 2. A full copy of the partnership agreement and any amendment;
- 3. Satisfactory evidence of the consent of a majority in interest of the limited partners to the contemplated transaction;
- 4. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

### D. WITH RESPECT TO A GENERAL PARTNERSHIP:

- 1. A certified copy of a statement of partnership authority pursuant to Section 16303 of the California Corporation Code (form GP-I), executed by at least two partners, and a certified copy of any amendments to such statement (form GP-7), to be recorded in the public records;
- 2. A full copy of the partnership agreement and any amendments;
- 3. Requirements which the Company may impose following its review of the above material required herein and other information which the Company may require.

## E. WITH RESPECT TO A LIMITED LIABILITY COMPANY:

- 1. A copy of its operating agreement and any amendments thereto;
- 2. If it is a California limited liability company, a certified copy of its articles of organization (LLC-1) and any certificate of correction (LLC-11), certificate of amendment (LLC-2), or restatement of articles of organization (LLC-10) to be recorded in the public records;
- 3. If it is a foreign limited liability company, a certified copy of its application for registration (LLC-5) to be recorded in the public records;
- 4. With respect to any deed, deed of trust, lease, subordination agreement or other document or instrument executed by such limited liability company and presented for recordation by the Company or upon which the Company is asked to rely, such document or instrument must be executed in accordance with one of the following, as appropriate:
  - (i) If the limited liability company properly operates through officers appointed or elected pursuant to the terms of a written operating agreement, such documents must be executed by at least two duly elected or appointed officers, as follows: the chairman of the board, the president or any vice president, and any secretary, assistant secretary, the chief financial officer or any assistant treasurer;
  - (ii) If the limited liability company properly operates through a manager or managers identified in the articles of organization and/or duly elected pursuant to the terms of a written operating agreement, such document must be executed by at least two such managers or by one manager if the limited liability company properly operates with the existence of only one manager.
- 5. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

### F. WITH RESPECT TO A TRUST:

- 1. A certification pursuant to Section 18100.5 of the California Probate Code in a form satisfactory to the Company.
- 2. Copies of those excerpts from the original trust documents and amendments thereto which designate the trustee and confer upon the trustee the power to act in the pending transaction.
- 3. Other requirements which the Company may impose following its review of the material require herein and other information which the Company may require.

#### G. WITH RESPECT TO INDIVIDUALS:

1. A statement of information.

The map attached, if any, may or may not be a survey of the land depicted hereon. First American Title Insurance Company expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

### **LEGAL DESCRIPTION**

Real property in the City of Sunnyvale, County of Santa Clara, State of California, described as follows:

BEGINNING AT A STAKE MARKED J. K. STANDING AT THE COMMON CORNER FOR LANDS OF OWEN JONES AND PAT LYONS IN THE CENTER OF THE SARATOGA AND MOUNTAIN VIEW ROAD, BEING ALSO THE NORTHEAST CORNER OF LOT E AS SHOWN ON THE MAP ACCOMPANYING THE RECORD OF THE REFEREES IN THE SUIT OF W.O. PAUL ET AL. VS. PAT LYONS ET AL. CASE NUMBER 6793, SUPERIOR COURT OF SANTA CLARA COUNTY, AND FROM WHICH STAKE A WITNESS POST MARKED W.P.J.K. STANDING IN THE WESTERLY LINE OF SAID ROAD BEARS NORTH 89 DEG. 26' WEST 38 LINKS; THENCE ALONG THE NORTH LINE OF SAID LOT E AND FENCE LINE BETWEEN LANDS OF SAID JONES AND LYONS, NORTH 89 DEG. 26' WEST 20.08 CHAINS TO A STAKE MARKED K.J. STANDING AT THE NORTHWEST CORNER OF SAID LOT E AND AT THE COMMON CORNER FOR LANDS OF SAID JONES AND LYONS IN THE EASTERLY LINE OF A. BLOCK'S LAND AND THENCE ALONG THE WESTERLY LINE OF SAID LOT E AND LINE BETWEEN LANDS OF SAID BLOCK AND JONES SOUTH 0 DEG. 07' WEST 4.98 CHAINS TO A STAKE MARKED J.M.; THENCE PARALLEL TO THE NORTH LINE OF THE ABOVE MENTIONED LOT E SOUTH 89 DEG. 26' EAST 20.09 CHAINS TO THE CENTER OF THE SARATOGA AND MOUNTAIN VIEW ROAD AND EAST LINE OF SAID LOT E AND THENCE ALONG THE CENTER OF SAID ROAD AND EAST LINE OF SAID LOT E NORTH 4.98 CHAINS TO THE PLACE OF BEGINNING.

BEING A PART OF LOT "E" IN THE SOUTHWEST 1/4 OF SECTION 36, TOWNSHIP 6 SOUTH, RANGE 2 WEST AS SHOWN ON THE MAP ACCOMPANYING THE REPORT OF THE REFEREES IN THE SUIT OF W.P. PAUL ET AL., VS. PAT LYONS, ET AL, CASE NUMBER 6793, SUPERIOR COURT OF SANTA CLARA COUNTY, CALIFORNIA, COURSES TRUE VAR. 16 1/2 DEG. EAST.

EXCEPTING FROM THE ABOVE DESCRIBED PARCEL OF LAND THAT PORTION DESCRIBED IN THE DEED FROM VINCENZO DI TOMMASO, ET UX TO THE STATE OF CALIFORNIA, DATED DECEMBER 18, 1955 AND RECORDED JANUARY 26, 1956 IN BOOK 3398 OF OFFICIAL RECORDS PAGE 602 AS FOLLOWS:

COMMENCING AT THE SOUTHEASTERLY CORNER OF THAT CERTAIN PARCEL OF LAND DESCRIBED IN THE DEED TO VINCENZO DI TOMMASO, ET UX, RECORDED FEBRUARY 7, 1934 IN BOOK 679, AT PAGE 12, OFFICIAL RECORDS OF SANTA CLARA COUNTY; THENCE ALONG THE SOUTHERLY LINE OF SAID PARCEL NORTH 89 DEG. 40' 25" WEST, 25.00 FEET TO THE WESTERLY LINE OF SARATOGA-SUNNYVALE ROAD; THENCE ALONG SAID WESTERLY LINE NORTH 00 DEG. 07' 25" WEST, 146.31 FEET; THENCE NORTH 02 DEG. 28' 29" WEST, 181.71 FEET TO THE PROPERTY LINE COMMON TO THE LANDS, NOW OR FORMERLY, OF SAID VINCENZO DI TOMMASO ET UX, AND OF MARTHA COCKRELL; THENCE ALONG SAID COMMON PROPERTY LINE SOUTH 89 DEG. 48' 25" EAST, 32.45 FEET TO THE CENTER LINE OF SARATOGA-SUNNYVALE ROAD; THENCE ALONG SAID CENTER LINE SOUTH 00 DEG. 07' 25" EAST, 327.88 FEET TO THE POINT OF COMMENCEMENT.

ALSO EXCEPTING FROM THE FIRST HEREIN DESCRIBED PARCEL OF LAND SO MUCH THEREOF DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE NORTHERLY LINE OF THE LANDS OF PAVLINA AS SAID LANDS ARE DESCRIBED IN THE DEED FILED FOR RECORD IN BOOK 2914 OFFICIAL RECORDS, AT PAGE 499 IN THE OFFICE OF THE RECORDER OF SAID COUNTY, SAID POINT OF BEGINNING

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BEING DISTANT NORTH 89 DEG. 24' 45" WEST ALONG SAID NORTHERLY LINE 490.88 FEET FROM THE ORIGINAL CENTERLINE OF SARATOGA-SUNNYVALE ROAD, 50 FEET WIDE; THENCE NORTH 56 DEG. 06' 35" WEST 596.76 FEET TO A POINT IN THE NORTHERLY LINE OF SAID LANDS OF DITOMMASO, LAST SAID POINT BEING DISTANT NORTH 89 DEG. 26' 00" WEST ALONG SAID NORTHERLY LINE 987.70 FEET FROM THE ORIGINAL CENTERLINE OF SARATOGA-SUNNYVALE ROAD, THENCE NORTH 89 DEG. 26' 00" WEST ALONG LAST SAID NORTHERLY LINE 197.88 FEET TO THE POINT OF INTERSECTION THEREOF WITH A CURVE, CONCAVE TO THE NORTHEAST; THENCE SOUTHEASTERLY FROM A TANGENT BEARING SOUTH 46 DEG. 13' 09" EAST ALONG THE ARC OF SAID CURVE, HAVING A RADIUS OF 760.00 FEET THROUGH A CENTRAL ANGLE OF 9 DEG. 53' 26" A DISTANCE OF 131.19 FEET TO THE POINT OF TANGENCY WITH A LINE HAVING A BEARING OF SOUTH 56 DEG. 06' 35" EAST THENCE SOUTH 56 DEG. 06' 35" EAST, ALONG LAST SAID LINE 448.90 FEET TO THE POINT OF INTERSECTION THEREOF WITH SAID NORTHERLY LINE OF THE LANDS OF PAVLINA; THENCE SOUTH 89 DEG. 24' 45" EAST, ALONG LAST SAID NORTHERLY LINE 218.56 FEET TO THE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM THE LANDS CONVEYED TO THE CITY OF SUNNYVALE BY DEED RECORDED MAY 16, 1975 IN BOOK B413, PAGE 39, AS INSTRUMENT NO. 5008298, OFFICIAL RECORDS OF SANTA CLARA COUNTY.

ALSO EXCEPTING THEREFROM THE LANDS CONVEYED TO THE CITY OF SUNNYVALE BY DEED RECORDED DECEMBER 22, 1976 IN BOOK C491, PAGE 377, AS INSTRUMENT NO. 5504979, OFFICIAL RECORDS OF SANTA CLARA COUNTY.

APN: 201-36-002

ARB: 200-30-47

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#### **NOTICE I**

Section 12413.1 of the California Insurance Code, effective January 1, 1990, requires that any title insurance company, underwritten title company, or controlled escrow company handling funds in an escrow or sub-escrow capacity, wait a specified number of days after depositing funds, before recording any documents in connection with the transaction or disbursing funds. This statute allows for funds deposited by wire transfer to be disbursed the same day as deposit. In the case of cashier's checks or certified checks, funds may be disbursed the next day after deposit. In order to avoid unnecessary delays of three to seven days, or more, please use wire transfer, cashier's checks, or certified checks whenever possible.

If you have any questions about the effect of this new law, please contact your local First American Office for more details.

#### NOTICE II

As of January 1, 1991, if the transaction which is the subject of this report will be a sale, you as a party to the transaction, may have certain tax reporting and withholding obligations pursuant to the state law referred to below:

In accordance with Sections 18662 and 18668 of the Revenue and Taxation Code, a buyer may be required to withhold an amount equal to three and one-third percent of the sales price in the case of the disposition of California real property interest by either:

- 1. A seller who is an individual with a last known street address outside of California or when the disbursement instructions authorize the proceeds be sent to a financial intermediary of the seller, OR
- 2. A corporate seller which has no permanent place of business in California.

The buyer may become subject to penalty for failure to withhold an amount equal to the greater of 10 percent of the amount required to be withheld or five hundred dollars (\$500).

However, notwithstanding any other provision included in the California statutes referenced above, no buyer will be required to withhold any amount or be subject to penalty for failure to withhold if:

- 1. The sales price of the California real property conveyed does not exceed one hundred thousand dollars (\$100,000), OR
- 2. The seller executes a written certificate, under the penalty of perjury, certifying that the seller is a resident of California, or if a corporation, has a permanent place of business in California, OR
- 3. The seller, who is an individual, executes a written certificate, under the penalty of perjury, that the California real property being conveyed is the seller's principal residence (as defined in Section 1034 of the Internal Revenue Code).

The seller is subject to penalty for knowingly filing a fraudulent certificate for the purpose of avoiding the withholding requirement.

The California statutes referenced above include provisions which authorize the Franchise Tax Board to grant reduced withholding and waivers from withholding on a case-by-case basis.

The parties to this transaction should seek an attorney's, accountant's, or other tax specialist's opinion concerning the effect of this law on this transaction and should not act on any statements made or omitted by the escrow or closing officer.

The Seller May Request a Waiver by Contacting: Franchise Tax Board Withhold at Source Unit P.O. Box 651 Sacramento, CA 95812-0651 (916) 845-4900

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# **Privacy Policy**

# We Are Committed to Safeguarding Customer Information

In order to better serve your needs now and in the future, we may ask you to provide us with certain information. We understand that you may be concerned about what we will do with such information - particularly any personal or financial information. We agree that you have a right to know how we will utilize the personal information you provide to us. Therefore, together with our parent company, The First American Corporation, we have adopted this Privacy Policy to govern the use and handling of your personal information.

# **Applicability**

This Privacy Policy governs our use of the information which you provide to us. It does not govern the manner in which we may use information we have obtained from any other source, such as information obtained from a public record or from another person or entity. First American has also adopted broader guidelines that govern our use of personal information regardless of its source. First American calls these guidelines its *Fair Information Values*, a copy of which can be found on our website at www.firstam.com.

### **Types of Information**

Depending upon which of our services you are utilizing, the types of nonpublic personal information that we may collect include:

- Information we receive from you on applications, forms and in other communications to us, whether in writing, in person, by telephone or any other means;
- Information about your transactions with us, our affiliated companies, or others; and
- Information we receive from a consumer reporting agency.

### **Use of Information**

We request information from you for our own legitimate business purposes and not for the benefit of any nonaffiliated party. Therefore, we will not release your information to nonaffiliated parties except: (1) as necessary for us to provide the product or service you have requested of us; or (2) as permitted by law. We may, however, store such information indefinitely, including the period after which any customer relationship has ceased. Such information may be used for any internal purpose, such as quality control efforts or customer analysis. We may also provide all of the types of nonpublic personal information listed above to one or more of our affiliated companies. Such affiliated companies include financial service providers, such as title insurers, property and casualty insurers, and trust and investment advisory companies, or companies involved in real estate services, such as appraisal companies, home warranty companies, and escrow companies. Furthermore, we may also provide all the information we collect, as described above, to companies that perform marketing services on our behalf, on behalf of our affiliated companies, or to other financial institutions with whom we or our affiliated companies have joint marketing agreements.

### **Former Customers**

Even if you are no longer our customer, our Privacy Policy will continue to apply to you.

## **Confidentiality and Security**

We will use our best efforts to ensure that no unauthorized parties have access to any of your information. We restrict access to nonpublic personal information about you to those individuals and entities who need to know that information to provide products or services to you. We will use our best efforts to train and oversee our employees and agents to ensure that your information will be handled responsibly and in accordance with this Privacy Policy and First American's *Fair Information Values*. We currently maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

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# CLTA/ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE (02-03-10) EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:

(a) building;

(d) improvements on the Land;

(b) zoning;

(e) land division; and

(c) land use;

(f) environmental protection.

This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.

- 2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
- 3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
- Risks:
  - (a) that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
  - (b) that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
  - (c) that result in no loss to You; or
  - (d) that first occur after the Policy Date this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
- 5. Failure to pay value for Your Title.
- 6. Lack of a right:
  - (a) to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
  - (b) in streets, alleys, or waterways that touch the Land.
  - This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
- The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.

### LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows: For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16: 1% of Policy Amount or \$2,500.00 (whichever is less)	\$10,000.00
Covered Risk 18: 1% of Policy Amount or \$5,000.00 (whichever is less)	\$25,000.00
Covered Risk 19: 1% of Policy Amount or \$5,000.00 (whichever is less)	\$25,000.00
Covered Risk 21: 1% of Policy Amount or \$2,500.00 (whichever is less)	\$5,000.00

# ALTA RESIDENTIAL TITLE INSURANCE POLICY (6-1-87) EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

- Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
  - (a) and use
  - (b) improvements on the land
  - (c) and division
  - (d) environmental protection

This exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date.

This exclusion does not limit the zoning coverage described in Items 12 and 13 of Covered Title Risks.

- 2. The right to take the land by condemning it, unless:
  - (a) a notice of exercising the right appears in the public records on the Policy Date

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- (b) the taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking
- 3. Title Risks:
  - (a) that are created, allowed, or agreed to by you
  - (b) that are known to you, but not to us, on the Policy Date -- unless they appeared in the public records
  - (c) that result in no loss to you
  - (d) that first affect your title after the Pollcy Date -- this does not limit the labor and material lien coverage in Item 8 of Covered Title Risks
- 4. Failure to pay value for your title.
- Lack of a right:
  - (a) to any land outside the area specifically described and referred to in Item 3 of Schedule A OR
  - (b) in streets, alleys, or waterways that touch your land

This exclusion does not limit the access coverage in Item 5 of Covered Title Risks.

# 2006 ALTA LOAN POLICY (06-17-06) EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

- a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - i. the occupancy, use, or enjoyment of the Land;
  - ii. the character, dimensions, or location of any improvement erected on the Land;
  - iii. the subdivision of land; or
  - iv. environmental protection;
  - or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
  - b. Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
- 2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
- 3. Defects, liens, encumbrances, adverse claims, or other matters
  - a. created, suffered, assumed, or agreed to by the Insured Claimant;
  - b. not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
  - c. resulting in no loss or damage to the Insured Claimant;
  - d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
  - e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
- 4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
- 5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
- 6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - a. a fraudulent conveyance or fraudulent transfer, or
  - b. a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
- 7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

# **EXCEPTIONS FROM COVERAGE**

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

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(a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real
property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such
proceedings, whether or not shown by the records of such agency or by the Public Records.

- 2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
- 3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
- Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate
  and complete land survey of the Land and not shown by the Public Records.
- 5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
- 6. Any lien or right to a lien for services, labor or material not shown by the public records.

# 2006 ALTA OWNER'S POLICY (06-17-06) EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

- a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - i. the occupancy, use, or enjoyment of the Land;
  - ii. the character, dimensions, or location of any improvement erected on the Land;
  - iii. the subdivision of land; or
  - iv. environmental protection;
  - or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
- b.Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
- 2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
- 3. Defects, liens, encumbrances, adverse claims, or other matters
  - a. created, suffered, assumed, or agreed to by the Insured Claimant;
  - b. not Known to the Company, not recorded in the Public Records at Date of Policy, but known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy:
  - c. resulting in no loss or damage to the Insured Claimant;
  - d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
  - e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
- 4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
- 5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
- 6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - a. a fraudulent conveyance or fraudulent transfer, or
  - b. a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
- 7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

#### **EXCEPTIONS FROM COVERAGE**

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

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1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.

- 2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
- 3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
- 4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
- 5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
- 6. Any lien or right to a lien for services, labor or material not shown by the public records.

# ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (07-26-10) EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

- a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - i. the occupancy, use, or enjoyment of the Land;
  - ii. the character, dimensions, or location of any improvement erected on the Land;
  - iii. the subdivision of land; or
  - iv. environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.

- b. Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
- 2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
- 3. Defects, liens, encumbrances, adverse claims, or other matters
  - a. created, suffered, assumed, or agreed to by the Insured Claimant;
  - b. not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy:
  - c. resulting in no loss or damage to the Insured Claimant;
  - d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
  - e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
- 4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
- 5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
- 6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
- 7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
- 8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
- 9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - a. a fraudulent conveyance or fraudulent transfer, or
  - b. a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.

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- 2. A full copy of the partnership agreement and any amendment;
- 3. Satisfactory evidence of the consent of a majority in interest of the limited partners to the contemplated transaction;
- 4. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

### D. WITH RESPECT TO A GENERAL PARTNERSHIP:

- 1. A certified copy of a statement of partnership authority pursuant to Section 16303 of the California Corporation Code (form GP-I), executed by at least two partners, and a certified copy of any amendments to such statement (form GP-7), to be recorded in the public records;
- 2. A full copy of the partnership agreement and any amendments;
- 3. Requirements which the Company may impose following its review of the above material required herein and other information which the Company may require.

## E. WITH RESPECT TO A LIMITED LIABILITY COMPANY:

- 1. A copy of its operating agreement and any amendments thereto;
- 2. If it is a California limited liability company, a certified copy of its articles of organization (LLC-1) and any certificate of correction (LLC-11), certificate of amendment (LLC-2), or restatement of articles of organization (LLC-10) to be recorded in the public records;
- 3. If it is a foreign limited liability company, a certified copy of its application for registration (LLC-5) to be recorded in the public records;
- 4. With respect to any deed, deed of trust, lease, subordination agreement or other document or instrument executed by such limited liability company and presented for recordation by the Company or upon which the Company is asked to rely, such document or instrument must be executed in accordance with one of the following, as appropriate:
  - (i) If the limited liability company properly operates through officers appointed or elected pursuant to the terms of a written operating agreement, such documents must be executed by at least two duly elected or appointed officers, as follows: the chairman of the board, the president or any vice president, and any secretary, assistant secretary, the chief financial officer or any assistant treasurer;
  - (ii) If the limited liability company properly operates through a manager or managers identified in the articles of organization and/or duly elected pursuant to the terms of a written operating agreement, such document must be executed by at least two such managers or by one manager if the limited liability company properly operates with the existence of only one manager.
- 5. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

### F. WITH RESPECT TO A TRUST:

- 1. A certification pursuant to Section 18100.5 of the California Probate Code in a form satisfactory to the Company.
- 2. Copies of those excerpts from the original trust documents and amendments thereto which designate the trustee and confer upon the trustee the power to act in the pending transaction.
- 3. Other requirements which the Company may impose following its review of the material require herein and other information which the Company may require.

#### G. WITH RESPECT TO INDIVIDUALS:

1. A statement of information.

The map attached, if any, may or may not be a survey of the land depicted hereon. First American Title Insurance Company expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

### **LEGAL DESCRIPTION**

Real property in the City of Sunnyvale, County of Santa Clara, State of California, described as follows:

BEGINNING AT A STAKE MARKED J. K. STANDING AT THE COMMON CORNER FOR LANDS OF OWEN JONES AND PAT LYONS IN THE CENTER OF THE SARATOGA AND MOUNTAIN VIEW ROAD, BEING ALSO THE NORTHEAST CORNER OF LOT E AS SHOWN ON THE MAP ACCOMPANYING THE RECORD OF THE REFEREES IN THE SUIT OF W.O. PAUL ET AL. VS. PAT LYONS ET AL. CASE NUMBER 6793, SUPERIOR COURT OF SANTA CLARA COUNTY, AND FROM WHICH STAKE A WITNESS POST MARKED W.P.J.K. STANDING IN THE WESTERLY LINE OF SAID ROAD BEARS NORTH 89 DEG. 26' WEST 38 LINKS; THENCE ALONG THE NORTH LINE OF SAID LOT E AND FENCE LINE BETWEEN LANDS OF SAID JONES AND LYONS, NORTH 89 DEG. 26' WEST 20.08 CHAINS TO A STAKE MARKED K.J. STANDING AT THE NORTHWEST CORNER OF SAID LOT E AND AT THE COMMON CORNER FOR LANDS OF SAID JONES AND LYONS IN THE EASTERLY LINE OF A. BLOCK'S LAND AND THENCE ALONG THE WESTERLY LINE OF SAID LOT E AND LINE BETWEEN LANDS OF SAID BLOCK AND JONES SOUTH 0 DEG. 07' WEST 4.98 CHAINS TO A STAKE MARKED J.M.; THENCE PARALLEL TO THE NORTH LINE OF THE ABOVE MENTIONED LOT E SOUTH 89 DEG. 26' EAST 20.09 CHAINS TO THE CENTER OF THE SARATOGA AND MOUNTAIN VIEW ROAD AND EAST LINE OF SAID LOT E AND THENCE ALONG THE CENTER OF SAID ROAD AND EAST LINE OF SAID LOT E NORTH 4.98 CHAINS TO THE PLACE OF BEGINNING.

BEING A PART OF LOT "E" IN THE SOUTHWEST 1/4 OF SECTION 36, TOWNSHIP 6 SOUTH, RANGE 2 WEST AS SHOWN ON THE MAP ACCOMPANYING THE REPORT OF THE REFEREES IN THE SUIT OF W.P. PAUL ET AL., VS. PAT LYONS, ET AL, CASE NUMBER 6793, SUPERIOR COURT OF SANTA CLARA COUNTY, CALIFORNIA, COURSES TRUE VAR. 16 1/2 DEG. EAST.

EXCEPTING FROM THE ABOVE DESCRIBED PARCEL OF LAND THAT PORTION DESCRIBED IN THE DEED FROM VINCENZO DI TOMMASO, ET UX TO THE STATE OF CALIFORNIA, DATED DECEMBER 18, 1955 AND RECORDED JANUARY 26, 1956 IN BOOK 3398 OF OFFICIAL RECORDS PAGE 602 AS FOLLOWS:

COMMENCING AT THE SOUTHEASTERLY CORNER OF THAT CERTAIN PARCEL OF LAND DESCRIBED IN THE DEED TO VINCENZO DI TOMMASO, ET UX, RECORDED FEBRUARY 7, 1934 IN BOOK 679, AT PAGE 12, OFFICIAL RECORDS OF SANTA CLARA COUNTY; THENCE ALONG THE SOUTHERLY LINE OF SAID PARCEL NORTH 89 DEG. 40' 25" WEST, 25.00 FEET TO THE WESTERLY LINE OF SARATOGA-SUNNYVALE ROAD; THENCE ALONG SAID WESTERLY LINE NORTH 00 DEG. 07' 25" WEST, 146.31 FEET; THENCE NORTH 02 DEG. 28' 29" WEST, 181.71 FEET TO THE PROPERTY LINE COMMON TO THE LANDS, NOW OR FORMERLY, OF SAID VINCENZO DI TOMMASO ET UX, AND OF MARTHA COCKRELL; THENCE ALONG SAID COMMON PROPERTY LINE SOUTH 89 DEG. 48' 25" EAST, 32.45 FEET TO THE CENTER LINE OF SARATOGA-SUNNYVALE ROAD; THENCE ALONG SAID CENTER LINE SOUTH 00 DEG. 07' 25" EAST, 327.88 FEET TO THE POINT OF COMMENCEMENT.

ALSO EXCEPTING FROM THE FIRST HEREIN DESCRIBED PARCEL OF LAND SO MUCH THEREOF DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE NORTHERLY LINE OF THE LANDS OF PAVLINA AS SAID LANDS ARE DESCRIBED IN THE DEED FILED FOR RECORD IN BOOK 2914 OFFICIAL RECORDS, AT PAGE 499 IN THE OFFICE OF THE RECORDER OF SAID COUNTY, SAID POINT OF BEGINNING

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BEING DISTANT NORTH 89 DEG. 24' 45" WEST ALONG SAID NORTHERLY LINE 490.88 FEET FROM THE ORIGINAL CENTERLINE OF SARATOGA-SUNNYVALE ROAD, 50 FEET WIDE; THENCE NORTH 56 DEG. 06' 35" WEST 596.76 FEET TO A POINT IN THE NORTHERLY LINE OF SAID LANDS OF DITOMMASO, LAST SAID POINT BEING DISTANT NORTH 89 DEG. 26' 00" WEST ALONG SAID NORTHERLY LINE 987.70 FEET FROM THE ORIGINAL CENTERLINE OF SARATOGA-SUNNYVALE ROAD, THENCE NORTH 89 DEG. 26' 00" WEST ALONG LAST SAID NORTHERLY LINE 197.88 FEET TO THE POINT OF INTERSECTION THEREOF WITH A CURVE, CONCAVE TO THE NORTHEAST; THENCE SOUTHEASTERLY FROM A TANGENT BEARING SOUTH 46 DEG. 13' 09" EAST ALONG THE ARC OF SAID CURVE, HAVING A RADIUS OF 760.00 FEET THROUGH A CENTRAL ANGLE OF 9 DEG. 53' 26" A DISTANCE OF 131.19 FEET TO THE POINT OF TANGENCY WITH A LINE HAVING A BEARING OF SOUTH 56 DEG. 06' 35" EAST THENCE SOUTH 56 DEG. 06' 35" EAST, ALONG LAST SAID LINE 448.90 FEET TO THE POINT OF INTERSECTION THEREOF WITH SAID NORTHERLY LINE OF THE LANDS OF PAVLINA; THENCE SOUTH 89 DEG. 24' 45" EAST, ALONG LAST SAID NORTHERLY LINE 218.56 FEET TO THE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM THE LANDS CONVEYED TO THE CITY OF SUNNYVALE BY DEED RECORDED MAY 16, 1975 IN BOOK B413, PAGE 39, AS INSTRUMENT NO. 5008298, OFFICIAL RECORDS OF SANTA CLARA COUNTY.

ALSO EXCEPTING THEREFROM THE LANDS CONVEYED TO THE CITY OF SUNNYVALE BY DEED RECORDED DECEMBER 22, 1976 IN BOOK C491, PAGE 377, AS INSTRUMENT NO. 5504979, OFFICIAL RECORDS OF SANTA CLARA COUNTY.

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#### **NOTICE I**

Section 12413.1 of the California Insurance Code, effective January 1, 1990, requires that any title insurance company, underwritten title company, or controlled escrow company handling funds in an escrow or sub-escrow capacity, wait a specified number of days after depositing funds, before recording any documents in connection with the transaction or disbursing funds. This statute allows for funds deposited by wire transfer to be disbursed the same day as deposit. In the case of cashier's checks or certified checks, funds may be disbursed the next day after deposit. In order to avoid unnecessary delays of three to seven days, or more, please use wire transfer, cashier's checks, or certified checks whenever possible.

If you have any questions about the effect of this new law, please contact your local First American Office for more details.

#### NOTICE II

As of January 1, 1991, if the transaction which is the subject of this report will be a sale, you as a party to the transaction, may have certain tax reporting and withholding obligations pursuant to the state law referred to below:

In accordance with Sections 18662 and 18668 of the Revenue and Taxation Code, a buyer may be required to withhold an amount equal to three and one-third percent of the sales price in the case of the disposition of California real property interest by either:

- 1. A seller who is an individual with a last known street address outside of California or when the disbursement instructions authorize the proceeds be sent to a financial intermediary of the seller, OR
- 2. A corporate seller which has no permanent place of business in California.

The buyer may become subject to penalty for failure to withhold an amount equal to the greater of 10 percent of the amount required to be withheld or five hundred dollars (\$500).

However, notwithstanding any other provision included in the California statutes referenced above, no buyer will be required to withhold any amount or be subject to penalty for failure to withhold if:

- 1. The sales price of the California real property conveyed does not exceed one hundred thousand dollars (\$100,000), OR
- 2. The seller executes a written certificate, under the penalty of perjury, certifying that the seller is a resident of California, or if a corporation, has a permanent place of business in California, OR
- 3. The seller, who is an individual, executes a written certificate, under the penalty of perjury, that the California real property being conveyed is the seller's principal residence (as defined in Section 1034 of the Internal Revenue Code).

The seller is subject to penalty for knowingly filing a fraudulent certificate for the purpose of avoiding the withholding requirement.

The California statutes referenced above include provisions which authorize the Franchise Tax Board to grant reduced withholding and waivers from withholding on a case-by-case basis.

The parties to this transaction should seek an attorney's, accountant's, or other tax specialist's opinion concerning the effect of this law on this transaction and should not act on any statements made or omitted by the escrow or closing officer.

The Seller May Request a Waiver by Contacting: Franchise Tax Board Withhold at Source Unit P.O. Box 651 Sacramento, CA 95812-0651 (916) 845-4900

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# **Privacy Policy**

# We Are Committed to Safeguarding Customer Information

In order to better serve your needs now and in the future, we may ask you to provide us with certain information. We understand that you may be concerned about what we will do with such information - particularly any personal or financial information. We agree that you have a right to know how we will utilize the personal information you provide to us. Therefore, together with our parent company, The First American Corporation, we have adopted this Privacy Policy to govern the use and handling of your personal information.

# **Applicability**

This Privacy Policy governs our use of the information which you provide to us. It does not govern the manner in which we may use information we have obtained from any other source, such as information obtained from a public record or from another person or entity. First American has also adopted broader guidelines that govern our use of personal information regardless of its source. First American calls these guidelines its *Fair Information Values*, a copy of which can be found on our website at www.firstam.com.

### **Types of Information**

Depending upon which of our services you are utilizing, the types of nonpublic personal information that we may collect include:

- Information we receive from you on applications, forms and in other communications to us, whether in writing, in person, by telephone or any other means;
- Information about your transactions with us, our affiliated companies, or others; and
- Information we receive from a consumer reporting agency.

### **Use of Information**

We request information from you for our own legitimate business purposes and not for the benefit of any nonaffiliated party. Therefore, we will not release your information to nonaffiliated parties except: (1) as necessary for us to provide the product or service you have requested of us; or (2) as permitted by law. We may, however, store such information indefinitely, including the period after which any customer relationship has ceased. Such information may be used for any internal purpose, such as quality control efforts or customer analysis. We may also provide all of the types of nonpublic personal information listed above to one or more of our affiliated companies. Such affiliated companies include financial service providers, such as title insurers, property and casualty insurers, and trust and investment advisory companies, or companies involved in real estate services, such as appraisal companies, home warranty companies, and escrow companies. Furthermore, we may also provide all the information we collect, as described above, to companies that perform marketing services on our behalf, on behalf of our affiliated companies, or to other financial institutions with whom we or our affiliated companies have joint marketing agreements.

### **Former Customers**

Even if you are no longer our customer, our Privacy Policy will continue to apply to you.

## **Confidentiality and Security**

We will use our best efforts to ensure that no unauthorized parties have access to any of your information. We restrict access to nonpublic personal information about you to those individuals and entities who need to know that information to provide products or services to you. We will use our best efforts to train and oversee our employees and agents to ensure that your information will be handled responsibly and in accordance with this Privacy Policy and First American's *Fair Information Values*. We currently maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

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# CLTA/ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE (02-03-10) EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:

(a) building;

(d) improvements on the Land;

(b) zoning;

(e) land division; and

(c) land use;

(f) environmental protection.

This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.

- 2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
- 3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
- Risks:
  - (a) that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
  - (b) that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
  - (c) that result in no loss to You; or
  - (d) that first occur after the Policy Date this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
- 5. Failure to pay value for Your Title.
- 6. Lack of a right:
  - (a) to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
  - (b) in streets, alleys, or waterways that touch the Land.
  - This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
- The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.

### LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows: For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16: 1% of Policy Amount or \$2,500.00 (whichever is less)	\$10,000.00
Covered Risk 18: 1% of Policy Amount or \$5,000.00 (whichever is less)	\$25,000.00
Covered Risk 19: 1% of Policy Amount or \$5,000.00 (whichever is less)	\$25,000.00
Covered Risk 21: 1% of Policy Amount or \$2,500.00 (whichever is less)	\$5,000.00

# ALTA RESIDENTIAL TITLE INSURANCE POLICY (6-1-87) EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

- Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
  - (a) and use
  - (b) improvements on the land
  - (c) and division
  - (d) environmental protection

This exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date.

This exclusion does not limit the zoning coverage described in Items 12 and 13 of Covered Title Risks.

- 2. The right to take the land by condemning it, unless:
  - (a) a notice of exercising the right appears in the public records on the Policy Date

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- (b) the taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking
- 3. Title Risks:
  - (a) that are created, allowed, or agreed to by you
  - (b) that are known to you, but not to us, on the Policy Date -- unless they appeared in the public records
  - (c) that result in no loss to you
  - (d) that first affect your title after the Pollcy Date -- this does not limit the labor and material lien coverage in Item 8 of Covered Title Risks
- 4. Failure to pay value for your title.
- Lack of a right:
  - (a) to any land outside the area specifically described and referred to in Item 3 of Schedule A OR
  - (b) in streets, alleys, or waterways that touch your land

This exclusion does not limit the access coverage in Item 5 of Covered Title Risks.

# 2006 ALTA LOAN POLICY (06-17-06) EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

- a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - i. the occupancy, use, or enjoyment of the Land;
  - ii. the character, dimensions, or location of any improvement erected on the Land;
  - iii. the subdivision of land; or
  - iv. environmental protection;
  - or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
  - b. Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
- 2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
- 3. Defects, liens, encumbrances, adverse claims, or other matters
  - a. created, suffered, assumed, or agreed to by the Insured Claimant;
  - b. not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
  - c. resulting in no loss or damage to the Insured Claimant;
  - d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
  - e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
- 4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
- 5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
- 6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - a. a fraudulent conveyance or fraudulent transfer, or
  - b. a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
- 7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

# **EXCEPTIONS FROM COVERAGE**

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

Page Number: 13

(a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real
property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such
proceedings, whether or not shown by the records of such agency or by the Public Records.

- 2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
- 3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
- Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate
  and complete land survey of the Land and not shown by the Public Records.
- 5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
- 6. Any lien or right to a lien for services, labor or material not shown by the public records.

# 2006 ALTA OWNER'S POLICY (06-17-06) EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

- a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - i. the occupancy, use, or enjoyment of the Land;
  - ii. the character, dimensions, or location of any improvement erected on the Land;
  - iii. the subdivision of land; or
  - iv. environmental protection;
  - or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
- b.Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
- 2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
- 3. Defects, liens, encumbrances, adverse claims, or other matters
  - a. created, suffered, assumed, or agreed to by the Insured Claimant;
  - b. not Known to the Company, not recorded in the Public Records at Date of Policy, but known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy:
  - c. resulting in no loss or damage to the Insured Claimant;
  - d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
  - e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
- 4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
- 5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
- 6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - a. a fraudulent conveyance or fraudulent transfer, or
  - b. a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
- 7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

#### **EXCEPTIONS FROM COVERAGE**

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

Page Number: 14

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.

- 2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
- 3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
- 4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
- 5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
- 6. Any lien or right to a lien for services, labor or material not shown by the public records.

# ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (07-26-10) EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

- a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - i. the occupancy, use, or enjoyment of the Land;
  - ii. the character, dimensions, or location of any improvement erected on the Land;
  - iii. the subdivision of land; or
  - iv. environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.

- b. Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
- 2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
- 3. Defects, liens, encumbrances, adverse claims, or other matters
  - a. created, suffered, assumed, or agreed to by the Insured Claimant;
  - b. not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy:
  - c. resulting in no loss or damage to the Insured Claimant;
  - d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
  - e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
- 4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
- 5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
- 6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
- 7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
- 8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
- 9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - a. a fraudulent conveyance or fraudulent transfer, or
  - b. a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.

City of Sunnyval
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777 Sunnyvale-Saratoga Road Planned Development

Appendix E Transportation Operations Analysis

# TRANSPORTATION OPERATIONS ANALYSIS

# Oppidan Grocery Store (777 Sunnyvale – Saratoga Road)

PREPARED FOR:

CITY OF SUNNYVALE



JULY 2016 | FINAL

Prepared By:



# WARNING!

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# **AUTO TRIP REDUCTION STATEMENT**

**UPDATED: October 2014** 



PROJECT INFORMA	ΠΟΝ		Relevant	TIA Section:	Proposed Site Us	se	
Project Name: Oppio	dan Grocery Sto	ore Project					
Location: 777 Sunnyvale-Saratoga Road							
<b>Description:</b> The proposed project 11,600 square feet o			of existing cus	tomer pick-up fo	r an existing hardv	vare store and c	onstruct
Size (net new):		D	.U. Residential	11,600	Sq. Ft. Comm.		Acres (Gr.)
Density:			D.U. / Acre	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Floor A	rea Ratio (FAR)
Located within	1 2000 feet wa	lking distance of a	n LRT, BRT, B	ART or Caltrain	station or major b	us stop? Yes	
PROJECT AUTO TI	RIP GENERAT	ION	Relevant	TIA Section:	Trip Generation		
Auto Trips Generate	d:	29	AM Pk Hr	95	PM Pk Hr	978	Total Weekday
Methodology (check	one)	• I	ΓΕ		Other (Please	describe below)	
Used ITE methodolo	gy to calculate	trips generated by	project and tri	p credits due to e	xisting land use.		
AUTO TRIP REDU	CTION APPRO	DACH	Relevant	TIA Section:			
☐ Stand Complete Table		☐ Peer/Stu Complete Tabl	-	_	get-Based able C below	■ Nor	e Taken
TRIP REDUCTION	REQUIREMEN	NTS	Relevant	TIA Section:			
Is the project require	ed to meet any	trip reduction red	quirements or	targets? No	If so, spec	ify percent:	
Reference code or i	equirement:						
		TRIP RI	EDUCTION	APPROACH	IES		
A. STANDARD AP	PROACH		Relevant	TIA Section:			
	Type of Re			% Reduction	Total Trips Reduced	TOTAL REDUC	TION CLAIMED
Specify red	duction. See Tab	ole 2 in TIA Guidelin	es	from ITE Rates	(AM/PM/Daily)	%	Trips
Transit							
Mixed-Use							
Financial Incentives							
Shuttle							
B. PEER/STUDY-BA	ASED APPRO	ACH	Relevant	TIA Section:			
		Basis of Red	luction			TOTAL REDUC	TION CLAIMED
						%	Trips

C. TARGET-BASED	APPROACH		Relevant	t TIA Section:			
Type of Reduction (ch			eck all that ap	oply)		TOTAL REDUCT	ΠΟΝ CLAIMED
☐ % Trip Reduction		□ % SOV m	ode share		rip Cap	%	Trips
Description		1		<u>.                                      </u>		1	
Description						]	
Time period for			Peak Period Full Day		]		
reduction		AM/PM		AM/PM			
OTHER TDM/RED	UCTION MEA	SURES	1				
Bicycle/Pedestrian		No	Relevant	t TIA Section:			
Driveways along Ma will be upraded to m							ycle parking
Parking Managemer	nt	No	Relevant	t TIA Section:			
If the nine parking sp	paces provided	for teh project is fu	all, then staff v	will direct custome	ers to park in the	main parking lot	í.
Transit		No	Relevant	t TIA Section:			
A pedestrain walkwa entrance of the build						n the site and the	e main corner
Site Planning and Do	esign	No	Relevant	t TIA Section:			
TDM Program		No	Relevant	t TIA Section:			
IMPLEMENTATIO	N		Relevant	t TIA Section:			
Have the project spo		Agency agreed to			es?		
□Monitoring							
□Enforcement							
□Data Sharing							

# **EXECUTIVE SUMMARY**

The proposed project will demolish 6,780 square feet of a customer pick-up building which is part of an existing Orchard Supply Hardware (OSH) store and construct an 11,600 square foot Oppidan Grocery Store (Project) located at 777 Sunnyvale-Saratoga Road in the City of Sunnyvale, California.

The project site is located south of El Camino Real, between S Mathilda Avenue and Sunnyvale-Saratoga Road. The site can be accessed by five existing driveways, two on S Mathilda Avenue and three on Sunnyvale-Saratoga Road. The two driveways on S Mathilda Avenue are unsignalized and restricted to right-in and right-out movements. The three driveways on Sunnyvale-Saratoga Road are also unsignalized, but are full access. However only the existing driveways which provide the most direct access to the project site was analyzed in this report.

This transportation operations analysis (TOA) study was prepared to determine potential impacts related to the project based on standards and methodologies set forth by the City of Sunnyvale (City) and the Santa Clara Valley Transportation Authority (VTA). Since the project is not expected to generate 100 or more net new peak hour trips, a comprehensive traffic impact analysis (TIA) was not required. This study includes the intersection level of service (LOS) and queuing analyses of the AM and PM peak hour traffic conditions for ten (10) intersections. However, a cumulative year analysis was not required per City of Sunnyvale TOA guidelines. This study addresses the transportation effects of the proposed project to assist the City with project planning and the identification of potential conditions of approval for the project.

# PROJECT TRIP ESTIMATES

The number of net new project trips anticipated to be added to the roadway system surrounding the project site was estimated based on data published in the Institute of Transportation Engineers' (ITE) *Trip Generation, 9<sup>th</sup> Edition.* This includes a trip credit for the existing restaurant in the PM peak hour only. The project will generate a net +29 trips in the AM peak hour and a net +95 trips in the PM peak hour.

## INTERSECTION LEVEL OF SERVICE

This study includes an LOS analysis of the AM and PM peak hour traffic conditions for ten (10) intersections analyzed in the *Traffix* software package.

# **EXISTING CONDITIONS**

It is expected that all study intersections will operate at acceptable levels of service under the Existing and Existing Plus Project conditions.

## EXISTING PLUS BACKGROUND CONDITIONS

It is expected that all study intersections will operate at acceptable levels of service under the Existing Plus Background and Existing Plus Background Plus Project conditions.

### FREEWAY LEVEL OF SERVICE

The VTA CMP guidelines dictate that a freeway segment be analyzed if the project adds the traffic equivalent of at least one percent of the freeway capacity. No freeway analysis was conducted since the

proposed Project would not add sufficient traffic to freeway segments to cause a significant impact. Therefore, no freeway analysis was required.

# VEHICLE QUEUING

Vehicle queuing for each study intersection was analyzed using the *Highway Capacity Manual*, 2000 (HCM) methodology. The 95th percentile queue length was compared to the turn pocket storage length to determine if queues would exceed the storage length. Only left turn queues were evaluated for operational deficiencies.

The City of Sunnyvale does not have a standard for queuing impacts but considers queuing issues as operational considerations. The analysis showed that a queuing storage deficiency would occur at the following intersection due to the proposed project traffic:

• #4 – Sunnyvale Avenue / El Camino Real (northbound left turn)

The following improvements is recommended for the deficiency:

• #4 – Sunnyvale Avenue / El Camino Real: Increase green time for northbound left turn movement

# SITE ACCESS AND CIRCULATION

Site access was evaluated at the project's driveways as listed below:

- Intersection #7 Southwest Project Driveway / S Mathilda Avenue
- Intersection #8 East Project Driveway / Sunnyvale-Saratoga Road
- Intersection #9 Southeast Project Driveway / Sunnyvale-Saratoga Road

All driveways are existing unsignalized intersections. Intersection #7 is restricted to right-in and right-out operations. Intersections #8 and #9 allow full access to the site. There are no proposed changes to these existing driveways with the proposed Project. The project driveways were determined to operate at an acceptable LOS with the addition of the proposed project.

A queuing analysis was conducted for each of the project driveways. The queuing analysis at the project driveways indicated that the 95<sup>th</sup> percentile queues would be no greater than one vehicle for all the Project scenarios. These queues do not exceed the throat depths for each driveway.

Vehicular circulation for the site was also reviewed. The project description states that this particular type of grocery store will have customers pre-order groceries and then arrive to pick them up. The loop on the northeast portion of the site will be used for customers to wait and have their groceries delivered to them. The loop will be circulating in one direction only, and in a clockwise manner. This should limit the number of vehicle conflict points on-site. A potential issue would be if the loop queue backs up onto Sunnyvale-Saratoga Road. However, given the proposed operations of having specific time slots for grocery pick-up, there is no anticipated queuing issues.

# PARKING REQUIREMENTS

The project proposes to have 11,600 square feet of grocery store, which equates to a minimum of 46 spaces and a maximum of 58 spaces. The proposed project provides a total of 47 parking spaces, which meets the City's parking requirements.

The project proposes 90 degree parking spaces for the carport and surface parking, with 9 feet wide and 18-foot long stalls. The proposed parking space design meets City's requirements.

# PEDESTRIAN ACCESS AND CIRCULATION

Pedestrians will most likely access the site by utilizing existing sidewalks on Sunnyvale-Saratoga Road and on Mathilda Avenue. Sidewalks along these two roadways adjacent to the project site will lead to the project's surface parking lot. On-site, within the pick-up area, there is a striped walking pathway just north of the northeast driveway for pedestrians to access the store's main entrance from Sunnyvale-Saratoga Road.

There is a sidewalk that will connect the existing sidewalk along the OSH store's frontage to the proposed project. This provides a pedestrian connection, separate from vehicular traffic, between the two stores.

# BICYCLE ACCESS AND CIRCULATION

On-site bicycle facilities and circulation is not shown on the project site plans provided. However the project will add 15 Class 1 & 2 bicycle parking spaces combined. Bicyclists can also access the City network of bicycle facilities via the bicycle lanes adjacent to the site on S Mathilda Avenue and Sunnyvale-Saratoga Road.

# TRANSIT, PEDESTRIAN, AND BICYCLE

The proposed project was evaluated to determine if it would likely conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks) or generate pedestrian, bicycle, or transit travel demand that would not be accommodated by existing transit, bicycle, or pedestrian facilities and plans.

# **TRANSIT**

For those taking transit, they can utilize the VTA bus routes that operate along El Camino Real, S Pastoria Avenue, S Sunnyvale Avenue, and South Fair Oaks Avenue adjacent to the project site. There are bus stops for VTA on either side of El Camino Real and South Fair Oaks Avenue that provide access to the local transit system. In addition the project would not conflict with existing or planned transit facilities.

Transit vehicle delay was also observed for each transit route. Transit vehicles for the transit routes in the study area are expected to use the shared right-of-way with other motorists. Since the proposed project is anticipated to increase the vehicle delay at study intersections, transit vehicle delay may increase. The increases in transit vehicle delay are all less than four seconds in the AM and PM peak hours. This increase in transit vehicle delay should not affect the overall schedule for the transit routes.

Since the project does not conflict with exiting or planned transit facilities and there are adequate facilities for pedestrian and bicycles to access transit stops, the project will have a **less than significant impact** on transit services.

# **PEDESTRIAN**

There are existing sidewalks along the project site's frontage on Sunnyvale-Saratoga Road and on Mathilda Avenue. It is anticipated that pedestrians would use these sidewalks along the project site's frontages to access the adjacent land uses and the transit stops nearby. At each of the signalized intersections near the

project site there are striped crosswalks for each direction, allowing pedestrians to more safely cross the adjacent roadways.

The project will have a **less than significant impact** on pedestrian service.

# **BICYCLE**

Bicyclists will have direct access to the project site using bicycle lanes on S Mathilda Avenue and Sunnyvale-Saratoga Road. These bicycle lanes provide access to the project site and other bicycle facilities throughout the City.

The proposed project does not appear to impact the safety of bicyclists or have any hazardous design features impeding the use of bicycles facilities. Since the proposed project does not conflict with any adopted policies or plans related to bicycle activity, the proposed project will have a **less than significant impact** on bicycle service.

# 1. INTRODUCTION

This report presents the results of the transportation operations analysis (TOA) for the proposed Oppidan Grocery Store project located in the City of Sunnyvale, California. The proposed project ("Project") will demolish 6,780 square feet of a customer pick-up building which is part of an existing Orchards Supply Hardware (OSH) store and construct 11,600 square feet of a grocery retail business.

**Figure 1** illustrates the location of the project site in relation to the adjacent roadway network in Sunnyvale. The site can be accessed by five existing driveways, two on S Mathilda Avenue and three on Sunnyvale-Saratoga Road. The two driveways on S Mathilda Avenue are unsignalized and restricted to right-in and right-out movements. The three driveways on Sunnyvale-Saratoga Road are also unsignalized, but are full access. However only the existing driveways which provide the most direct access to the project site were analyzed in this report.

This transportation operations analysis study was prepared to determine potential impacts related to the project based on standards and methodologies set forth by the City of Sunnyvale (City) and the Santa Clara Valley Transportation Authority (VTA). Since the project is not expected to generate 100 or more net new peak hour trips, a comprehensive traffic impact analysis (TIA) was not required. This study includes the intersection level of service (LOS) and queuing analyses of the AM and PM peak hour traffic conditions for ten (10) intersections. A cumulative year analysis was not required per City of Sunnyvale TOA guidelines. This study addresses the transportation effects of the proposed project to assist the City with project planning and the identification of potential conditions of approval for the project.

# STUDY AREA

The proposed project will generate new vehicular trips that will increase traffic volumes on the nearby street network. To assess changes in traffic conditions associated with the proposed project, the following intersections in **Table 1** were analyzed. The study intersections are illustrated in **Figure 1**.

Table 1 - Study Intersections

#	Intersection
1	S Mary Avenue / El Camino Real
2	S Pastoria Avenue-Hollenbeck Avenue / El Camino Real
3	S Mathilda Avenue / El Camino Real
4	S Sunnyvale Avenue / El Camino Real
5	Cezanne Drive / El Camino Real
6	S Fair Oaks Avenue / El Camino Real
7	S Mathilda Avenue / Southwest Project Driveway
8	Sunnyvale-Saratoga Road / East Project Driveway
9	Sunnyvale-Saratoga Road / Southeast Project Driveway
10	S Mathilda Avenue - Sunnyvale-Saratoga Road / Talisman Drive – Sunnyvale-Saratoga Road

# TRAFFIC CONDITIONS

This TOA was based on the following traffic conditions:

- Existing Conditions Based on traffic counts collected from September 2013, May 2014, December 2014, June 2015, and December 2015. Existing roadway geometry and traffic control in 2015 were used for this scenario.
- Existing Plus Project Conditions Based on existing traffic volumes added to traffic generated by the proposed project. Existing roadway geometry with proposed project roadway improvements and traffic controls are assumed for this scenario.
- Existing Plus Background Condition Based on existing traffic volumes added to traffic from approved projects in the study area (provided by City staff and dated December 2015).
- Existing Plus Background Plus Project Conditions Based on existing traffic volumes added to traffic from approved projects in the study area and traffic generated by the proposed project.

# STUDY METHODOLOGY

Analysis of significant environmental impacts at intersections and freeway segments is based on the concept of level of service (LOS). The LOS of an intersection is a qualitative measure used to describe operational conditions. LOS ranges from A (best), which represents minimal delay, to F (worst), which represents heavy delay and a facility that is operating at or near its functional capacity. Levels of service for this study were determined using methods defined in the *Highway Capacity Manual*, 2000 (HCM) and appropriate traffic analysis software.

# INTERSECTION LEVEL OF SERVICE

The HCM includes procedures for analyzing side-street stop-controlled (SSSC), all-way stop-controlled (AWSC), and signalized intersections. The SSSC procedure defines LOS as a function of average control delay for each minor street approach movement and major street left-turns. Conversely, the AWSC and signalized intersection procedures define LOS as a function of average control delay for the intersection as a whole. VTA has specific delay threshold values for each LOS that is more detailed than that of the HCM. Pluses and minuses are added to the HCM ranges to further designate the LOS for signalized intersections. **Table 2** relates the operational characteristics associated with each LOS category for signalized intersections<sup>1</sup>.

**Table 3** relates the operational characteristics associated with each LOS category for unsignalized intersections<sup>2</sup>.

<sup>&</sup>lt;sup>1</sup> VTA Congestion Management Program, Traffic Level of Service Analysis Guidelines, June 2003.

<sup>&</sup>lt;sup>2</sup> Transportation Research Board, *Highway Capacity Manual 2000*, National Research Council, 2000

Table 2 - Signalized Intersection Level of Service Definitions

Level of Service	Description	Signalized (Avg. control delay per vehicle sec/veh.)
А	Free flow with no delays. Users are virtually unaffected by others in the traffic stream	delay ≤ 10.0
B+ B B-	Stable traffic. Traffic flows smoothly with few delays.	$10.0 < \text{delay} \le 12.0$ $12.0 < \text{delay} \le 18.0$ $18.0 < \text{delay} \le 20.0$
C+ C C-	Stable flow but the operation of individual users becomes affected by other vehicles. Modest delays.	$20.0 < \text{delay} \le 23.0$ $23.0 < \text{delay} \le 32.0$ $32.0 < \text{delay} \le 35.0$
D+ D D-	Approaching unstable flow. Operation of individual users becomes significantly affected by other vehicles. Delays may be more than one cycle during peak hours.	$35.0 < \text{delay} \le 39.0$ $39.0 < \text{delay} \le 51.0$ $51.0 < \text{delay} \le 55.0$
E+ E E-	Unstable flow with operating conditions at or near the capacity level. Long delays and vehicle queuing.	55.0 < delay ≤ 60.0 60.0 < delay ≤ 75.0 75.0 < delay ≤ 80.0
F	Forced or breakdown flow that causes reduced capacity. Stop and go traffic conditions. Excessive long delays and vehicle queuing.	delay > 80

**Table 3 - Unsignalized Intersection Level of Service Definitions** 

Level of Service	Description	Unsignalized (Avg. control delay per vehicle sec/veh.)
А	Free flow with no delays. Users are virtually unaffected by others in the traffic stream	≤ 10
В	Stable traffic. Traffic flows smoothly with few delays.	> 10 – 15
С	Stable flow but the operation of individual users becomes affected by other vehicles. Modest delays.	> 15 – 25
D	Approaching unstable flow. Operation of individual users becomes significantly affected by other vehicles. Delays may be more than one cycle during peak hours.	> 25 – 35
Е	Unstable flow with operating conditions at or near the capacity level. Long delays and vehicle queuing.	> 35 – 50
F	Forced or breakdown flow that causes reduced capacity. Stop and go traffic conditions. Excessive long delays and vehicle queuing.	> 50

Project impacts were determined by comparing conditions with the proposed project to those without the proposed project. Significant impacts for signalized and unsignalized intersections are created when traffic from the proposed project causes the LOS to fall below a specific threshold. For unsignalized intersections, a deficient LOS suggests recommendations for improvements to the type of traffic control, such as signalization. A peak hour signal warrant was evaluated to determine if the intersection met the volume requirements for a traffic signal.

Consistent with the significance impact criteria documented in the *Transportation Impact Analysis Guidelines*<sup>3</sup>, VTA accepts a minimum level of service of LOS E for a County intersection or Congestion Management Program (CMP) intersection. The City utilizes the same VTA LOS standards for all intersections on regionally significant roadways such as El Camino Real, Sunnyvale-Saratoga Road, and Mathilda Avenue. Therefore, the following conditions would result in a significant impact at a CMP intersection or regionally significant roadway intersection:

- 1. If the intersection operates at an acceptable LOS (i.e. LOS A, B, C, D, or E) without the project and degrades to an unacceptable LOS (i.e. LOS F) with the project, then it is a significant impact.
- 2. If the intersection operates at an unacceptable LOS (i.e. LOS F) without the project and the project increases the average control delay for the critical movements by four (4) or more seconds and increases the critical volume to capacity (v/c) by 0.01 or more, then it is a significant impact.
  - a. If the addition of project traffic reduces the amount of average control delay for a critical movement (i.e. negative change in delay) and the project increases the v/c by 0.01 or more, then it is a significant impact.

Mitigation for intersections with a significant impact must improve the LOS back to without Project conditions or better.

The LOS standard for City of Sunnyvale intersections is LOS D except for City of Sunnyvale intersections that are designated as regionally significant, which allows for a minimum level of service of LOS E. Therefore, the following conditions would result in a significant impact at a City intersection:

- 1. If the intersection operates at an acceptable LOS (i.e. LOS A, B, C, or D) without the project and degrades to an unacceptable LOS (i.e. LOS E, or F) with the project, then it is a significant impact.
- 2. If the intersection operates at an unacceptable LOS (i.e. LOS E, or F) without the project and the project increases the critical-movement delay of four (4) or more seconds and increased the critical volume to capacity (v/c) by 0.01 or more, then it is a significant impact.

The City of Sunnyvale does not have an officially adopted significance criterion for unsignalized intersections. Based on previously approved traffic studies, significant impacts are defined to occur when:

- 1. The addition of project traffic causes the average intersection delay for all-way stop controlled intersections or the worst movement/approach for side-street stop-controlled intersections to degrade to LOS E or LOS F for regionally significant roadways, respectively.
- 2. The intersection satisfies any traffic signal warrant from the MUTCD.

Mitigation for intersections with a significant impact must improve the LOS back to without Project Conditions or better.

<sup>&</sup>lt;sup>3</sup> Transportation Impact Analysis Guidelines, Santa Clara Valley Transportation Authority Guidelines, October 2014.

#### SIGNAL WARRANTS

Traffic signals may be justified when traffic operations fall below acceptable thresholds and when one or more signal warrants are satisfied. Traffic volumes at the unsignalized study intersections were compared against the peak hour warrant in the 2014 California Manual on Uniform Traffic Control Devices (CA MUTCD)<sup>4</sup>. *Traffic Signal Warrant #3 – Peak Hour Volume Warrant* is satisfied when traffic volumes on the major and minor approaches exceed volume thresholds for one hour of the day. The Peak Hour Warrant is generally the first warrant to be satisfied. Other warrants such as those for minimum vehicle volumes, interruption of continuous traffic, and traffic progression were not evaluated because they generally require higher traffic volumes to be satisfied.

#### **QUEUING**

The effects of vehicle queuing were also analyzed and the 95th percentile queue is reported for all study intersections. The 95th percentile queue length represents a condition where 95 percent of the time during the peak hour, traffic volumes will be less than or equal to the queue length determined by the analysis. This is referred to as the "95th percentile queue."

Queues that exceed the turn pocket length can create potentially hazardous conditions by blocking or disrupting through traffic in adjacent travel lanes. However, these potentially hazardous queues are generally associated with left turn movements. Locations where the right turn pocket storage is exceeded are not typically considered potentially hazardous because the right turn movement progresses at the same time as the through movement and the additional vehicles that spill out of the turn pocket are less likely to hinder nor disrupt the adjacent through traffic.

The City of Sunnyvale does not have standards for queuing and considers queuing deficiencies as operational issues. Thus, for purposes of this analysis, operational deficiencies were considered to occur under conditions where project traffic causes the queue in a left turn pocket to extend beyond the turn pocket by 25 feet or more (i.e., the length of one vehicle) into adjacent traffic lanes that operate separately from the left turn lane. Where the vehicle queue already exceeds that turn pocket length under pre-project conditions, a queuing deficiency would occur if project traffic lengthens the queue by 25 feet or more.

#### FREEWAY SEGMENTS

Impacts on nearby freeway segments were evaluated in accordance with VTA CMP guidelines. The guidelines dictate that a freeway segment be analyzed if the proposed project adds traffic equivalent to at least one percent of the freeway capacity. The analysis shows that the proposed Project would not add sufficient traffic to freeway segments to cause a potential significant impact; therefore, no further freeway analysis is required. The analysis to determine whether the study freeway segments met the VTA thresholds is shown in the **Appendix**.

#### TRANSIT IMPACTS

Impacts on the transit system were evaluated in accordance with VTA guidelines. Transit analysis evaluated existing VTA bus routes that currently run within the study area, particularly through any study intersections. The impacts of the project to the transit system, such as possible increase in demand or vehicle delay was

<sup>&</sup>lt;sup>4</sup> California Manual on Uniform Traffic Control Devices, (FHWA's MUTCD 2009 Edition, as amended for use in California), November 7, 2014

analyzed. It should be noted, that the VTA TIA guidelines, does not have significance criteria for transit impacts, therefore the transit analysis is stated for informational purposes.

#### REPORT ORGANIZATION

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

- Chapter 2: Existing Conditions describes existing conditions on the roadway network, transit system, pedestrian facilities, and bicycle facilities.
- Chapter 3: Existing Plus Project Conditions describes the proposed project, trip generation, and estimated impact on the transportation system under Existing Plus Project Conditions.
- Chapter 4: Existing Plus Background Traffic Conditions describes the traffic conditions under Existing Plus Background Conditions with and without the proposed project.
- Chapter 5: Vehicle Queuing and Site Access and Circulation describes vehicle queuing analysis at the study intersections and site access and circulation for the proposed project.
- Chapter 6: Potential Effects on Transit, Bicycle and Pedestrian describes potential effects the proposed project will have on the transit system, pedestrian facilities, and bicycle facilities.
- Chapter 7: Summary of Impacts and Recommended Mitigation summarizes the evaluated project impacts and proposed mitigations.
- Chapter 8: Summary of Queuing Deficiencies and Recommended Improvements summarizes the proposed project queuing deficiencies and presents recommendations for improvements.

### 2. EXISTING CONDITIONS

This chapter describes the existing conditions of the roadway network, transit service, pedestrian facilities, and bicycle facilities within the vicinity of the project site. The chapter also presents existing turning movement volumes and intersection levels of service.

#### EXISTING ROADWAY NETWORK

This section provides a description of the principal roadways included in this study.

#### STATE ROUTE 82 (EL CAMINO REAL)

State Route 82 or El Camino Real is a six-lane east-west arterial roadway with a raised median within the study area. El Camino Real has bicycle lanes between Sunnyvale Avenue and Fair Oaks Avenue. El Camino Real connects several counties in the Bay Area and provides access to residential, commercial, and office land uses. Within the study area, the posted speed limit on El Camino Real is 40 miles per hour.

#### **CEZANNE DRIVE**

Cezanne Drive is a two-lane north-south local roadway serving residential, commercial, and office land uses. There is a two-way left-turn lane (TWLTL) and a bicycle lane on Cezanne Drive between El Camino Real and Old San Francisco Road. Cezanne Drive connects Brahms Way on the south side to Old San Francisco Road on the north side. The speed limit on Cezanne Drive is 25 miles per hour.

#### FAIR OAKS AVENUE

Fair Oaks Avenue is a four lane north-south arterial roadway within the study area serving residential, commercial, and office land uses. Fair Oaks Avenue has bicycle lanes between El Camino Real and Old San Francisco Road and street parking north of Old San Francisco Road. Fair Oaks Avenue connects SR-237 on the north end to El Camino Real on the south end. South of El Camino Real, Fair Oaks Avenue becomes Remington Drive. The speed limit on Fair Oaks Avenue is 35 miles per hour within the study area.

#### MARY AVENUE

Mary Avenue is a four-lane north-south arterial roadway. Mary Avenue connects to Central Expressway to the north and serves residential and commercial land uses. The posted speed on Mary Avenue is 35 mph in the study area.

#### MATHILDA AVENUE

Mathilda Avenue is a six-lane north-south arterial roadway with a divided median within the study area. Mathilda Avenue connects Caribbean Drive on the north side and transitions into Sunnyvale-Saratoga Road on the south side. Mathilda Avenue provides access to US-101 and SR-237. Mathilda Avenue provides access to office, residential, and commercial land uses. North of El Camino Real, the posted speed limit on Mathilda Avenue is 35 miles per hour. South of El Camino Real, the posted speed limit is 40 miles per hour.

#### PASTORIA AVENUE-HOLLENBECK AVENUE

Pastoria Avenue is a four-lane roadway between Olive Avenue and El Camino Real. South of El Camino Real, Pastoria Avenue becomes Hollenbeck Avenue, which is a four-lane roadway with a two-way left turn

lane (TWLTL). The speed limit on Pastoria Avenue is 25 mph and Hollenbeck Avenue is 30 mph in the study area.

#### SUNNYVALE AVENUE/SUNNYVALE-SARATOGA ROAD

Sunnyvale Avenue is a two to four lane north-south arterial roadway within the study area. North of El Camino Real, Sunnyvale Avenue has one lane in each direction with a TWLTL and bicycle lanes. Sunnyvale Avenue connects El Camino Real on the south side to Maude Avenue on the north side. South of El Camino Real, Sunnyvale Avenue becomes Sunnyvale-Saratoga Road and opens up to two lanes in each direction. Sunnyvale Avenue provides access to residential and commercial land uses. The speed limit on Sunnyvale Avenue is 30 miles per hour north of El Camino Real and is 35 miles per hour south of El Camino Real.

#### **EXISTING TRANSIT FACILITIES**

Santa Clara Valley Transportation Authority (VTA) and Caltrain provide transit services within Sunnyvale and other cities in Santa Clara County. The existing transit services within the study area are shown in **Figure 2** and described in this section.

#### VTA BUS SERVICES

VTA has multiple bus routes near the project site and throughout Santa Clara County. Many routes (such as Routes 32, 53, 54, 304, etc.) operate within the study area, but do not operate near the proposed site, and therefore only routes that service the nearby area of the proposed project are described in this section.

**Route 22** is a local bus service that operates between the Palo Alto Transit Center and the Eastridge Transit Center. In the vicinity of the proposed project, Route 22 operates on El Camino Real. On weekdays, Route 22 operates 24 hours a day on approximately 10-minute to 50-minute headways. On Saturdays and Sundays, Route 22 operates 24 hours a day on approximately 10-minute to 60-minute headways. Near the proposed project site, there is a bus stop for Route 22 near the intersection of El Camino Real and Sunnyvale Avenue.

**Route 54** is a local bus service that operates between De Anza College and the Sunnyvale Lockheed Martin Transit Center. In the vicinity of the proposed project, Route 54 operates on Pastoria Avenue/ Hollenbeck Avenue. On weekdays, Route 54 operates between 6:01 AM and 9:28 PM on approximately 30-minute to 70-minute headways. On Saturdays, Route 54 operates between 7:58 AM and 7:52 PM on approximately 40-minute to 60-minute headways. On Sundays, Route 54 operates between 8:56 AM and 7:24 PM on approximately 40-minute to 60-minute headways. Near the proposed project site, there are bus stops for Route 54 near the intersections of Mathilda Avenue and Olive Avenue.

**Route 55** is a local bus service that operates between De Anza College and the Old Ironsides/Great America stop. In the vicinity of the proposed project, Route 55 operates on Fair Oaks Avenue south of Old San Francisco Road and then travels on Old San Francisco Road, west of Fair Oaks Avenue. On weekdays, Route 55 operates between 5:35 AM and 11:12 PM on approximately 30-minute to 60-minute headways. On Saturdays, Route 55 operates between 7:40 AM and 9:11 PM on approximately 30-minute to 60-minute headways. On Sundays, Route 55 operates between 7:53 AM and 8:35 PM on approximately 30-minute to 60-minute headways. Near the proposed project site, there are bus stops for Route 55 near the intersections of Sunnyvale Avenue and Old San Francisco Road.

**Route 522** is a bus rapid transit (BRT) line that operates between the Palo Alto Transit Center and the Eastridge Transit Center. In the vicinity of the proposed project, Route 522 operates on El Camino Real.

On weekdays, Route 522 operates between 4:37 AM and 11:26 PM on approximately 15-minute to 30-minute headways. On Saturdays, Route 522 operates between 7:50 AM and 11:11 PM on approximately 15-minute to 30-minute headways. On Sundays, Route 522 operates between 8:33 AM and 7:34 PM on approximately 15-minute to 30-minute headways. Near the proposed project site, there is a bus stop for Route 522 near the intersection of El Camino Real and Pastoria Avenue/Hollenbeck Avenue.

#### **CALTRAIN**

Caltrain provides commuter-heavy rail services between San Francisco County and Santa Clara Country. The nearest Caltrain station to the project site is the Sunnyvale Station located approximately one mile north, off of Evelyn Avenue to the east of Mathilda Avenue. During the weekday AM peak period (7-9AM), the Sunnyvale Station is served by seven northbound limited-stop trains, two northbound Baby Bullet trains, and two southbound limited-stop trains. During the weekday PM peak period (4-6 PM), the station is served by two northbound limited-stop trains, one southbound local train, four southbound limited-stop trains, and one Baby Bullet train. At the Sunnyvale Station, there is a connection to VTA bus route 55, which has a bus stop near the proposed project site at the intersection of Sunnyvale Avenue and Old San Francisco Road.

#### **EXISTING PEDESTRIAN FACILITIES**

Sidewalks and crosswalks are present on both sides of the street along the major roadways in the study area to allow pedestrians access to nearby transit stops, residential uses, and commercial uses.

#### EXISTING BICYCLE FACILITIES

Figure 3 shows existing bicycle facilities within the study area.

There are no Class I bicycle paths within the vicinity of the project.

Class II bicycle lanes are located in the City of Sunnyvale within the vicinity of the project. The following is a list of the Class II bicycle lanes near the study area:

- Cezanne Drive between Old San Francisco Road and El Camino Real
- El Camino Real between Sunnyvale Avenue and Fair Oaks Avenue
- Fair Oaks Avenue/Remington Drive between Bernardo Avenue and Old San Francisco Road (future bicycle lanes planned between Old San Francisco Road and Evelyn Avenue)
- Hollenbeck between El Camino Real and Danforth Drive
- Manet Drive between Remington Drive and Crescent Avenue
- Mathilda Avenue between El Camino Real and Sunnyvale Saratoga Road
- Michelangelo Drive between Remington Drive and Sunnyvale Community Center Park Driveway
- Old San Francisco Road / Reed Avenue between Sunnyvale Avenue and Lawrence Expressway
- Sunnyvale Avenue between Evelyn Avenue and El Camino Real
- Sunnyvale-Saratoga Road between El Camino Real and Homestead Road
- Mary Avenue between Homestead Road and Fremont Avenue (Future bicycle lanes planned between Fremont Avenue and Iowa Avenue)

Class III bicycle routes are located in the City of Sunnyvale within the vicinity of the project. The following is a list of the Class III bicycle routes near the study area:

Mary Avenue between Fremont Avenue and Maude Avenue

## EXISTING IMPROVEMENT FUNDING AND ESTABLISHED MITIGATION PROGRAMS

The City of Sunnyvale has a General Plan that sets forth goals, policies, and actions for developing the transportation network in Sunnyvale. Resulting from the goals, policies, and actions from the General Plan are transportation improvement projects that will help mitigate the increased vehicular demand on the network. These roadway projects will be funded from multiple revenue sources, such as the Transportation Impact Fee Ordinance and the City's Transportation Strategic Program.

#### TRANSPORTATION IMPACT FEE ORDINANCE

The City of Sunnyvale has a transportation impact fee fund in its Municipal Code. Chapter 3.50 details the transportation impact fee and its use of funds. The use of funds is only to complete traffic improvement projects as specified in the Transportation Strategic Program.

The fees are calculated for non-residential uses on a per square foot basis for all new gross floor area. Fees for existing buildings that change in land use are based on the incremental difference between the peak hour trips generated by the prior land use compared to the proposed new use.

The fees are due before any building permits are issued or before any conversion of use to an existing building can be completed.

#### CITY'S CAPITAL IMPROVEMENT PROGRAM

The City of Sunnyvale has a Capital Improvement Plan (CIP) to ensure the maintenance and infrastructure replacement of the City's transportation network. The City updates the budget every two years for the 20-year future. The CIP has taken into account Long Range plans such as the Valley Transportation Plan 2040, the Transportation Strategic Program, the Downtown Specific Plan (2003), the Bicycle CIP, the 2007 Pedestrian Safety and Opportunities Study, the Tasman/Fair Oaks Bicycle and the Pedestrian Circulation Plan.

The total traffic and transportation amount budgeted for the 2015-2016 fiscal year is \$11,516,170<sup>5</sup>. Budgeted transportation projects include the City's share of development related street improvements, traffic signal controllers, and hardware/wiring improvements.

#### EXISTING LANE CONFIGURATION AND TRAFFIC CONTROL

Existing intersection lane configuration and traffic controls are illustrated in **Figure 4**. **Table 4** lists the existing traffic control for each study intersection.

<sup>&</sup>lt;sup>5</sup> Recommended Budget and Resource Allocation Plan – City of Sunnyvale, California - Fiscal Year 2015/2016, City of Sunnyvale.

Table 4 - Study Intersections and Traffic Control

#	Intersection	Traffic Control
1	S Mary Avenue / El Camino Real	Signal
2	S Pastoria Avenue-Hollenbeck Avenue / El Camino Real	Signal
3	S Mathilda Avenue / El Camino Real	Signal
4	S Sunnyvale Avenue / El Camino Real	Signal
5	Cezanne Drive / El Camino Real	Signal
6	S Fair Oaks Avenue / El Camino Real	Signal
7	S Mathilda Avenue / Southwest Project Driveway	SSSC
8	Sunnyvale-Saratoga Road / East Project Driveway	SSSC
9	Sunnyvale-Saratoga Road / Southeast Project Driveway	SSSC
40	S Mathilda Avenue - Sunnyvale-Saratoga Road /	Signal
10	Talisman Drive – Sunnyvale-Saratoga Road	
Note: S	SSC - Side-Street Stop Control	

#### EXISTING PEAK-HOUR TURNING MOVEMENT VOLUMES

Weekday intersection turning movement volumes for study intersections were collected from September 2013, May 2014, December 2014, June 2015, and December 2015. Volumes were collected during the AM (7:00-9:00 AM) peak period and PM (4:00-6:00 PM) peak period on a weekday when local schools were in session. Since count volumes were collected during different months, volumes between intersections along El Camino Real, Mathilda Avenue, and Sunnyvale-Saratoga Avenue were checked to determine if there were any large discrepancies. Generally, it was found that the difference in volume between adjacent study intersections could be justified based on the surrounding land uses and driveway entrances between study intersections. The only adjustments made were to the volumes between the northeast and southeast project driveway on Sunnyvale-Saratoga Road because there were no mid-block driveways or cross-streets between these two intersections. The volumes were balanced between the two intersections by increasing the lower volume to match the higher volume. The hand calculations are provided in the **Appendix**. Intersection volume data sheets for all traffic counts are provided in the **Appendix**. Peak hour turning movement volumes are shown in **Figure 5**.

#### EXISTING INTERSECTION LEVEL OF SERVICE

Traffic operations were evaluated at the study intersections under existing traffic conditions. Results of the analysis are presented in **Table 5**. **Table 5** lists the LOS criteria, jurisdiction, intersection control, LOS, delay, and v/c ratio for each intersection. All study intersections function within acceptable LOS standards under this analysis scenario.

In addition, none of the unsignalized intersections met the peak hour signal warrant for the Existing condition in the AM and PM peak hours. Analysis sheets are provided in the **Appendix**.

Table 5 - Existing Intersection Level of Service Summary

					Existing								
#	Intersection	LOS	Jurisdiction	Control		AM Peak			(				
#	IIILEIS ECUOTI	Criteria	Julisuicuoli	Control	LOS	Delay (sec) <sup>1</sup>	v/c Ratio	LOS	Delay (sec) <sup>1</sup>	v/c Ratio			
1	S Mary Avenue / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	D+	36.0	0.649	D	39.5	0.758			
2	S Pastoria Avenue / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	С	30.2	0.512	С	30.3	0.577			
3	S Mathilda Avenue / El Camino Real <sup>2,3,4</sup>	Е	City / Caltrans	Signal	D+	38.8	0.773	D	47.1	0.774			
4	S Sunnyvale Avenue / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	С	31.0	0.407	С	31.4	0.593			
5	Cezanne Drive / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	B-	18.9	0.36	B-	19.7	0.459			
6	S Fair Oaks Avenue / El Camino Real <sup>2,3</sup>	Е	City / Caltrans	Signal	D	39.1	0.531	D	39.1	0.755			
7	S Mathilda Avenue / Southwest Project Driveway <sup>4</sup>	D	City	SSSC	В	14.4	0.042	Α	9.6	0.030			
8	Sunnyvale-Saratoga Road / East Project Driveway <sup>5</sup>	Е	City	SSSC	В	11.3	0.017	В	14.6	0.060			
9	Sunnyvale-Saratoga Road / Southeast Project Driveway <sup>5</sup>	Е	City	SSSC	Α	9.5	0.013	В	10.9	0.035			
10	S Mathilda Avenue - Sunnyvale-Saratoga Road / Talisman Drive - Sunnvyale-Saratoga Road 4,5	Е	City	Signal	B-	18.4	0.514	С	25.1	0.515			

<sup>1</sup> The average control delay is reported for signalized intersections. The delay for the worst movement is reported for SSSC intersections.

<sup>2</sup> El Camino Real is a regionally significant roadway with LOS E threshold.

<sup>3</sup> S Mathilda Avenue / El Camino Real (#2), S Fair Oaks / El Camino Real (#5) are CMP intersections with LOS E threshold.

<sup>4</sup> Mathilda Avenue is a regionally significant roadway with LOS E threshold between Carribean Drive and El Camino Real.

<sup>5</sup> Sunnyvale-Saratoga Road is a regionally significant roadway with LOS E threshold between El Camino Real and I-280.

## 3. EXISTING PLUS PROJECT CONDITIONS

This chapter presents a description of the proposed site use, trip generation, trip distribution, and trip assignment, as well as impacts of the proposed project on the transportation system.

#### PROPOSED SITE USE

The current site consists of 55,104 square foot Orchard Supply Hardware (OSH) that includes a garden center and customer pick-up area. The proposed project will demolish the 6,780 square foot OSH customer pick-up area and construct an 11,600 square foot grocery store. The Project trips will use three of the five existing OSH driveways, which provide the most direct access to the site. These driveways include one driveway on S Mathilda Avenue and two driveways on Sunnyvale-Saratoga Road. The driveway on S Mathilda Avenue is the southwest driveway, which is unsignalized and restricted to right-in and right-out movements. The two driveways on Sunnyvale-Saratoga Road are the east and southeast driveways, which are also unsignalized, but are full access.

The site plan for the proposed site is shown in Figure 6.

#### TRIP GENERATION

Trip generation for projects is typically calculated based on information contained in the Institute of Transportation Engineers' (ITE) publication, *Trip Generation, 9th Edition*.<sup>6</sup> The manual is a standard reference used by jurisdictions throughout the country for the estimation of trip generation potential of proposed projects.

A trip is defined in the *Trip Generation Manual* as a single or one-directional vehicle movement with either the origin or destination at the project site. In other words, a trip can be either "to" or "from" the site. In addition, a single customer visit to a site is counted as two trips (i.e., one to and one from the site).

For purposes of determining the worst-case impacts of traffic on the surrounding street network, the trips generated by a proposed project are estimated between the hours of 7:00 AM and 9:00 AM and between 4:00 PM and 6:00 PM on a typical weekday.

The proposed project would demolish the existing OSH customer pick-up area which is a part of the Home Improvement Superstore (ITE Land Use 862) and would construct a new building consisting of Supermarket (ITE Land Use 850). A trip credit was taken for the existing OSH customer pick-up area.

#### TRIP GENERATION

**Table 6** presents the trip generation for the proposed project. The project will generate approximately +29 net new trips in the AM peak period and +95 net new trips in the PM peak period. Trip generation calculation sheets are provided in the **Appendix**.

<sup>&</sup>lt;sup>6</sup> Trip Generation, 9<sup>th</sup> Edition, Institute of Transportation Engineers, 2012.

**Table 6 - Project Trip Generation** 

TIME DEDICE	TIME PERIOD LAND USE					
HIME PERIOD		LAND USE	ln	Out	Total	
	Existing	Home Improvement Superstore (55.104 KSF)	(847)	(847)	(1,694)	
Doily	Droinet	Home Improvement Superstore (48.324 KSF)	743	743	1,486	
Daily	Project	Supermarket (11.6 KSF)	593	593	1,186	
		Net New Trips	489	489	978	
	Existing	Home Improvement Superstore (55.104 KSF)	(47)	(35)	(82)	
AM Peak	Droinet	Home Improvement Superstore (48.324 KSF)	41	31	72	
AIVI Peak	Project	Supermarket (11.6 KSF)	24	15	39	
		Net New Trips	18	11	29	
	Existing	Home Improvement Superstore (55.104 KSF)	(63)	(65)	(128)	
PM Peak	Droinet	Home Improvement Superstore (48.324 KSF)	55	58	113	
Fivi Peak	PM Peak Project Supermarket (11.6 KSF)		56	54	110	
		Net New Trips	48	47	95	

#### PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

Project trip distribution was developed based on existing traffic count information and general orientation of population centers to the site. The distribution was reviewed by the City and approved for use in this TOA. **Figure 7** presents the traffic distribution assumed for this analysis.

Based on the assumed trip distribution and assignment, the net new vehicles trips generated by the project were assigned to the street network as shown in **Figure 8.** 

#### EXISTING PLUS PROJECT INTERSECTION LEVEL OF SERVICE

Traffic operations were evaluated at the study intersections under existing conditions plus traffic generated by the project, as seen on **Figure 9**. Results of the analysis are presented in **Table 7**. All study intersections function within acceptable LOS standards under this analysis scenario. Thus, the project has a less than significant impact at all study intersections and no mitigation measures are required.

It should be noted that for some intersections, the reported delay improved with the addition of the project trips. The reason for this occurrence is because the trips were primarily added to the through lane movements, which had a lower movement delay than the average intersection delay, and thereby decreases the overall average delay.

In addition, none of the unsignalized intersections met the peak hour signal warrant for the Existing Plus Project condition in the AM and PM peak hours. Analysis sheets are provided in the **Appendix**.

Table 7 - Existing Plus Project Intersection Level of Service Summary

								Existing						Existing Plus Project									
					AM Peak			PM Peak			AM Peak					PM Peak							
	Intersection	LOS Criteria	Jurisdiction	Control	LOS	OS Delay v/c (sec) <sup>1</sup> Ratio		LOS	Delay (sec) <sup>1</sup>	v/c Ratio	LOS	Delay (sec) <sup>1</sup>	v/c Ratio	v/c Var.	Crit. Delay Var.	LOS	Delay (sec) <sup>1</sup>	v/c Ratio	v/c Var.	Crit. Delay Var.			
1	S Mary Avenue / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	D+	36.0	0.649	D	39.5	0.758	D+	36.0	0.651	0.002	0.1	D	39.7	0.764	0.006	0.3			
2	S Pastoria Avenue / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	С	30.2	0.512	С	30.3	0.577	С	30.2	0.513	0.001	0.0	С	30.2	0.582	0.005	-0.1			
3	S Mathilda Avenue / El Camino Real <sup>2,3,4</sup>	Е	City / Caltrans	Signal	D+	38.8	0.773	D	47.1	0.774	D+	38.8	0.774	0.001	0.0	D	47.3	0.779	0.005	0.3			
4	S Sunnyvale Avenue / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	С	31.0	0.407	С	31.4	0.593	С	31.2	0.411	0.004	0.3	Ċ	32.3	0.616	0.023	1.3			
5	Cezanne Drive / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	B-	18.9	0.360	B-	19.7	0.459	B-	18.9	0.360	0.000	0.0	B-	19.6	0.460	0.001	0.0			
6	S Fair Oaks Avenue / El Camino Real <sup>2,3</sup>	Е	City / Caltrans	Signal	D	39.1	0.531	D	39.1	0.755	D	39.1	0.531	0.000	0.0	D	39.2	0.756	0.001	0.0			
7	S Mathilda Avenue / Southwest Project Driveway <sup>4</sup>	D	City	SSSC	В	14.4	0.042	Α	9.6	0.030	В	14.4	0.045	0.003	0.0	Α	9.6	0.032	0.002	0.0			
8	Sunnyvale-Saratoga Road / East Project Driveway⁵	Е	City	SSSC	В	11.3	0.017	В	14.6	0.060	В	11.7	0.030	0.013	0.2	O	16.3	0.139	0.079	0.5			
9	Sunnyvale-Saratoga Road / Southeast Project Driveway <sup>5</sup>	E	City	SSSC	Α	9.5	0.013	В	10.9	0.035	Α	9.8	0.014	0.001	0.1	В	12.2	0.042	0.007	0.3			
10	S Mathilda Avenue - Sunnyvale-Saratoga Road / Talisman Drive - Sunnvyale-Saratoga Road 4,5	E	City	Signal	B-	18.4	0.514	С	25.1	0.515	B-	18.5	0.517	0.003	0.1	С	25.3	0.518	0.003	0.2			

<sup>1</sup> The average control delay is reported for signalized intersections. The delay for the worst movement is reported for SSSC intersections.

<sup>2</sup> El Camino Real is a regionally significant roadway with LOS E threshold.

<sup>3</sup> S Mathilda Avenue / El Camino Real (#2), S Fair Oaks / El Camino Real (#5) are CMP intersections with LOS E threshold.

<sup>4</sup> Mathilda Avenue is a regionally significant roadway with LOS E threshold between Carribean Drive and El Camino Real.

<sup>5</sup> Sunnyvale-Saratoga Road is a regionally significant roadway with LOS E threshold between El Camino Real and I-280.

## 4. EXISTING PLUS BACKGROUND TRAFFIC CONDITIONS

This chapter discusses the traffic conditions under the Existing Plus Background and Existing Plus Background Plus Proposed Project Conditions.

#### EXISTING PLUS BACKGROUND TRANSPORTATION IMPROVEMENTS

As documented in the City's Capital Improvement Program (CIP)<sup>7</sup> there are programmed network improvements in the City of Sunnyvale that have an identified funding source. However, none of these improvements are located within the study area. Under Existing Plus Background conditions, it is anticipated that there will be no changes in lane geometry within the study area, therefore Existing lane geometry was assumed in Existing Plus Background conditions. The Existing lane geometry in **Figure 4** illustrates the intersection geometry and traffic control assumed in the Existing Plus Background analysis.

#### EXISTING PLUS BACKGROUND TRAFFIC VOLUMES

At the time of the analysis, the most recent version of the Development Update spreadsheet (dated December 2015) was received from the City and used to determine which approved projects would be included in this scenario. This source lists development projects in the vicinity of the project site that are undergoing any stage of planning, approval, or development. **Figure 10** shows the locations of the approved projects and **Figure 11** shows the volumes added from the approved projects.

To achieve Existing Plus Background traffic conditions, traffic volumes from approved but not yet constructed projects were incorporated according to the information provided by the City.

#### EXISTING PLUS BACKGROUND INTERSECTION LEVEL OF SERVICE

Existing Plus Background volumes were evaluated at the study intersections and are presented in **Figure 12**. Results of the analysis are presented in **Table 8**. All study intersections function within acceptable LOS standards under this analysis scenario.

In addition, none of the unsignalized intersections met the peak hour signal warrant for the Existing Plus Background condition in the AM and PM peak hours. Analysis sheets are provided in the **Appendix**.

<sup>&</sup>lt;sup>7</sup> Adopted Budget and Resource Allocation Plan – Fiscal Year 2014/2015, City of Sunnyvale.

Table 8 – Existing Plus Background Intersection Level of Service Summary

					Existing Plus Background									
	Intersection	LOS	Jurisdiction	Control		AM Peak			,					
	IIILEISECIIOII	Criteria	Julisuiction	Control	LOS	Delay (sec) <sup>1</sup>	v/c Ratio	LOS	Delay (sec) <sup>1</sup>	v/c Ratio				
1	S Mary Avenue / El Camino Real <sup>2</sup>	Е	City/Caltrans	Signal	D+	37.3	0.707	D	40.4	0.785				
2	S Pastoria Avenue / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	С	30.0	0.550	С	29.8	0.595				
3	S Mathilda Avenue / El Camino Real <sup>2,3,4</sup>	Е	City / Caltrans	Signal	D	40.3	0.812	D	47.8	0.787				
4	S Sunnyvale Avenue / El Camino Real <sup>2</sup>	Е	City/Caltrans	Signal	С	31.0	0.427	С	31.5	0.606				
5	Cezanne Drive / El Camino Real <sup>2</sup>	Е	City/Caltrans	Signal	B-	18.3	0.372	B-	19.4	0.468				
6	S Fair Oaks Avenue / El Camino Real <sup>2,3</sup>	Е	City / Caltrans	Signal	D	40.4	0.573	D	39.6	0.764				
7	S Mathilda Avenue / Southwest Project Driveway <sup>4</sup>	D	City	SSSC	В	14.5	0.043	Α	9.6	0.030				
8	Sunnyvale-Saratoga Road / East Project Driveway <sup>5</sup>	Е	City	SSSC	В	11.5	0.018	В	14.8	0.061				
9	Sunnyvale-Saratoga Road / Southeast Project Driveway <sup>5</sup>	Е	City	SSSC	Α	9.5	0.013	В	10.9	0.036				
10	S Mathilda Avenue - Sunnyvale-Saratoga Road / Talisman Drive - Sunnvyale-Saratoga Road 4,5	Е	City	Signal	B-	18.8	0.524	С	25.3	0.525				

<sup>1</sup> The average control delay is reported for signalized intersections. The delay for the worst movement is reported for SSSC intersections.

<sup>2</sup> El Camino Real is a regionally significant roadway with LOS E threshold.

<sup>3</sup> S Mathilda Avenue / El Camino Real (#2), S Fair Oaks / El Camino Real (#5) are CMP intersections with LOS E threshold.

<sup>4</sup> Mathilda Avenue is a regionally significant roadway with LOS E threshold between Carribean Drive and El Camino Real.

<sup>5</sup> Sunnyvale-Saratoga Road is a regionally significant roadway with LOS E threshold between El Camino Real and I-280.

## EXISTING PLUS BACKGROUND PLUS PROPOSED PROJECT INTERSECTION LEVEL OF SERVICE

Existing Plus Background Plus Project traffic conditions were evaluated at the study intersections and are shown in **Figure 13**. Results of the analysis are presented in **Table 9**. All study intersections function within acceptable LOS standards under this analysis scenario. Thus, the project has a less than significant impact at all study intersections and no mitigation measures are required.

It should be noted that for some intersections, the reported delay improved with the addition of the project trips. The reason for this occurrence is because the trips were primarily added to the through lane movements, which had a lower movement delay than the average intersection delay, and thereby decreases the overall average delay.

In addition, none of the unsignalized intersections met the peak hour signal warrant for the Existing Plus Background Plus Project condition in the AM and PM peak hours.

Analysis sheets are provided in the **Appendix**.

Table 9 – Existing Plus Background Plus Proposed Project Intersection Level of Service Summary

		Existing Plus Backgro					ound		Existing Plus Background Plus Project											
					AM Peak			PM Peak			AM Peak					PM Peak				
	Intersection	LOS Criteria	Jurisdiction	Control	LOS De		v/c Ratio	LOS	Delay (sec)1	v/c Ratio	LOS	Delay (sec) <sup>1</sup>	v/c Ratio	v/c Var.	Crit. Delay Var.	LOS	Delay (sec) <sup>1</sup>	v/c Ratio	v/c Var.	Crit. Delay Var.
1	S Mary Avenue / El Camino Real <sup>2</sup>	E	City / Caltrans	Signal	D+	37.3	0.707	D	40.4	0.785	D+	37.3	0.709	0.002	0.0	D	40.6	0.790	0.005	0.3
2	S Pastoria Avenue / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	С	30.0	0.550	С	29.8	0.595	С	30.0	0.550	0.000	0.0	С	29.7	0.599	0.004	-0.1
3	S Mathilda Avenue / El Camino Real <sup>2,3,4</sup>	Е	City / Caltrans	Signal	D	40.3	0.812	D	47.8	0.787	D	40.3	0.813	0.001	0.1	D	48.0	0.793	0.006	0.3
4	S Sunnyvale Avenue / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	С	31.0	0.427	С	31.5	0.606	С	31.3	0.431	0.004	0.3	C-	32.4	0.629	0.023	1.4
5	Cezanne Drive / El Camino Real <sup>2</sup>	Е	City / Caltrans	Signal	B-	18.3	0.372	B-	19.4	0.468	B-	18.2	0.373	0.001	0.0	B-	19.4	0.470	0.002	-0.1
6	S Fair Oaks Avenue / El Camino Real <sup>2,3</sup>	E	City / Caltrans	Signal	D	40.4	0.573	D	39.6	0.764	D	40.4	0.574	0.001	-0.1	D	39.7	0.765	0.001	0.0
7	S Mathilda Avenue / Southwest Project Driveway <sup>4</sup>	D	City	SSSC	В	14.5	0.043	Α	9.6	0.030	В	14.6	0.046	0.003	0.0	Α	9.7	0.033	0.003	0.0
8	Sunnyvale-Saratoga Road / East Project Driveway <sup>5</sup>	E	City	SSSC	В	11.5	0.018	В	14.8	0.061	В	11.8	0.030	0.012	0.2	С	16.6	0.142	0.081	0.5
9	Sunnyvale-Saratoga Road / Southeast Project Driveway <sup>5</sup>	E	City	SSSC	Α	9.5	0.013	В	10.9	0.036	Α	9.9	0.015	0.002	0.0	В	12.3	0.043	0.007	0.3
10	S Mathilda Avenue - Sunnyvale-Saratoga Road / Talisman Drive - Sunnvyale-Saratoga Road <sup>4,5</sup>	E	City	Signal	B-	18.8	0.524	С	25.3	0.525	B-	18.9	0.527	0.003	0.1	С	25.5	0.529	0.004	0.2

<sup>1</sup> The average control delay is reported for signalized intersections. The delay for the worst movement is reported for SSSC intersections.

<sup>2</sup> El Camino Real is a regionally significant roadway with LOS E threshold.

<sup>3</sup> S Mathilda Avenue / El Camino Real (#2), S Fair Oaks / El Camino Real (#5) are CMP intersections with LOS E threshold.

<sup>4</sup> Mathilda Avenue is a regionally significant roadway with LOS E threshold between Carribean Drive and El Camino Real.

<sup>5</sup> Sunnyvale-Saratoga Road is a regionally significant roadway with LOS E threshold between El Camino Real and I-280.

## 5. VEHICLE QUEUING AND SITE ACCESS AND CIRCULATION

This chapter presents the results from the vehicle queuing analysis completed for each of the study intersections and discussion of site access and circulation for the proposed project site.

#### **VEHICLE QUEUING**

As congestion increases, it is common for traffic at intersections to form lines of stopped (or queued) vehicles. Queue lengths were determined for each turn lane and measure the distance that vehicles will back up in each direction approaching an intersection. *Traffix* software calculates the 95th percentile queues based on *HCM 2000* methodology. The 95th percentile queue is used to account for fluctuations in traffic and represents a condition where 95 percent of the time during the peak period, traffic volumes will be less than or equal to the queue determined by the analysis. It is used as a benchmark for determining deficiencies as a standard transportation engineering practice. A typical vehicle length of 25 feet was used in the queuing analysis. As stated in the Operating Conditions and Criteria, an operational deficiency was assumed to occur if the queue increases by one or more vehicles and the vehicle queue exceeds the turn pocket length. A summary of the queuing results is included in the **Appendix**.

The analysis showed that several existing turn bay storage lengths are exceeded from future traffic volumes. In all cases the exceeded queue lengths are not associated with the project, but are a result of no-project deficiencies. For example, the southbound left turn queue at the intersection of Mary Avenue / El Camino Real is 342 feet during the PM peak in the Existing Conditions and the queue length is 347 feet during the PM peak in the Existing Plus Project Conditions. Although the turn pocket length is 200 feet long and the queue spills out of the turn pocket, the result is a deficiency not associated with the project and is not a new deficiency since the project did not increase the queue by at least one vehicle length (i.e. 25 feet). At locations affected by the project traffic, the increase in vehicle queuing is typically less than one vehicle for a left turn lane except at the following intersection:

#### • Intersection #4 - S Sunnyvale Avenue / El Camino Real

- Existing Plus Project, PM peak: Northbound left turn queue length of 325 feet exceeds the 160-foot turn pocket length in the Existing Plus Project Condition. The Project increases queuing approximately one (1) vehicle or 33 feet of the total queue.
- Existing Plus Background Plus Project, PM Peak: Northbound left turn queue length of 329 feet exceeds the 160-foot turn pocket length in the Existing Plus Background Plus Project Condition. The Project increases queuing approximately one (1) vehicle or 34 feet of the total queue.

#### SITE ACCESS AND CIRCULATION

Site access was evaluated at each of the project's driveways, as listed below:

- Intersection #7 Southwest Project Driveway / S Mathilda Avenue
- Intersection #8 East Project Driveway / Sunnyvale-Saratoga Road
- Intersection #9 Southeast Project Driveway / Sunnyvale-Saratoga Road

All driveways are existing unsignalized intersections. Intersection #7 is restricted to right-in and right-out operations. Intersections #8 and #9 allow full access to the site. There are no proposed changes to these existing driveways with the proposed Projects. The project driveways were determined to operate at an acceptable LOS with the addition of the proposed project.

A queuing analysis was conducted for each of the project driveways. The queuing analysis at the project driveways indicated that the 95<sup>th</sup> percentile queues would be no greater than one vehicle for all the Project scenarios. These queues do not exceed the turn storage lengths for each driveway.

Vehicular circulation for the site was also reviewed. The project description states that this particular type of grocery store will have customers pre-order groceries and then arrive to pick them up. The loop on the northeast portion of the site will be used for customers to wait and have their groceries delivered to them. The loop will be circulating in one direction only, and in a clockwise manner. This should limit the number of vehicle conflict points on-site.

#### PARKING REQUIREMENTS

The project proposes to provide the following parking:

- Carport 9 stalls
- Surface parking 38 stalls

The proposed parking totals to 47 stalls. The carport stalls will be short-term parking stalls for customers to pick-up their pre-ordered groceries. The surface parking lot will be for employee and overflow parking.

The City of Sunnyvale Municipal Code requires that retail provide a minimum of 4 spaces and a maximum of 5 spaces per 1,000 square feet of retail uses. The project proposes to have 11,600 square feet of grocery store, which equates to a minimum of 46 spaces and a maximum of 58 spaces. The proposed project provides a total of 47 parking spaces, which meets the City's parking requirements.

In addition, the parking for the project's overall parcel (i.e. the OSH and the proposed project) was reviewed. Parking for the parcel is proposed to be reconfigured from current conditions. Per the City's Municipal Code, a maximum of 267 spaces were required for the overall parcel when only occupied by the OSH use. The parcel was legal non-conforming with 304 spaces previously provided. The project reduces the overall parking by approximately 37 parking spaces, but still meets the parking requirements with 252 parking spaces provided. A minimum of 234 parking spaces and a maximum of 292 parking spaces are allowed for the combined OSH and new retail building.

The City requires in its Municipal Code to provide a minimum of 8.5 feet wide by 18 feet long parking stalls for a standard space. The project proposes 90 degree parking spaces for the carport and surface parking, with 9 feet wide and 18-foot long stalls. The proposed parking lot design meets City's requirements.

#### PEDESTRIAN ACCESS AND CIRCULATION

Pedestrians will most likely access the site by utilizing existing sidewalks on Sunnyvale-Saratoga Road and on Mathilda Avenue. Sidewalks along these two roadways adjacent to the project site will lead to the project's surface parking lot. On-site, within the pick-up area, there is a striped walking pathway just north of the northeast driveway for pedestrians to access the store's main entrance from Sunnyvale-Saratoga Road.

There is sidewalk that will connect the existing sidewalk along the OSH store's frontage to the proposed project. This provides a pedestrian connection, separate from vehicular traffic, between the two stores.

## BICYCLE ACCESS AND CIRCULATION

On-site bicycle facilities and circulation is not shown on the project site plans provided. However the project will add 15 Class 1 & 2 bicycle spaces combined. Bicyclists can also access the City network of bicycle facilities via the bicycle lanes adjacent to the site on S Mathilda Avenue and Sunnyvale-Saratoga Road.

# 6. POTENTIAL EFFECTS ON TRANSIT, BICYCLE, AND PEDESTRIAN MOBILITY

The proposed project was evaluated to determine if it would likely conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks) or generate pedestrian, bicycle, or transit travel demand that would not be accommodated by existing transit, bicycle, or pedestrian facilities and plans.

The patrons and employees of the proposed project will have the option of driving, taking transit, walking or bicycling to and from the proposed project.

#### **TRANSIT**

For those taking transit, they can utilize the VTA bus routes that operate along El Camino Real, S Pastoria Avenue, S Sunnyvale Avenue, and South Fair Oaks Avenue within the vicinity to the project site. There are bus stops for VTA on either side of El Camino Real and S Sunnyvale Avenue that provide access to the local transit system. In addition the project would not conflict with existing or planned transit facilities.

Transit vehicle delay was also considered for each transit route. Transit vehicles for the transit routes in the study area are expected to use the shared right-of-way with other motorists. Since the proposed project is anticipated to increase the vehicle delay at study intersections, transit vehicle delay may increase.

The increase in transit vehicle delay was calculated from the intersection level of service outputs from *Traffix* software. For each transit route, the study intersections and specific movements along the route were identified. The vehicle delay for each movement for each study intersection along the route was summed to determine the transit vehicle delay in the study area.

For routes 22 and 522, the eastbound and westbound through movements at intersections along El Camino Real were identified as along the bus routes. The maximum increase in vehicle delay is 0.6 seconds in the westbound through movement for all intersections combined in the AM peak. In the PM peak, the maximum increase is 3.1 seconds for the eastbound through movements. This increase of 0.6 seconds in the AM peak and 3.1 seconds in the PM peak is considered minor.

For route 54, the northbound and southbound through movements at the intersection of S Pastoria Avenue/El Camino Real were identified as along the bus route. The maximum increase in vehicle delay is 0.1 seconds in the southbound through movement in the AM peak. In the PM peak, the maximum increase is 0.3 seconds for the both the northbound through and southbound through movements. This increase of 0.1 seconds in the AM peak and 0.3 seconds in the PM peak is considered minor.

For route 55, the northbound and southbound through movements at the intersection of S Fair Oaks Avenue/El Camino Real was identified as along the bus route. The maximum increase in vehicle delay is 0.1 seconds in the southbound through movement in the AM peak. In the PM peak, the maximum increase is 0.2 seconds for the southbound through movement. This increase of 0.1 seconds in the AM peak and 0.2 seconds in the PM peak is considered minor.

The increases in transit vehicle delay are all less than four seconds in the AM and PM peak hours. This increase in transit vehicle delay should not significantly affect the overall schedule for the transit routes.

Since the project does not conflict with existing or planned transit facilities and there are adequate facilities for pedestrian and bicycles to access transit stops, the project will have a **less than significant impact** on transit services.

#### **PEDESTRIAN**

There are existing sidewalks along the project site's frontage on Sunnyvale-Saratoga Road and on Mathilda Avenue. It is anticipated that pedestrians would use these sidewalks along the project site's frontages to access the adjacent land uses and the transit stops nearby. At each of the signalized intersections near the project site there are striped crosswalks for each direction, allowing pedestrians to more safely cross the adjacent roadways.

The project will have a **less than significant impact** on pedestrian service.

#### **BICYCLE**

Bicyclists will have direct access to the project site using bicycle lanes on S Mathilda Avenue and Sunnyvale-Saratoga Road. These bicycle lanes provide access to the project site and other bicycle facilities throughout the City.

The proposed project does not impact the safety of bicyclists or have any hazardous design features impeding the use of bicycles facilities. Since the proposed project does not conflict with any adopted policies or plans related to bicycle activity, the proposed project will have a **less than significant impact** on bicycle service.

## 7. SUMMARY OF IMPACTS AND RECOMMENDED MITIGATIONS

Based on the results of the traffic analysis and evaluation of the proposed site plan, there are no significant impacts as a result of the proposed project.

# 8. SUMMARY OF QUEUING DEFICIENCIES AND RECOMMENDED IMPROVEMENTS

Based on the results of the queuing analysis, the follow deficiencies are noted in Table 10.

**Table 10 - Queuing Deficiencies Summary** 

#	Intersection	Scenarios
1	Sunnyvale Avenue / El Camino Real	Existing Plus Project PM Peak
4	Suffriyvale Avertue / Li Garrillo Real	Existing Plus Background Plus Project PM Peak

#### RECOMMENDED IMPROVEMENTS

The following queuing deficiencies are listed by study intersection:

DEFICIENCY QUEUING-1 – SUNNYVALE AVENUE / EL CAMINO REAL (INTERSECTION #4)

The intersection of Sunnyvale Avenue / El Camino Real will have a queuing deficiency in the following scenarios due to the proposed project:

- Existing Plus Project PM Peak
- Existing Plus Background Plus Project PM Peak

#### **Existing Plus Project**

In the Existing Plus Project scenario, the queue for the northbound left turn movement is 325 feet in the PM peak, which exceeds the 160-foot turn pocket. Without the project, the northbound left turn queue is 292 feet in the Existing Plus Background scenario in the PM peak. The proposed project adds 33 feet, or approximately one (1) vehicle, to the total queue. Since the queue exceeds the left turn pocket and the proposed project increased the queue length by at least one vehicle length, this is a queuing deficiency.

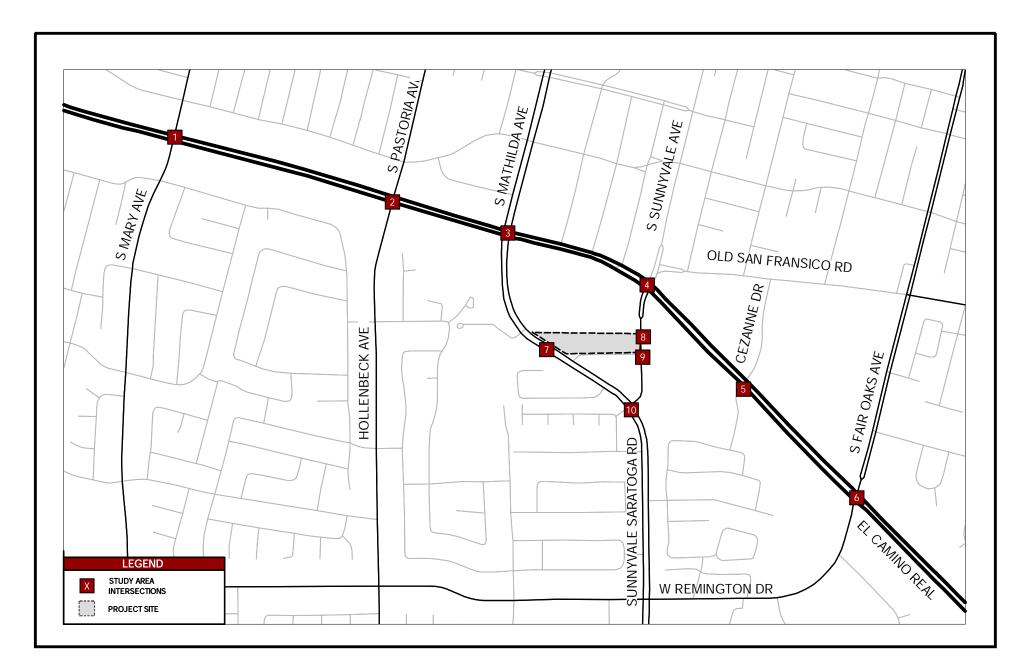
To improve the deficiency, the project could increase the green time for the northbound left turn movement. This modification would decrease the vehicle queue for the northbound left turn movement to 291 feet, which is equal to the 292-foot queue without the project. The improvement reduces the queue to less than the without project queue. However, the queue would still extend outside of the storage pocket, even with the proposed improvements.

#### Existing Plus Background Plus Project

In the Existing Plus Background Plus Project scenario, the queue for the northbound left turn movement is 329 feet in the PM peak, which exceeds the 160-foot turn pocket. Without the project, the northbound left turn queue is 295 feet in the Existing Plus Background scenario in the PM peak. The proposed project adds 34 feet, or approximately one (1) vehicle, to the total queue. Since the queue exceeds the left turn pocket and the proposed project increased the queue length by at least one vehicle length, this is a queuing deficiency.

To improve the deficiency, the project could increase the green time for the northbound left turn movement. This modification would decrease the vehicle queue for the northbound left turn movement to 292 feet,

which is less than the 295-foot queue without the project. The improvement reduces the queue to less than the without project queue. However, the queue would still extend outside of the storage pocket, even with the proposed improvements.







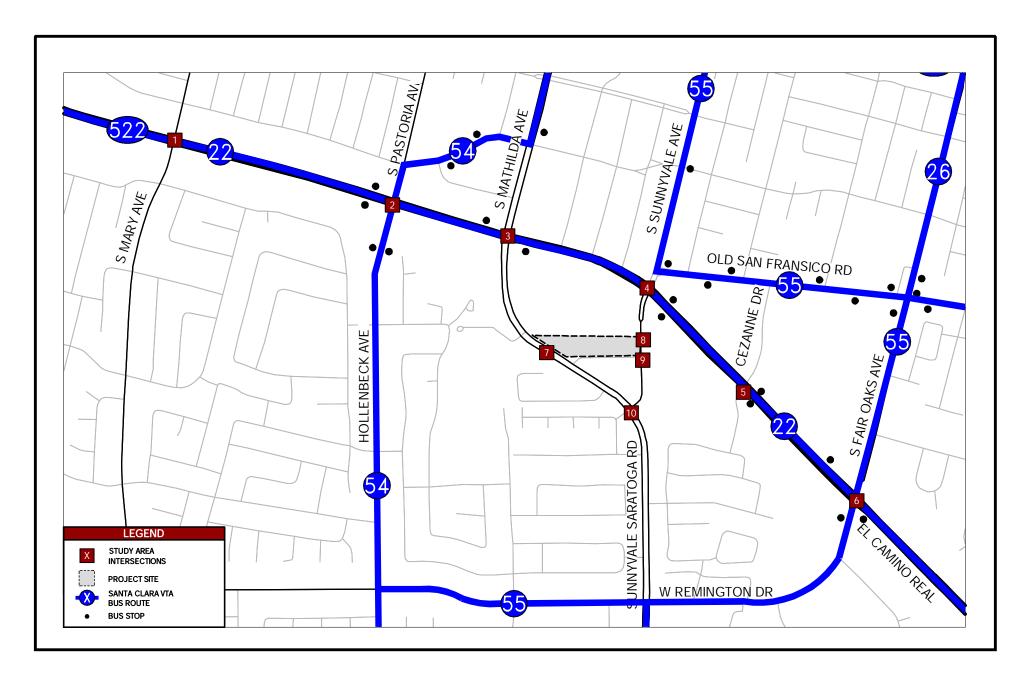






FIGURE 2 **EXISTING TRANSIT FACILITES** 

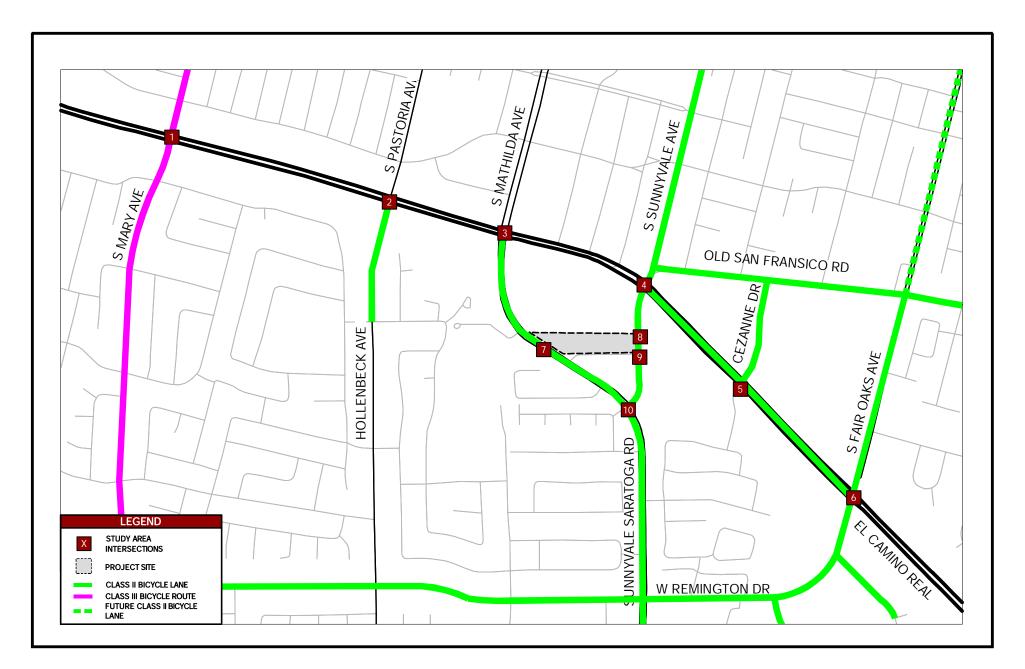






FIGURE 3 **EXISTING BICYCLE FACILITIES** 

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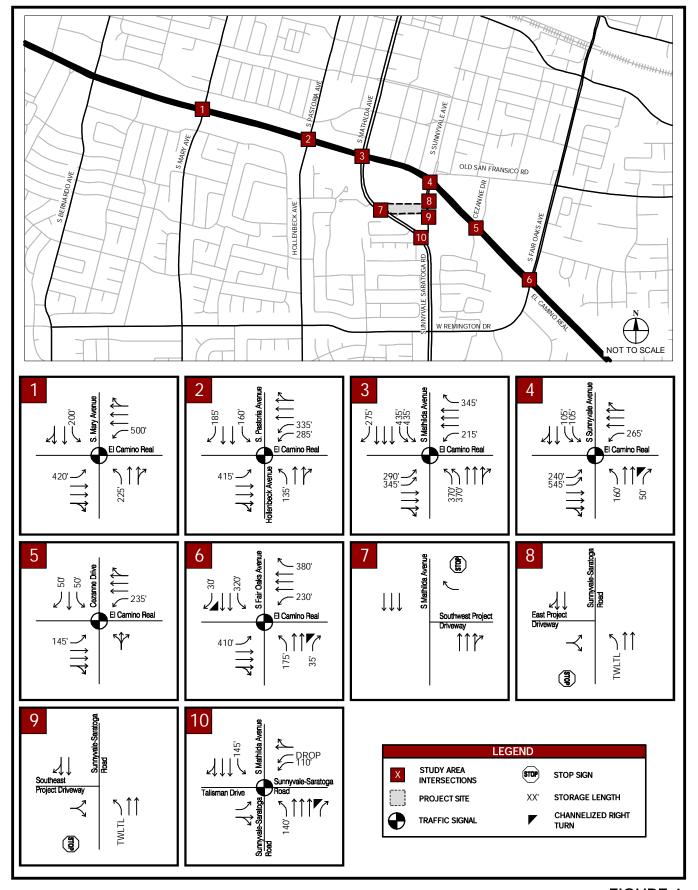




FIGURE 4
EXISTING CONDITION
LANE GEOMETRY AND TRAFFIC CONTROL

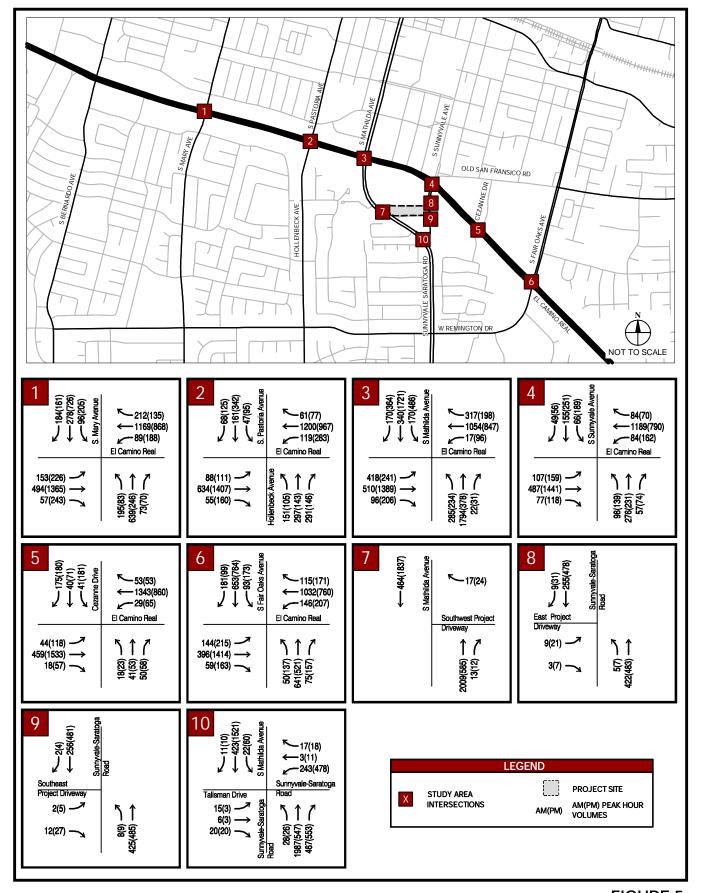




FIGURE 5
EXISTING CONDITION
PEAK HOUR TURNING MOVEMENT VOLUMES

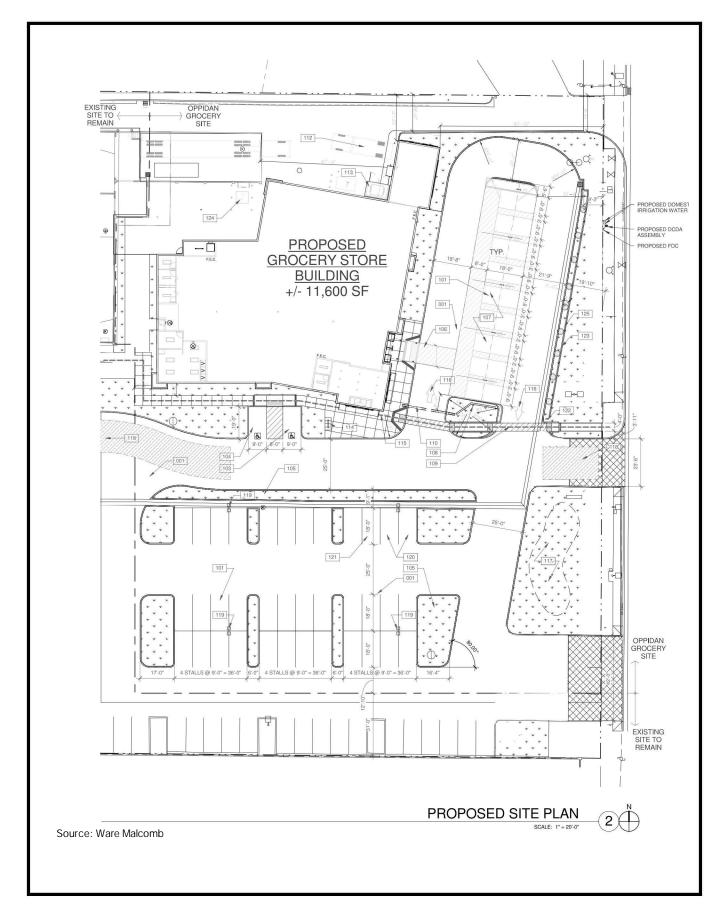
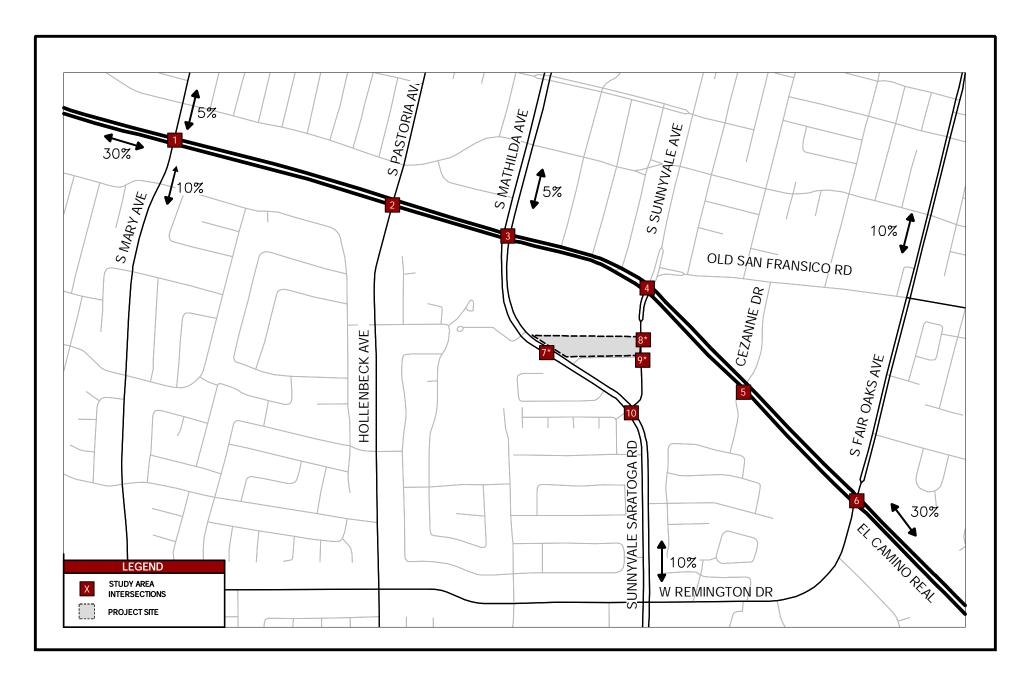




FIGURE 6 SITE PLAN







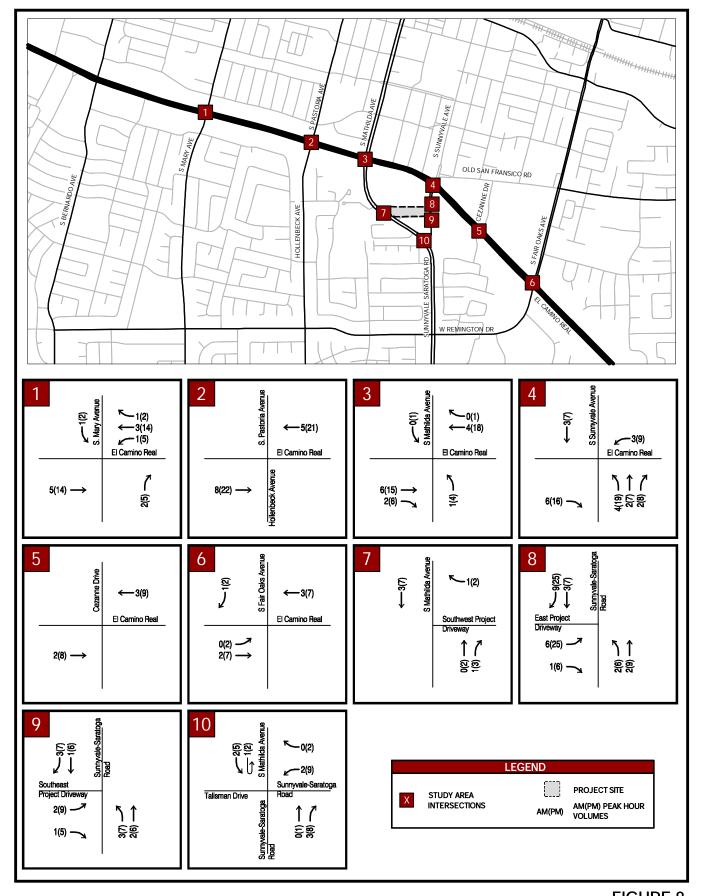
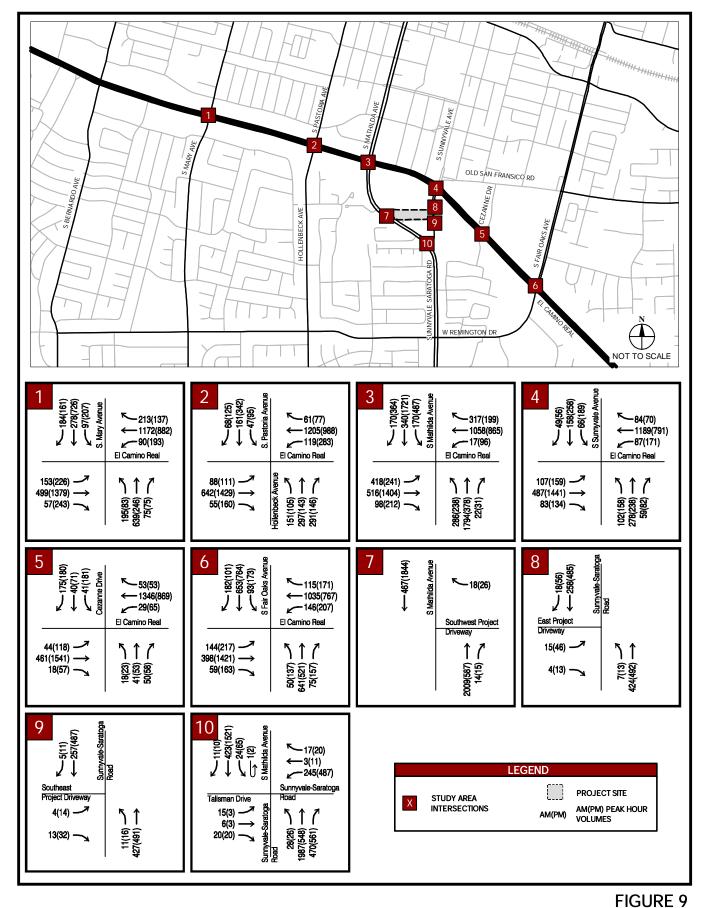




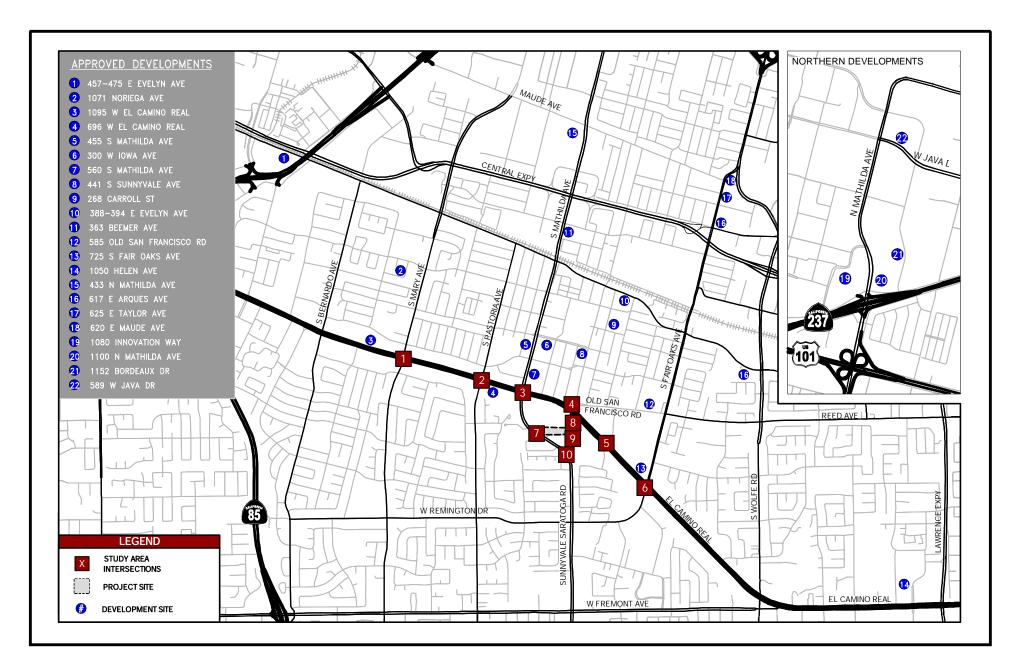


FIGURE 8
PROJECT GENERATED
PEAK HOUR TURNING MOVEMENT VOLUMES





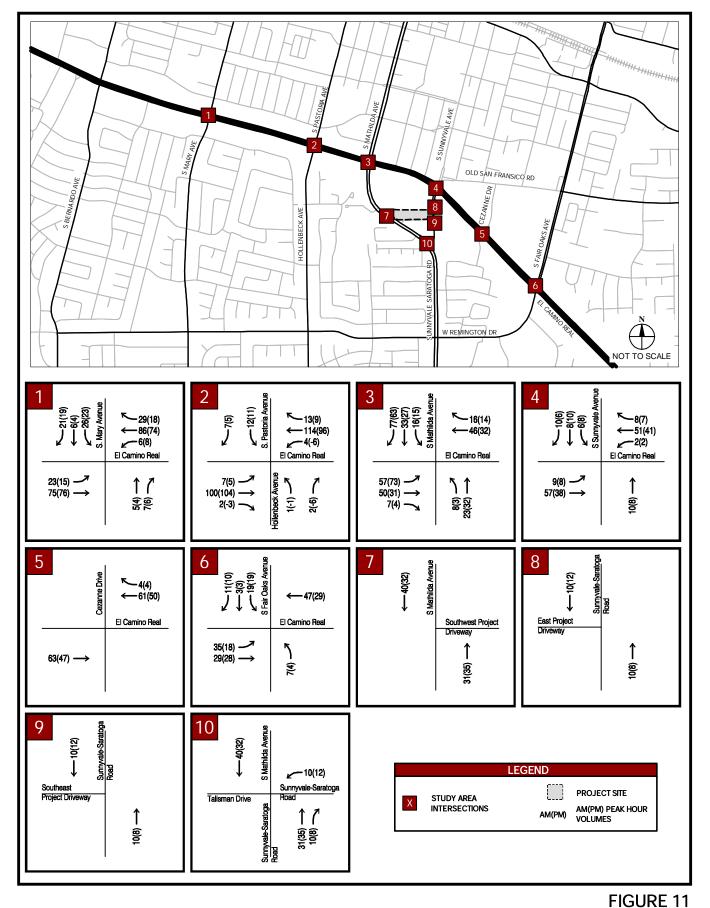
EXISTING PLUS PROJECT CONDITION
PEAK HOUR TURNING MOVEMENT VOLUMES





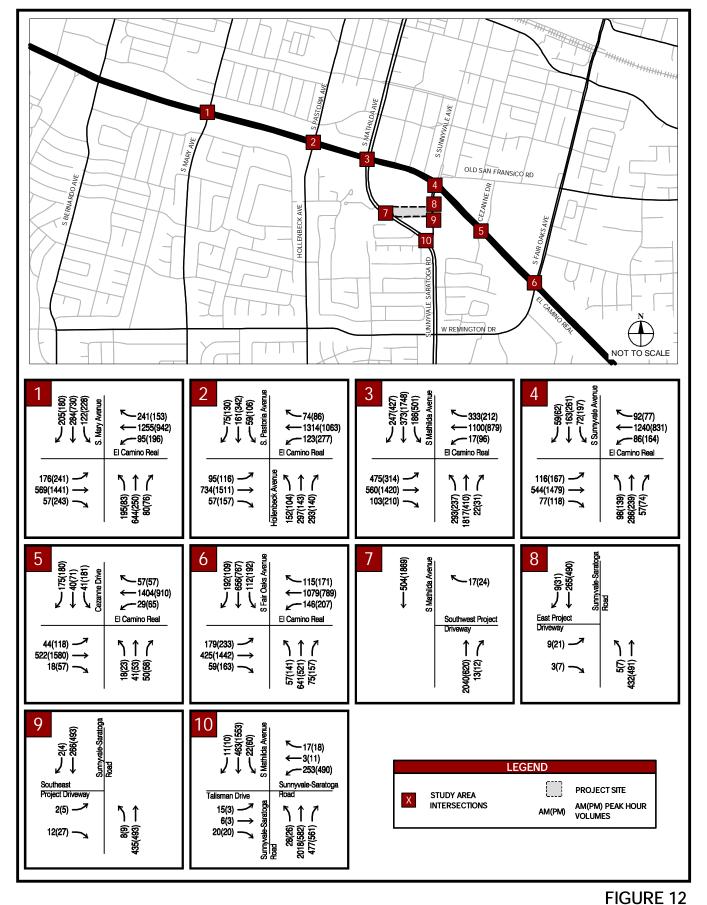


097318104



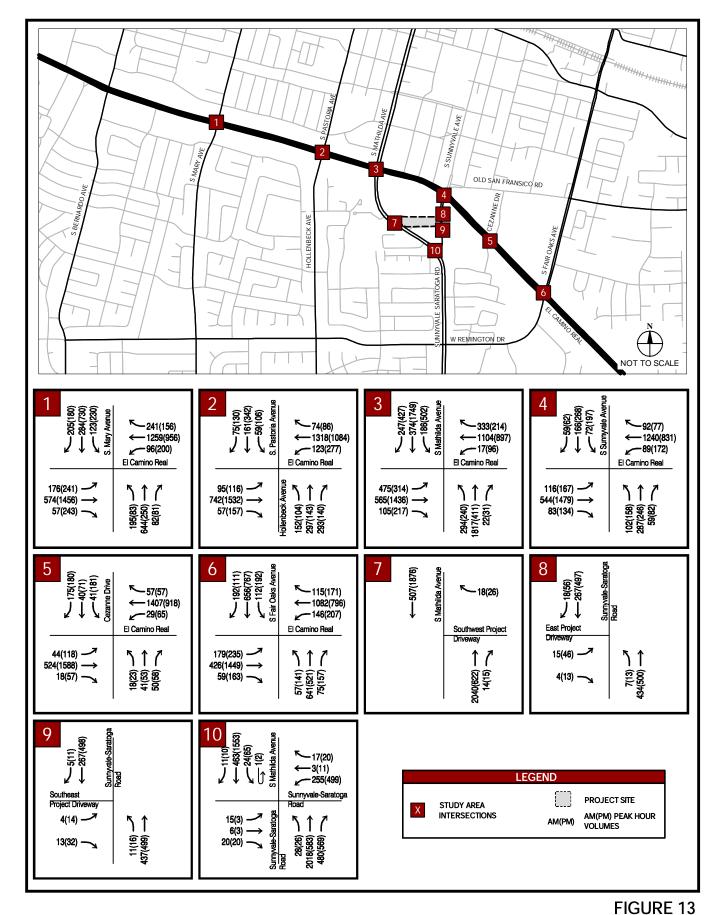


APPROVED PROJECT GENERATED PEAK HOUR TURNING MOVEMENT VOLUMES





EXISTING PLUS BACKGROUND CONDITION
PEAK HOUR TURNING MOVEMENT VOLUMES





EXISTING PLUS BACKGROUND PLUS PROJECT CONDITION PEAK HOUR TURNING MOVEMENT VOLUMES

## APPENDIX

FREEWAY SEGMENT THRESHOLD ANALYSIS

TURNING MOVEMENT COUNTS

**VOLUME BALANCE WORKSHEET** 

**EXISTING TRAFFIC CONDITIONS** 

TRIP GENERATION

**EXISTING PLUS PROJECT TRAFFIC CONDITIONS** 

**BACKGROUND TRAFFIC CONDITIONS** 

BACKGROUND PLUS PROJECT TRAFFIC CONDITIONS

**QUEUING SUMMARY** 

SIGNAL WARRANTS

**MITIGATIONS** 



Freeway	Segment	Direction	Peak Hour	Lane	Capacity	Project Trips	% Cap	< 1%
		NB	AM	2	4400	1	0.000	Yes
	SR-237 to El Camino Real	IND	PM	2	4400	5	0.001	Yes
	SK-237 to Li Callillo Real	SB	AM	2	4400	2	0.000	Yes
SR-85		JD	PM	2	4400	5	0.001	Yes
314-00		NB	AM	2	4400	1	0.000	Yes
	El Camino Real to Fremont Avenue	IND	PM	2	4400	2	0.000	Yes
	Li Camino Real to Fremont Avenue	SB	AM	2	4400	1	0.000	Yes
		JD	PM	2	4400	2	0.000	Yes
		EB	AM	2	4400	0	0.000	Yes
SR-237	SR-85 to El Camino Real	LD	PM	2	4400	0	0.000	Yes
3K-237	3K-03 to Et Callillo Real	WB	AM	2	4400	0	0.000	Yes
		VVD	PM	2	4400	0	0.000	Yes

# **Turning Movement Counts**

								F	M												Р	M						
North/South	East/West	Count Date	Time -	N	Iorthbour	d	S	outhbour	nd		astboun	d	١ ١	Vestboun	d	Time	N	orthboun	d	S	outhboun	ıd		Eastbound	d	V	Vestboun	d
			Time	L	T	R	L	T	R	L	T	R	L	T	R	Time	L	T	R	L	T	R	L	T	R	L	T	R
Fair Oaks Avenue	El Camino Real	May 2014	8:00AM-9:00AM	50	641	75	93	653	181	144	396	59	146	1032	115	5:00PM-6:00PM	137	521	157	173	764	99	215	1414	163	207	760	171
Mathilda Avenue	El Camino Real	June 2015	8:00AM-9:00AM	285	1794	22	170	340	170	418	510	96	17	1054	317	5:00PM-6:00PM	234	378	31	486	1721	364	241	1389	206	96	847	198
Sunnyvale - Sunny Saratoga	El Camino Real	May 2014	8:00AM-9:00AM	98	276	57	66	155	49	107	487	77	84	1189	84	4:45PM-5:45PM	139	231	74	189	251	56	159	1441	118	162	790	70
Mathilda / Sunny Sara	Talisman / Sunny Sara	December 2014	8:00AM-9:00AM	28	1987	467	22	423	11	15	6	20	243	3	17	5:00PM-6:00PM	26	547	553	60	1521	10	3	3	20	478	11	18

# Traffic Data Service Campbell, CA (408) 377-2988 tdsbay@cs.com

File Name: 4AM FINAL Site Code : 00000004 Start Date : 9/19/2013

Page No :1

Consume Drinted Makinley

									Group	s Printe	d- Veh	icles_									
I		SPAS	STOR	A AVE			EL CA	MINO	REAL	-		HOLL	ENBE	CK AV	E		EL C	AMINO	REAL	_	Ì
		Sc	uthbo	und			W	estbou	ınd			. N	orthbo	und			E	astbo	und _		
Start Time	Right	Thru	Left	Peds	App Total	Right	Thru	Left	Peds	App. Yotal	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Tola
07:00 AM	10	5	7	2	24	8	140	11	3	162	13	15	11	8	47	6	60	9	8	83	31
07:15 AM	13	31	10	2	56	15	201	19	2	237	24	30	23	2	79	6	70	11	4	91	46
07:30 AM	10	27	7	2	46	12	250	33	1	296	36	35	26	3	100	10	109	9	7	135	57
07:45 AM	11	42	13	0	66	35	316	28	2	381	55	52	29	1_	137	21	121	19	28	189	77
Total	44	105	37	6	192	70	907	91	8	1076	128	132	89	14	363	43	360	48	47	498	212
08:00 AM	19	94	11	0	124	20	284	52	0	356	68	55	41	2	166	11	128	21	41	201	84
08:15 AM	16	24	13	3	56	12	288	25	3	328	89	96	46	6	237	9	165	22	27	223	84
08:30 AM	21	18	14	3	56	14	314	14	0	342	69	77	24	2	172	15	170	25	8	218	788
08:45 AM	12	25	9	3	49	15	314	28	1_	358	65	69	40	2_	176	20	171	20	6	217	80
Total	68	161	47	9	285	61	1200	119	4	1384	291	297	151	12	751	55	634	88	82	859	327
						,															
Grand Total	112	266	84	15	477	131	2107	210	12	2460	419	429	240	26	1114	98	994	136	129	1357	540
Apprch %	23.5	55.8	17.6	3.1		5.3	85.7	8.5	0.5		37.6	38.5	21.5	2.3		7.2	73.2	10	9.5		
Total %	2.1	4.9	1.6	0.3	8.8	2.4	39	3.9	0.2	45.5	7.7	7.9	4.4	0.5	20.6	1.8	18.4	2.5	2.4	25.1	1

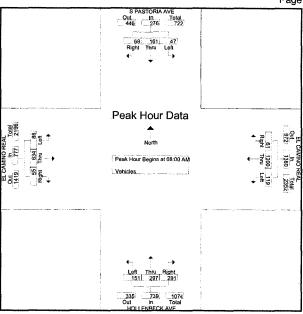
	S	PASTO	RIA AV	F	F	L CAMI	NO RE	AI I	Н	OLLENE	BECK A	/F	F	L CAMII	NO RE	Al.	
	_	South			_		oound	·			bound		_		bound		
Start Time	Right	Thru		App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 07:00	AM to 08	3:45 AM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	rsection	Begins	at 08:00	AM												
08:00 AM	19	94	11	124	20	284	52	356	68	55	41	164	11	128	21	160	804
08:15 AM	16	24	13	53	12	288	25	325	89	96	46	231	9	165	22	196	805
08:30 AM	21	18	14	53	14	314	14	342	69	77	24	170	15	170	25	210	775
08:45 AM	12	25	9	. 46	15_	314	28	357	65_	69_	40	174	20	171	20	211	788
Total Volume	68	161	47	276	61	1200	119	1380	291	297	151	739	55	634	88	777	3172
% App. Total	24.6	58.3	17		4.4	87	8.6		39.4	40.2	20.4		7.1_	81.6	11.3		
PHF	.810	.428	.839	.556	.763	.955	.572	.966	.817	.773	.821	.800	.688	.927	.880	.921	.985

Traffic Data Service

Campbell, CA
(408) 377-2988
tdsbay@cs.com

File Name: 4AM FINAL Site Code : 00000004 Start Date : 9/19/2013

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### Traffic Data Service

Campbell, CA (408) 377-2988 tdsbay@cs.com

File Name: 4PM FINAL Site Code : 00000004 Start Date : 9/19/2013

Page No : 1

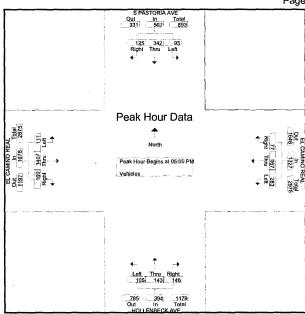
									Group	s Printe	d- Veh	icles				_					
		SPA	STOR	A AVE			EL CA	MINC	REAL			HOLL	ENBE	CK AVI			EL CA	MINC	REAL		
ì		Sc	outhbo	und			W	estbou	ınd			No	orthbo	und			E	astbou	ınd		
Start Time	Right	Thru	Left	Peds	App Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
04:00 PM	18	26	9	4	57	14	236	60	6	316	25	27	29	4	85	42	305	34	6	387	845
04:15 PM	34	45	21	2	102	18	202	52	6	278	28	28	24	2	82	38	320	23	15	396	858
04:30 PM	21	49	20	1	91	16	263	63	2	344	33	31	23	6	93	33	339	17	17	406	934
04:45 PM	28	49_	14_	_ 6	97	22_	234	55	4_	315	35	30_	23	0_	88	42	385	34	14_	475	975
Total	101	169	64	13	347	70	935	230	18	1253	121	116	99	12	348	155	1349	108	52	1664	3612
05:00 PM	40	68	23	5	136	16	216	74	1	307	29	28	30	4	91	34	315	19	3	371	905
05:15 PM	26	89	13	1	129	13	236	79	3	331	35	41	27	2	105	40	363	34	8	445	1010
05:30 PM	33	85	31	2	151	22	264	71	1	358	39	30	22	8	99	36	388	24	9	457	1065
05:45 PM	_26	100	28_	2_	156	26	251	_59	1_	337	43	44	26	0	113	50	341	34	_1	426	1032
Total	125	342	95	10	572	77	967	283	6	1333	146	143	105	14	408	160	1407	111	21	1699	4012
Grand Total	226	511	159	23	919	147	1902	513	24	2586	267	259	204	26	756	315	2756	219	73	3363	7624
Apprch %	24.6	55,6	17.3	2.5		5.7	73.5	19.8	0.9		35.3	34.3	27	3.4		9.4	82	6.5	2.2		
Total %	3	6.7	2.1	0.3	12.1	1.9	24.9	6.7	0.3	33.9	3.5	3.4	2.7	0.3	9.9	4.1	36.1	2.9	1	44.1	

	S	PASTO	RIA AV	Æ l	E	L CAMI	NO RE	AL	Н	OLLEN		VE	E	L CAMII		AL	]
	1	South	bound			West	bound			North	bound			Eastb	ound		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Tota
Peak Hour Anal	ysis Fron	n 04:00	PM to C	5:45 PM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	rsection	Begins	at 05:00	PM												
05:00 PM	40	68	23	131	16	216	74	306	29	28	30	87	34	315	19	368	893
05:15 PM	26	89	13	128	13	236	79	328	35	41	27	103	40	363	34	437	996
05:30 PM	33	85	31	149	22	264	71	357	39	30	22	91	36	388	24	448	104
05:45 PM	26	100	28	_154	26	251	59	336	43	44	26	113	50_	341	34	425	1028
Total Volume	125	342	95	562	77	967	283	1327	146	143	105	394	160	1407	111	1678	3961
% App. Total	22.2	60.9	16.9		5.8	72.9	21.3		37.1	36.3	26.6		9.5	83.8	6.6		١.
PHF	.781	.855	.766	.912	.740	.916	.896	.929	.849	.813	.875	.872	.800	.907	.816	.936	.948

# Traffic Data Service Campbell, CA (408) 377-2988 tdsbay@cs.com

File Name: 4PM FINAL Site Code : 00000004 Start Date : 9/19/2013

Page No : 2



City of Sunnyvale All Vehicles & Uturns On Unshifted Bikes & Peds On Bank 1 Nothing On Bank 2

(916) 771-8700 orders@atdtraffic.com

File Name: 15-7935-001 S Mary Avenue & W El Camino Real

Date: 12/2/2015

Unshifted Count = All Vehicles & Uturns

			S Mary	Λικορικο		<u> </u>		W El Cam		count = All Vel	nicies &	Uturns	S Mary A	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Γ		W El Can	sina Baal		1	
			Southb					Westbo					Northbo					Eastbo				
START TIME	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	Total	Uturns Total
7:00	17	32	27	0	76	8	150	20	2	180	22	39	5	0	66	16	63	2	2	83	405	4
7:15	12	75	23	0	110	13	178	26	2	219	23	40	10	0	73	12	82	13	4	111	513	6
7:30	21	115	33	0	169	7	230	32	3	272	33	98	8	0	139	19	81	16	5	121	701	8
7:45	20	60	43	0	123	18	314	52	5	389	43	164	17	0	224	28	110	11	4	153	889	9
Total	70	282	126	0	478	46	872	130	12	1060	121	341	40	0	502	75	336	42	15	468	2508	27
8:00	29	100	48	0	177	12	249	51	11	323	54	141	19	0	214	42	116	13	8	179	893	19
8:15	26	77	54	0	157	22	322	55	8	407	58	191	18	0	267	33	145	16	4	198	1029	12
8:30	21	41	39	0	101	10	284	54	3	351	40	143	19	0	202	32	123	17	2	174	828	5
8:45	23	55	37	0	115	10	220	43	4	277	43	230	15	0	288	26	127	15	4	172	852	8
Total	99	273	178	0	550	54	1075	203	26	1358	195	705	71	0	971	133	511	61	18	723	3602	44
16:00	22	01	22	0	137	10	215	21	10	274	l 20	62	10	0	101	l 20	207	27	0	201	893	10
16:00 16:15	33 40	81 114	23 46	0 0	200	18 18	215 208	31 38	10 15	274 279	20 26	62 41	19 18	0	101 85	38 40	297 313	37 49	9 7	381 409	973	19 22
16:30	40	122	44	0	206	31	218	26	10	285	28	54	21	0	103	42	358	<del>5</del> 6	7	463	1057	17
16:45	51	148	35	0	234	29	206	27	19	281	31	64	18	0	113	47	341	48	12	448	1076	31
Total	164	465	148	0	777	96	847	122	54	1119	105	221	76	0	402	167	1309	190	35	1701	3999	89
						•										•					•	
17:00	51	159	42	0	252	24	229	27	15	295	26	53	17	0	96	54	348	44	5	451	1094	20
17:15	52	212	41	0	305	43	226	41	12	322	16	74	19	0	109	42	302	50	5 7	399	1135	17
17:30	50	177	37	0	264 271	43	215	34	8	300 274	13	63 56	16	0	92	60	363	70 70	<i>/</i>	500	1156	15 10
17:45 Total	51 204	178 726	41 161	1 1	1092	31 141	198 868	33 135	12 47	1191	28 83	56 246	18 70	0	102 399	47 203	352 1365	79 243	23	484 1834	1131 4516	<u>19</u> 71
Total	204	720	101	'	1032	1 141	000	155	47	1131	00	240	70	O	333	1 200	1303	240	20	1054	4310	, ,
<b>Grand Total</b>	537	1746	613	1	2897	337	3662	590	139	4728	504	1513	257	0	2274	578	3521	536	91	4726	14625	231
Apprch %	18.5%	60.3%	21.2%	0.0%		7.1%	77.5%	12.5%	2.9%		22.2%	66.5%	11.3%	0.0%		12.2%	74.5%	11.3%	1.9%			
Total %	3.7%	11.9%	4.2%	0.0%	19.8%	2.3%	25.0%	4.0%	1.0%	32.3%	3.4%	10.3%	1.8%	0.0%	15.5%	4.0%	24.1%	3.7%	0.6%	32.3%	100.0%	
AM PEAK			S Mary	Δνερμε				W El Cam	ino Real				S Mary A	Venue				W El Can	nino Real			
HOUR			Southb					Westbo					Northbo					Eastbo				
	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU		UTURNS	APP.TOTAL	LEFT	THRU		UTURNS	APP.TOTAL	Total	7
Peak Hour A					<u>'</u>		•	•		•	•	•	<u> </u>		•	•	•			•		-
Peak Hour F			on Begins	at 07:45		•															•	
7:45	20	60	43	0	123	18	314	52	5	389	43	164	17	0	224	28	110	11	4	153	889	
8:00	29	100	48	0	177	12	249	51	11	323	54	141	19	0	214	42	116	13	8	179	893	
8:15 8:30	26 21	77 41	54 39	0 0	157 101	22 10	322 284	55 54	8 3	407 351	58 40	191 143	18 19	0	267 202	33 32	145 123	16 17	2	198 174	1029 828	
Total Volume	96	278	184	0	558	62	1169	212	<u>3</u> 27	1470	195	639	73	0	907	135	494	57	<u>∠</u> 18	704	3639	_
% App Total	17.2%	49.8%	33.0%	0.0%	000	4.2%	79.5%	14.4%	1.8%	1170	21.5%	70.5%	8.0%	0.0%	007	19.2%	70.2%		2.6%	701	0000	
PHF	.828	.695	.852	.000	.788	.705	.908	.964	.614	.903	.841	.836	.961	.000	.849	.804	.852	.838	.563	.889	.884	_
																<u> </u>					•	
PM PEAK			S Mary					W El Cam					S Mary A					W El Can				
HOUR	, cct	THRU	Southb			1 5 5 7	THRU	Westbo			1555	TUDU	Northbo		1.55.55	1.55	THINH	Eastbo		1.55.757.	T-1-1	٦
START TIME Peak Hour A			RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	Total	J
Peak Hour F				at 17:00																		
17:00	51	159	42	0	252	24	229	27	15	295	26	53	17	0	96	54	348	44	5	451	1094	
17:15	52	212	41	0	305	43	226	41	12	322	16	74	19	0	109	42	302	50	5	399	1135	
17:30	50	177	37	0	264	43	215	34	8	300	13	63	16	0	92	60	363	70	7	500	1156	
17:45	51	178	41	1	271	31	198	33	12	274	28	56	18	0	102	47	352	79	6	484	1131	_
Total Volume	204	726	161	1	1092	141	868	135	47	1191	83	246	70	0	399	203	1365	243	23	1834	4516	
% App Total	18.7%	66.5%	14.7%	0.1%	905	11.8%	72.9%	11.3%	3.9%	005	20.8%	61.7%	17.5%	0.0%	045	11.1%	74.4%	13.2%	1.3%	047	077	_
PHF	.981	.856	.958	.250	.895	.820	.948	.823	.783	.925	.741	.831	.921	.000	.915	.846	.940	.769	.821	.917	.977	

City of Sunnyvale All Vehicles & Uturns On Unshifted Bikes & Peds On Bank 1 Nothing On Bank 2

(916) 771-8700 orders@atdtraffic.com

File Name: 15-7935-007 S Mathilda Avenue & West Project Driveway

Date: 12/2/2015

	lnahiftad	Caunt -	A II \/a	hioloo	0	Literana	
ι	Jnshifted	Count =	All Ve	nicies	Č.	Uturns	

									Unshifted C	ount = All Vel	nicles &	Uturns									•	
			S Mathild				,	West Project					S Mathilda				,	West Projec	•			
START TIME	LEFT	THRU	Southb RIGHT	ouna UTURNS	APP.TOTAL	LEFT	THRU	Westbo	una UTURNS	APP.TOTAL	LEFT	THRU	Northbo RIGHT	una UTURNS	APP.TOTAL	LEFT	THRU	Eastbo	una UTURNS	APP.TOTAL	Total	Uturns Total
7:00	0	60	0	0	60	0	0	2	0	2	0	189	2	0	191	0	0	0	0	0	253	0
7:15	0	73	0	0	73	0	0	5	0	5	0	212	0	0	212	0	0	0	0	0	290	0
7:30	0	86	0	0	86	0	0	0	0	0	0	328	2	0	330	0	0	0	0	0	416	0
7:45	0	96	0	0	96	0	0	2	0	2	0	434	3	0	437	0	0	0	0	0	535	0
Total	0	315	0	0	315	0	0	9	0	9	0	1163	7	0	1170	0	0	0	0	0	1494	0
8:00	0	90	0	0	90	0	0	2	0	2	0	493	3	0	496	0	0	0	0	0	588	0
8:15	0	126	0	0	126	0	0	4	0	4	0	432	3	0	435	0	0	0	0	0	565	0
8:30	0	110	0	0	110	0	0	4	0	4	0	572	4	0	576	0	0	0	0	0	690	0
8:45	0	138	0	0	138	0	0	7	0	7	0	512	3	0	515	0	0	0	0	0	660	0
Total	0	464	0	0	464	0	0	17	0	17	0	2009	13	0	2022	0	0	0	0	0	2503	0
16:00	0	269	0	0	269	0	0	6	0	6	0	122	8	0	130	<b>l</b> 0	0	0	0	0	405	0
16:15	0	274	0	0	274	0	0	7	0	7	0	133	4	0	137	0	0	0	0	0	418	0
16:30	0	244	0	0	244	0	0	6	0	6	0	107	6	0	113	0	0	0	0	0	363	0
16:45	0	275	0	0	275	0	0	4	0	4	0	142	5	0	147	0	0	0	0	0	426	0
Total	0	1062	0	0	1062	0	0	23	0	23	0	504	23	0	527	0	0	0	0	0	1612	0
17:00	0	527	0	0	527	0	0	6	0	6	0	126	2	0	128	0	0	0	0	0	661	0
17:15	0	463	0	0	463	0	0	11	0	11	0	159	4	0	163	0	0	0	0	0	637	0
17:30	0	374	0	0	374	0	0	2	0	2	0	142	4	0	146	0	0	0	0	0	522	0
17:45 Total	0	473 1837	0	0	473 1837	0	0	5 24	0	5 24	0	158 585	2 12	0	160 597	0	0	0	0	0	638 2458	0
			•				•										•	•				•
Grand Total	0	3678	0	0	3678	0	0	73	0	73	0	4261	55 4.20/	0	4316	0	0	0	0	0	8067	0
Apprch % Total %	0.0% 0.0%	100.0% 45.6%	0.0% 0.0%	0.0% 0.0%	45.6%	0.0% 0.0%	0.0% 0.0%	100.0% 0.9%	0.0% 0.0%	0.9%	0.0% 0.0%	98.7% 52.8%	1.3% 0.7%	0.0% 0.0%	53.5%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	0.0%	100.0%	
•					'					'	ı					•					ı	
AM PEAK			S Mathild				1	West Projec	•				S Mathilda				,	West Projec	•			
HOUR		<b>TUDU</b>	Southb				T	Westbo				T =:	Northbo				T =: : : : : :	Eastbo				7
START TIME Peak Hour A	LEFT		RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	Total	J
Peak Hour F				at 08:00																		
8:00	0	90	0	0	90	0	0	2	0	2	0	493	3	0	496	0	0	0	0	0	588	
8:15	0	126	0	0	126	0	0	4	0	4	0	432	3	0	435	0	0	0	0	0	565	
8:30	0	110	0	0	110	0	0	4	0	4	0	572	4	0	576	0	0	0	0	0	690	
8:45	0	138 464	0	0	138 464	0	0	/ 17	0	17	0	512 2009	<u>3</u> 13	0	515 2022	0	0	0	0	0	660 2503	-
Total Volume % App Total	0.0%	100.0%	0.0%	0.0%	404	0.0%	0.0%	100.0%	0.0%	17	0.0%	99.4%	0.6%	0.0%	2022	0.0%	0.0%	0.0%	0.0%	U	2503	
PHF	.000	.841	.000	.000	.841	.000	.000	.607	.000	.607	.000	.878	.813	.000	.878	.000	.000	.000	.000	.000	.907	-
PM PEAK			S Mathild				,	West Projec	•				S Mathilda				,	West Projec	•			
HOUR	LEFT	THRU	Southb RIGHT		ADD TOTAL	LEFT	THRU	Westbo	ound UTURNS	100 70741	1 5 5 7	TUDU	Northbo		1 A DD TOTAL	LEFT	THRU	Eastbo		I ADD TOTAL	T-4-1	7
START TIME Peak Hour A				UTURNS	APP.TOTAL	LEFI	THKU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFI	THRU	RIGHT	UTURNS	APP.TOTAL	Total	J
Peak Hour F		Intersection		at 17:00																		
17:00	0	527	0	0	527	0	0	6	0	6	0	126	2	0	128	0	0	0	0	0	661	
17:15	0	463	0	0	463	0	0	11	0	11	0	159	4	0	163	0	0	0	0	0	637	
17:30 17:45	0	374 473	0	0	374 473	0 0	0 0	2	0 0	2 5	0 0	142 158	4	0 0	146 160	0	0	0	0	0 0	522	
Total Volume	0	1837	0	0	1837	0	0	5 24	0	24	0	585	2 12	0	597	0	0	0	0	0	638 2458	_
% App Total	0.0%	100.0%	0.0%	0.0%	1001	0.0%	0.0%	100.0%	0.0%	<b>∠</b> -T	0.0%	98.0%	2.0%	0.0%	001	0.0%	0.0%	0.0%	0.0%	J	2-100	
PHF	.000	.871	.000	.000	.871	.000	.000	.545	.000	.545	.000	.920	.750	.000	.916	.000	.000	.000	.000	.000	.930	-

City of Sunnyvale All Vehicles & Uturns On Unshifted Bikes & Peds On Bank 1 Nothing On Bank 2

(916) 771-8700 orders@atdtraffic.com

File Name: 15-7935-008 Sunnyvale Saratoga Road & Northeast Project Drivewa

Date: 12/2/2015

Unshifted Count = All Vehicles & Uturns

									Unshifted Co	ount = All Vel	nicles & l	Jturns									-	
		Su		aratoga Road			No		ect Driveway			Su		aratoga Road			No		ject Driveway			
START TIME	LEFT	THRU	Southb RIGHT	ouna UTURNS	APP.TOTAL	LEFT	THRU	Westbo	una UTURNS	APP.TOTAL	LEFT	THRU	Northb RIGHT	ouna UTURNS	APP.TOTAL	LEFT	THRU	Eastbo	una UTURNS	APP.TOTAL	Total	Uturns Total
7:00	0	32	2	0108113	34	0	0	0	0	0	1	59	0	0	60	0	0	0	0108113	0	94	Oturns Total
7:15	0	52	3	0	55	0	0	0	0	0	0	69	0	0	69	1	0	0	0	1	125	0
7:30	0	29	1	0	30	0	0	0	0	Ō	1	68	0	0	69	1	0	1	0	2	101	0
7:45	0	54	2	0	56	0	0	0	0	0	1	87	0	0	88	0	0	0	0	0	144	0
Total	0	167	8	0	175	0	0	0	0	0	3	283	0	0	286	2	0	1	0	3	464	0
																					1	
8:00	0	58	2	0	60	0	0	0	0	0	1	108	0	0	109	3	0	1	0	4	173	0
8:15	0	65	1	0	66	0	0	0	0	0	3	97	0	0	100	3	0	1	0	4	170	0
8:30 8:45	0	60 72	0	0	66 72	0	0	0	0 0	0 0	0	111 105	0	0 0	111 106	3	0 0	0	0	3	178 181	0
Total	0	255	9	0	264	0	0	0	0	0	5	421	0	0	426	9	0	3	0	12	702	0
Total	O	200	9	O	204	1	O	O	O	O	3	421	O	O	420	1 3	U	3	O	12	702	O
16:00	0	91	4	0	95	0	0	0	0	0	4	124	0	0	128	4	0	2	0	6	229	0
16:15	0	117	7	0	124	0	0	0	0	0	3	110	0	0	113	4	0	3	0	7	244	0
16:30	0	111	11	0	122	0	0	0	0	0	3	108	0	0	111	0	0	1	0	1	234	0
16:45	0	117	10	0	127	0	0	0	0	0	1	122	0	0	123	3	0	2	0	5	255	0
Total	0	436	32	0	468	0	0	0	0	0	11	464	0	0	475	11	0	8	0	19	962	0
17:00	0	119	11	0	130	0	0	0	0	0	3	107	0	0	110	9	0	3	0	12	252	0
17:15	0	122	5	0	127	0	0	0	0	0	0	147	0	0	147	4	0	1	0	5	279	0
17:30	0	120	5	0	125	0	0	0	0	0	3	107	0	0	110	5	0	1	0	6	241	0
17:45	0	125	4	0	129	0	0	0	0	0	4	116	0	0	120	5	0	1	0	6	255	0
Total	0	486	25	0	511	0	0	0	0	0	10	477	0	0	487	23	0	6	0	29	1027	0
Grand Total	0	1344	74	0	1418	0	0	0	0	0	29	1645	0	0	1674	45	0	18	0	63	3155	0
Apprch %	0.0%	94.8%	5.2%	0.0%		0.0%	0.0%	0.0%	0.0%		1.7%	98.3%	0.0%	0.0%		71.4%	0.0%	28.6%	0.0%			
Total %	0.0%	42.6%	2.3%	0.0%	44.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	52.1%	0.0%	0.0%	53.1%	1.4%	0.0%	0.6%	0.0%	2.0%	100.0%	
AM PEAK		Su	nnwale Sa	aratoga Road		1	No	rtheast Proj	ect Driveway			Sı.	inniviale S	aratoga Road		<u> </u>	No	orthoast Pro	ject Driveway			
HOUR		Ou	Southb	-			140	Westbo				00	Northb				140	Eastbo				
START TIME	LEFT	THRU		UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU		UTURNS	APP.TOTAL	Total	1
Peak Hour A	Analysis F	rom 08:00	to 09:00			•	•			•			•		•	•		•		•		-
Peak Hour F			on Begins a	at 08:00																		
8:00	0	58	2	0	60	0	0	0	0	0	1	108	0	0	109	3	0	1	0	4	173	
8:15	0	65	1	0	66	0	0	0	0	0	3	97	0	0	100	3	0	1	0	4	170	
8:30 8:45	0	60 72	0	0	66 72	0	0	0	0 0	0 0	0	111 105	0	0 0	111 106	0 3	0 0	1	0	3	178 181	
7.45 Total Volume	0	255	9	0	264	0	0	0	0	0	5	421	0	0	426	9	0	3	0	<u>3</u> 12	702	-
% App Total	•	96.6%	3.4%	0.0%	204	0.0%	0.0%	0.0%	0.0%	O	1.2%	98.8%	0.0%	0.0%	420	75.0%	0.0%	25.0%	0.0%	12	702	
PHF		.885	.375	.000	.917	.000	.000	.000	.000	.000	.417	.948	.000	.000	.959	.750	.000	.750	.000	.750	.970	-
PM PEAK		Su	-	aratoga Road			No		ect Driveway			Su		aratoga Road			No		ject Driveway			
HOUR		T =:	Southb				T =:	Westbo		<b>T</b>		T =:	Northb				<b>T</b> 11511	Eastbo				7
START TIME Peak Hour A				UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	Total	J
Peak Hour F				at 16:45																		
16:45		117	10	0	127	0	0	0	0	0	1	122	0	0	123	3	0	2	0	5	255	
17:00	0	119	11	0	130	0	0	0	0	0	3	107	0	0	110	9	0	3	0	12	252	
17:15	0	122	5	0	127	0	0	0	0	0	0	147	0	0	147	4	0	1	0	5	279	
17:30	0	120	5	0	125	0	0	0	0	0	3	107	0	0	110	5	0	1	0	6	241	_
Total Volume	0	478	31	0	509	0	0	0	0	0	7	483	0	0	490	21	0	7	0	28	1027	
% App Total	0.0%	93.9%	6.1%	0.0%	070	0.0%	0.0%	0.0%	0.0%	000	1.4%	98.6%	0.0%	0.0%	000	75.0%	0.0%	25.0%	0.0%	F00	000	-
PHF	.000	.980	.705	.000	.979	.000	.000	.000	.000	.000	.583	.821	.000	.000	.833	.583	.000	.583	.000	.583	.920	

City of Sunnyvale All Vehicles & Uturns On Unshifted Bikes & Peds On Bank 1 Nothing On Bank 2

PHF .000 .970 .333 .000

.978 .000 .000 .000

(916) 771-8700 orders@atdtraffic.com

File Name: 15-7935-009 Sunnyvale Saratoga Road & Southeast Project Drivewa

.833 .625 .000 .614 .000

Date: 12/2/2015

Unshifted Count = All Vehicles & Uturns

									Unshifted C	ount = All Vel	nicles & l	Uturns									_	
		Su	nnyvale Sa	ratoga Road			So	utheast Proj	ject Driveway			Su	ınnyvale Sa	aratoga Road			So	utheast Pro	ject Driveway			
			Southbo					Westbo					Northb					Eastbo				
START TIME	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	Total	Uturns Total
7:00	0	31	1	0	32	0	0	0	0	0	2	61	0	0	63	0	0	0	0	0	95	0
7:15	0	52	0	0	52	0	0	0	0	0	0	68	0	0	68	0	0	0	0	0	120	0
7:30	0	30	0	0	30	0	0	0	0	0	0	69	0	0	69	0	0	0	0	0	99	0
7:45	0	53	1	0	54	0	0	0	0	0	3	89	0	0	92	0	0	0	0	0	146	0
Total	0	166	2	0	168	0	0	0	0	0	5	287	0	0	292	0	0	0	0	0	460	0
											_										_	
8:00	0	59	0	0	59	0	0	0	0	0	3	107	0	0	110	1	0	3	0	4	173	0
8:15	0	65	1	0	66	0	0	0	0	0	0	100	0	0	100	0	0	3	0	3	169	0
8:30	0	60	0	0	60	0	0	0	0	0	3	111	0	0	114	1	0	3	0	4	178	0
8:45	0	72	1	0	73	0	0	0	0	0	2	107	0	0	109	0	0	3	0	3	185	0
Total	0	256	2	0	258	0	0	0	0	0	8	425	0	0	433	2	0	12	0	14	705	0
	ì					i					•											
16:00	0	92	0	0	92	0	0	0	0	0	5	129	0	0	134	0	0	7	0	7	233	0
16:15	0	121	0	0	121	0	0	0	0	0	2	111	0	0	113	1	0	9	0	10	244	0
16:30	0	111	0	0	111	0	0	0	0	0	2	112	0	0	114	0	0	5	0	5	230	0
16:45	0	115	3	0	118	0	0	0	0	0	1	120	0	0	121	1	0	9	0	10	249	0
Total	0	439	3	0	442	0	0	0	0	0	10	472	0	0	482	2	0	30	0	32	956	0
47.00		440			100	1 0	•	•	•			440	•	•	445			4.4	•	40	1 0.47	
17:00	0	119	1	0	120	0	0	0	0	0	5	110	0	0	115	1	0	11	0	12	247	0
17:15	0	124	0	0	124	0	0	0	0	0	2	146	0	0	148	2	0	5	0	7	279	0
17:30	0	123	0	0	123	0	0	0	0	0	1	108	0	0	109	1	0	2	0	3	235	0
17:45	0	124	0	0	124	0	0	0	0	0	0	122	0	0	122	0	0	1	0	1	247	0
Total	0	490	1	0	491	0	0	0	0	0	8	486	0	0	494	4	0	19	0	23	1008	0
Grand Total	0	1351	8	0	1359	Ιo	0	0	0	0	31	1670	0	0	1701	l 8	0	61	0	69	3129	0
Apprch %	0.0%	99.4%	0.6%	0.0%	1000	0.0%	0.0%	0.0%	0.0%	Ü	1.8%	98.2%	0.0%	0.0%	1701	11.6%	0.0%	88.4%	0.0%	00	0.120	Ü
Total %		43.2%	0.3%	0.0%	43.4%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	53.4%	0.0%	0.0%	54.4%	0.3%	0.0%	1.9%	0.0%	2.2%	100.0%	
	0.070		0.070	0.070	, .	0.070	0.070	0.070	0.070	0.070		, .	0.070	0.070	0,0	1 0.070	0.070	,	0.070	,		
																					_	
AM PEAK		Su		ratoga Road			So		ect Driveway			Sı		aratoga Road			So		ject Driveway			
HOUR			Southbo					Westbo				_	Northb					Eastbo				_
START TIME				UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	Total	
Peak Hour A																						
Peak Hour F			on Begins a	at 08:00			_		_	_			_	_			_			_		
8:00	0	59	0	0	59	0	0	0	0	0	3	107	0	0	110	1	0	3	0	4	173	
8:15	0	65	1	0	66	0	0	0	0	0	0	100	0	0	100	0	0	3	0	3	169	
8:30	0	60	0	0	60	0	0	0	0	0	3	111	0	0	114	1	0	3	0	4	178	
8:45	0	72	1	0	73	0	0	0	0	0	2	107	0	0	109	0	0	3	0	3	185	_
Total Volume	0	256	2	0	258	0	0	0	0	0	8	425	0	0	433	2	0	12	0	14	705	
% App Total	0.0%	99.2%	0.8%	0.0%		0.0%	0.0%	0.0%	0.0%		1.8%	98.2%	0.0%	0.0%		14.3%	0.0%	85.7%	0.0%			_
PHF	.000	.889	.500	.000	.884	.000	.000	.000	.000	.000	.667	.957	.000	.000	.950	.500	.000	1.000	.000	.875	.953	
PM PEAK		Su	nnwale Sa	ratoga Road			So	utheast Pro	ject Driveway			Sı	ınnvvale S	aratoga Road			So	utheast Pro	ject Driveway		1	
HOUR		Su	Southbo	-			30	Westbo	•			30	Northb				30	Eastbe				
START TIME	LEFT	THRU		UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU	RIGHT	UTURNS	APP.TOTAL	LEFT	THRU		UTURNS	APP.TOTAL	Total	7
Peak Hour A																						_
Peak Hour F				at 16:45																		
16:45		115	3	0	118	0	0	0	0	0	1	120	0	0	121	1	0	9	0	10	249	
17:00	0	119	1	0	120	0	0	0	0	0	5	110	0	0	115	1	0	11	0	12	247	
17:15	0	124	0	0	124	0	0	0	0	0	2	146	0	0	148	2	0	5	0	7	279	
17:30	0	123	0	0	123	0	0	0	0	0	1	108	0	0	109	1	0	2	0	3	235	
Total Volume	0	481	4	0	485	0	0	0	0	0	9	484	0	0	493	5	0	27	0	32	1010	_
% App Total	0.0%	99.2%	0.8%	0.0%		0.0%	0.0%	0.0%	0.0%		1.8%	98.2%	0.0%	0.0%		15.6%	0.0%	84.4%	0.0%			
DUE	200	070	200	200	070	200	200	200	200	200	450	000	200	200	200	005	200	04.4	222	007	205	_

.000 .450 .829 .000

.000

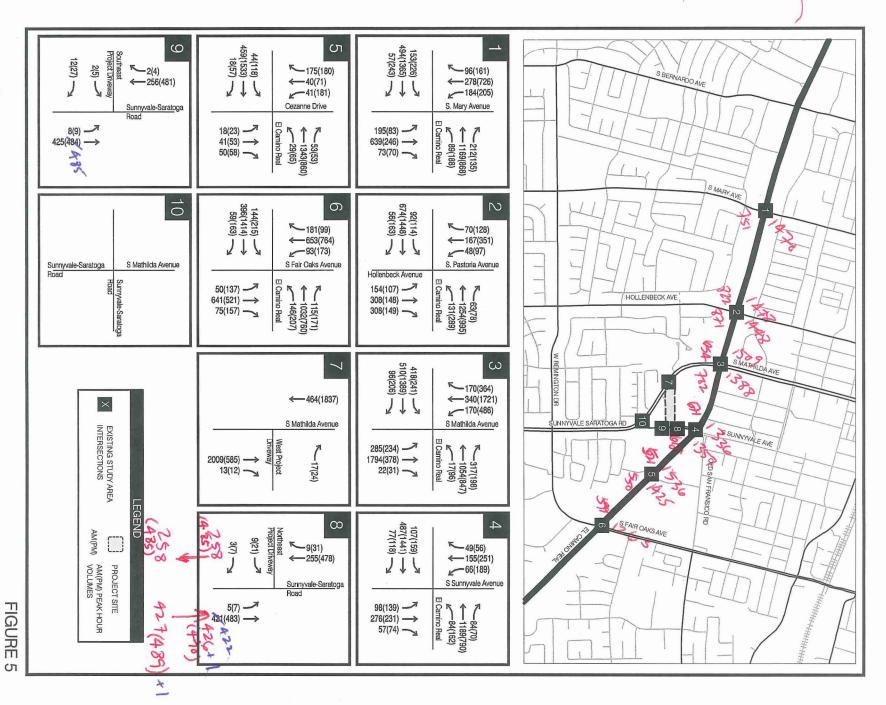
.000

# Volume Balance Worksheet

# EXISTING (2015) CONDITION PEAK HOUR TURNING MOVEMENT VOLUMES

NOT TO SCALE PE

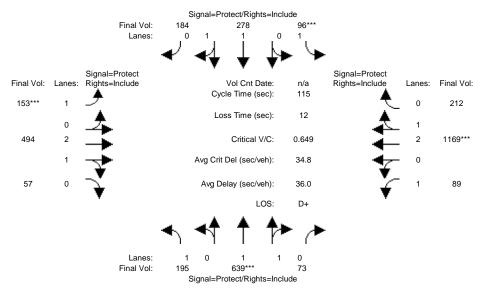




# **Existing Traffic Conditions**

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex AM

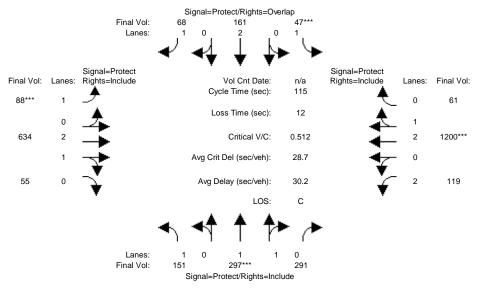
### Intersection #1: S Mary Ave / El Camino Real



Street Name: Approach:		rth Bo			ı+h Bo	und		E	l Cami		al est Bo	und
Movement:		- Т							- R		est bo - T	
Min. Green:		10		7					10		10	10
Y+R:	4.0		4.0	4.0	4.0	4.0		4.0	4.0	4.0	4.0	4.0
Volume Modul	e:						•					·
Base Vol:	195	639	73	96	278	184	153	494	57	89	1169	212
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	195	639	73	96	278	184	153	494	57	89	1169	212
Added Vol:			0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	195	639	73	96	278	184	153	494	57	89	1169	212
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	195	639	73	96	278	184	153	494	57	89	1169	212
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	195	639	73	96	278	184	153	494	57	89	1169	212
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	195	639	73	96	278	184	153		57		1169	212
Saturation F	low M	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.99	0.95	0.92	0.99	0.95	0.92	0.99	0.95
Lanes:	1.00	1.79	0.21	1.00	1.18	0.82	1.00	2.68	0.32	1.00	2.52	0.48
Final Sat.:	1750	3320	379	1750	2225	1473	1750	5020	579	1750	4739	859
Capacity Ana	lysis	Modul	e:									
Vol/Sat:	0.11	0.19	0.19	0.05	0.12	0.12	0.09	0.10	0.10	0.05	0.25	0.25
Crit Moves:		****		****			****				****	
Green Time:	20.7	34.1	34.1	9.7	23.2	23.2	15.5	36.6	36.6	22.6	43.7	43.7
Volume/Cap:	0.62	0.65	0.65	0.65	0.62	0.62	0.65	0.31	0.31	0.26	0.65	0.65
Delay/Veh:	47.3	36.6	36.6	60.7	43.5	43.5	53.4	29.8	29.8	39.5	30.1	30.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.3	36.6	36.6	60.7	43.5	43.5	53.4	29.8	29.8	39.5	30.1	30.1
LOS by Move:		D+	D+	E	D	D	D-	С	C	D	С	С
HCM2k95thQ:	366	539	539	233	395	395	318	243	243	138	595	595
Note: Queue	repor	ted is	the d	listand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex AM

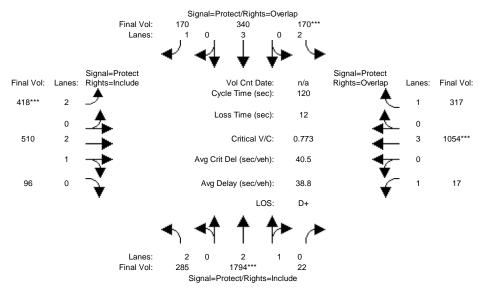
### Intersection #2: S Pastoria Avenue / El Camino Real



Street Name: Approach:	No:	S Parth Bo	astori und	a Aver Soi	nue uth Bo	und	Ea	E ast Bo	l Cami:		al est Bo	und
Movement:	L ·	- T	- R	L -	- T	- R	L -	- T	- R			
Min. Green:		10			10						10	
Y+R:	4.0	4.0	4.0		4.0	4.0	4.0	4.0	4.0		4.0	4.0
Volume Module			I				1					
Base Vol:	151	297	291	47	161	68	88	634	55	119	1200	61
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	151	297	291	47	161	68	88	634	55	119	1200	61
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	151	297	291	47	161	68	88	634	55	119	1200	61
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	151	297	291	47	161	68	88	634	55	119	1200	61
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	151	297	291	47	161	68	88	634	55	119	1200	61
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	151	297	291	47	161	68	88	634	55	119	1200	61
Saturation F	low M	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.95	0.92	1.00	0.92	0.92	0.99	0.95	0.83	0.98	0.95
Lanes:	1.00	1.00	1.00	1.00	2.00	1.00	1.00	2.75	0.25	2.00	2.85	0.15
Final Sat.:			1800		3800	1750		5152	447		5329	271
	1											
Capacity Ana	-											
Vol/Sat:		0.16	0.16		0.04	0.04		0.12	0.12	0.04	0.23	0.23
				****			****				****	
Green Time:		34.8	34.8		21.0	32.1		41.0	41.0		50.1	50.1
Volume/Cap:		0.52	0.53		0.23	0.14	0.52	0.35	0.35		0.52	0.52
Delay/Veh:			33.9		40.3	31.2		27.3	27.3		23.9	23.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			33.9		40.3	31.2	52.1	27.3	27.3	40.7	23.9	23.9
LOS by Move:	D		C-	E+	D	C	D-	С	С	D	C	C
HCM2k95thQ:	270	415	431	117	126	98	160	281	281	103	476	476
Note: Queue	repor	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex AM

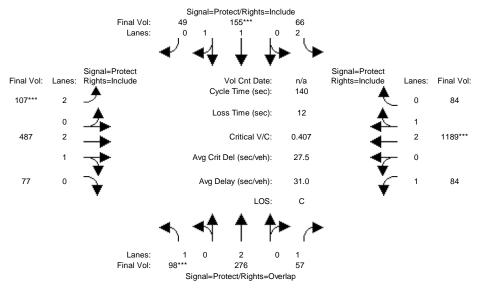
### Intersection #3: S. Mathilda Avenue / El Camino Real



Street Name: Approach:		S. rth Bo				und	E.		l Cami		al est Bo	und
Movement:	L ·	- T	- R	L -	- T	- R	L -	- T	- R	L ·	- T	- R
		10			10			10			10	10
Y+R:	4.0					4.0	4.0		4.0	4.0		4.0
Volume Module	e:					•						
Base Vol:	285	1794	22	170	340	170	418	510	96	17	1054	317
Growth Adj:			1.00	1.00		1.00	1.00	1.00	1.00		1.00	1.00
Initial Bse:	285	1794	22	170	340	170	418	510	96	17	1054	317
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	285	1794	22	170	340	170	418	510	96	17	1054	317
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	285	1794	22	170	340	170	418	510	96	17	1054	317
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	285	1794	22	170	340	170	418	510	96	17	1054	317
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			22	170	340	170	418	510	96	17	1054	317
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:			0.95	0.83		0.92		0.99	0.95		1.00	0.92
	2.00		0.04		3.00	1.00		2.51	0.49		3.00	1.00
Final Sat.:			68		5700	1750		4712	887		5700	1750
Capacity Anal												
Vol/Sat:	-	0.32	0.32	0.05	0.06	0.10	0.13	0.11	0.11	0.01	0.18	0.18
		****									***	
	30.6		50.3	8.4	28.1	48.7	20.6	32.0	32.0	17.3	28.7	37.1
Volume/Cap:	0.36	0.77	0.77	0.77	0.25	0.24	0.77	0.41	0.41	0.07	0.77	0.59
Delay/Veh:	36.9	31.6	31.6	70.4	37.5	23.6	54.3	36.3	36.3	44.5	45.4	36.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:		31.6	31.6		37.5	23.6		36.3	36.3		45.4	36.7
LOS by Move:			C	E	D+	C	D-	D+	D+	D	D	D+
HCM2k95thO:	255		873	268	170	215	429	289	289	29	557	479
Note: Queue										-		-

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex AM

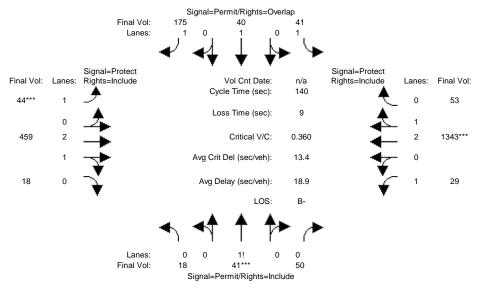
### Intersection #4: S. Sunnyvale Avenue / El Camino Real



Street Name: Approach:	No:	S. Si	unnyva und	le Ave	enue ith Bo	und	Ea	E ast Bo	l Cami:		al est Bo	und
Movement:	L ·	- T	- R	L -	- T	- R	L -	- T	- R	L -	- T	- R
Min. Green:		10			10			10			10	
Y+R:	4.0	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0
Volume Module	-		I				1			1		
Base Vol:	98	276	57	66	155	49	107	487	77	84	1189	84
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:		276	57	66	155	49	107	487	77	84	1189	84
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	98	276	57	66	155	49	107	487	77	84	1189	84
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	98	276	57	66	155	49	107	487	77	84	1189	84
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	98	276	57	66	155	49	107	487	77	84	1189	84
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	98	276	57	66	155	49	107	487	77	84	1189	84
Saturation F	low M	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	0.98	0.95	0.83	0.99	0.95	0.92	0.98	0.95
Lanes:	1.00	2.00	1.00	2.00	1.51	0.49	2.00	2.58	0.42	1.00	2.79	0.21
Final Sat.:			1750		2811	889		4834	764		5230	369
Capacity Ana	_											
Vol/Sat:		0.07	0.03	0.02	0.06	0.06		0.10	0.10	0.05	0.23	0.23
CIIC MOVED	****				****		****				****	
Green Time:		22.6	52.4		19.0	19.0		60.0	60.0		78.1	78.1
Volume/Cap:	0.41	0.45	0.09	0.19	0.41	0.41	0.41	0.23	0.23	0.23	0.41	0.41
Delay/Veh:	56.3	53.6	28.4	56.7	55.9	55.9	61.9	25.5	25.5	45.9	17.8	17.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	56.3	53.6	28.4	56.7	55.9	55.9	61.9	25.5	25.5	45.9	17.8	17.8
LOS by Move:	E+	D-	C	E+	E+	E+	E	С	С	D	В	В
HCM2k95thQ:	219	273	85	84	216	216	130	242	242	154	470	470
Note: Queue	repor	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex AM

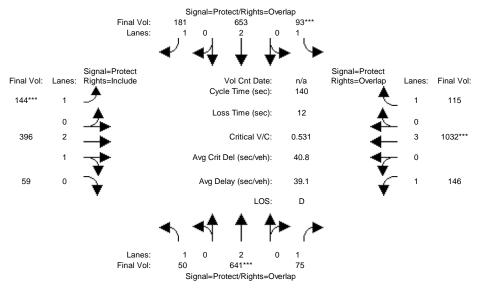
### Intersection #5: Cezanne Drive / El Camino Real



Street Name: Approach:		Co rth Bo		Drive	e uth Bo	und	Ea	E ast Bo	l Cami		al est Bo	und
Movement:	L ·	- T	- R	L -	- T	- R	L -	- T	- R	L -	- T	- R
		10			10						10	
Y+R:	4.0	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0
Volume Module	'		Į	I		I	I		I	I		I
Base Vol:	18	41	50	41	40	175	44	459	18	29	1343	53
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:		41	50	41	40	175	44	459	18	29	1343	53
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	18	41	50	41	40	175	44	459	18	29	1343	53
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	18	41	50	41	40	175	44	459	18	29	1343	53
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	18	41	50	41	40	175	44	459	18	29	1343	53
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	18	41	50	41	40	175	44	459	18	29	1343	53
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:			0.92		1.00	0.92		0.98	0.95		0.98	0.95
Lanes:			0.46		1.00	1.00		2.88	0.12		2.88	0.12
Final Sat.:			803		1900	1750		5388	211		5387	213
Capacity Anal	1											
Vol/Sat:	_	0.06	0.06	0 02	0.02	0.10	U U3	0.09	0.09	0 02	0.25	0.25
	0.00		0.00	0.02	0.02	0.10	****		0.09	0.02	****	0.25
Green Time:	24.2	24.2	24.2	24.2	24.2	34.0	9.8	67.3	67.3	39.5	97.0	97.0
Volume/Cap:	0.36	0.36	0.36	0.14	0.12	0.41	0.36	0.18	0.18	0.06	0.36	0.36
Delay/Veh:	51.8	51.8	51.8	49.2	49.1	45.2	63.9	20.7	20.7	36.7	8.9	8.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	51.8	51.8	51.8	49.2	49.1	45.2	63.9	20.7	20.7	36.7	8.9	8.9
LOS by Move:			D-	D	D	D	E	C+	C+	D+	A	A
HCM2k95thQ:	226		226	83	75	329	98	186	186	49	381	381
Note: Queue							in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex AM

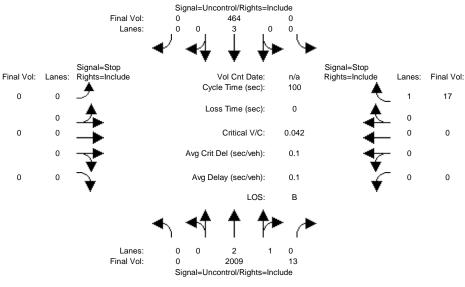
### Intersection #6: S. Fair Oaks Avenue / El Camino Real



Street Name: S. F Approach: North Bo	air Oaks Av	enue uth Bou	nd	Eá	E ast Bo	l Caminund		al est Bo	und
Movement: L - T	- R L	- T -	R	L -	- T	- R	L -	- T	- R
Min. Green: 7 10	10 7	10	10	7	10	10		10	
Y+R: 4.0 4.0		4.0	4.0		4.0	4.0		4.0	4.0
Volume Module:			ļ	I		I	I		I
Base Vol: 50 641	75 93	653	181	144	396	59	146	1032	115
Growth Adj: 1.00 1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse: 50 641	75 93	653	181	144	396	59	146	1032	115
Added Vol: 0 0	0 0	0	0	0	0	0	0	0	0
PasserByVol: 0 0	0 0	0	0	0	0	0	0	0	0
Initial Fut: 50 641	75 93	653	181	144	396	59	146	1032	115
User Adj: 1.00 1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj: 1.00 1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume: 50 641	75 93	653	181	144	396	59	146	1032	115
Reduct Vol: 0 0	0 0	0	0	0	0	0	0	0	0
Reduced Vol: 50 641	75 93	653	181	144	396	59	146	1032	115
PCE Adj: 1.00 1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj: 1.00 1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume: 50 641	75 93	653	181	144		59	146	1032	115
Saturation Flow Module:									
Sat/Lane: 1900 1900	1900 1900		1900		1900	1900		1900	1900
Adjustment: 0.92 1.00	0.92 0.92	1.00	0.92	0.92	0.99	0.95	0.92	1.00	0.92
Lanes: 1.00 2.00	1.00 1.00		1.00	1.00		0.40		3.00	1.00
Final Sat.: 1750 3800			1750	1750		726		5700	1750
	1 1								
Capacity Analysis Modul		0 17	0 10	0 00	0 00	0 00	0 00	0 10	0 07
Vol/Sat: 0.03 0.17 Crit Moves: ****	0.04 0.05		0.10	0.08 ***	0.08	0.08	0.08	0.18	0.07
			6.0		24.2	24.2	25 0		<b>61</b> 0
Green Time: 13.2 44.5			67.0		34.3	34.3		47.8	61.8
Volume/Cap: 0.30 0.53			0.22		0.33	0.33		0.53	0.15
Delay/Veh: 60.2 39.6			21.3		43.6	43.6		37.4	23.5
User DelAdj: 1.00 1.00			1.00		1.00	1.00		1.00	1.00
AdjDel/Veh: 60.2 39.6			21.3	56.5		43.6		37.4	23.5
LOS by Move: E D	B E	_	C+	E+	D	D	D	D+	C
HCM2k95thQ: 121 515	77 234		231	293	254	254	268	537	154
Note: Queue reported is	the distan	ce per	lane :	in fe	et.				

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex AM

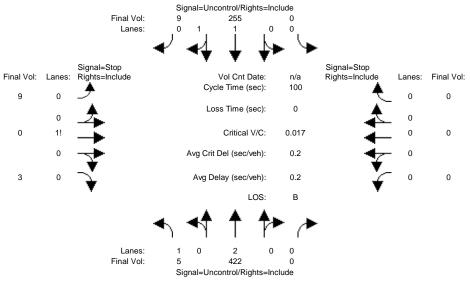
### Intersection #7: S Mathilda Ave / Southwest Project Driveway



			Signal=U	ncontrol/RigI	nts=Includ	е						
Street Name:		SI	Mathilo	da Aver	nue		So	outhwe	estPro	ject Di	rivewa	ЭУ
Approach:	Noi	rth Bo	ound	Soi	ath Bo	ound	Εá	ast Bo	ound	We	est Bo	ound
Movement:	L -	- T	- R	L -	- Т	- R	L ·	- T	- R	L -	- Т	- R
-												
Volume Module:				' '						' '		'
Base Vol:	0	2009	13	0	464	0	0	0	0	0	0	17
Growth Adj: 1	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	2009	13	0	464	0	0	0	0	0	0	17
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	2009	13	0	464	0	0	0	0	0	0	17
User Adj: 1	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj: 1	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	2009	13	0	464	0	0	0	0	0	0	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	2009	13	0	464	0	0	0	0	0	0	17
-												
Critical Gap M	lodu]	le:					•					•
Critical Gp:xx	XXX	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9
FollowUpTim:xx	xxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	3.3
-												
Capacity Modul				' '						' '		'
Cnflict Vol: x	xxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	676
Potent Cap.: x	xxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	401
Move Cap.: x	xxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	401
Volume/Cap: x	xxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	0.04
-												
Level Of Servi	ce I	Module	<b>≘</b> ∶	' '						' '		'
2Way95thO: x	XXX	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	3.3
Control Del:xx	xxx	xxxx	xxxxx					xxxx	xxxxx	xxxxx	xxxx	14.4
LOS by Move:	*	*	*	*	*	*	*	*	*	*	*	В
-	LT -	- LTR	- RT	LT -	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.: x	XXX	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedOueue:xx											xxxx	xxxxx
Shrd ConDel:xx	XXX	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	xx	xxxx		XX	xxxxx		x	xxxx			14.4	
ApproachLOS:		*			*			*			В	
Note: Queue re	port	ed is	s the o	distand	ce per	r lane	in fee	et.				
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~						gnal Wa			rt			
******	***				-	-		_		*****	****	*****
Intersection #	7 S	Math:	ilda Av	re / So	outhwe	est Pro	oject I	Drive	way			

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex AM

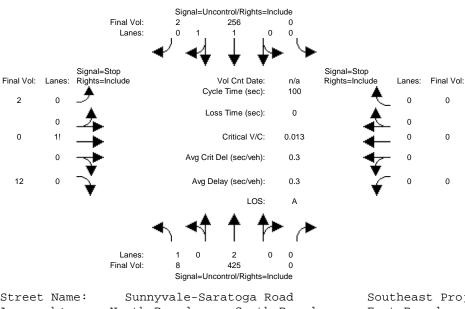
### Intersection #8: Sunnyvale-Saratoga Road / East Project Driveway



Street Name: Approach: Movement:	No:	rth Bo - T	ound – R	Son L ·	uth Bo - T	d ound - R	Ea L ·	ast Bo - T	Projections Projections Projection Projectio	We	est Bo - T	
Volume Module	· • :			' '			' '			' '		1
	5	422	0	0	255	9	9	0	3	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	5	422	0	0	255	9	9	0	3	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	5	422	0	0	255	9	9	0	3	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	5	422	0	0	255	9	9	0	3	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:		422	0	0	255	9	9	0	3	0	0	0
Critical Gap	Modu.	le:										
Critical Gp:									6.9	xxxxx	XXXX	XXXXX
FollowUpTim:								4.0		xxxxx		
Capacity Modu												
Cnflict Vol:									132		XXXX	XXXXX
Potent Cap.:					XXXX	XXXXX	519	370	899	XXXX	XXXX	XXXXX
Move Cap.:						XXXXX	518	369	899			XXXXX
Volume/Cap:			XXXX			XXXX		0.00	0.00			XXXX
Level Of Serv												
2Way95thQ:												
Control Del:									xxxxx *			XXXXX
LOS by Move:		*		*		*				*		× ×
Movement:			- RT			- RT			- RT		- LTR	
Shared Cap.:									XXXXX			
SharedQueue:									xxxxx			
Shrd ConDel:> Shared LOS:	*	xxxx *	xxxxx *	xxxxx *	xxxx *	*	xxxxx *	11.3 B	*	*	XXXX	XXXXX *
			,,			.,		11.3				•
ApproachDel: ApproachLOS:	X.	XXXXX *		X	XXXXX *			11.3 B		X	XXXXX *	
Note: Queue 1	cenom:		a tho	diator		a lanc	in for	_			••	
Note: Queue i	-ehor		eak Hou		_				c+			
********	****				-	_		_		*****	****	*****
Intersection												
**********		_		_			_		-		****	*****

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex AM

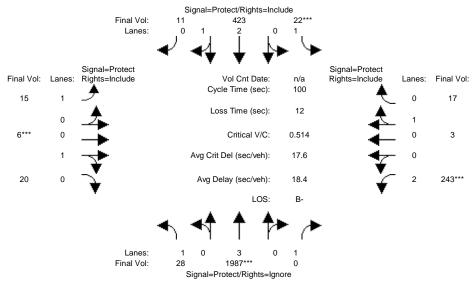
### Intersection #9: Sunnyvale-Saratoga Road / Southeast Project Driveway



Street Name: Approach:		Sunny rth B	vale-Sa	_		d ound				oject D	rivev st Bo	-
Movement:	L ·		- R			- R	L ·		- R	L -		- R
Volume Module	e:											
Base Vol:	8	425	0	0	256	2	2	0	12	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	8	425	0	0	256	2	2	0	12	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	8	425	0	0	256	2	2	0	12	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	8	425	0	0	256	2	2	0	12	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	8	425	0	0	256	2	2	0	12	0	0	0
Critical Gap	Modu.	le:										
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.8	6.5	6.9	xxxxx	xxxx	XXXXX
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	xxxxx	xxxx	xxxxx
Capacity Mod	ule:											•
Cnflict Vol:	258	xxxx	xxxxx	xxxx	xxxx	xxxxx	486	698	129	xxxx	xxxx	xxxxx
Potent Cap.:	1318	xxxx	xxxxx	xxxx	xxxx	xxxxx	516	367	903	xxxx	xxxx	xxxxx
Move Cap.:	1318	xxxx	xxxxx	xxxx	xxxx	xxxxx	513	365	903	xxxx	xxxx	xxxxx
Volume/Cap:			xxxx			xxxx		0.00	0.01	xxxx	xxxx	XXXX
Level Of Serv	vice 1	Module	e:									'
2Way95thQ:	0.5	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	7.7	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	А	*	*	*	*	*	*	*	*	*	*	*
Movement:	LT ·	- LTR	- RT	LT -	- LTR	- RT	LT ·	- LTR	- RT	LT -	LTR	- RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	815	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	0.1	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	9.5	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	А	*	*	*	*
ApproachDel:	x	xxxxx		X	xxxxx			9.5		xx	xxxx	
ApproachLOS:		*			*			А			*	
Note: Queue	report	ted is	s the o	distand	ce per	lane	in fe	et.				
		P	eak Hou	ır Dela	ay Sig	gnal Wa	arrant	Repor				
*****	****	****	*****	*****	****	*****	*****	****	*****	*****	****	*****
Intersection *******		_		_				_		_	****	*****

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex AM

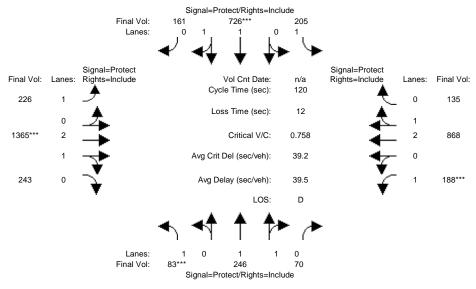
### Intersection #10: S Mathilda Ave - Sunnyvale-Saratoga Rd / Talisman Dr - Sunnvyale-Saratoga Rd



Street Name:S Mathilda Ave - Sunnyvale-Sarato Talisman Dr - Sunnyvale-Saratoga Approach: North Bound South Bound East Bound West Bound												
Movement:	L -	- T	- R	L -	- T	- R	L -	- T	- R	L -	- T	- R
Min. Green:		10			10			10		•	10	10
Y+R:		4.0			4.0			4.0	4.0	4.0		4.0
Volume Module			ı	ı		ı	I		1	ı		1
Base Vol:	28	1987	467	22	423	11	15	6	20	243	3	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	28	1987	467	22	423	11	15	6	20	243	3	17
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	28	1987	467	22	423	11	15	6	20	243	3	17
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	28	1987	0	22	423	11	15	6	20	243	3	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	28	1987	0	22	423	11	15	6	20	243	3	17
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	28	1987	0	22	423	11	15	6	20	243	3	17
Saturation Fl	Low Mo	odule:										
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.98	0.95	0.92	0.95	0.95	0.83	0.95	0.95
Lanes:	1.00	3.00	1.00	1.00	2.92	0.08	1.00	0.23	0.77	2.00	0.15	0.85
Final Sat.:	1750	5700	1750	1750	5458	142	1750	415	1385	3150		1530
	l											
Capacity Anal	-											
Vol/Sat:	0.02	0.35	0.00		0.08	0.08	0.01	0.01	0.01		0.01	0.01
Crit Moves:		***		****				****		****		
Green Time:		58.1	0.0	7.0		38.3	9.4		10.0	12.9		13.5
Volume/Cap:		0.60	0.00	0.18		0.20		0.14	0.14	0.60		0.08
Delay/Veh:		13.8	0.0		20.7	20.7		41.5	41.5	43.6		38.0
User DelAdj:			1.00	1.00		1.00		1.00	1.00	1.00		1.00
AdjDel/Veh:			0.0	44.5		20.7	41.6		41.5	43.6		38.0
LOS by Move:			A	D	C+	C+	D	D	D	D	D+	D+
110112117 0 0112	34		0	44	150	150	27	45	45	253	31	31
Note: Queue 1	report	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex PM

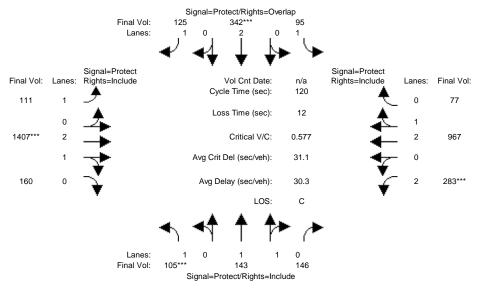
### Intersection #1: S Mary Ave / El Camino Real



Street Name: Approach:			S Mar und	y Ave	ıth Bo	und	₽-	E	l Cami		al est Bo	und
Movement:			- R						- R		- БС - Т	
Min. Green:	. 7	10	10	. 7	10	10	. 7	10	10	· 7	10	10
Y+R:	4.0		4.0		4.0	4.0	4.0	4.0	4.0	4.0		4.0
Volume Modul												
Base Vol:	83	246	70	205	726	161	226	1365	243	188	868	135
Growth Adj:		1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00
Initial Bse:	83	246	70	205	726	161	226	1365	243	188	868	135
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	83	246	70	205	726	161	226	1365	243	188	868	135
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	83	246	70	205	726	161	226	1365	243	188	868	135
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	83	246	70	205	726	161	226	1365	243	188	868	135
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	83	246	70	205	726	161	226	1365	243	188	868	135
Saturation F	low M	odule:					•					•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.99	0.95	0.92	0.99	0.95
Lanes:	1.00	1.54	0.46	1.00	1.63	0.37	1.00	2.53	0.47	1.00	2.58	0.42
Final Sat.:	1750	2880	819	1750	3028	671	1750	4753	846	1750	4845	754
Capacity Ana	lysis	Modul	e:									
Vol/Sat:	0.05	0.09	0.09	0.12	0.24	0.24	0.13	0.29	0.29	0.11	0.18	0.18
Crit Moves:	****				****			****		***		
Green Time:	7.5	19.2	19.2	26.3	38.0	38.0	26.2	45.5	45.5	17.0	36.3	36.3
Volume/Cap:	0.76	0.53	0.53	0.53	0.76	0.76	0.59	0.76	0.76	0.76	0.59	0.59
Delay/Veh:	81.1	47.3	47.3	42.9	39.8	39.8	44.6	34.1	34.1	62.1	36.1	36.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:		47.3	47.3	42.9	39.8	39.8	44.6	34.1	34.1	62.1	36.1	36.1
LOS by Move:	F	D	D	D	D	D	D	C-	C-	E	D+	D+
HCM2k95thQ:	243	292	292	362	713	713	407	797	797	356	478	478
Note: Queue	repor	ted is	the d	listand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex PM

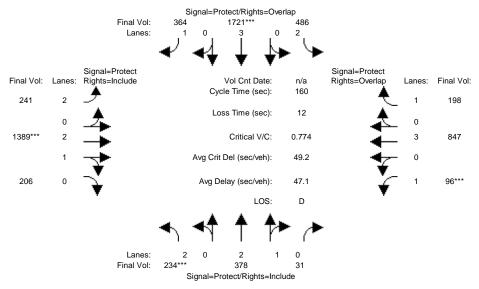
### Intersection #2: S Pastoria Avenue / El Camino Real



Street Name: Approach:	No	S Parth Bo	astori und	a Aver Sou	nue uth Bo	und	Ea	E ast Bo	l Cami:		al est Bo	und
Movement:		- T ·							- R			
		10			10						10	10
Y+R:	4.0	4.0			4.0	4.0	4.0	4.0	4.0		4.0	4.0
Volume Module												
Base Vol:	105	143	146	95	342	125	111	1407	160	283	967	77
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	105	143	146	95	342	125	111	1407	160	283	967	77
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	105	143	146	95	342	125	111	1407	160	283	967	77
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	105	143	146	95	342	125	111	1407	160	283	967	77
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	105	143	146	95	342	125	111	1407	160	283	967	77
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	105	143	146	95	342	125		1407	160		967	77
Saturation F.			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:			0.92		1.00	0.92		0.99	0.95		0.99	0.95
Lanes:	1.00		1.00		2.00	1.00		2.68	0.32		2.77	0.23
Final Sat.:			1750		3800	1750		5027	572		5186	413
Capacity Anal												
Vol/Sat:			0.08	0 05	0.09	0.07	0 06	0.28	0.28	0 09	0.19	0.19
	****	0.00	0.00	0.00	***	0.07	0.00	****	0.20	****	0.15	0.15
Green Time:	12.5	18.3	18.3	12.8	18.7	38.2	19.5	58.2	58.2	18.7	57.3	57.3
Volume/Cap:	0.58	0.49	0.55	0.51	0.58	0.22	0.39	0.58	0.58	0.58	0.39	0.39
Delay/Veh:	55.8	47.2	48.2	52.9	48.4	30.2	45.8	22.4	22.4	48.7	20.2	20.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	55.8	47.2	48.2	52.9	48.4	30.2	45.8	22.4	22.4	48.7	20.2	20.2
LOS by Move:		D	D	D-	D	С	D	C+	C+	D	C+	C+
HCM2k95thQ:	237	258	290	208	314	180	186	593	593	277	377	377
Note: Queue								et.				
	_				-							

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex PM

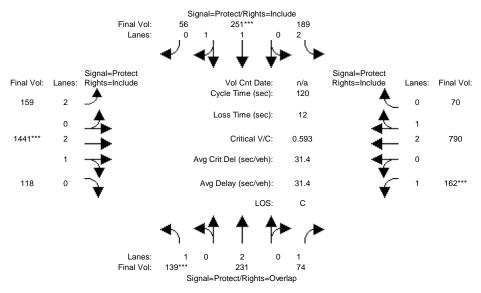
### Intersection #3: S. Mathilda Avenue / El Camino Real



Street Name: Approach:		S. I rth Bo	Mathil	da Ave	enue uth Bo	und	Ea	E ast Bo	l Cami		al est Bo	und
Movement:	L ·	- T ·	- R	L -	- T	- R	L -	- T	- R	L ·	- T	- R
		10			10		7				10	
Y+R:	4.0				4.0	4.0		4.0			4.0	4.0
Volume Module	'		I	I		ļ	I		ı	I		I
Base Vol:	234	378	31	486	1721	364	241	1389	206	96	847	198
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	234	378	31	486	1721	364	241	1389	206	96	847	198
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	234	378	31	486	1721	364	241	1389	206	96	847	198
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	234	378	31	486	1721	364	241	1389	206	96	847	198
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	234	378	31	486	1721	364	241	1389	206	96	847	198
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	234	378	31		1721	364		1389		96	847	198
Saturation F	low Mo	odule:										
Sat/Lane:		1900	1900	1900	1900	1900		1900	1900		1900	1900
Adjustment:	0.83	0.99	0.95	0.83	1.00	0.92		0.99	0.95	0.92	1.00	0.92
Lanes:	2.00	2.76	0.24	2.00	3.00	1.00	2.00	2.60	0.40	1.00	3.00	1.00
Final Sat.:			424		5700	1750		4876	723		5700	1750
	1											
Capacity Ana												
Vol/Sat:		0.07	0.07	0.15	0.30	0.21	0.08	0.28	0.28		0.15	0.11
CIIC MOVED	****				***			****		****		
Green Time:		25.0	25.0		62.4	86.3		58.9	58.9		46.4	99.1
Volume/Cap:	0.77	0.47	0.47		0.77	0.39		0.77	0.77		0.51	0.18
Delay/Veh:		61.8	61.8	42.8	44.4	21.7		46.6	46.6		47.7	13.1
User DelAdj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:		61.8	61.8		44.4	21.7		46.6	46.6		47.7	13.1
LOS by Move:		E	E	D	D	C+	E	D	D	F	D	В
HCM2k95thQ:	397		310		1041	496	304	966	966	260	508	213
Note: Queue	report	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex PM

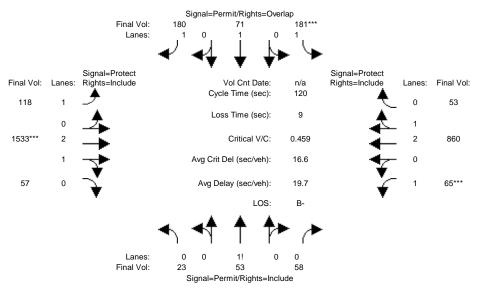
### Intersection #4: S. Sunnyvale Avenue / El Camino Real



	No	rth Bo	und	Sou	South Bound			ast Bo	und	ino Real West Bound			
Movement:	L.	- T	- R	L -	- T	- R	L ·	- T	- R		- T		
		10			10			10			10	10	
Y+R:	4.0				0	4.0		4.0	4.0	4.0		4.0	
Volume Module			ı	I		ı	I		ı	I		I	
Base Vol:	139	231	74	189	251	56	159	1441	118	162	790	70	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:		231	74	189	251	56	159	1441	118	162	790	70	
	0	0	0	0	0	0	0	0	0	0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	139	231	74	189	251	56		1441	118	162	790	70	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	139	231	74	189	251	56	159	1441	118	162	790	70	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	139	231	74	189	251	56	159	1441	118	162	790	70	
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
FinalVolume:	139	231	74	189	251	56	159	1441	118	162	790	70	
Saturation F				1000	1000	1000	1000	1000	1000	1000	1000	1000	
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900	
Adjustment:			0.92		0.98	0.95		0.99	0.95		0.99	0.95	
Lanes:		2.00	1.00		1.63	0.37		2.76	0.24		2.75	0.25	
Final Sat.:			1750		3025	675		5176	424		5144	456	
Capacity Anal													
	0.08		0.04	0.06	0.08	0.08	0.05	0.28	0.28	0.09	0.15	0.15	
Crit Moves:	***				***			****		****			
Green Time:	16.1	19.1	37.9	13.8	16.8	16.8	20.7	56.4	56.4	18.7	54.4	54.4	
Volume/Cap:	0.59	0.38	0.13	0.52	0.59	0.59	0.29	0.59	0.59	0.59	0.34	0.34	
Delay/Veh:		45.6	29.5		50.2	50.2		23.7	23.7		21.2	21.2	
User DelAdj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00	
AdjDel/Veh:		45.6	29.5		50.2	50.2		23.7	23.7		21.2	21.2	
LOS by Move:			C	D-	D	D	D	C	C	D	C+	C+	
HCM2k95thO:	292		105	226	301	301	145	604	604	289	318	318	
Note: Queue											3		
-	-				-								

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex PM

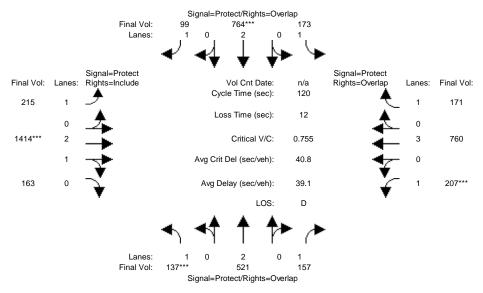
### Intersection #5: Cezanne Drive / El Camino Real



Street Name: Approach: Movement:	No	rth Bo	ezanne und - R	Sou	Orive South Bound L - T - R			ast Bo	und	ino Real West Bound L - T - R			
		10			10			10			10	10	
Y+R:	4.0		4.0	4.0		4.0	4.0		4.0	4.0		4.0	
Volume Module													
Base Vol:	23	53	58	181	71	180	118	1533	57	65	860	53	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	23	53	58	181	71	180	118	1533	57	65	860	53	
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	23	53	58	181	71	180	118	1533	57	65	860	53	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	23	53	58	181	71	180	118	1533	57	65	860	53	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	23	53	58	181	71	180	118	1533	57	65	860	53	
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
FinalVolume:	23	53	58	181	71	180	118	1533	57	65	860	53	
Saturation F													
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900	
Adjustment:			0.92		1.00	0.92		0.98	0.95		0.98	0.95	
	0.17		0.43		1.00	1.00		2.89	0.11		2.82	0.18	
Final Sat.:			757		1900	1750		5399	201		5274	325	
Capacity Anal													
Vol/Sat:	-	0.08	0.08	0 10	0.04	0.10	0 07	0.28	0.28	0 04	0.16	0.16	
Crit Moves:	0.00	0.00	0.00	****	0.01	0.10	0.07	****	0.20	****	0.10	0.10	
	27.0	27 0	27.0	27 0	27.0	51.6	24 6	74.2	74.2	9 7	59.4	59.4	
	0.34		0.34		0.17	0.24		0.46	0.46		0.33	0.33	
Delay/Veh:		39.5	39.5	41.0		21.9		12.3	12.3		18.4	18.4	
User DelAdj:			1.00	1.00		1.00		1.00	1.00	1.00		1.00	
AdjDel/Veh:		39.5	39.5	41.0		21.9		12.3	12.3		18.4	18.4	
LOS by Move:		D	D	D	D+	C+	D	В	В	D-	В-	В-	
HCM2k95thO:	225		225	311	107	219	190	468	468	152	321	321	
Note: Queue										<b>-</b>			
~	-				-								

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex PM

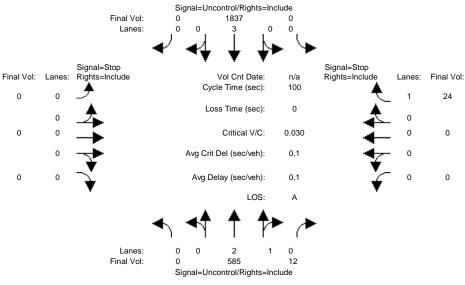
### Intersection #6: S. Fair Oaks Avenue / El Camino Real



Street Name: Approach:					South Bound					ino Real West Bound			
Movement:	L ·	- T	- R	L -	- T	- R	L -	- T	- R		- Т		
		10		7		10		10			10	10	
Y+R:	4.0					4.0		4.0	4.0	4.0		4.0	
Volume Module													
	137		157		764	99		1414	163	207		171	
Growth Adj:			1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Initial Bse:			157	173	764	99	215	1414	163	207	760	171	
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:			157	173	764	99		1414	163	207	760	171	
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
_	1.00		1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
PHF Volume:	137	521	157	173	764	99	215	1414	163	207	760	171	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	137	521	157	173	764	99	215	1414	163	207	760	171	
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
FinalVolume:	137	521	157	173	764	99	215	1414	163	207	760	171	
Saturation F													
		1900	1900	1000	1900	1900	1000	1900	1900	1000	1900	1900	
Sat/Lane: Adjustment:			0.92		1.00	0.92		0.99	0.95		1.00	0.92	
Lanes:		2.00	1.00		2.00			2.68	0.33		3.00	1.00	
Final Sat.:			1750		3800	1.00 1750		5020	0.32 579		5700	1750	
Final Sat.:													
Capacity Anal													
Vol/Sat:	0.08	0.14	0.09	0.10	0.20	0.06	0.12	0.28	0.28	0.12	0.13	0.10	
Crit Moves:	****				****			****		****			
Green Time:	12.4	25.8	44.6	18.6	32.0	62.5	30.5	44.8	44.8	18.8	33.1	51.7	
Volume/Cap:	0.75	0.64	0.24	0.64	0.75	0.11	0.48	0.75	0.75	0.75	0.48	0.23	
Delay/Veh:	68.7	44.5	26.2	52.5	43.7	14.7	38.9	34.4	34.4	59.7	36.5	21.7	
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:		44.5	26.2		43.7	14.7		34.4	34.4		36.5	21.7	
LOS by Move:	E	D	С	D-	D	В	D+	C-	C-	E+	D+	C+	
HCM2k95thO:	337		209	353	634	99	336	746	746	444	376	207	
Note: Queue													

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex PM

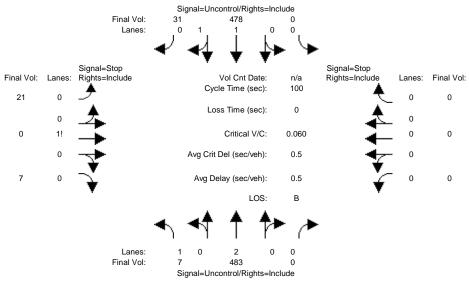
### Intersection #7: S Mathilda Ave / Southwest Project Driveway



Signal=Uncontrol/Rights=Include												
Street Name:		SI	Mathilo	da Aver	nue		S	outhwe	estPro	ject Di	rivewa	ay
Approach:	No	rth Bo	ound	Soı	ath Bo	ound	Εä	ast Bo	ound	We	est Bo	ound
Movement:	L ·	- T	- R	L -	- T	- R	L ·	- T	- R	L -	- T	- R
Volume Module	∋ :											
Base Vol:	0	585	12	0	1837	0	0	0	0	0	0	24
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	585	12	0	1837	0	0	0	0	0	0	24
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	585	12	0	1837	0	0	0	0	0	0	24
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	585	12	0	1837	0	0	0	0	0	0	24
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	585	12	0	1837	0	0	0	0	0	0	24
Critical Gap	Modu:	le:										
Critical Gp:x	xxxx	xxxx	XXXXX	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9
FollowUpTim:												3.3
Capacity Modu	ıle:											
Cnflict Vol:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	201
Potent Cap.:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	813
Move Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	813
Volume/Cap:	xxxx	xxxx	XXXX	XXXX	xxxx	XXXX	XXXX	xxxx	XXXX	XXXX	xxxx	0.03
Level Of Serv	vice D	Modul	e:									
2Way95thQ:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	2.3
Control Del:3	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	9.6
LOS by Move:	*	*	*	*	*	*	*	*	*	*	*	A
Movement:	LT ·	- LTR	- RT	LT -	- LTR	- RT	LT ·	- LTR	- RT	LT -	- LTR	- RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	XXXXX
SharedQueue:2	xxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	XXXXX
Shrd ConDel:												
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	X	xxxxx		XX	xxxxx		X	xxxxx			9.6	
ApproachLOS:		*			*			*			А	
Note: Queue 1	report	ted is	s the o	distand	ce per	r lane	in fee	et.				
	_		eak Hou						rt			
******	****	****	*****	****	****	*****	****	****	*****	*****	****	*****
Intersection	#7 S	Math	ilda Av	re / So	outhwe	est Pro	oject 1	Orive	way			

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex PM

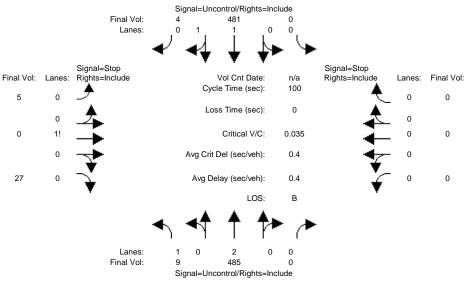
### Intersection #8: Sunnyvale-Saratoga Road / East Project Driveway



Approach: Movement:	No:	rth Bo - T	ound – R	Sou L	ratoga Road South Bound L - T - R 			ast Bo - T	ound – R	ct Driveway West Bound L - T - R		
Volume Module												
Base Vol:	-· 7	483	0	0	478	31	21	0	7	0	0	0
Growth Adj:		1.00	1.00	-	1.00	1.00		1.00	1.00	-	1.00	1.00
Initial Bse:	7	483	0	0	478	31	21	0	7	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	7	483	0	0	478	31	21	0	7	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	7	483	0	0	478	31	21	0	7	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	7	483	0	0	478	31	21	0	7	0	0	0
Critical Gap	Modu:	le:										
Critical Gp:									6.9	xxxxx	xxxx	XXXXX
FollowUpTim:			xxxxx					4.0	3.3	xxxxx	xxxx	XXXXX
	l											
Capacity Modu												
Cnflict Vol:			xxxxx					991	255			XXXXX
Potent Cap.:								248	751			XXXXX
Move Cap.:			xxxxx					247	751			XXXXX
Volume/Cap:			xxxx			XXXX		0.00	0.01		xxxx	
	l											
Level Of Serv												
2Way95thQ:			xxxxx			XXXXX			XXXXX			XXXXX
Control Del:	8.4 A		xxxxx *	*	XXXX	*	xxxxx *	XXXX		*	XXXX	xxxxx
LOS by Move: Movement:			- RT			- RT			- RT		- LTR	DШ.
Shared Cap.:									XXXXX			XXXXX
Shared Cap.: SharedOueue:									XXXXX			
Shrd ConDel:												
Shared LOS:	*	*	*	*	*	*	*	14.0	*	*	*	*
ApproachDel:		xxxx			xxxxx			14.6			xxxx	
ApproachLOS:	Λ.	*		Λ.	*			14.0		A2	*	
Note: Queue 1	repor	ted i	s the d	distan	re ne	r lane	in fe	_				
noce gacac i	CPOL		eak Hou		_				rt.			
*****	****									*****	****	*****
Intersection	#8 S1	unnyva	ale-Sai	ratoga	Road	/ East	. Proi	ect D	riveway	7		
*****											****	*****

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex PM

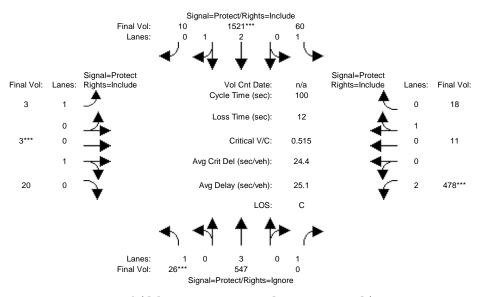
### Intersection #9: Sunnyvale-Saratoga Road / Southeast Project Driveway



Street Name:	:	Sunny	vale-Sa	aratoga	a Road	i									
Approach:			ound	Sot	ath Bo	ound	Εa	ast Bo	ound	We	est Bo	ound			
Movement:			- R			- R			- R		- T				
Volume Module	<b>:</b>														
Base Vol:	9	485	0	0	481	4	5	0	27	0	0	0			
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Initial Bse:	9	485	0	0	481	4	5	0	27	0	0	0			
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0			
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0			
Initial Fut:	9	485	0	0	481	4	5	0	27	0	0	0			
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Volume:	9	485	0	0	481	4	5	0	27	0	0	0			
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0			
FinalVolume:	9	485	0	0	481	4	5	0	27	0	0	0			
Critical Gap							1					ı			
Critical Gp:															
FollowUpTim:								4.0		xxxxx					
Capacity Modu	ıle:														
Cnflict Vol:	485	xxxx	XXXXX	XXXX	xxxx	xxxxx	744	986	243	XXXX	xxxx	XXXXX			
Potent Cap.:	1088	xxxx	XXXXX	XXXX	xxxx	xxxxx	355	250	764	XXXX	xxxx	XXXXX			
Move Cap.:	1088	xxxx	XXXXX	XXXX	xxxx	xxxxx	352	248	764	XXXX	xxxx	XXXXX			
Volume/Cap:	0.01	xxxx	XXXX	XXXX	xxxx	XXXX	0.01	0.00	0.04	XXXX	xxxx	XXXX			
Level Of Serv	ice I	Modul	∋:												
2Way95thQ:	0.6	xxxx	xxxxx	XXXX	XXXX	xxxxx	XXXX	xxxx	XXXXX	XXXX	xxxx	XXXXX			
Control Del:	8.3	xxxx	xxxxx	xxxxx	XXXX	xxxxx	xxxxx	xxxx	XXXXX	xxxxx	xxxx	XXXXX			
LOS by Move:	A	*	*	*	*	*	*	*	*	*	*	*			
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT -	- LTR	- RT			
Shared Cap.:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	646	xxxxx	XXXX	xxxx	XXXXX			
SharedQueue:2	xxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	0.2	xxxxx	xxxxx	xxxx	XXXXX			
Shrd ConDel:	xxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	10.9	xxxxx	xxxxx	xxxx	xxxxx			
Shared LOS:	*	*	*	*	*	*	*	В	*	*	*	*			
ApproachDel:	X	xxxxx		X	xxxxx			10.9		X	XXXX				
ApproachLOS:		*			*			В			*				
Note: Queue 1	repor	ted i	s the o	distan	ce per	r lane	in fee	et.							
~	_					gnal Wa			rt						
*******	****									*****	****	*****			
Intersection		-		_						_					
*********	****	****	*****	****	****	*****	*****	****	*****	*****	****	*****			

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex PM

### Intersection #10: S Mathilda Ave - Sunnyvale-Saratoga Rd / Talisman Dr - Sunnvyale-Saratoga Rd



		-			Talisman Dr - Sunnyvale-Saratoga							
Approach:				Sot							est Bo	
Movement:		- T			- T			- T		L -		- R
Min. Green:		10			10			10	10		10	10
Y+R:	4.0	4.0	4.0		4.0	4.0	4.0		4.0	4.0		4.0
Volume Module												
Base Vol:	26	547	553	60	1521	10	3	3	20	478	11	18
Growth Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:		547	553		1521	100	3	3	20	478	11	18
Added Vol:	0	0	0	0	0	0	0	0	0	1/0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:			553	-	1521	10	3	3	20	478	11	18
User Adj:		1.00	0.00		1.00	1.00		1.00	1.00		1.00	1.00
		1.00						1.00				
PHF Adj:	26		0.00		1.00	1.00	3	3	1.00		1.00	1.00
PHF Volume:		547	0		1521	10	0			478	11	18
Reduct Vol:	0		0	0	0	0		0	0	0	0	0
Reduced Vol:	26	547	0		1521	10	3	3	20	478	11	18
PCE Adj:		1.00	0.00		1.00	1.00		1.00	1.00		1.00	1.00
MLF Adj:			0.00		1.00	1.00		1.00	1.00	1.00		1.00
FinalVolume:			0		1521	10	3	3	20	478	11	18
Saturation F												
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		1.00	0.92		0.98	0.95		0.95	0.95		0.95	0.95
Lanes:		3.00	1.00		2.98	0.02		0.13	0.87		0.38	0.62
Final Sat.:			1750		5563	37	1750	235	1565	3150	683	1117
Capacity Anal	lysis	Modul	e:									
Vol/Sat:	0.01	0.10	0.00	0.03	0.27	0.27	0.00	0.01	0.01	0.15	0.02	0.02
Crit Moves:	* * * *				***			****		****		
Green Time:	7.0	31.0	0.0	21.7	45.7	45.7	14.6	10.0	10.0	25.3	20.8	20.8
Volume/Cap:	0.21	0.31	0.00	0.16	0.60	0.60	0.01	0.13	0.13	0.60	0.08	0.08
Delay/Veh:	44.8	26.5	0.0	32.0	20.7	20.7	36.6	41.3	41.3	34.1	32.0	32.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	44.8	26.5	0.0	32.0	20.7	20.7		41.3	41.3	34.1	32.0	32.0
LOS by Move:			A	С	C+	C+	D+	D	D	C-	С	С
HCM2k95thQ:	41	203	0	85	552	552	5	39	39	397	40	40
Note: Queue							in fee	et.				
<del></del>	-				-							

# **Trip Generation**

# Trip Generation Planner (ITE 9th Edition)



Weekday Trip Generation Trips Based on Average Rates/Equations Project Name Project Number 777 Sunnyvale Saratoga Rd Existing

					Trip Rates Total Trips									
ITE Code	Land Has Description	Independent Variable	No. of Units	Avg Rate or Eq	Daily Rate	AM Rate	PM Rate	Daily Trips	AM Trips	PM Trips	AM Trips In	AM Trips Out	PM Trips In	PM Trips Out
850	Land Use Description Supermarket	1.000 Sq Ft	Units	Avg	102.24	3.40	9.48	Trips	Trips	Trips	1111	Out	111	Out
862	Home Improvement Superstore	1,000 Sq Ft	55.104	Avg	30.74	1.49	2.33	1694	82	128	47	35	63	65
							Totals	1694	82	128	47	35	63	65

### Notes:

- (1) AM and/or PM rates correspond to peak hour of generator
- A Trip generation data from ITE *Trip Generation, 8th Edition*
- B AM/PM rates correspond to peak of adjacent street traffic (if data available)
- C Includes weekday rates only
- D Total trips include pass-by trips w/ no internal capture
- E Pass-by rates from ITE Trip Generation Handbook, 2nd Edition
- F Internal capture rates from ITE Trip Generation Handbook, 2nd Edition
- G Worksheet is intended as a planning tool. Verify results w/ ITE Trip Generation, 9th Edition
- H Enter data only in green shaded cells
- I Comments on typical building sizes based on internet search results.

## Trip Generation Planner (ITE 9th Edition)



Weekday Trip Generation Trips Based on Average Rates/Equations Project Name Project Number 777 Sunnyvale Saratoga Rd Project

					Tı	ip Rates	5			T	otal Trip	s		
				Avg							AM	AM	PM	РМ
ITE			No. of	Rate	Daily	ΑM	PM	Daily	ΑM	PM	Trips	Trips	Trips	Trips
Code	Land Use Description	Independent Variable	Units	or Eq	Rate	Rate	Rate	Trips	Trips	Trips	In	Out	ln	Out
850	Supermarket	1,000 Sq Ft	11.6	Avg	102.24	3.40	9.48	1186	39	110	24	15	56	54
862	Home Improvement Superstore	1,000 Sq Ft	48.324	Avg	30.74	1.49	2.33	1486	72	113	41	31	55	58
							Totals	2672	111	223	65	46	111	112

#### Notes:

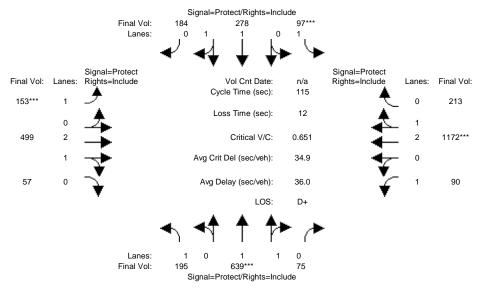
(1) AM and/or PM rates correspond to peak hour of generator

- A Trip generation data from ITE *Trip Generation, 8th Edition*
- B AM/PM rates correspond to peak of adjacent street traffic (if data available)
- C Includes weekday rates only
- D Total trips include pass-by trips w/ no internal capture
- E Pass-by rates from ITE Trip Generation Handbook, 2nd Edition
- F Internal capture rates from ITE Trip Generation Handbook, 2nd Edition
- G Worksheet is intended as a planning tool. Verify results w/ ITE Trip Generation, 9th Edition
- H Enter data only in green shaded cells
- I Comments on typical building sizes based on internet search results.



Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PAM

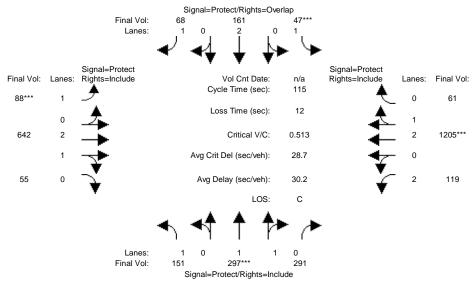
## Intersection #1: S Mary Ave / El Camino Real



Street Name:			S Mar	y Ave				Ι	El Cami	no Rea	al	
Approach:	No	rth Bo	und	Soi	ıth Bo	und	Εá	ast Bo	ound	We	est Bo	und
Movement:	L ·	- T	- R	L -	- T	- R	L -	- T	- R	L -	- T	- R
		10		7						7		10
Y+R:		4.0			4.0			4.0				
Volume Modul												
Base Vol:	195	639	73	96	278	184	153	494	57	89	1169	212
Growth Adj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	195	639	73	96	278	184	153	494	57	89	1169	212
Added Vol:	0	0	2	1	0	0	0	5	0	1	3	1
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:			75	97	278	184	153	499	57	90	1172	213
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:		639	75	97	278	184	153	499	57	90	1172	213
Reduct Vol:		0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:			75	97	278	184	153	499		90	1172	213
PCE Adj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
FinalVolume:			75	97		184	153		57		1172	213
Saturation F				1		ı	1		ı	1		1
Sat/Lane:				1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:				0.92		0.95		0.99			0.99	0.95
Lanes:			0.22			0.82		2.68			2.52	0.48
Final Sat.:					2225				574		4738	
Capacity Ana	1			ı		1	1		ı	1		1
Vol/Sat:		0.19		0.06	0 12	0.12	0 09	0.10	0.10	0 05	0.25	0.25
Crit Moves:		****	0.10	****	0.12	0.12	****	0.10	0.10	0.03	****	0.23
Green Time:		34 1	34.1	9.8	23 2	23.2	15 4	36.7	36.7	22 5	43.7	43.7
Volume/Cap:			0.65		0.62	0.62		0.31	0.31		0.65	0.65
Delay/Veh:		36.7	36.7		43.5	43.5		29.7	29.7		30.1	30.1
User DelAdj:			1.00	1.00		1.00	1.00		1.00		1.00	1.00
AdjDel/Veh:				60.8		43.5		29.7	29.7		30.1	30.1
LOS by Move:			D+	00.8 E	T3.3	<b>43.3</b>	D-	29.7 C	29.7 C	39.7 D		30.1 C
HCM2k95thO:			541	235	395	ط 395	319		245	140	-	597
Note: Queue									413	140	391	391
Note: Queue	rebor	ceu IS	crie a	scall(	re her	Tane	TII T. E.	= .				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + P AM

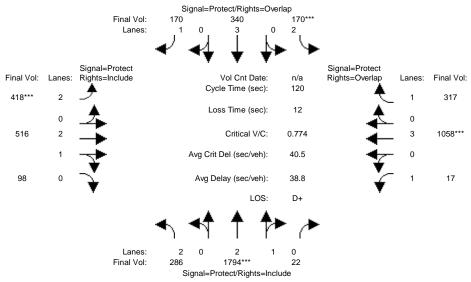
## Intersection #2: S Pastoria Avenue / El Camino Real



Street Name: Approach:	No	S Pa	astori	a Aver	nue ith Bo	und	E	E ast Bo	l Cami	no Rea	al est Bo	und
Movement:	L ·	- T ·	– R	L -	- T	– R	L -	- T	– R	ь.	- T	- R
	7	10	10	7	10	10	7	10	10	7	10	
Y+R:		4.0			4.0			4.0			4.0	4.0
Volume Module			'	'		'	1		'	1		ı
Base Vol:	151	297	291	47	161	68	88	634	55	119	1200	61
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	151	297	291	47	161	68	88	634	55	119	1200	61
Added Vol:		0	0	0	0	0	0	8	0	0	5	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	151	297	291	47	161	68	88	642	55	119	1205	61
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	151	297	291	47	161	68	88	642	55	119	1205	61
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	151	297	291	47	161	68	88	642	55	119	1205	61
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			291	47			88		55		1205	61
Saturation F	1											
Saturation F.		1900	1900	1900	1900	1900	1000	1900	1900	1900	1900	1900
Adjustment:			0.95			0.92		0.99	0.95		0.98	0.95
Lanes:			1.00	1.00		1.00		2.75	0.25		2.85	0.15
Final Sat.:			1800		3800	1750		5158	442		5330	270
Capacity Ana				·		'	i			ı		į.
Vol/Sat:	0.09	0.16	0.16	0.03	0.04	0.04	0.05	0.12	0.12	0.04	0.23	0.23
Crit Moves:		****		****			****				***	
Green Time:			34.7	7.0	20.9	32.1	11.2	41.2	41.2	20.1	50.2	50.2
Volume/Cap:	0.48	0.52	0.54	0.44	0.23	0.14	0.52	0.35	0.35	0.22	0.52	0.52
Delay/Veh:	43.4	33.7	34.0	55.0	40.4	31.2	52.2	27.2	27.2	40.9	23.8	23.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	43.4	33.7	34.0	55.0	40.4	31.2	52.2	27.2	27.2	40.9	23.8	23.8
LOS by Move:			C-	E+		С	D-	C	C	D	С	С
HCM2k95thQ:		415	432	117		98	160		283	103	478	478
Note: Queue		ted is	the d	istand	ce per	lane	in fee	et.				
~	-				-							

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + P AM

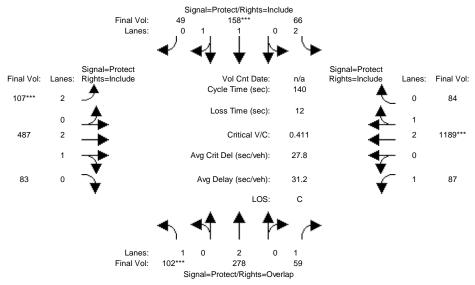
## Intersection #3: S. Mathilda Avenue / El Camino Real



Street Name:		Q.	Mathil	da A	nue			T.	1 Cami	no Per	a 1	
Street Name: Approach:	No	rth Bo	maciiii iind	ua Ave	ıth Bo	und	Εá	act Ro	ınd		ar est Bo	und
Movement:		- T		T	лсн во - Т	- R	T	льс DO - Т	- R		- T	
Min. Green:		10			10			10			10	10
Y+R:		4.0			4.0			4.0			4.0	
Volume Modul			ı	1		'	I		I	1		I
Base Vol:		1794	22	170	340	170	418	510	96	17	1054	317
Growth Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:		1794	22	170	340	170	418	510	96	17	1054	317
Added Vol:	1	0	0	0	0	0	0	6	2	0	4	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	286	1794	22	170	340	170	418	516	98	17	1058	317
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:		1794	22	170	340	170	418	516	98	17	1058	317
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:			22	170	340	170	418	516	98	17	1058	317
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	286	1794	22	170	340	170	418	516	98	17	1058	317
Saturation F	low M	odule:					•		'	•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	0.98	0.95	0.83	1.00	0.92	0.83	0.99	0.95	0.92	1.00	0.92
Lanes:	2.00	2.96	0.04	2.00	3.00	1.00	2.00	2.50	0.50	1.00	3.00	1.00
Final Sat.:	3150	5532	68	3150	5700	1750	3150	4705	894	1750	5700	1750
Capacity Ana	İysis	Modul	e:				•					·
Vol/Sat:	0.09	0.32	0.32	0.05	0.06	0.10	0.13	0.11	0.11	0.01	0.19	0.18
Crit Moves:		****		***			****				****	
Green Time:	30.6	50.3	50.3	8.4	28.1	48.6	20.6	32.2	32.2	17.1	28.8	37.1
Volume/Cap:	0.36	0.77	0.77	0.77	0.26	0.24	0.77	0.41	0.41	0.07	0.77	0.59
Delay/Veh:	36.9	31.6	31.6	70.5	37.6	23.7	54.4	36.2	36.2	44.6	45.4	36.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	36.9	31.6	31.6	70.5	37.6	23.7	54.4	36.2	36.2	44.6	45.4	36.6
LOS by Move:	D+	C	С	E	D+	С	D-	D+	D+	D		D+
HCM2k95thQ:	256	874	874	268	171	215	429	292	292	29	559	479
Note: Queue	repor	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PAM

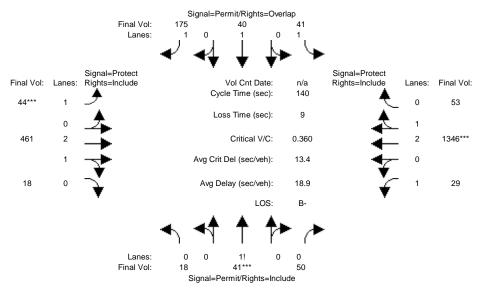
## Intersection #4: S. Sunnyvale Avenue / El Camino Real



Street Name: Approach:	No	S. Si	unnyva	le Ave	enue	und	σ.	E	l Cami:	no Rea	al est Bo	und
Movement:	L ·	- T	- R	L -	- T	- R	L ·	- T	- R	L -	- T	- R
Min. Green:		10			10		7	10	10	7	10	
Y+R:		4.0			4.0			4.0			4.0	4.0
Volume Module			ı	1		I	ı		ı	ı		Į
Base Vol:	98	276	57	66	155	49	107	487	77	84	1189	84
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	98	276	57	66	155	49	107	487	77	84	1189	84
Added Vol:	4	_	2	0	3	0	0	0	6	3	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	102	278	59	66	158	49	107	487	83	87	1189	84
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	102	278	59	66	158	49	107	487	83	87	1189	84
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	102	278	59	66	158	49	107	487	83	87	1189	84
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:				66		49		487		87		84
	1											
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:			0.92			0.95		0.99	0.95		0.98	0.95
Lanes:			1.00		1.51	0.49		2.55	0.45		2.79	0.21
Final Sat.:			1750			876		4783	815		5230	369
Capacity Anal	I											
Vol/Sat:	-		0.03	0 02	0.06	0.06	0 03	0.10	0.10	0 05	0.23	0.23
	****		0.05	0.02	****	0.00	****	0.10	0.10	0.05	****	0.25
	19.9	23 1	52.5	15 8	19.1	19.1	11 6	59.7	59.7	29 3	77.5	77.5
Volume/Cap:		0.44	0.09		0.41	0.41		0.24	0.24		0.41	0.41
	55.8		28.4		55.9	55.9		25.7	25.7		18.2	18.2
User DelAdi:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
AdiDel/Veh:			28.4	56.5		55.9		25.7	25.7		18.2	18.2
LOS by Move:			20.4 C	E+	E+	E+	02.0 E	23.7 C	23.7 C	10.1 D		B-
HCM2k95thO:	226		87	83		219	130	246	246	160		474
Note: Queue									210	100	1/1	1/1
1.000. Queue	CPOL	CCG 15	ciic d	-D Call	oc per	Tanc	-11 I C					

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PAM

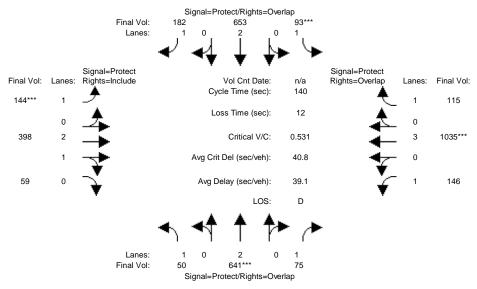
## Intersection #5: Cezanne Drive / El Camino Real



	No	rth Bo		Sou	uth Bo			ast Bo		We	est Bo	
Movement:			- R	ь -	- T	– R	Г .	- T.	- R		- T	
		10	10		10			10			10	10
Y+R:	4.0		4.0	4.0		4.0	4.0	4.0	4.0	4.0		4.0
Volume Module						I	1					
Base Vol:	18	41	50	41	40	175	44	459	18	29	1343	53
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	18	41	50	41	40	175	44	459	18	29	1343	53
Added Vol:	0	0	0	0	0	0	0	2	0	0	3	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	18	41	50	41	40	175	44	461	18	29	1346	53
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	18	41	50	41	40	175	44	461	18	29	1346	53
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	18	41	50	41	40	175	44	461	18	29	1346	53
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	18	41	50	41	40	175	44	461	18	29	1346	53
	1											
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:			0.92		1.00	0.92		0.98	0.95		0.98	0.95
Lanes:	0.16		0.46		1.00	1.00		2.88	0.12		2.88	0.12
Final Sat.:			803		1900	1750		5389	210		5388	212
Capacity Anal												
Vol/Sat:	-	0.06	0.06	0 02	0.02	0.10	0 03	0.09	0.09	0 02	0.25	0.25
	0.00		0.00	0.02	0.02	0.10	****		0.05	0.02	****	0.25
		24.2	24.2	24.2	24.2	34.0	9.8	67.4	67.4	39.4	97.0	97.0
Volume/Cap:			0.36		0.12	0.41		0.18	0.18		0.36	0.36
Delay/Veh:		51.8	51.8		49.1	45.3		20.6	20.6	36.8		8.8
User DelAdj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
AdiDel/Veh:		51.8	51.8		49.1	45.3		20.6	20.6	36.8	8.8	8.8
LOS by Move:			D-	D.S	D	D	E	C+	C+	D+	Α	A
HCM2k95thO:	226		226	83	75	330	98	187	187	50	382	382
Note: Queue									_0,	33	202	202
	- SP OF		J U	5 0 0.110	- S FOL			•				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + P AM

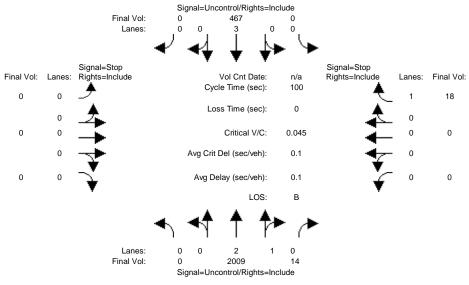
## Intersection #6: S. Fair Oaks Avenue / El Camino Real



Street Name: Approach:		S. Farth Bo	air Oa	ks Ave	enue 1th Bo	und	Ea	E ast Bo	l Camin		al est Bo	und
Movement:	L -	- T	- R	L -	- T	- R	L -	- T	- R	L -	- Т	- R
Min. Green:	7	10	10	7	10	10	7	10	10	7	10	10
Y+R:		4.0	4.0		4.0	4.0		4.0	4.0	4.0		4.0
Volume Module			1	I		I	I		ı	I		1
Base Vol:	50	641	75	93	653	181	144	396	59	146	1032	115
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:		641	75	93	653	181	144	396	59	146	1032	115
Added Vol:	0	0	0	0	0	1	0	2	0	0	3	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	50	641	75	93	653	182	144	398	59	146	1035	115
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	50	641	75	93	653	182	144	398	59	146	1035	115
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	50	641	75	93	653	182	144	398	59	146	1035	115
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	50	641	75	93	653	182	144	398	59		1035	115
Saturation F	low Mo	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	0.99	0.95	0.92	1.00	0.92
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.60	0.40	1.00	3.00	1.00
Final Sat.:	1750	3800	1750	1750	3800	1750	1750	4876	723	1750	5700	1750
Capacity Anal	lysis	Modul	e:									
Vol/Sat:	0.03	0.17	0.04	0.05	0.17	0.10	0.08	0.08	0.08	0.08	0.18	0.07
Crit Moves:		****		****			****				****	
Green Time:	13.2	44.5	79.6	14.0	45.3	67.0	21.7	34.4	34.4	35.2	47.9	61.9
Volume/Cap:	0.30	0.53	0.08	0.53	0.53	0.22	0.53	0.33	0.33	0.33	0.53	0.15
Delay/Veh:	60.2	39.7	13.6	63.0	39.1	21.4	56.5	43.5	43.5	43.3	37.3	23.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	60.2	39.7	13.6	63.0	39.1	21.4	56.5	43.5	43.5	43.3	37.3	23.4
LOS by Move:	E	D	В	E	D	C+	E+	D	D	D	D+	С
HCM2k95thQ:	121	515	77	234	521	233	293	255	255	268	538	154
Note: Queue 1	report	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + P AM

## Intersection #7: S Mathilda Ave / Southwest Project Driveway

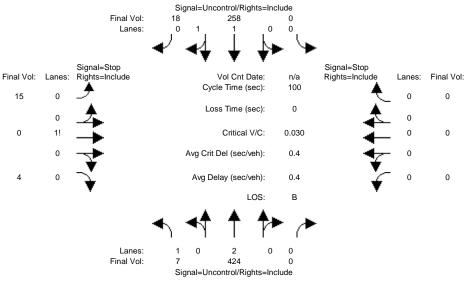


G1 1 37				1 7			9	. 1.	. 5			
Street Name:	37		Mathilo			3			estPro:			-
Approach: Movement:		rth Bo	ouna - R			ound – R		ast Bo	ouna - R		est Bo - T	
movement:									- R			
Volume Module												
Base Vol:		2009	13	0	464	0	0	0	0	0	0	17
Growth Adj:		1.00	1.00		1.00	1.00		1.00	1.00	-	1.00	1.00
Initial Bse:		2009	13	0	464	0	0	0	0	0	0	17
Added Vol:	0		0	0	3	0	0	0	0	0	0	1
PasserByVol:	0	-	1	0	0	0	0	0	0	0	0	0
Initial Fut:	-	2009	14	0	467	0	0	0	0	0	0	18
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:		2009	14	0	467	0	0	0	0	0	0	18
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	2009	14	0	467	0	0	0	0	0	0	18
Critical Gap	  Modu	le:										
Critical Gp:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9
FollowUpTim:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	3.3
Capacity Mod	ule:											•
Cnflict Vol:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	677
Potent Cap.:	xxxx	xxxx	xxxxx	XXXX	XXXX	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	400
Move Cap.:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	400
Volume/Cap:						xxxx			XXXX		xxxx	0.04
Level Of Ser	vice 1	Module	<b>≘</b> :									
2Way95thQ:			xxxxx									3.5
Control Del:												14.4
LOS by Move:		*	*	*		*	*		*	*	*	В
Movement:			- RT								- LTR	
Shared Cap.:												XXXXX
SharedQueue:												
Shrd ConDel:												
Shared LOS:	*	*	*	*		*	*	*	*	*	*	*
ApproachDel:	X	xxxxx		XX	XXXXX		X	XXXXX			14.4	
ApproachLOS:			. 1		*	-		*			В	
Note: Queue	repor				_							
*****			eak Hou									
Intersection	#/ S	Math.	LIUA A	/e / S0	JULIIW	SL Pro	Ject I	ντινeι	-		to also de also de a	to do alo alo alo alo alo

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Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex+PAM

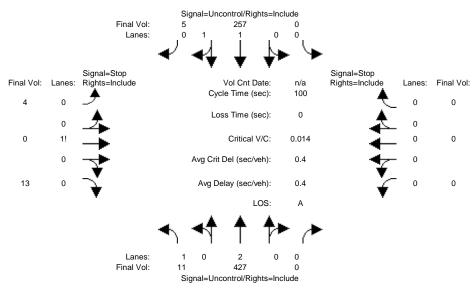
## Intersection #8: Sunnyvale-Saratoga Road / East Project Driveway



			Signal=U	ncontrol/Rigi	nts=Includ	е						
Street Name:	5	Sunny	vale-Sa	aratoga	a Road	f		East	Projec	ct Driv	veway	
Approach:	Noi	rth Bo	ound	Soi	ath Bo	ound	Εá	ast Bo	ound	We	est Bo	ound
Movement:	L -	- T	- R	L -	- T	- R	ь.	- T	- R	L -	- T	- R
Volume Module	:		'									
Base Vol:	5	422	0	0	255	9	9	0	3	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	5	422	0	0	255	9	9	0	3	0	0	0
Added Vol:	2	2	0	0	3	9	6	0	1	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	7	424	0	0	258	18	15	0	4	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	7	424	0	0	258	18	15	0	4	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	7	424	0	0	258	18	15	0	4	0	0	0
Critical Gap I	Modu]	le:										·
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.8	6.5	6.9	xxxxx	xxxx	xxxxx
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0		xxxxx		
Capacity Modu			,									
Cnflict Vol:	276	xxxx	xxxxx	xxxx	xxxx	xxxxx	493	705	138	xxxx	xxxx	xxxxx
Potent Cap.:	1299	xxxx	xxxxx	xxxx	xxxx	xxxxx	510	363	891	xxxx	xxxx	xxxxx
Move Cap.:	1299	xxxx	xxxxx	xxxx	xxxx	xxxxx	508	362	891	xxxx	xxxx	xxxxx
Volume/Cap:	0.01	xxxx	XXXX	xxxx	xxxx	xxxx	0.03	0.00	0.00	xxxx	xxxx	XXXX
Level Of Serv	ice N	Module	e:	' '						' '		
2Way95thQ:	0.4	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	7.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	А	*	*	*	*	*	*	*	*	*	*	*
Movement:	LT -	- LTR	- RT	LT -	- LTR	- RT	LT -	- LTR	- RT	LT -	- LTR	- RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	559	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:x	xxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	0.1	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:x	xxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	11.7	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	В	*	*	*	*
ApproachDel:	xx	xxxxx		X	xxxxx			11.7		x	xxxxx	
ApproachLOS:		*			*			В			*	
Note: Queue re	eport	ted is	s the c	distand	ce pei	r lane	in fee	et.				
~	-		eak Hou						rt			
*****	****				-	_		_		*****	****	*****
Intersection :	#8 Sı	ınnyva	ale-Sar	ratoga	Road	/ East	Proje	ect Di	riveway	7		
*****	****	****	*****	****	****	*****	****	****	*****	*****	****	*****

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex+PAM

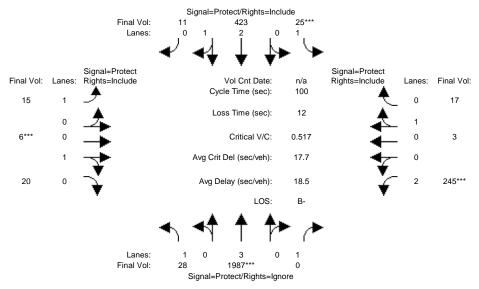
## Intersection #9: Sunnyvale-Saratoga Road / Southeast Project Driveway



Street Name: Approach:		Sunny rth Bo	vale-Sa	_		d ound				oject D	rivev st Bo	-
Movement:	L		- R			- R	L ·		- R	L -		- R
Volume Module	e:											
Base Vol:	8	425	0	0	256	2	2	0	12	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	8	425	0	0	256	2	2	0	12	0	0	0
Added Vol:	3	2	0	0	1	3	2	0	1	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	11	427	0	0	257	5	4	0	13	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	11	427	0	0	257	5	4	0	13	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	11	427	0	0	257	5	4	0	13	0	0	0
Critical Gap	Modu.	le:										
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.8	6.5	6.9	xxxxx	xxxx	XXXXX
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	xxxxx	xxxx	xxxxx
Capacity Mod	ule:											•
Cnflict Vol:	262	xxxx	xxxxx	xxxx	xxxx	xxxxx	495	709	131	xxxx	xxxx	xxxxx
Potent Cap.:	1314	xxxx	xxxxx	xxxx	xxxx	xxxxx	509	362	901	xxxx	xxxx	xxxxx
Move Cap.:	1314	xxxx	xxxxx	xxxx	xxxx	xxxxx	505	359	901	xxxx	xxxx	xxxxx
Volume/Cap:			xxxx			xxxx	0.01	0.00	0.01	xxxx	xxxx	XXXX
Level Of Serv	vice 1	Module	e:									
2Way95thQ:	0.6	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	7.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	А	*	*	*	*	*	*	*	*	*	*	*
Movement:	LT ·	- LTR	- RT	LT -	- LTR	- RT	LT ·	- LTR	- RT	LT -	LTR	- RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	761	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	0.1	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	9.8	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	А	*	*	*	*
ApproachDel:	x	xxxxx		X	xxxxx			9.8		xx	xxxx	
ApproachLOS:		*			*			А			*	
Note: Queue	repor	ted is	s the o	distand	ce per	r lane	in fe	et.				
		P	eak Hou	ır Dela	ay Sig	gnal Wa	arrant	Repor	rt			
*****	****	****	*****	*****	****	*****	****	****	*****	*****	****	*****
Intersection *******		_		_				_		_	****	*****

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PAM

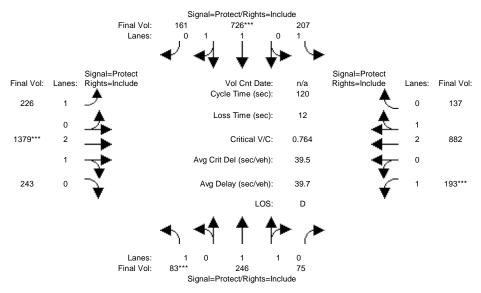
## Intersection #10: S Mathilda Ave - Sunnyvale-Saratoga Rd / Talisman Dr - Sunnvyale-Saratoga Rd



Street Name: S Approach:			Ave -							-	e-Sara est Bo	_
Movement:	L -	- T	- R	L -	- T	- R	L -	- T	- R		- T	
Min. Green:			10		10		7				10	10
Y+R:		4.0	4.0		4.0	4.0		4.0	4.0	4.0		4.0
Volume Module												
Base Vol:	28	1987	467	22	423	11	15	6	20	243	3	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	28	1987	467	22	423	11	15	6	20	243	3	17
Added Vol:	0	0	3	3	0	0	0	0	0	2	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	28	1987	470	25	423	11	15	6	20	245	3	17
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	28	1987	0	25	423	11	15	6	20	245	3	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	28	1987	0	25	423	11	15	6	20	245	3	17
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	28	1987	0	25	423	11	15	6	20	245	3	17
Saturation Fl	Low Mo	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	0.98	0.95	0.92	0.95	0.95	0.83	0.95	0.95
Lanes:	1.00	3.00	1.00	1.00	2.92	0.08	1.00	0.23	0.77	2.00	0.15	0.85
	1750		1750		5458	142	1750		1385	3150	270	1530
	l											
Capacity Anal	lysis	Modul	.e:									
Vol/Sat:		0.35	0.00		0.08	0.08	0.01	0.01	0.01		0.01	0.01
Crit Moves:		****		****				****		****		
Green Time:	26.8	58.0	0.0		38.3	38.3		10.0	10.0		13.5	13.5
Volume/Cap:	0.06	0.60	0.00	0.20	0.20	0.20	0.09	0.14	0.14	0.60	0.08	0.08
Delay/Veh:		13.8	0.0		20.7	20.7		41.5	41.5		38.0	38.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	27.3	13.8	0.0	44.7	20.7	20.7	41.6	41.5	41.5	43.6	38.0	38.0
LOS by Move:	C	В	A	D	C+	C+	D	D	D	D	D+	D+
HCM2k95thQ:	34	582	0	50	150	150	27	45	45	255	31	31
Note: Queue 1	report	ted is	the d	listand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PPM

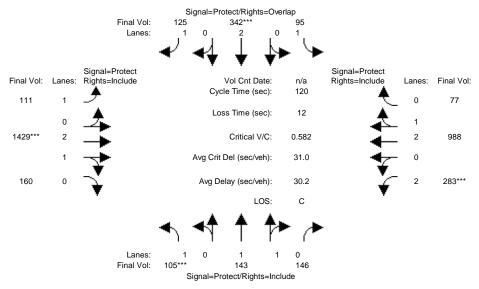
## Intersection #1: S Mary Ave / El Camino Real



Street Name: Approach:	No	rth Bo	S Mar	y Ave	ıth Bo	und	Ea	I ast Bo	El Cami			ound
Movement:	L ·	- T	- R	L -	- T	- R	L -	- T	- R	L -	- Т	- R
	7	10 4.0	10	7		10	7		10	. 7		
Volume Modul												
Base Vol:	83		70	205	726	161		1365	243	188	868	135
Growth Adj:			1.00	1.00		1.00		1.00	1.00	1.00		1.00
Initial Bse:		246	70	205	726	161		1365	243	188	868	135
Added Vol:			5	2	0	0	0	14	0	5	14	2
PasserByVol:		0	0	0	0	0	0	0	0	0	0	0
Initial Fut:			75	207		161		1379	243	193		137
User Adj:			1.00	1.00		1.00		1.00	1.00	1.00		1.00
PHF Adj:		1.00	1.00	1.00		1.00		1.00	1.00	1.00		1.00
PHF Volume:		246	75	207	726	161		1379	243	193	882	137
Reduct Vol:			0	0	0	0	0	0	0	0	0	0
Reduced Vol:			75	207	726	161		1379	243	193	882	137
PCE Adj:			1.00	1.00		1.00		1.00	1.00	1.00		1.00
MLF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
FinalVolume:			75		726	161	226		243	193		137
Saturation F			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Sat/Lane:		1900					1900		1900		1900	
Adjustment:			0.95		0.98	0.95	0.92		0.95		0.99	
Lanes:			0.48		1.63			2.53	0.47			0.42
Final Sat.:		2835			3028				839		4846	753
Capacity Ana												
Vol/Sat:	-	0.09		0 12	0 24	0.24	0 12	0.29	0.29	0 11	0.18	0.18
Crit Moves:	****	0.09	0.09	0.12	****	0.24	0.13	****	0.29	****	0.10	0.10
	7.5	19.1	19.1	26.0	37.7	37.7	26.1	45.5	45.5	17.3	36.8	36.8
	0.76		0.55		0.76	0.76	0.59		0.76	0.76		0.59
Delay/Veh:			47.5		40.2	40.2	44.7		34.2	62.3		35.9
User DelAdi:			1.00		1.00	1.00		1.00	1.00	1.00		1.00
AdjDel/Veh:			47.5		40.2	40.2		34.2	34.2	62.3		35.9
LOS by Move:				D D		D	D		C-	02.5 E	D+	D+
HCM2k95thO:			298	368	717	717	408	_	807	365	_	484
Note: Queue :									50.	200	_0 _	
~ - ~ -					1			-				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PPM

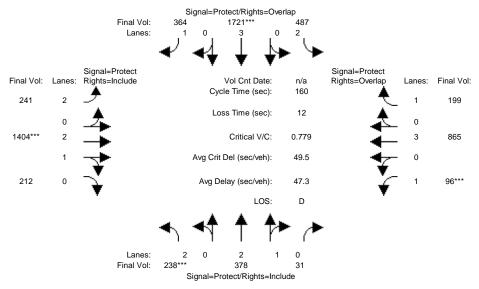
## Intersection #2: S Pastoria Avenue / El Camino Real



Street Name: Approach:	Noi	S Pa	astori: und	a Aver Sot	nue uth Bo	und	Ea	E ast Bo	l Cami:		al est Bo	und
Movement:		- T -							- R			
		10			10						10	
Y+R: 	4.0	4.0			4.0	4.0	4.0	4.0	4.0		4.0	4.0
Volume Module							1			1		
Base Vol:	105	143	146	95	342	125	111	1407	160	283	967	77
Growth Adj:		1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00
Initial Bse:		143	146	95	342	125	111	1407	160	283	967	77
Added Vol:	0	0	0	0	0	0	0	22	0	0	21	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	105	143	146	95	342	125	111	1429	160	283	988	77
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	105	143	146	95	342	125	111	1429	160	283	988	77
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	105	143	146	95	342	125	111	1429	160	283	988	77
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	105	143	146	95	342	125		1429	160		988	77
Saturation Fl												
		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92		0.99	0.95	0.83	0.99	0.95
		1.00	1.00	1.00	2.00	1.00		2.69	0.31		2.78	0.22
Final Sat.:			1750		3800	1750		5035	564		5195	405
Capacity Anal				0 05	0 00	0 0 0	0 06	0 00	0 00	0 00	0 10	0 10
Vol/Sat:	U.U6 ***	0.08	0.08	0.05	0.09	0.07	0.06	0.28	0.28	0.09 ****	0.19	0.19
CIIC MOVED.		10.0	100	10 0		2	100		F0 F			F. 0
		18.2	18.2		18.6	37.8		58.5	58.5		57.8	57.8
		0.50	0.55	0.51		0.23		0.58	0.58		0.39	0.39
<b>-</b> .		47.4	48.4	53.1		30.5		22.3	22.3		20.0	20.0
User DelAdj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
<b>3</b>		47.4	48.4	53.1		30.5		22.3	22.3		20.0	20.0
LOS by Move:		D	D	D-		С	D	C+	C+	D	C+	C+
HCM2k95thQ:	238	258	291	208	315	180	186	600	600	278	383	383
Note: Queue r	eport	ted is	the d	istano	ce per	lane	in fe	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PPM

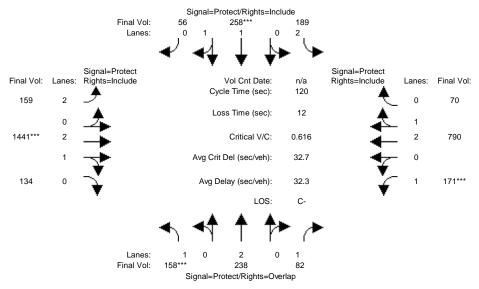
## Intersection #3: S. Mathilda Avenue / El Camino Real



Street Name: Approach:		S. I	Mathil und	da Ave	enue uth Bo	und	Ea	E ast Bo	l Cami:		al est Bo	und
Movement:	L ·	- T	- R	L ·	- T	- R	L -	- T	- R	L ·	- T	- R
		10	10	7	10	10	7	10	10		10	
Y+R:	4.0				4.0	4.0		4.0			4.0	4.0
Volume Module	'											
Base Vol:	234	378	31	486	1721	364	241	1389	206	96	847	198
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	234	378	31	486	1721	364	241	1389	206	96	847	198
Added Vol:	4	0	0	1	0	0	0	15	6	0	18	1
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	238	378	31	487	1721	364	241	1404	212	96	865	199
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	238	378	31	487	1721	364	241	1404	212	96	865	199
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	238	378	31	487	1721	364	241	1404	212	96	865	199
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	238	378	31		1721	364		1404		96	865	199
Saturation F	low Mo	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	0.99	0.95	0.83	1.00	0.92		0.99	0.95	0.92	1.00	0.92
Lanes:	2.00	2.76	0.24	2.00	3.00	1.00	2.00	2.59	0.41	1.00	3.00	1.00
Final Sat.:			424		5700	1750		4864	735		5700	1750
~	1											
Capacity Ana												
Vol/Sat:			0.07	0.15	0.30	0.21	0.08	0.29	0.29		0.15	0.11
CIIC MOVED	****				***			****		****		
Green Time:		24.9	24.9		62.0	85.6		59.2	59.2		46.9	99.5
Volume/Cap:		0.47	0.47		0.78	0.39		0.78	0.78		0.52	0.18
Delay/Veh:			62.0		44.9	22.1		46.6	46.6		47.4	13.0
User DelAdj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:			62.0		44.9	22.1		46.6	46.6		47.4	13.0
LOS by Move:		E	E	D		C+	E	D	D	F	D	В
HCM2k95thQ:	404		310		1047	500	305	979	979	261	517	213
Note: Queue	report	ted is	the d	istan	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PPM

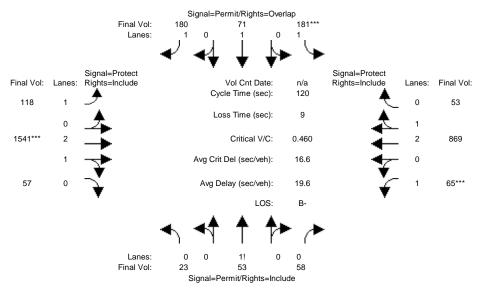
## Intersection #4: S. Sunnyvale Avenue / El Camino Real



Street Name: Approach:	No	S. Si	unnyva und	le Ave	enue uth Bo	und	Ea	E ast Bo	l Cami	no Rea	al est Bo	und
Movement:	L ·	- T ·	- R	L -	- T	– R	ь.	- T	– R	L ·	- T	- R
	7	10	10	. 7	10	10	7	10	10		10	
Y+R:	4.0				4.0	4.0		4.0	4.0		4.0	4.0
Volume Module			ı	1		1	I		ı	I		ı
Base Vol:	139	231	74	189	251	56	159	1441	118	162	790	70
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	139	231	74	189	251	56	159	1441	118	162	790	70
Added Vol:	19	7	8	0	7	0	0	0	16	9	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	158	238	82	189	258	56	159	1441	134	171	790	70
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	158	238	82	189	258	56	159	1441	134	171	790	70
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	158	238	82	189	258	56	159	1441	134	171	790	70
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	158	238	82	189	258	56	159	1441	134	171	790	70
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:			0.92		0.98	0.95		0.99	0.95		0.99	0.95
Lanes:	1.00		1.00		1.63	0.37		2.74	0.26		2.75	0.25
Final Sat.:			1750		3040	660		5123	476		5144	456
Capacity Anal	1											
Vol/Sat:			0.05	0 06	0.08	0.08	0 05	0.28	0.28	0 10	0.15	0.15
	****	0.00	0.05	0.00	****	0.00	0.03	****	0.20	****	0.13	0.13
Green Time:	17.6	19.8	38.9	14.3	16.5	16.5	20.3	54.8	54.8	19.0	53.5	53.5
Volume/Cap:	0.62	0.38	0.14	0.50	0.62	0.62	0.30	0.62	0.62	0.62	0.34	0.34
Delay/Veh:	52.5	45.0	28.9	50.6	51.0	51.0		25.1	25.1	51.2	21.8	21.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			28.9		51.0	51.0		25.1	25.1		21.8	21.8
LOS by Move:			C	D	D	D	D	C	C	D-		C+
HCM2k95thO:	325	204	115	222	312	312	145	625	625	305		322
Note: Queue												
~	-				-							

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PPM

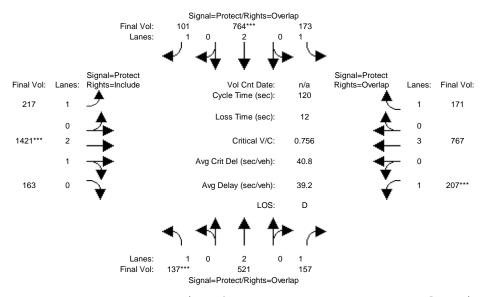
## Intersection #5: Cezanne Drive / El Camino Real



	No	rth Bo	ezanne und - R	Soi	ath Bo			ast Bo		We	al est Bo - T	
Movement:				- ــــــــــــــــــــــــــــــــــــ	- 1	– K l	l	- 1	- R			
		10			10			10			10	10
Y+R:	4.0			4.0		4.0	4.0	4.0	4.0	4.0		4.0
Volume Module						I	1					
Base Vol:	23	53	58	181	71	180	118	1533	57	65	860	53
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	23	53	58	181	71	180	118	1533	57	65	860	53
Added Vol:	0	0	0	0	0	0	0	8	0	0	9	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	53	58	181	71	180	118	1541	57	65	869	53
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	23	53	58	181	71	180	118	1541	57	65	869	53
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	53	58	181	71	180	118	1541	57	65	869	53
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			58	181	71	180		1541	57	65	869	53
Saturation F	low Mo	odule:	·				•		•			•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.92	0.92	0.92	1.00	0.92	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	0.17	0.40	0.43	1.00	1.00	1.00	1.00	2.89	0.11	1.00	2.82	0.18
Final Sat.:			757		1900	1750		5400	200		5278	322
~												
Capacity Anal	-			0 10	0 0 4	0 10	0 0 0	0 00	0 00	0 0 1	0 16	0 16
Vol/Sat:	0.08	0.08	0.08	0.10 ****	0.04	0.10	0.07	0.29	0.29	0.04 ****	0.16	0.16
Crit Moves:	0	0	0		0	E 1 4	0.4.4		- A		<b>50</b> 6	F0 6
	27.0		27.0		27.0	51.4		74.4	74.4		59.6	59.6
	0.34		0.34		0.17	0.24		0.46	0.46		0.33	0.33
Delay/Veh:		39.6	39.6		37.7	22.0		12.2	12.2		18.3	18.3
User DelAdj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:			39.6		37.7	22.0		12.2	12.2		18.3	18.3
LOS by Move:		D	D	D	D+	C+	D	В	В	E+	B-	B-
HCM2k95thQ:	225		225	311	107	220	190	469	469	152	324	324
Note: Queue 1	repor	ted is	the d	ıstano	ce per	lane	in te	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PPM

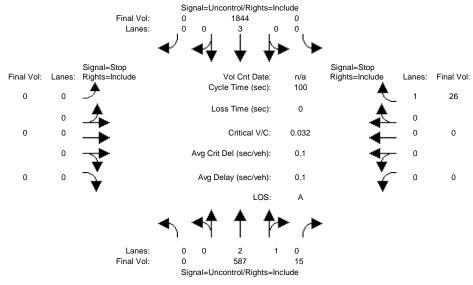
## Intersection #6: S. Fair Oaks Avenue / El Camino Real



Street Name:		S. F	air Oa	ks Ave	enue			E	l Cami	no Rea	al	
Approach:	No	rth Bo	und			und	Εá	ast Bo	ound	We	est Bo	und
Movement:		- T			- T			- T			- T	
Min. Green:		10			10	10		10			10	10
Y+R:	4.0		4.0		4.0	4.0		4.0	4.0	4.0		4.0
Volume Module		E 0.1	1.55	1.00	564	0.0	015		1.00	000	<b>5</b> 60	
Base Vol:	137		157		764	99		1414	163	207		171
Growth Adj:			1.00		1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:			157	173	764	99		1414	163	207	760	171
Added Vol:	0	0	0	0	0	2	2	7	0	0	7	0
-		0	0	0	0	0	0	0	0	0	0	0
Initial Fut:			157	173	764	101		1421	163	207	767	171
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:	1.00		1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	137	521	157	173	764	101	217	1421	163	207	767	171
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	137	521	157	173	764	101	217	1421	163	207	767	171
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	137	521	157	173	764	101	217	1421	163	207	767	171
	1											
Saturation F												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	0.99	0.95		1.00	0.92
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.68	0.32	1.00	3.00	1.00
Final Sat.:			1750		3800	1750		5023	576		5700	1750
	1											
Capacity Anal	_											
Vol/Sat:		0.14	0.09	0.10	0.20	0.06	0.12	0.28	0.28		0.13	0.10
Crit Moves:	****				****			****		****		
Green Time:		25.8	44.5		31.9	62.4		44.9	44.9		33.1	51.7
Volume/Cap:	0.76	0.64	0.24		0.76	0.11		0.76	0.76		0.49	0.23
Delay/Veh:	68.9	44.6	26.3	52.6	43.8	14.7	38.9	34.4	34.4		36.6	21.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	68.9	44.6	26.3	52.6	43.8	14.7	38.9	34.4	34.4	59.8	36.6	21.7
LOS by Move:	E	D	C	D-	D	В	D+	C-	C-	E+	D+	C+
HCM2k95thQ:	337	441	209	353	635	101	339	749	749	445	379	207
Note: Queue	repor	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex+PPM

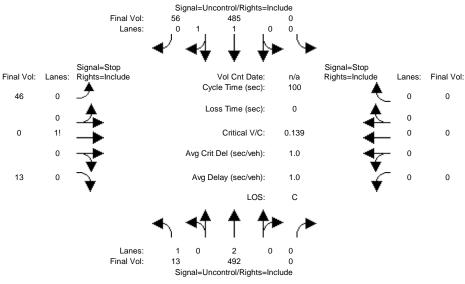
## Intersection #7: S Mathilda Ave / Southwest Project Driveway



Street Name: Approach: Movement:	No:	rth Bo	- R	Sou L -	uth Bo - T	ound – R	Ea L ·	ast Bo - T	estProj ound - R	W∈	est Bo - T	ound
Volume Module	I			1 1			1 1			1 1		I
Base Vol:	0	585	12	0	1837	0	0	0	0	0	0	24
Growth Adj:			1.00		1.00	1.00		1.00	1.00	-	1.00	1.00
Initial Bse:	0	585	12	0	1837	0	0	0	0	0	0	24
Added Vol:	0	2	1	0	7	0	0	0	0	0	0	2
PasserByVol:	0	0	2	0	0	0	0	0	0	0	0	0
Initial Fut:	0	587	15	0	1844	0	0	0	0	0	0	26
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:		1.00	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	587	15	0	1844	0	0	0	0	0	0	26
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:		587	15		1844	0	0	0	0	0	0	26
Critical Gap	Modu.	le:										
Critical Gp:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9
FollowUpTim:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	3.3
Capacity Modu	ıle:											
Cnflict Vol:	xxxx	xxxx	xxxxx	XXXX	XXXX	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	203
Potent Cap.:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	810
Move Cap.:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	810
Volume/Cap:						XXXX			XXXX		XXXX	0.03
	I											
Level Of Serv												
2Way95thQ:												2.5
Control Del:												9.6
200 27 11010	*		*	*		*	*	*		*	*	A
Movement:			- RT			- RT			- RT		- LTR	- RT
Shared Cap.:												XXXXX
SharedQueue:												
Shrd ConDel:												
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	X	XXXXX *		X	XXXXX *		X	XXXXX *			9.6	
ApproachLOS:						-					A	
Note: Queue	repor				_							
*****	. د عد مو مو م		eak Hou		-	_		-		التاسيان السياسيان		
Intersection							_		-	*****	*****	*****

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex+PPM

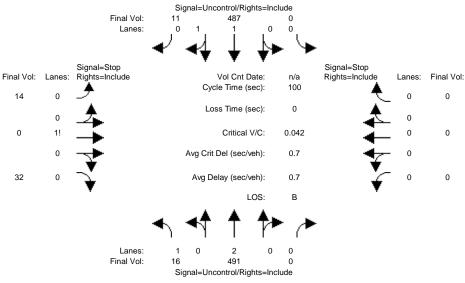
## Intersection #8: Sunnyvale-Saratoga Road / East Project Driveway



	Signal-Official of Nights-include											
Street Name:		Sunny	vale-Sa							ct Driv	reway	
Approach:	No	rth Bo	ound			ound					est Bo	ound
Movement:			- R	L ·	- T	- R	L -	- T	- R	ь -		
Volume Module	<b>:</b> :											
Base Vol:	7	483	0	0	478	31	21	0	7	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	7	483	0	0	478	31	21	0	7	0	0	0
Added Vol:	6	9	0	0	7	25	25	0	6	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	13	492	0	0	485	56	46	0	13	0	0	0
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	13	492	0	0	485	56	46	0	13	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:		492	0	0	485	56	46	0	13	0	0	0
			-					_			-	
Critical Gap				1 1			1			1 1		ı
Critical Gp:			xxxxx	xxxxx	xxxx	xxxxx	6.8	6.5	6.9	xxxxx	xxxx	xxxxx
FollowUpTim:										xxxxx		
Capacity Modu				1 1			1			1 1		I
Cnflict Vol:		xxxx	xxxxx	xxxx	xxxx	xxxxx	785	1031	271	xxxx	xxxx	xxxxx
Potent Cap.:									733			XXXXX
Move Cap.:			XXXXX			XXXXX			733			XXXXX
Volume/Cap:			XXXX			XXXX		0.00			XXXX	
Level Of Serv												
2Way95thQ:				vvvv	vvvv	vvvvv	vvvv	vvvv	vvvvv	vvvv	vvvv	vvvvv
Control Del:												
LOS by Move:	0.5 A			*				*		*	*	*
Movement:						- RT			- RT		- LTR	_ DT
									XXXXX			XXXXX
Shared Cap.: SharedOueue:									XXXXX			
SharedQueue:												
		xxxx *		xxxxx *		*		16.3 C	*	*		XXXXX *
Shared LOS:			•			•	•	C	•			•
ApproachDel:	X	XXXXX *		X	XXXXX *			16.3		XX	XXXXX	
ApproachLOS:			. 1			-		. C			*	
Note: Queue r	repor				_							
******	****				-	gnal Wa		_		*****	****	*****
Intersection												
**********		-		_			_		4		****	*****

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex+PPM

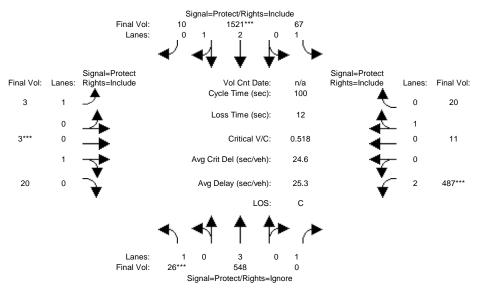
## Intersection #9: Sunnyvale-Saratoga Road / Southeast Project Driveway



Approach: Movement:	Sunnyvale-Saratoga Road Southeast Project Drivewa North Bound South Bound East Bound West Bou L - T - R L - T - R L - T - R									ound		
Volume Module				1 1			I I					I
Base Vol:	9	485	0	0	481	4	5	0	27	0	0	0
Growth Adj:			1.00	-	1.00	1.00		1.00	1.00	-	1.00	1.00
Initial Bse:	9	485	0	0	481	4	5	0	27	0	0	0
Added Vol:	7	6	0	0	6	7	9	0	5	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	16	491	0	0	487	11	14	0	32	0	0	0
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	16	491	0	0	487	11	14	0	32	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	16	491	0	0	487	11	14	0	32	0	0	0
Critical Gap	Modu:	le:										
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.8	6.5	6.9	xxxxx	xxxx	xxxxx
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	xxxxx	xxxx	xxxxx
Capacity Modu	ıle:											
Cnflict Vol:	498	xxxx	xxxxx	xxxx	xxxx	xxxxx	770	1016	249	xxxx	xxxx	xxxxx
Potent Cap.:	1076	xxxx	xxxxx	xxxx	xxxx	xxxxx	341	240	757	xxxx	xxxx	xxxxx
Move Cap.:	1076	xxxx	xxxxx	xxxx	xxxx	xxxxx	337	236	757	xxxx	xxxx	xxxxx
Volume/Cap:			xxxx			xxxx		0.00	0.04	xxxx	xxxx	xxxx
Level Of Serv	rice D	Module	≘:									·
2Way95thQ:	1.1	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	8.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	A	*	*	*	*	*	*	*	*	*	*	*
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT -	- LTR	- RT
Shared Cap.:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	549	xxxxx	XXXX	xxxx	XXXXX
SharedQueue:x	xxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	0.3	xxxxx	xxxxx	xxxx	XXXXX
Shrd ConDel:x	xxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	12.2	xxxxx	xxxxx	xxxx	XXXXX
Shared LOS:	*	*	*	*	*	*	*	В	*	*	*	*
ApproachDel:	X	xxxxx		X	xxxxx			12.2		XX	XXXXX	
ApproachLOS:		*			*			В			*	
Note: Queue r	report	ted is	s the o	distan	ce per	r lane	in fe	et.				
			eak Hoi									
******	****	****	*****	*****	****	*****	*****	* * * * *	*****	*****	****	*****
Intersection												
********	****	****	*****	*****	****	*****	*****	****	*****	*****	****	*****

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+PPM

## Intersection #10: S Mathilda Ave - Sunnyvale-Saratoga Rd / Talisman Dr - Sunnvyale-Saratoga Rd

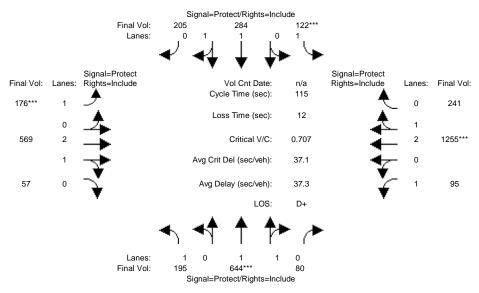


Street Name: Approach:				Sunny				man Dr ast Bo		-	e-Sara est Bo	_
Movement:	L	- T	- R	L ·	- T	- R	L -	- T		L -		- R
Min. Green:		10			10		7		10		10	10
Y+R:	4.0			4.0			4.0		4.0	4.0	4.0	4.0
Volume Modul							1			1		
Base Vol:	26	547	553	60	1521	10	3	3	20	478	11	18
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	26	547	553	60	1521	10	3	3	20	478	11	18
Added Vol:	0	1	8	7	0	0	0	0	0	9	0	2
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	26	548	561	67	1521	10	3	3	20	487	11	20
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	26	548	0	67	1521	10	3	3	20	487	11	20
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	26	548	0	67	1521	10	3	3	20	487	11	20
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	26	548	0		1521	10	3	3	20	487	11	20
Saturation F												
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		1.00	0.92		0.98	0.95		0.95	0.95		0.95	0.95
Lanes:		3.00	1.00		2.98	0.02		0.13	0.87		0.35	0.65
Final Sat.:			1750		5563	37	1750	235	1565	3150	639	1161
Capacity Ana	İysis	Modul	e:							•		
Vol/Sat:	0.01	0.10	0.00	0.04	0.27	0.27	0.00	0.01	0.01	0.15	0.02	0.02
Crit Moves:	****				***			****		****		
Green Time:	7.0	30.8	0.0	21.6	45.4	45.4	14.7	10.0	10.0	25.6	21.0	21.0
Volume/Cap:	0.21	0.31	0.00	0.18	0.60	0.60	0.01	0.13	0.13	0.60	0.08	0.08
Delay/Veh:	44.8	26.6	0.0	32.2	21.0	21.0	36.5	41.3	41.3	34.0	31.9	31.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	44.8	26.6	0.0	32.2	21.0	21.0	36.5	41.3	41.3	34.0	31.9	31.9
LOS by Move:	D	С	А	C-	C+	C+	D+	D	D	C-	С	С
HCM2k95thQ:	41		0	95	555	555	5	39	39	403	43	43
Note: Queue			the	distan			in fee	et.				



Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG AM

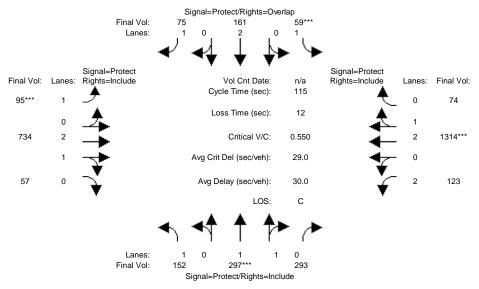
## Intersection #1: S Mary Ave / El Camino Real



Street Name: Approach:			S Mar und		ıth Bo	und	Eá	E ast Bo	El Cami			ound
Movement:	L -	- T	- R	L -	- T	- R	L -	- T	- R	L -	- T	- R
Min. Green: Y+R:	7 4.0	10 4.0	10 4.0	7 4.0	10 4.0	10 4.0	7 4.0	10 4.0	10 4.0	7 4.0	10 4.0	10
Volume Module												
	195	639	73	96	278	184	153	494	57	89	1169	212
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	195	639	73	96	278	184	153	494	57	89	1169	212
Added Vol:		5	7	26	6	21	23	75	0	6	86	29
PasserByVol:		0	0	0	0	0	0	0	0	0	0	0
Initial Fut:		644	80	122	284	205	176	569	57	95	1255	241
User Adj:	1.00		1.00		1.00	1.00	1.00		1.00		1.00	1.00
PHF Adj:	1.00		1.00	1.00		1.00	1.00		1.00		1.00	1.00
PHF Volume:		644	80	122	284	205	176	569	57		1255	241
Reduct Vol:		0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:		644	80	122	284	205	176	569	57		1255	241
	1.00		1.00	1.00		1.00	1.00		1.00		1.00	1.00
_	1.00		1.00		1.00	1.00	1.00		1.00	1.00		1.00
FinalVolume:		644	80	122	284	205	176		57		1255	241
	1											
Saturation F			1900	1000	1900	1900	1900	1000	1900	1000	1900	1900
Sat/Lane: Adjustment:			0.95		0.99	0.95	0.92		0.95		0.99	0.95
_	1.00		0.95		1.14		1.00		0.95		2.50	0.50
Final Sat.:			409		2148				510		4697	902
rinai Sat												902 
Capacity Ana												
Vol/Sat:	0.11		0.20	0 07	0.13	0.13	0 10	0.11	0.11	0 05	0.27	0.27
Crit Moves:	0.11	****	0.20	****	0.13	0.13	****	0.11	0.11	0.05	****	0.27
Green Time:	19.7	31.8	31.8	11.3	23.4	23.4	16.4	38.7	38.7	21.1	43.5	43.5
Volume/Cap:	0.65	0.71	0.71	0.71	0.65	0.65	0.71	0.33	0.33	0.30	0.71	0.71
-	49.3		39.7	62.8	44.0	44.0	56.0	28.6	28.6	41.1	31.5	31.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	49.3	39.7	39.7		44.0	44.0	56.0	28.6	28.6	41.1	31.5	31.5
LOS by Move:			D	E	D	D	E+	С	С	D	С	С
HCM2k95thQ:	375	576	576	289	421	421	370	270	270	150	660	660
Note: Queue	report	ed is	the d	listano	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG AM

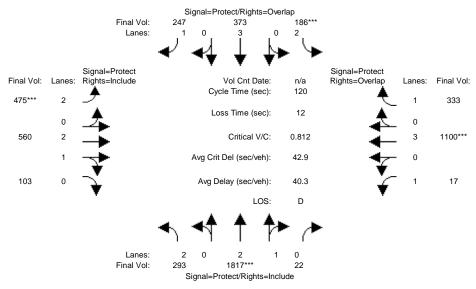
## Intersection #2: S Pastoria Avenue / El Camino Real



Street Name: Approach:	No:	S Parth Bo	astori und	a Aver Soi	nue uth Bo	und	Ea	E ast Bo	l Cami		al est Bo	und
Movement:	L ·	- T	- R	L -	- T	- R	L ·	- T	- R			
		10	10	. 7	10	10	7	10	10		10	
Y+R:	4.0				4.0	4.0		4.0			4.0	4.0
Volume Module			I	I		I	I		ļ	I		I
Base Vol:	151	297	291	47	161	68	88	634	55	119	1200	61
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	151	297	291	47	161	68	88	634	55	119	1200	61
Added Vol:	1	0	2	12	0	7	7	100	2	4	114	13
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	152	297	293	59	161	75	95	734	57	123	1314	74
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	152	297	293	59	161	75	95	734	57	123	1314	74
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	152	297	293	59	161	75	95	734	57	123	1314	74
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	152	297	293	59	161	75	95	734	57	123	1314	74
Saturation F	low M	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.95	0.92	1.00	0.92	0.92	0.99	0.95	0.83	0.98	0.95
Lanes:	1.00	1.00	1.00	1.00	2.00	1.00	1.00	2.78	0.22	2.00	2.83	0.17
Final Sat.:			1800		3800	1750		5196	403		5301	299
	1											
Capacity Ana	-											
Vol/Sat:		0.16	0.16		0.04	0.04		0.14	0.14	0.04	0.25	0.25
Crit Moves:		***		****			****				****	
Green Time:		32.7	32.7		19.9	31.3		44.2	44.2		51.9	51.9
Volume/Cap:	0.50	0.55	0.57		0.24	0.16	0.55	0.37	0.37		0.55	0.55
Delay/Veh:	44.4	35.5	35.9	58.4	41.3	32.0	53.1	25.5	25.5	41.9	23.3	23.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	44.4	35.5	35.9	58.4	41.3	32.0	53.1	25.5	25.5	41.9	23.3	23.3
LOS by Move:	D	D+	D+	E+	D	C-	D-	C	C	D	C	C
HCM2k95thQ:	278	429	450	152	128	110	173	312	312	108	518	518
Note: Queue	repor	ted is	the d	istand	ce per	lane	in fe	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG AM

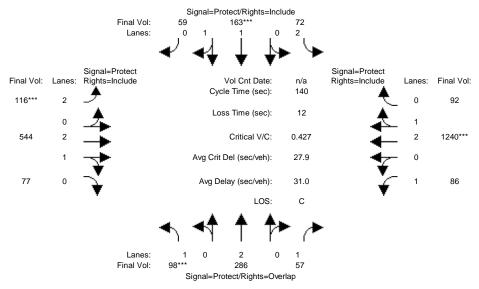
## Intersection #3: S. Mathilda Avenue / El Camino Real



Street Name: Approach:		S. rth Bo		da Ave	enue	und	T.	E	l Cami ound	no Rea	al est Bo	und
Movement:			- R	T	лсп во - Т	_ P	Т	авс вс - Т	- R	T	- T	
Min. Green:		10			10				10			
Y+R:		4.0			4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module												
Base Vol:		1794	22	170	340	170	418	510	96	17	1054	317
Growth Adj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
Initial Bse:		1794	22	170	340	170	418	510	96		1054	317
Added Vol:	205		0	16	340	77	57	510	90 7	0	46	16
PasserByVol:			0	10	0	0	0	0	0	0	0	0
				-			-					
Initial Fut:			22	186	373	247	475	560	103		1100	333
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
PHF Volume:			22	186	373	247	475	560	103		1100	333
Reduct Vol:	0		0	0	0	0	0	0	0	0	0	0
Reduced Vol:	293	1817	22	186	373	247	475	560	103	17	1100	333
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	293	1817	22	186	373	247	475	560	103	17	1100	333
Saturation F	low M	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	0.98	0.95	0.83	1.00	0.92	0.83	0.99	0.95	0.92	1.00	0.92
Lanes:	2.00	2.96	0.04	2.00	3.00	1.00	2.00	2.52	0.48	1.00	3.00	1.00
Final Sat.:	3150	5533	67	3150	5700	1750		4729	870	1750	5700	1750
Capacity Ana	lysis	Modul	e:				•		·	•		
Vol/Sat:	0.09	0.33	0.33	0.06	0.07	0.14	0.15	0.12	0.12	0.01	0.19	0.19
Crit Moves:		****		***			* * * *				****	
Green Time:		48.5	48.5	8.7	27.0	49.3	22.3	34.0	34.0	16.8	28.5	37.2
Volume/Cap:	0.37	0.81	0.81	0.81	0.29	0.34	0.81	0.42	0.42	0.07	0.81	0.61
Delay/Veh:			34.1		38.7	24.5		35.1	35.1		47.1	37.3
User DelAdj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:			34.1		38.7	24.5		35.1	35.1		47.1	37.3
LOS by Move:			C-	74.Z E	D+	Z4.5	E+	D+	D+	43.0 D	77.1 D	D+
HCM2k95thO:	264		924	296	191	318	488	310	310	29	593	506
Note: Queue :									210	49	223	300
Note: Queue .	rebor	ccu is	ciie u	ııstall	o ber	Tane	TII T.C.	- L •				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG AM

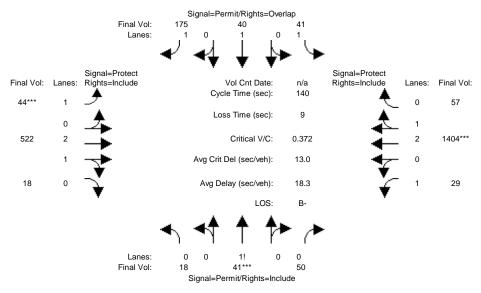
## Intersection #4: S. Sunnyvale Avenue / El Camino Real



Street Name: Approach:	No:	S. Si	unnyva und	le Ave	enue ith Bo	und	El Camino Real East Bound West Bound					
Movement:	ь.	– T ·	– R	ъ.	- T	– R	ь.	- T.	- R	ъ.	- T	- R
		10									10	
Y+R:	4.0				4.0	4.0		4.0			4.0	4.0
Volume Module			I				1					
Base Vol:	98	276	57	66	155	49	107	487	77	84	1189	84
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	98	276	57	66	155	49	107	487	77	84	1189	84
Added Vol:	0	10	0	6	8	10	9	57	0	2	51	8
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	98	286	57	72	163	59	116	544	77	86	1240	92
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	98	286	57	72	163	59	116	544	77	86	1240	92
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	98	286	57	72	163	59	116	544	77	86	1240	92
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			57	72	163	59	116	544	77	86	1240	92
Saturation F	low M	odule:							•			•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	0.98	0.95	0.83	0.99	0.95	0.92	0.99	0.95
Lanes:	1.00	2.00	1.00	2.00	1.45	0.55	2.00	2.61	0.39	1.00	2.79	0.21
Final Sat.:	1750	3800	1750	3150	2716	983	3150	4905	694	1750	5213	387
Capacity Anal	lysis	Modul	e:									
Vol/Sat:			0.03	0.02	0.06	0.06		0.11	0.11	0.05	0.24	0.24
Crit Moves:	****				****		****				****	
Green Time:	18.3	22.8	50.8	15.2	19.7	19.7	12.1	62.0	62.0	28.0	77.9	77.9
Volume/Cap:	0.43	0.46	0.09	0.21	0.43	0.43	0.43	0.25	0.25	0.25	0.43	0.43
Delay/Veh:	57.3	53.6	29.4	57.3	55.6	55.6	61.8	24.5	24.5	47.5	18.1	18.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	57.3	53.6	29.4	57.3	55.6	55.6	61.8	24.5	24.5	47.5	18.1	18.1
LOS by Move:	E+	D-	С	E+	E+	E+	E	С	C	D	B-	B-
HCM2k95thQ:	223	283	86	92	234	234	140	262	262	161	497	497
Note: Queue	repor	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG AM

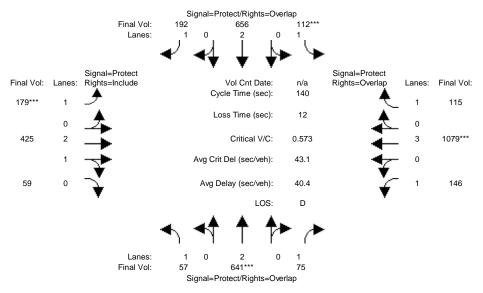
## Intersection #5: Cezanne Drive / El Camino Real



Street Name:			ezanne				El Camino Real East Bound West Bound					
		rth Bo									est Bo	
Movement:	L	- T	- R	Г.	- T	- R	L -	- T	- R		- T	
Min. Green:		10			10		7				10	10
Y+R:	4.0			4.0			4.0		4.0	4.0		4.0
Volume Module												
Base Vol:	18	41	50	41	40	175	44	459	18	29	1343	53
Growth Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:		41	50	41	40	175	44		18		1343	53
	0		0		0	0	0		0	0	61	4
PasserByVol:			0	0	0	0	0	0	0	0	0	0
Initial Fut:			50	41	40	175	44	522	18		1404	57
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
	18	41	50	41	40	175	44		18		1404	57
	0		0	0	0	0	0		0	0	0	0
Reduced Vol:			50	41	40	175	44		18		1404	57
PCE Adj:		1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
MLF Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
FinalVolume:			50	41		175	44				1404	57
Saturation F				1			1		ı	1		1
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:			0.92		1.00	0.92		0.98	0.95	0.92	0.98	0.95
Lanes:		0.38	0.46		1.00	1.00		2.90	0.10		2.88	0.12
Final Sat.:			803		1900	1750		5413	187		5381	218
Capacity Ana				1			1		1	1		1
Vol/Sat:	-	0.06	0.06	0.02	0.02	0.10	0.03	0.10	0.10	0.02	0.26	0.26
Crit Moves:		***					****				****	
Green Time:		23.4	23.4	23.4	23.4	32.9	9.5	70.8	70.8	36.7	98.1	98.1
Volume/Cap:	0.37	0.37	0.37	0.14	0.13	0.43	0.37	0.19	0.19	0.06	0.37	0.37
Delay/Veh:		52.6	52.6	49.9	49.8	46.2	64.4	18.9	18.9	38.8	8.5	8.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			52.6		49.8	46.2		18.9	18.9	38.8	8.5	8.5
LOS by Move:			D-	D	D	D	E	B-	B-	D+	А	A
HCM2k95thQ:			229	84	75	334	98	203	203	51	394	394
Note: Queue :												
~	-				-							

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG AM

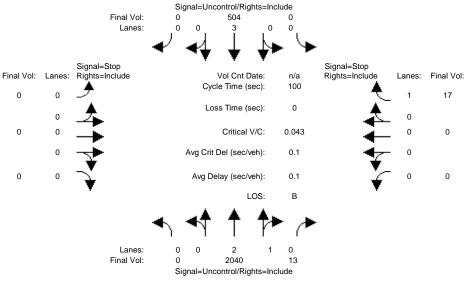
## Intersection #6: S. Fair Oaks Avenue / El Camino Real



Street Name:							El Camino Real East Bound West Bound					
		rth Bo								We	est Bo	und
Movement:	L	- T	- R	L -	- T	- R	L -	- T	- R		- T	
Min. Green:		10			10		7	10			10	10
Y+R:	4.0			4.0			4.0	4.0	4.0	4.0		4.0
Volume Modul												
Base Vol:	50	641	75	93	653	181	144	396	59	146	1032	115
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	50	641	75	93	653	181	144	396	59	146	1032	115
Added Vol:	7	0	0	19	3	11	35	29	0	0	47	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	57	641	75	112	656	192	179	425	59	146	1079	115
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	57	641	75	112	656	192	179	425	59	146	1079	115
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	57	641	75	112	656	192	179	425	59	146	1079	115
PCE Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			75	112	656	192	179	425	59	146	1079	115
Saturation F	low M	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.92	1.00	0.92	0.92	0.99	0.95	0.92	1.00	0.92
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	1.00	2.62	0.38	1.00	3.00	1.00
Final Sat.:			1750		3800	1750		4916	683		5700	1750
	1											
Capacity Ana	-											
Vol/Sat:		0.17	0.04		0.17	0.11		0.09	0.09	0.08	0.19	0.07
Crit Moves:							****				****	
Green Time:		41.2	76.1		44.1	69.0		36.2	36.2		46.2	61.8
Volume/Cap:			0.08		0.55	0.22		0.33	0.33		0.57	0.15
Delay/Veh:		42.7	15.2	63.1		20.3		42.2	42.2		39.2	23.4
User DelAdj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:			15.2		40.3	20.3		42.2	42.2		39.2	23.4
LOS by Move:			В	Ε	D	C+	E+	D	D	D	D	С
HCM2k95thQ:	141		82	276	532	240	356	266	266	269	576	154
Note: Queue	repor	ted is	the d	istano	ce per	lane	in fe	et.				

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG AM

## Intersection #7: S Mathilda Ave / Southwest Project Driveway

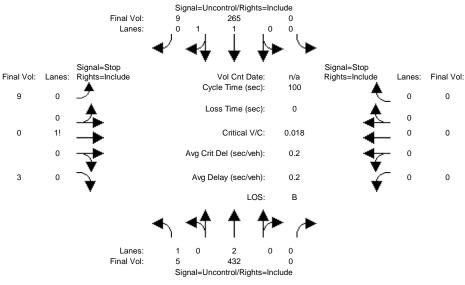


Street Name:		estPro	ioat D	c i 1101:11	377							
		ر د rth Bo	Mathilo			ound					est Bo	-
Movement:			- R			- R			- R		est bo - T	
Movement:				П	_ 1	- K	П					
Volume Module												
Base Vol:		2009	13	0	464	0	0	0	0	0	0	17
Growth Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:		2009	13	0	464	0	0	0	0	0	0	17
Added Vol:	0		0	0	40	0	0	0	0	0	0	0
PasserByVol:	0		0	0	0	0	0	0	0	0	0	0
Initial Fut:		2040	13	0	504	0	0	0	0	0	0	17
User Adj:		1.00	1.00	•	1.00	1.00	•	1.00	1.00	•	1.00	1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
_	0		13	0	504	0	0	0	0	0	0	17
Reduct Vol:	0		0	0	0	0	0	0	0	0	0	0
FinalVolume:	-	2040	13	0	504	0	0	0	0	0	0	17
												I
Critical Gap				I I			1 1			1 1		ı
Critical Gp:			xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9
FollowUpTim:												3.3
Capacity Mod	ule:											
Cnflict Vol:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	687
Potent Cap.:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	394
Move Cap.:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	394
Volume/Cap:						xxxx		xxxx	xxxx	xxxx	xxxx	0.04
Level Of Serv	vice D	Module	<b>:</b>									
2Way95thQ:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	XXXX	3.4
Control Del:	xxxxx	xxxx	xxxxx	xxxxx			xxxxx		xxxxx	xxxxx	xxxx	14.5
LOS by Move:	*	*	*	*	*	*	*	*	*	*	*	В
Movement:	LT ·	- LTR	- RT	LT -	- LTR	- RT	LT ·	- LTR	- RT	LT -	- LTR	- RT
Shared Cap.:	xxxx	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	XXXX	XXXXX
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	X	xxxxx		XX	xxxxx		X	xxxxx			14.5	
ApproachLOS:		*			*			*			В	
Note: Queue	report	ted is	s the c	distand	ce per	r lane	in fe	et.				
			eak Hou									
*****	****	****	*****	*****	****	*****	*****	****	*****	*****	****	*****
Intersection	Intersection #7 S Mathilda Ave / Southwest Project Driveway											

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Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG AM

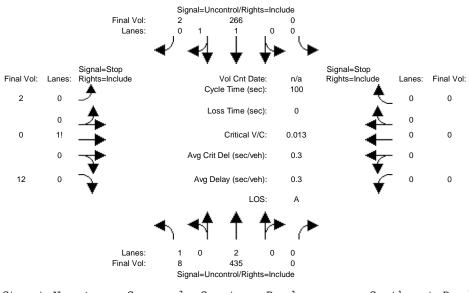
## Intersection #8: Sunnyvale-Saratoga Road / East Project Driveway



Street Name: Approach: Movement:	No	rth Bo	vale-Sa ound - R	Soi	ath Bo	d ound - R	East Project Driveway East Bound West Bound R L - T - R L - T - R					
Volume Module				1 1			1			<b> </b>		ı
Base Vol:	5	422	0	0	255	9	9	0	3	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	5	422	0	0	255	9	9	0	3	0	0	0
Added Vol:	0	10	0	0	10	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	5	432	0	0	265	9	9	0	3	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	5	432	0	0	265	9	9	0	3	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	5	432	0	0	265	9	9	0	3	0	0	0
Critical Gap	Modu.	le:										
Critical Gp:									6.9			
FollowUpTim:												
Capacity Modu												
Cnflict Vol:											XXXX	XXXXX
Potent Cap.:	1301	XXXX	xxxxx	XXXX	xxxx	xxxxx	508	360	893	XXXX	XXXX	XXXXX
Move Cap.:	1301	XXXX	xxxxx	XXXX	xxxx	xxxxx	507	359	893	XXXX	XXXX	XXXXX
Volume/Cap:						XXXX		0.00				XXXX
Level Of Serv												
2Way95thQ:												XXXXX
Control Del:												
	А		*	*	*	*	*		*	*	*	*
Movement:			- RT			- RT			- RT		- LTR	
Shared Cap.:									XXXXX			XXXXX
SharedQueue:x									XXXXX			
Shrd ConDel:x												XXXXX
Shared LOS:	*	*	*	*	*	*	*	ם	*	*	*	*
ApproachDel:	X	XXXXX		XX	XXXX			11.5		X	XXXXX	
ApproachLOS:		*			*			В			*	
Note: Queue r	eport											
			eak Hou									
******											****	*****
Intersection ******		_		_			_		-		****	*****

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG AM

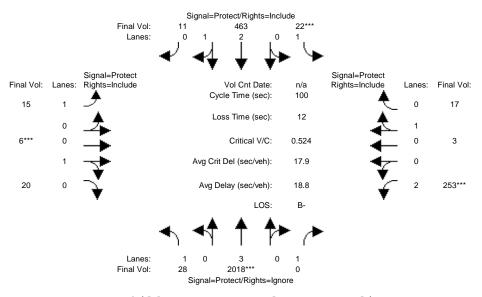
## Intersection #9: Sunnyvale-Saratoga Road / Southeast Project Driveway



Street Name:		Sunny	vale-Sa	aratoga	a Road								
Approach:	No	rth Bo	ound	Sou	ath Bo	ound	and East Bound West Bound						
Movement:	L	- T	- R	L -	- T	- R	L ·	- T	- R	L -	Т	- R	
Volume Module	e:												
Base Vol:	8	425	0	0	256	2	2	0	12	0	0	0	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	8	425	0	0	256	2	2	0	12	0	0	0	
Added Vol:	0	10	0	0	10	0	0	0	0	0	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	8	435	0	0	266	2	2	0	12	0	0	0	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	8	435	0	0	266	2	2	0	12	0	0	0	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
FinalVolume:	8	435	0	0	266	2	2	0	12	0	0	0	
Critical Gap													
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.8		6.9	XXXXX	xxxx	XXXXX	
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	XXXXX	XXXX	XXXXX	
Capacity Mod	ule:												
Cnflict Vol:			xxxxx				501		134	XXXX	xxxx	XXXXX	
Potent Cap.:	1307	XXXX	XXXXX	XXXX	xxxx	XXXXX	505	357	897	XXXX	xxxx	XXXXX	
Move Cap.:					xxxx	xxxxx	502	355	897	XXXX	xxxx	XXXXX	
Volume/Cap:			XXXX			XXXX		0.00	0.01		xxxx	XXXX	
Level Of Ser	vice 1	Modul	<b>:</b>										
2Way95thQ:													
Control Del:										XXXXX		XXXXX	
LOS by Move:	A		*	*	*	*	*	*	*	*	*	*	
Movement:	LT	- LTR	- RT	LT -	- LTR	- RT	LT ·	- LTR	- RT	LT -	LTR	- RT	
Shared Cap.:									XXXXX	XXXX	XXXX	XXXXX	
SharedQueue:	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXX	0.1	XXXXX	XXXXX	XXXX	XXXXX	
Shrd ConDel:										XXXXX		XXXXX	
Shared LOS:	*	*	*	*	*	*	*	A	*	*	*	*	
ApproachDel:	X	xxxxx		XX	xxxxx			9.5		XX	XXXX		
ApproachLOS:		*			*			A			*		
Note: Queue	repor	ted is	s the d	distand	ce per	r lane	in fe	et.					
			eak Hou										
*****											****	*****	
Intersection		_		_				_		_			
******	****	****	*****	*****	****	*****	*****	****	*****	*****	****	******	

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG AM

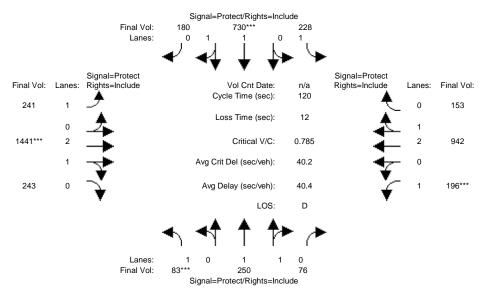
## Intersection #10: S Mathilda Ave - Sunnyvale-Saratoga Rd / Talisman Dr - Sunnvyale-Saratoga Rd



			-		o Talisman Dr - Sunnyvale-Saratoga East Bound West Bound							
											st Bo	
Movement:		- T			- T			- T		L -		- R
 Min. Green:		10			10			10	10		10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0
Volume Module		1007	1.00	2.2	400	11	1 -	_	2.0	242	2	1 77
Base Vol:		1987	467	22		11	15		20	243	3	17
Growth Adj:			1.00		1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:		1987	467	22	423	11	15	6	20	243	3	17
	0		10	0	40	0	0	0	0	10	0	0
2	0		0	0	0	0	0	0	0	0	0	0
Initial Fut:		2018	477	22	463	11	15	6	20	253	3	17
_		1.00	0.00		1.00	1.00		1.00	1.00	1.00		1.00
_		1.00	0.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	28	2018	0	22	463	11	15	6	20	253	3	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	28	2018	0	22	463	11	15	6	20	253	3	17
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			0	22		11	15	6	20	253	3	17
 Saturation Fl												
		1900		1000	1000	1000	1000	1000	1000	1900	1000	1900
			1900		1900	1900		1900	1900			
-		1.00	0.92		0.98	0.95		0.95	0.95	0.83		0.95
		3.00	1.00		2.93	0.07		0.23	0.77	2.00		0.85
Final Sat.:			1750		5470	130	1750 		1385	3150	270	1530
Capacity Anal				1 1			1 1		1	I		1
Vol/Sat:	0.02	0.35	0.00	0.01	0.08	0.08	0.01	0.01	0.01	0.08	0.01	0.01
Crit Moves:		****		****				****		***		
Green Time:	26.7	57.9	0.0	7.0	38.2	38.2	9.5	10.0	10.0	13.1	13.6	13.6
Volume/Cap:	0.06	0.61	0.00	0.18	0.22	0.22	0.09	0.14	0.14	0.61	0.08	0.08
Delay/Veh:	27.3	14.1	0.0	44.5	20.9	20.9	41.5	41.5	41.5	43.7	37.9	37.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			0.0	44.5	20.9	20.9	41.5	41.5	41.5	43.7	37.9	37.9
LOS by Move:			А	D	C+	C+	D	D	D	D	D+	D+
HCM2k95thO:	34		0	44	165	165	27	45	45	263	31	31
Note: Queue r									_			- <del>-</del>

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG PM

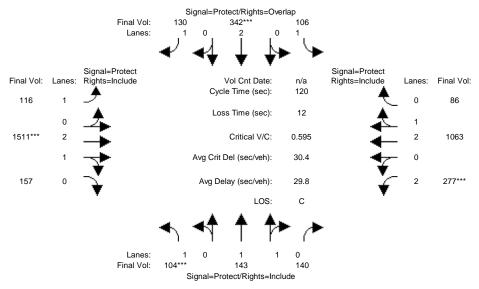
## Intersection #1: S Mary Ave / El Camino Real



Street Name:			S Mar	y Ave			El Camino Real						
Approach:	No	rth Bo	und	Sou	ith Bo	und	Εá	ast Bo	ound	We	est Bo	ound	
Movement:	L ·	– T ·	– R	L -	- T	– R	L -	- T	- R	L -	- T	- R	
 Min. Green:									 10				
Y+R:	4 0	10	4 0						4.0			4.0	
1+K•													
Volume Modul				1						1			
Base Vol:	83	246	70	205	726	161	226	1365	243	188	868	135	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	83	246	70	205	726	161	226	1365	243	188		135	
Added Vol:	0	4	6	23	4	19	15	76	0	8	74	18	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:			76	228			241		243	196	942	153	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:			76	228	730	180	241	1441	243	196	942	153	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduct Vol: Reduced Vol:	83	250	76	228	730	180	241	1441	243	196	942	153	
PCE Adj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
FinalVolume:	83	250	76	228	730	180	241	1441	243	196	942	153	
Saturation F										•			
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Adjustment:	0.92	0.98	0.95	0.92	0.98	0.95	0.92	0.99	0.95	0.92	0.99	0.95	
Lanes:	1.00	1.52	0.48	1.00	1.59	0.41	1.00	2.55	0.45	1.00	2.57	0.43	
Final Sat.:					2968				808			782	
Capacity Ana										•			
Vol/Sat:	0.05	0.09	0.09	0.13	0.25	0.25	0.14	0.30	0.30	0.11	0.20	0.20	
Crit Moves:					****			****		***			
Green Time:		18.1	18.1	26.8	37.6	37.6	26.1	46.0	46.0	17.1	37.0	37.0	
Volume/Cap:	0.78	0.58	0.58	0.58		0.78	0.63	0.78	0.78	0.78	0.63	0.63	
Delay/Veh:			49.0	43.9	41.1	41.1	46.1	34.6	34.6	64.6	36.4	36.4	
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:	86.6	49.0	49.0	43.9	41.1	41.1	46.1	34.6	34.6	64.6	36.4	36.4	
LOS by Move:			D	D	D	D	D	C-	C-	E	D+	D+	
HCM2k95thQ:	249	311	311	407	746	746	441	847	847				
Note: Queue	report	ted is	the d	istand	ce per	lane	in fee	et.					

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG PM

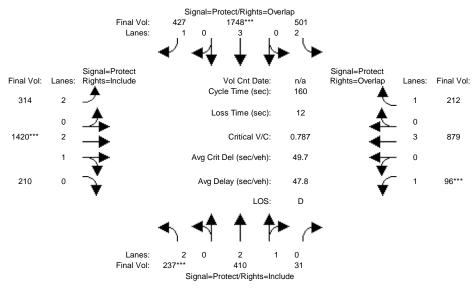
## Intersection #2: S Pastoria Avenue / El Camino Real



Street Name: Approach:	No	S Pastoria Avenue North Bound South Bound L - T - R L - T -						El Camino Real East Bound West Bound				
Movement:	L ·	- T	- R	L -	- T	- R	L ·	- T	- R			
		10			10						10	
Y+R:	4.0				4.0	4.0	4.0	4.0	4.0		4.0	4.0
Volume Module	•											
Base Vol:	105	143	146	95	342	125	111	1407	160	283	967	77
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:		143	146	95	342	125	111	1407	160	283	967	77
Added Vol:	-1	0	-6	11	0	5	5	104	-3	-6	96	9
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	104	143	140	106	342	130	116	1511	157		1063	86
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:		143	140	106	342	130	116	1511	157	277	1063	86
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	104	143	140	106	342	130	116	1511	157	277	1063	86
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	104	143	140	106	342	130	116	1511	157	277	1063	86
Gatarration Di												
Saturation F			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:			0.95		1.00	0.92		0.99	0.95		0.99	0.95
Lanes:	1.00		1.00		2.00	1.00 1750		2.71	0.29 527		2.77 5180	0.23 419
Final Sat.:			1800		3800			5072	52/			
Capacity Anal	1											
Vol/Sat:			0.08	0.06	0.09	0.07	0.07	0.30	0.30	0.09	0.21	0.21
	***				***			***		****		
Green Time:	12.0	17.5	17.5	12.7	18.2	37.2	19.0	60.1	60.1	17.7	58.8	58.8
Volume/Cap:	0.59	0.52	0.53	0.57	0.59	0.24	0.42	0.59	0.59	0.59	0.42	0.42
Delay/Veh:	57.1	48.3	48.6	55.4	49.2	31.1	46.5	21.6	21.6	49.9	19.7	19.7
User DelAdj:			1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			48.6		49.2	31.1		21.6	21.6		19.7	19.7
LOS by Move:			D	E+		C	D	C+	C+	D	B-	B-
HCM2k95th0:	240	263	273	238	319	190	195	622	622	273	410	410
Note: Queue												*
~ ~ ~ ~ ~ ~ ~					1			•				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG PM

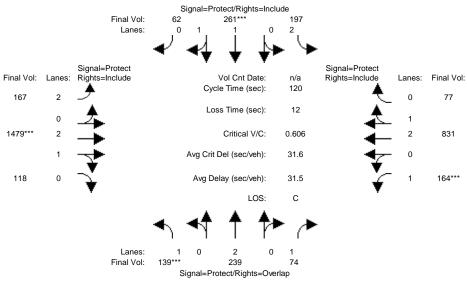
## Intersection #3: S. Mathilda Avenue / El Camino Real



Street Name: Approach:		S. I	Mathil und	da Ave	enue uth Bo	und	El Camino Real East Bound West Bound					
Movement:	L ·	- T	- R	L -	- T	- R	L -	- T	- R	L -	- T	- R
Min. Green:	7	10	10	. 7	10	10	7	10	10	7	10	
Y+R:	4.0				4.0	4.0		4.0			4.0	4.0
Volume Module			I	I		I	I			1 1		I
Base Vol:	234	378	31	486	1721	364	241	1389	206	96	847	198
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	234	378	31	486	1721	364	241	1389	206	96	847	198
Added Vol:	3	32	0	15	27	63	73	31	4	0	32	14
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	237	410	31	501	1748	427	314	1420	210	96	879	212
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	237	410	31	501	1748	427	314	1420	210	96	879	212
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	237	410	31	501	1748	427	314	1420	210	96	879	212
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	237	410	31	501	1748	427	314	1420	210	96	879	212
Saturation F	low Mo	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	0.99	0.95	0.83	1.00	0.92	0.83	0.99	0.95	0.92	1.00	0.92
Lanes:	2.00	2.78	0.22	2.00	3.00	1.00	2.00	2.60	0.40	1.00	3.00	1.00
Final Sat.:			394		5700	1750		4878	721		5700	1750
	1											
Capacity Anal												
Vol/Sat:		0.08	0.08	0.16	0.31	0.24	0.10	0.29	0.29		0.15	0.12
Crit Moves:	****				****			****		****		
Green Time:		25.7	25.7		62.4	90.0		59.2	59.2		42.7	94.7
Volume/Cap:	0.79	0.49	0.49		0.79	0.43	0.58	0.79	0.79	0.79	0.58	0.20
Delay/Veh:	83.6	61.6	61.6	43.8	44.9	20.6	62.4	46.9	46.9	101.2	51.4	15.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			61.6	43.8	44.9	20.6	62.4	46.9	46.9	101.2	51.4	15.3
LOS by Move:	F	E	E	D	D	C+	E	D	D	F	D-	В
HCM2k95thQ:	405	333	333	531	1066	570	388	991	991	262	546	245
Note: Queue	report	ted is	the d	istand	ce per	lane	in fe	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG PM

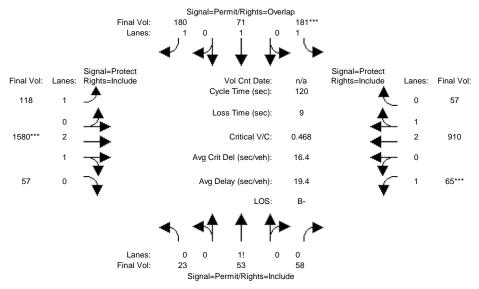
# Intersection #4: S. Sunnyvale Avenue / El Camino Real



Street Name:		S. S	unnvva	le Ave	enue			E	l Cami	no Rea	al	
Approach:	No	rth Bo	und	Soi	ath Bo	und	Ea	ast Bo	und		est Bo	und
Movement:		- T			- T			- T			- T	
Min. Green:		10			10	10		10			10	10
Y+R:	4.0					4.0		4.0		4.0	4.0	4.0
Volume Module			1	ı		'	I		ı	ı		I
Base Vol:	139	231	74	189	251	56	159	1441	118	162	790	70
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:		231	74	189	251	56	159	1441	118	162	790	70
Added Vol:	0	8	0	8	10	6	8	38	0	2	41	7
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	139	239	74	197	261	62	167	1479	118	164	831	77
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	139	239	74	197	261	62	167	1479	118	164	831	77
	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:			74	197	261	62	167	1479	118	164	831	77
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	139	239	74	197	261	62	167	1479	118	164	831	77
Saturation F	low M	odule:					•					'
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	0.98	0.95	0.83	0.99	0.95	0.92	0.99	0.95
Lanes:	1.00	2.00	1.00	2.00	1.61	0.39	2.00	2.77	0.23	1.00	2.74	0.26
Final Sat.:	1750	3800	1750	3150	2989	710	3150	5186	414	1750	5124	475
Capacity Ana							•					
Vol/Sat:	0.08	0.06	0.04	0.06	0.09	0.09	0.05	0.29	0.29	0.09	0.16	0.16
Crit Moves:	****				****			****		****		
Green Time:	15.7	18.9	37.4	14.1	17.3	17.3	19.8	56.4	56.4	18.5	55.2	55.2
Volume/Cap:	0.61	0.40	0.14	0.53	0.61	0.61	0.32	0.61	0.61	0.61	0.35	0.35
Delay/Veh:	53.8	45.9	29.8	51.3	50.2	50.2	44.5	24.0	24.0	51.2	21.0	21.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	53.8	45.9	29.8	51.3	50.2	50.2	44.5	24.0	24.0	51.2	21.0	21.0
LOS by Move:	D-	D	C	D-	D	D	D	C	C	D-	C+	C+
HCM2k95thQ:	295	209	106	234	315	315	153	621	621	294	334	334
Note: Queue	repor	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG PM

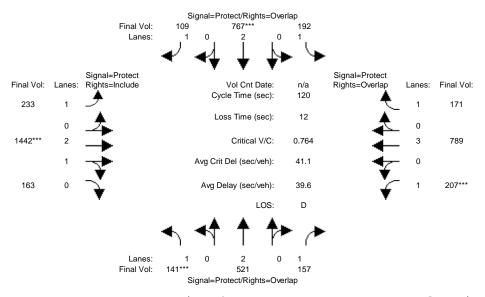
# Intersection #5: Cezanne Drive / El Camino Real



Street Name: Approach:		Co rth Bo	ezanne und	Drive Sou	e uth Bo	und	Ea	E ast Bo	l Cami		al est Bo	und
Movement:	L ·	- T	- R	L ·	- T	- R	L ·	- T	- R	L ·	- T	- R
		10			10			10			10	
Y+R:	4.0	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0
Volume Module	'			1		1	I		ı	I		ı
Base Vol:	23	53	58	181	71	180	118	1533	57	65	860	53
Growth Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:		53	58	181	71	180	118	1533	57	65	860	53
Added Vol:	0	0	0	0	0	0	0	47	0	0	50	4
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	53	58	181	71	180	118	1580	57	65	910	57
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	23	53	58	181	71	180	118	1580	57	65	910	57
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	53	58	181	71	180	118	1580	57	65	910	57
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	23	53	58	181	71	180		1580	57	65	910	57
Saturation F	low Mo	odule:				·	•					·
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.92	0.92	0.92	1.00	0.92	0.92	0.98	0.95	0.92	0.98	0.95
Lanes:	0.17	0.40	0.43	1.00	1.00	1.00	1.00	2.89	0.11	1.00	2.82	0.18
Final Sat.:			757		1900	1750		5405	195		5269	330
	1											
Capacity Anal	_											
Vol/Sat:	0.08	0.08	0.08		0.04	0.10	0.07	0.29	0.29		0.17	0.17
Crit Moves:				****				****		****		
Green Time:	26.5	26.5	26.5	26.5	26.5	50.2	23.7	75.0	75.0	9.5	60.8	60.8
Volume/Cap:	0.35	0.35	0.35	0.47	0.17	0.25	0.34	0.47	0.47	0.47	0.34	0.34
Delay/Veh:	40.0	40.0	40.0	41.5	38.0	22.8	42.0	12.0	12.0	55.3	17.7	17.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	40.0	40.0	40.0	41.5	38.0	22.8	42.0	12.0	12.0	55.3	17.7	17.7
LOS by Move:	D	D	D	D	D+	C+	D	В	В	E+	В	В
HCM2k95thQ:	227	227	227	314	108	223	191	479	479	154	335	335
Note: Queue	report	ted is	the d	istan	ce per	lane	in fe	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG PM

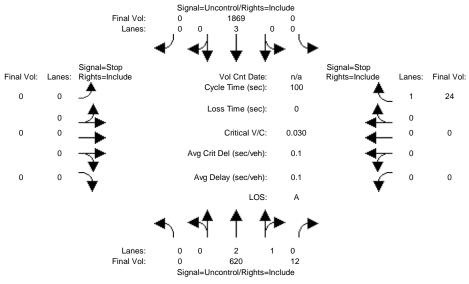
# Intersection #6: S. Fair Oaks Avenue / El Camino Real



Street Name:		S. F	air Oa	ks Ave	enue			E	l Cami	no Rea	al	
Approach:	No	rth Bo	und	Soi	ath Bo	und	Εá	ast Bo	und	W∈	est Bo	und
Movement:		- T		L -	- T	- R	L -	- T	- R		- T	
Min. Green:		10			10			10	10	7	10	10
Y+R:	4.0					4.0		4.0	4.0	4.0		4.0
M-d-1												
Volume Module Base Vol:		521	157	173	764	99	215	1414	160	207	760	171
									163			
Growth Adj:			1.00		1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:			157	173	764	99		1414	163	207	760	171
	4		0	19	3	10	18	28	0	0	29	0
PasserByVol:			0	0	0	0	0	0	0	0	0	0
Initial Fut:			157	192	767	109		1442	163	207	789	171
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
_	1.00		1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	141	521	157	192	767	109	233	1442	163	207	789	171
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	141	521	157	192	767	109	233	1442	163	207	789	171
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			157	192	767	109	233	1442	163	207	789	171
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900	1900		1900
Adjustment:		1.00	0.92		1.00	0.92		0.99	0.95	0.92		0.92
Lanes:		2.00	1.00		2.00	1.00		2.68	0.32	1.00		1.00
Final Sat.:			1750		3800	1750		5031	569	1750		1750
Canadita Ana	1											
Capacity Ana	_			0 11	0 00	0 00	0 10	0 00	0 00	0 10	0 14	0 10
Vol/Sat: Crit Moves:	****	0.14	0.09	0.11	0.20	0.06	0.13	0.29	0.29	U.⊥∠ ****	0.14	0.10
Green Time:		24.6	43.2	10 7	31.7	62.9	21 2	45.0	45.0		32.4	52.2
												0.22
Volume/Cap:		0.67	0.25		0.76	0.12		0.76	0.76	0.76		
Delay/Veh:		46.1	27.2		44.2	14.5		34.5	34.5		37.4	21.4
User DelAdj:			1.00		1.00	1.00		1.00	1.00	1.00		1.00
AdjDel/Veh:		46.1	27.2		44.2	14.5		34.5	34.5		37.4	21.4
LOS by Move:		D	С	D-	D	В	D+	C-	C-	E	D+	C+
HCM2k95thQ:	346		213	389	641	109	364	761	761	448	396	206
Note: Queue	repor	ted is	the d	ıstano	ce per	lane	ın fe	et.				

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG PM

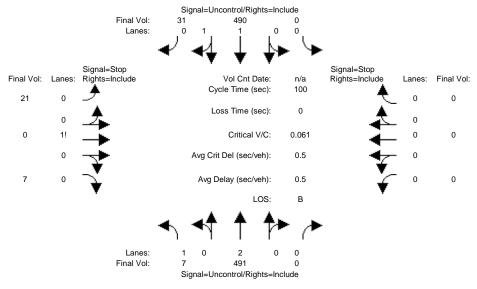
# Intersection #7: S Mathilda Ave / Southwest Project Driveway



C+		<i>a</i> ,	# - L l - L l l .	J - 7			a	<del> </del>	<del></del> D	D		
Street Name:			Mathilo			and			estPro:			-
Approach: Movement:		rth Bo	- R			ound – R			- R		est Bo - T	
movement:				. ــــاا		- K						
Volume Module												
Base Vol:	0	585	12	0	1837	0	0	0	0	0	0	24
Growth Adj:	-	1.00	1.00	-	1.00	1.00	-	1.00	1.00	-	1.00	1.00
Initial Bse:	0		12		1837	0	0	0	0	0	0	24
Added Vol:	0		0	0	32	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:		620	12	0	1869	0	0	0	0	0	0	24
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Volume:	0	620	12	0	1869	0	0	0	0	0	0	24
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	620	12	0	1869	0	0	0	0	0	0	24
Critical Gap	Modu	le:										
Critical Gp:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9
FollowUpTim:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	3.3
Capacity Mod	ule:											
Cnflict Vol:	XXXX	XXXX	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	XXXXX	XXXX	XXXX	213
Potent Cap.:	XXXX	XXXX	XXXXX	XXXX	xxxx	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	799
Move Cap.:								XXXX	XXXXX	XXXX	XXXX	799
Volume/Cap:						XXXX			XXXX		XXXX	
Level Of Ser												
2Way95thQ:									XXXXX			2.3
Control Del:				xxxxx *		xxxxx *	xxxxx *		xxxxx *	xxxxx *	XXXX	9.6
LOS by Move:		*	*									A
Movement:			- RT						- RT		- LTR	
Shared Cap.:												XXXXX
SharedQueue:												
Shrd ConDel:	XXXXX *	xxxx *	xxxxx *	xxxxx *		xxxxx *	xxxxx *	XXXX *	xxxxx	xxxxx *	XXXX	XXXXX *
Shared LOS:			^			^			^	^		^
ApproachDel:	X	XXXXX *		X	XXXXX *		X	XXXXX *			9.6	
ApproachLOS:			- +bo	4.a+a		. ]	in fo				A	
Note: Queue	rebor		s tne d eak Hou						r+			
*****	****					-		_		*****	****	*****
Intersection	#7 S	Math	ilda Av	ve / So	outhwe	est Pro	oject 1	Drive	way			

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG PM

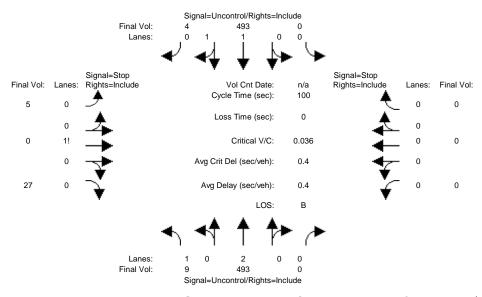
# Intersection #8: Sunnyvale-Saratoga Road / East Project Driveway



Street Name:		_	vale-Sa	_					_	ct Driv	_	al
Approach:	L -	rth Bo - T	ouna - R			ound - R	L ·		ouna - R	w∈ L -	est Bo - T	ouna - R
Movement:	_	_										==
Volume Module												
Base Vol:	7	483	0	0	478	31	21	0	7	0	0	0
Growth Adj:		1.00	1.00	-	1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:	7	483	0	0	478	31	21	0	7	0	0	0
Added Vol:	0	8	0	0	12	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0		0	0	0	0	0	0	0
Initial Fut:	7	491	0	0	490	31	21	0	7	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	7	491	0	0	490	31	21	0	7	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	7	491	0	0	490	31	21	0	7	0	0	0
Critical Gap	Modu!	le:										·
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.8	6.5	6.9	xxxxx	xxxx	xxxxx
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	xxxxx	xxxx	xxxxx
Capacity Modu	ıle:											
Cnflict Vol:	521	xxxx	xxxxx	xxxx	xxxx	xxxxx	765	1011	261	XXXX	xxxx	xxxxx
Potent Cap.:	1056	xxxx	xxxxx	XXXX	xxxx	xxxxx	344	242	744	XXXX	xxxx	XXXXX
Move Cap.:	1056	xxxx	xxxxx	XXXX	xxxx	xxxxx	342	240	744	XXXX	xxxx	XXXXX
Volume/Cap:	0.01	xxxx	XXXX	XXXX	xxxx	XXXX	0.06	0.00	0.01	XXXX	xxxx	XXXX
Level Of Serv	ice N	Module	<b>∋</b> :									
2Way95thQ:	0.5	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	XXXXX
Control Del:	8.4									XXXXX		XXXXX
LOS by Move:	Α	*	*	*	*	*	*	*	*	*	*	*
Movement:	LT -	- LTR	- RT	LT ·	- LTR	- RT	LT ·		- RT		- LTR	- RT
Shared Cap.:									XXXXX			XXXXX
SharedQueue:										XXXXX		
Shrd ConDel:3												XXXXX
Shared LOS:	*	*	*	*	*	*	*	В	*	*	*	*
ApproachDel:	X	xxxxx		X	xxxxx			14.8		XX	xxxx	
ApproachLOS:		*			*			В			*	
Note: Queue 1	report											
*****	****		eak Hou		-	_		-		*****		******
Intersection		_		_			_		-		****	*****

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG PM

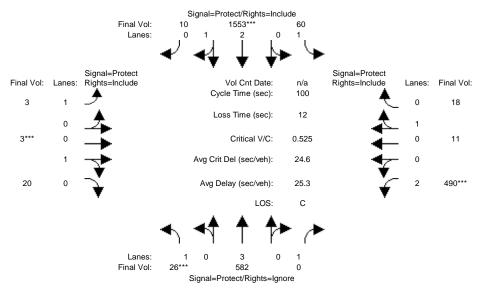
# Intersection #9: Sunnyvale-Saratoga Road / Southeast Project Driveway



Street Name:			vale-Sa							oject I	rivev	way
Approach:			ound					ast Bo		We	est Bo	ound
Movement:			- R			- R			- R		- T	- R
Volume Modul	e:											
Base Vol:	9	485	0	0	481	4	5	0	27	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	9	485	0	0	481	4	5	0	27	0	0	0
Added Vol:	0	8	0	0	12	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	9	493	0	0	493	4	5	0	27	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	9	493	0	0	493	4	5	0	27	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	9	493	0	0	493	4	5	0	27	0	0	0
Critical Gap	1			1 1			1 1			1 1		1
Critical Gp:			xxxxx	xxxxx	xxxx	xxxxx	6.8	6.5	6.9	xxxxx	xxxx	xxxxx
FollowUpTim:										XXXXX		
Capacity Mod	1			1 1			1 1			1 1		I
Cnflict Vol:		vvvv	xxxxx	vvvv	vvvv	vvvvv	760	1006	249	vvvv	vvvv	xxxxx
Potent Cap.:									758			XXXXX
Move Cap.:									758			XXXXX
Volume/Cap:			XXXX			XXXX		0.00	0.04			XXXX
Level Of Ser												I
2Way95thO:				vvvv	vvvv	vvvvv	vvvv	vvvv	vvvvv	vvvv	vvvv	vvvvv
Control Del:										XXXXX		
LOS by Move:			*	*	*	*	*		*	*	*	*
Movement:			- RT								- LTR	יים
Shared Cap.: SharedOueue:										XXXXX		XXXXX
Shrd ConDel:												
					xxxx *	*	xxxxx *		*	*		xxxxx *
Shared LOS:			•			•	•	ם	•			
ApproachDel:	X	XXXXX *		X	XXXXX *			10.9 B		XX	XXXXX	
ApproachLOS:			. 1.			,		_			^	
Note: Queue	repor											
******			eak Hou							التعاريات الماريات الماريات	الساسيان باسيا	
Intersection ******											****	*****

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG PM

# Intersection #10: S Mathilda Ave - Sunnyvale-Saratoga Rd / Talisman Dr - Sunnvyale-Saratoga Rd

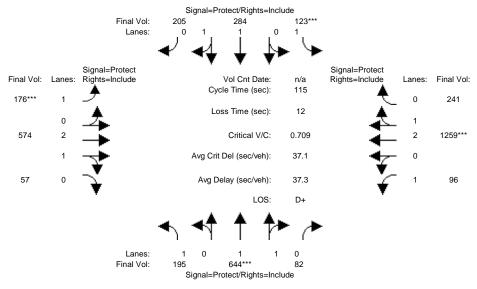


	No	rth Bo	ound	Sou				man Dr ast Bo		-	e-Sara est Bo	_
Movement:	L ·	- T	- R	L -		- R		- T			- T	
		10			10		7				10	10
Y+R:	4.0				4.0		4.0		4.0	4.0	4.0	4.0
Volume Module	•											
Base Vol:	26	547	553	60	1521	10	3	3	20	478	11	18
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	26	547	553	60	1521	10	3	3	20	478	11	18
Added Vol:	0	35	8	0	32	0	0	0	0	12	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	26	582	561	60	1553	10	3	3	20	490	11	18
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	26	582	0	60	1553	10	3	3	20	490	11	18
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	26	582	0	60	1553	10	3	3	20	490	11	18
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	26	582	0	60	1553	10	3	3	20	490	11	18
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900	1900		1900
Adjustment:			0.92		0.98	0.95		0.95	0.95		0.95	0.95
Lanes:		3.00	1.00		2.98	0.02		0.13	0.87		0.38	0.62
Final Sat.:			1750		5564	36	1750		1565 	3150	683	1117 
Capacity Anal	ı											
Vol/Sat:	-	0.10	0.00	0.03	0.28	0.28	0.00	0.01	0.01	0.16	0.02	0.02
Crit Moves:	****				****			****		****		
	7.0	31.2	0.0	21.4	45.6	45.6	14.6	10.0	10.0	25.4	20.8	20.8
Volume/Cap:	0.21	0.33	0.00	0.16	0.61	0.61		0.13	0.13	0.61	0.08	0.08
Delay/Veh:		26.5	0.0		21.0	21.0		41.3	41.3		31.9	31.9
User DelAdj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:			0.0		21.0	21.0		41.3	41.3		31.9	31.9
LOS by Move:		C	A	C-	C+	C+	D+	D	D	C-	C	C
HCM2k95thO:	41		0	85	568	568	- 5	39	39	408	40	40
Note: Queue												- 3

# Existing Plus Background Plus Project Traffic Conditions

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P AM

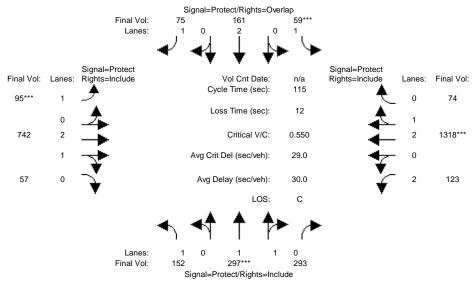
# Intersection #1: S Mary Ave / El Camino Real



Street Name: Approach:		rth Bo		y Ave	ı+h Po	und	T.	E	l Cami		al est Bo	und
Movement:		- Т		J	лсіі во - Т	- P	Т	авс вс - Т	- R		- T	
Min. Green:		10		7						7		10
Y+R:	4.0			4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Modul	e:											·
Base Vol:	195	639	73	96	278	184	153	494	57	89	1169	212
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	195	639	73	96	278	184	153	494	57	89	1169	212
Added Vol:			9	27	6	21	23	80	0	7	90	29
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	195	644	82	123	284	205	176	574	57	96	1259	241
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	195	644	82	123	284	205	176	574	57	96	1259	241
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	195	644	82	123	284	205	176	574	57	96	1259	241
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	195	644	82	123	284	205	176	574	57		1259	241
Saturation F	low M	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.98	0.95	0.92	0.99	0.95	0.92	0.99	0.95	0.92	0.99	0.95
Lanes:	1.00	1.77	0.23	1.00	1.14	0.86	1.00	2.72	0.28	1.00	2.50	0.50
Final Sat.:	1750	3282	418	1750	2148	1550	1750	5093	506	1750	4699	900
Capacity Ana	lysis	Modul	e:									
Vol/Sat:	0.11	0.20	0.20	0.07	0.13	0.13	0.10	0.11	0.11	0.05	0.27	0.27
Crit Moves:		****		****			* * * *				****	
Green Time:	19.8	31.8	31.8	11.4	23.5	23.5	16.3	38.8	38.8	21.0	43.5	43.5
Volume/Cap:	0.65	0.71	0.71	0.71	0.65	0.65	0.71	0.33	0.33	0.30	0.71	0.71
Delay/Veh:	49.3	39.7	39.7	62.9	44.0	44.0	56.2	28.6	28.6	41.2	31.5	31.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	49.3	39.7	39.7	62.9	44.0	44.0	56.2	28.6	28.6	41.2	31.5	31.5
LOS by Move:		D	D	E	D	D	E+	C	C	D	C	C
HCM2k95thQ:	375	578	578	291	421	421	370	272	272	152	663	663
Note: Queue	repor	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P AM

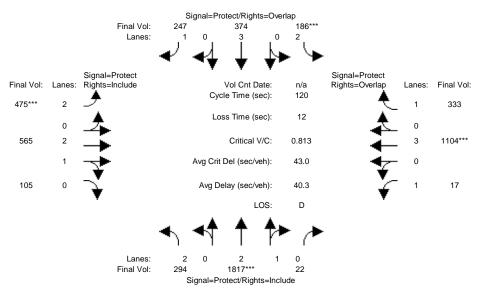
# Intersection #2: S Pastoria Avenue / El Camino Real



Street Name: Approach:	No	S Pa	astori: und	a Aver	nue uth Bo	und	Ea	E ast Bo	l Cami	no Rea	al est Bo	und
Movement:	L ·	- T ·	– R	L -	- T	– R	L -	- T	– R	ь.	- T	- R
	7	10	10	7	10	10	7	10	10	7	10	
Y+R:		4.0			4.0				4.0		4.0	4.0
Volume Module			1	I		'	ļ			ı		
Base Vol:	151	297	291	47	161	68	88	634	55	119	1200	61
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	151	297	291	47	161	68	88	634	55	119	1200	61
Added Vol:			2	12	0	7	7	108	2	4	118	13
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	152	297	293	59	161	75	95	742	57	123	1318	74
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:			293	59	161	75	95	742	57	123	1318	74
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	152	297	293	59	161	75	95	742	57	123	1318	74
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			293		161		95		57		1318	74
	1											
Saturation F.			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Sat/Lane:		1900	1900	1900		1900		1900	1900		1900	1900
Adjustment:			0.95	0.92		0.92		0.99	0.95		0.98	0.95
Lanes:			1.00	1.00		1.00		2.78	0.22		2.83	0.17
Final Sat.:			1800	1750		1750		5200	399 		5302	298
Capacity Anal	I											
Vol/Sat:	-		0.16	0.03	0.04	0.04	0.05	0.14	0.14	0.04	0.25	0.25
Crit Moves:		***		***			***				***	
Green Time:		32.7	32.7	7.0	19.9	31.2	11.3	44.4	44.4	18.9	51.9	51.9
Volume/Cap:	0.50	0.55	0.57	0.55		0.16		0.37	0.37		0.55	0.55
Delay/Veh:			36.0	58.4		32.0		25.4	25.4		23.3	23.3
User DelAdj:			1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	44.5	35.5	36.0	58.4	41.3	32.0	53.2	25.4	25.4	42.0	23.3	23.3
LOS by Move:			D+	E+		C-	D-	C	C	D	C	C
HCM2k95th0:			450	153	128	110	173	315	315	108	_	520
Note: Queue												
~	-				-							

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P AM

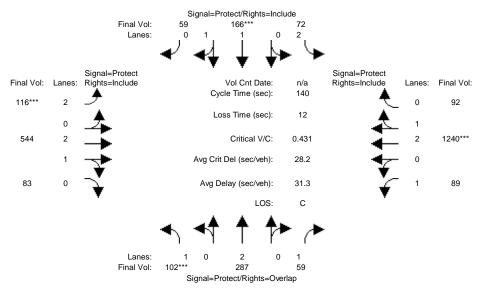
# Intersection #3: S. Mathilda Avenue / El Camino Real



Street Name: Approach:			Mathil und	da Ave	enue uth Bo	und	Ea	E ast Bo	l Cami		al est Bo	und
Movement:	L ·	- T	- R	L -	- T	- R	L ·	- T	- R	L ·	- T	- R
	7	10	10	. 7	10	10	7	10	10		10	
Y+R:	4.0				4.0			4.0			4.0	4.0
Volume Module												
Base Vol:	285	1794	22	170	340	170	418	510	96	17	1054	317
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	285	1794	22	170	340	170	418	510	96	17	1054	317
Added Vol:	9	23	0	16	34	77	57	55	9	0	50	16
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	294	1817	22	186	374	247	475	565	105	17	1104	333
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	294	1817	22	186	374	247	475	565	105	17	1104	333
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	294	1817	22	186	374	247	475	565	105	17	1104	333
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			22			247	475		105		1104	333
Saturation F	low Mo	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	0.98	0.95	0.83	1.00	0.92	0.83	0.99	0.95	0.92	1.00	0.92
Lanes:	2.00	2.96	0.04	2.00	3.00	1.00	2.00	2.51	0.49	1.00	3.00	1.00
Final Sat.:			67		5700	1750		4721	877		5700	1750
	1											
Capacity Ana	-											
Vol/Sat:		0.33	0.33		0.07	0.14		0.12	0.12	0.01	0.19	0.19
Crit Moves:		****		****			****				****	
		48.5	48.5		27.0	49.2		34.2	34.2		28.6	37.3
Volume/Cap:	0.37	0.81	0.81	0.81	0.29	0.34	0.81	0.42	0.42	0.07	0.81	0.61
Delay/Veh:	37.4	34.1	34.1	74.3	38.7	24.6	55.4	35.0	35.0	45.1	47.1	37.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	37.4	34.1	34.1	74.3	38.7	24.6	55.4	35.0	35.0	45.1	47.1	37.3
LOS by Move:	D+	C-	C-	E	D+	С	E+	D+	D+	D	D	D+
HCM2k95thQ:	265	925	925	296	191	319	489	313	313	29	595	506
Note: Queue	report	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P AM

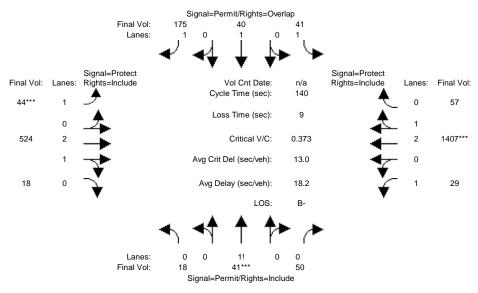
# Intersection #4: S. Sunnyvale Avenue / El Camino Real



Movement:   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   Min. Green:	Street Name: Approach:	No	rth Bo	und			und	Ea		l Cami: und		al est Bo	und
Min. Green: 7 10 10 7 10 10 7 10 10 7 10 10 7 10 10 7 10 10 Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Movement:	L.	- T	- R									
Volume Module:  Base Vol: 98 276 57 66 155 49 107 487 77 84 1189 84 Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0													
Volume Module: Base Vol: 98 276 57 66 155 49 107 487 77 84 1189 84 Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0													
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0													
Initial Bse:	Base Vol:	98	276	57	66	155	49	107	487	77	84	1189	84
Added Vol: 4 11 2 6 11 10 9 57 6 5 51 8 PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Initial Bse:			57	66	155	49	107	487	77	84	1189	84
Initial Fut: 102 287 59 72 166 59 116 544 83 89 1240 92  User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0				2	6	11		9		6	5	51	8
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Fut:	102	287	59	72	166	59	116	544	83	89	1240	92
PHF Volume: 102 287 59 72 166 59 116 544 83 89 1240 92 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Reduced Vol: 102 287 59 72 166 59 116 544 83 89 1240 92 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Reduced Vol: 102 287 59 72 166 59 116 544 83 89 1240 92 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PHF Volume:	102	287	59		166	59	116	544	83	89	1240	92
PCE Adj:       1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduced Vol:	102	287	59	72	166	59	116	544	83	89	1240	92
FinalVolume: 102 287 59 72 166 59 116 544 83 89 1240 92	PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Saturation Flow Module:  Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190	FinalVolume:	102	287	59	72	166	59	116	544	83	89	1240	92
Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190													
Adjustment: 0.92 1.00 0.92 0.83 0.98 0.95 0.83 0.99 0.95 0.92 0.99 0.95 Lanes: 1.00 2.00 1.00 2.00 1.46 0.54 2.00 2.59 0.41 1.00 2.79 0.21 Final Sat.: 1750 3800 1750 3150 2729 970 3150 4858 741 1750 5213 387				1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Lanes: 1.00 2.00 1.00 2.00 1.46 0.54 2.00 2.59 0.41 1.00 2.79 0.21 Final Sat.: 1750 3800 1750 3150 2729 970 3150 4858 741 1750 5213 387													
Final Sat.: 1750 3800 1750 3150 2729 970 3150 4858 741 1750 5213 387	-												
Capacity Analysis Module:  Vol/Sat: 0.06 0.08 0.03 0.02 0.06 0.06 0.04 0.11 0.11 0.05 0.24 0.24 Crit Moves: ****													
Crit Moves: ****													
Green Time: 18.9 23.3 51.2 15.4 19.8 19.8 12.0 61.4 61.4 27.9 77.3 77.3 Volume/Cap: 0.43 0.45 0.09 0.21 0.43 0.43 0.43 0.26 0.26 0.26 0.43 0.43 Delay/Veh: 56.8 53.1 29.2 57.0 55.5 55.5 61.9 24.9 24.9 47.7 18.5 18.5 User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Vol/Sat:	0.06	0.08	0.03	0.02	0.06	0.06	0.04	0.11	0.11	0.05	0.24	0.24
Volume/Cap: 0.43 0.45 0.09 0.21 0.43 0.43 0.43 0.26 0.26 0.26 0.43 0.43 Delay/Veh: 56.8 53.1 29.2 57.0 55.5 55.5 61.9 24.9 24.9 47.7 18.5 18.5 User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Crit Moves:	****				****		****				****	
Delay/Veh: 56.8 53.1 29.2 57.0 55.5 55.5 61.9 24.9 24.9 47.7 18.5 18.5 User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Green Time:	18.9	23.3	51.2	15.4	19.8	19.8	12.0	61.4	61.4	27.9	77.3	77.3
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Volume/Cap:	0.43	0.45	0.09	0.21	0.43	0.43	0.43	0.26	0.26	0.26	0.43	0.43
AdjDel/Veh: 56.8 53.1 29.2 57.0 55.5 55.5 61.9 24.9 24.9 47.7 18.5 18.5	Delay/Veh:	56.8	53.1	29.2	57.0	55.5	55.5	61.9	24.9	24.9	47.7	18.5	18.5
	User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	AdjDel/Veh:	56.8	53.1	29.2	57.0	55.5	55.5	61.9	24.9	24.9	47.7	18.5	18.5
LOS by Move: E+ D- C E+ E+ E+ E C C D B- B-	LOS by Move:	E+	D-	С	E+	E+	E+	E	С	C	D	B-	B-
HCM2k95thQ: 230 282 89 92 237 237 140 266 266 166 501 501	HCM2k95thQ:	230	282	89	92	237	237	140	266	266	166	501	501
Note: Queue reported is the distance per lane in feet.	Note: Queue	report	ted is	the d	istand	ce per	lane	in fe	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P AM

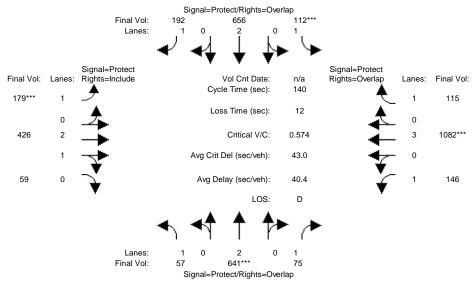
# Intersection #5: Cezanne Drive / El Camino Real



Movement: L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R		No	rth Bo		Soi	ıth Bo	und_		ast Bo		We	est Bo	
Min. Green: 10 10 10 10 10 10 7 10 10 7 10 10 Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Movement:	L.	- T	- R	Ь-	- T	– R	ь.	- T	- R			
Y+R:       4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0													
Volume Module:  Base Vol: 18 41 50 41 40 175 44 459 18 29 1343 53  Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0													
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0													
Initial Bse: 18 41 50 41 40 175 44 459 18 29 1343 53 Added Vol: 0 0 0 0 0 0 0 65 0 0 64 4 PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1343 57 18 18 18 18 18 18 18 18 18 18 18 18 18	Base Vol:	18	41	50	41	40	175	44	459	18	29	1343	53
Added Vol: 0 0 0 0 0 0 0 65 0 0 64 4 PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0 Initial Fut: 18 41 50 41 40 175 44 524 18 29 1407 57	Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	Initial Bse:	18	41	50	41	40	175	44	459	18	29	1343	53
Initial Fut: 18 41 50 41 40 175 44 524 18 29 1407 57	Added Vol:	0	0	0	0	0	0	0	65	0	0	64	4
	PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
	Initial Fut:	18	41	50	41	40	175	44	524	18	29	1407	57
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume: 18 41 50 41 40 175 44 524 18 29 1407 57	PHF Volume:	18	41	50	41	40	175	44	524	18	29	1407	57
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0	Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol: 18 41 50 41 40 175 44 524 18 29 1407 57	Reduced Vol:	18	41	50	41	40	175	44	524	18	29	1407	57
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume: 18 41 50 41 40 175 44 524 18 29 1407 57	FinalVolume:	18	41	50	41	40	175	44	524	18	29	1407	57
Saturation Flow Module:													
Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190													
Adjustment: 0.92 0.92 0.92 0.92 1.00 0.92 0.92 0.98 0.95 0.92 0.98 0.95	_												
Lanes: 0.16 0.38 0.46 1.00 1.00 1.00 2.90 0.10 1.00 2.88 0.12													
Final Sat.: 289 658 803 1750 1900 1750 1750 5414 186 1750 5382 218													
Vol/Sat: 0.06 0.06 0.06 0.02 0.02 0.10 0.03 0.10 0.10 0.02 0.26 0.26		-			0 02	0 02	0 10	0 03	0 10	0 10	0 02	0 26	0 26
Crit Moves: **** **** ****				0.00	0.02	0.02	0.10			0.10	0.02		0.20
Green Time: 23.4 23.4 23.4 23.4 23.4 32.8 9.4 71.0 71.0 36.7 98.2 98.2				23.4	23.4	23.4	32.8	9.4	71.0	71.0	36.7	98.2	98.2
Volume/Cap: 0.37 0.37 0.37 0.14 0.13 0.43 0.37 0.19 0.19 0.06 0.37 0.37	Volume/Cap:	0.37	0.37	0.37	0.14	0.13	0.43	0.37	0.19		0.06	0.37	0.37
Delay/Veh: 52.6 52.6 52.6 50.0 49.8 46.3 64.4 18.9 18.9 38.8 8.5 8.5	Delay/Veh:	52.6	52.6	52.6	50.0	49.8	46.3	64.4	18.9	18.9	38.8	8.5	8.5
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh: 52.6 52.6 52.6 50.0 49.8 46.3 64.4 18.9 18.9 38.8 8.5 8.5	_			52.6	50.0	49.8	46.3	64.4	18.9	18.9	38.8	8.5	
LOS by Move: D- D- D- D D E B- B- D+ A A	LOS by Move:	D-	D-	D-	D	D	D	E	B-	B-	D+	A	A
HCM2k95thQ: 229 229 229 84 75 334 98 203 203 51 394 394	HCM2k95thQ:	229	229	229	84	75	334	98	203	203	51	394	394
Note: Queue reported is the distance per lane in feet.	Note: Queue	report	ted is	the d	istan	ce per	lane	in fe	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P AM

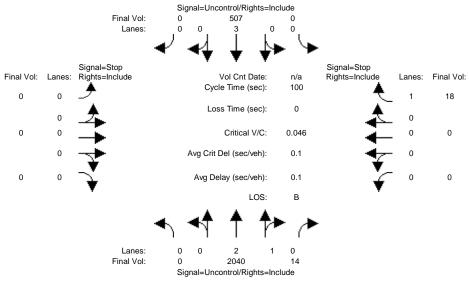
# Intersection #6: S. Fair Oaks Avenue / El Camino Real



Street Name: Approach:	No	S. Fa	air Oa	ks Ave	enue	und	E	E ast Bo	l Cami:	no Rea	al est Bo	und
Movement:	L ·	- T	- R	L -	- T ·	- R	L -	- T	- R	L -	- T	- R
	7	10	10	7	10			10			10	
Y+R:	4.0	4.0	4.0	4.0	4.0				4.0		4.0	4.0
Volume Module			I				1			1		
Base Vol:	50	641	75	93	653	181	144	396	59	146	1032	115
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	50	641	75	93	653	181	144	396	59	146	1032	115
Added Vol:	7	0	0	19	3	11	35	30	0	0	50	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	57	641	75	112	656	192	179	426	59	146	1082	115
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:			75	112	656	192	179	426	59	146	1082	115
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	57	641	75	112	656	192	179	426	59	146	1082	115
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	57	641	75		656	192		426	59		1082	115
Saturation F	ı											
Saturation F. Sat/Lane:		1900	1900	1000	1900	1900	1000	1900	1900	1000	1900	1900
Adjustment:			0.92			0.92		0.99	0.95		1.00	0.92
Lanes:			1.00	1.00		1.00		2.62	0.38		3.00	1.00
Final Sat.:			1750			1750		4918	681		5700	1750
Capacity Anal	I			1			1		1	ı		ı
Vol/Sat:	-		0.04	0.06	0.17	0.11	0.10	0.09	0.09	0.08	0.19	0.07
Crit Moves:				***			****				***	
	12.7		76.1	15.6	44.0	69.0	24.9	36.3	36.3	35.0	46.3	61.9
Volume/Cap:			0.08	0.57		0.22		0.33	0.33		0.57	0.15
Delay/Veh:			15.3	63.2		20.4		42.2	42.2		39.1	23.4
User DelAdj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:			15.3	63.2		20.4		42.2	42.2		39.1	23.4
LOS by Move:				E E		C+	E+	D	D	13.5 D	D	23.1 C
HCM2k95thO:			82	276	532	240	356		266	269		154
Note: Queue									200		5.5	
,	-F				- 1- 32							

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG + P AM

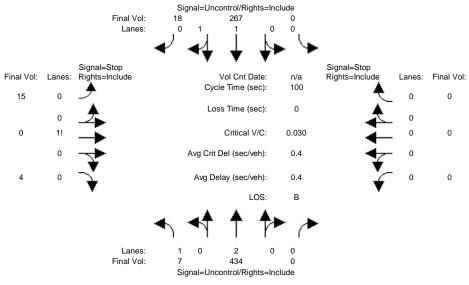
# Intersection #7: S Mathilda Ave / Southwest Project Driveway



			•									
Street Name:		SI	Mathilo	da Aver	nue		S	outhwe	estPro	ject Dı	rivewa	эy
Approach:	No	rth Bo	ound			ound	Εa	ast Bo	ound	We	est Bo	ound
Movement:			- R			- R			- R		- T	
Volume Modul	e:											
Base Vol:	-	2009	13	0		0	0	0	0	0	0	17
Growth Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:		2009	13	0	464	0	0	0	0	0	0	17
Added Vol:	0	31	0	0	43	0	0	0	0	0	0	1
PasserByVol:	0		1	0	0	0	0	0	0	0	0	0
Initial Fut:		2040	14	0	507	0	0	0	0	0	0	18
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:		2040	14	0	507	0	0	0	0	0	0	18
Reduct Vol:	0		0	0	0	0	0	0	0	0	0	0
FinalVolume:	-	2040	14	0	507	0	0	0	0	0	0	18
	1											
Critical Gap												
Critical Gp:												6.9
FollowUpTim:												3.3
Capacity Mod												
Cnflict Vol:	xxxx								xxxxx		xxxx	687
Cnflict Vol: Potent Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	394
Cnflict Vol: Potent Cap.: Move Cap.:	xxxx xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx xxxx	xxxxx	xxxx	xxxx xxxx	394 394
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap:	xxxx xxxx xxxx	xxxx xxxx	xxxxx xxxxx	xxxx xxxx	xxxx xxxx	xxxxx xxxxx	xxxx xxxx	xxxx xxxx	xxxxx xxxxx xxxx	xxxx xxxx	xxxx xxxx	394 394 0.05
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap:	xxxx xxxx xxxx 	xxxx xxxx xxxx	xxxxx xxxxx	xxxx xxxx	xxxx xxxx	xxxxx xxxxx	xxxx xxxx	xxxx xxxx	xxxxx	xxxx xxxx	xxxx xxxx	394 394
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap: Level Of Service	xxxx xxxx xxxx xxxx 	xxxx xxxx xxxx Module	xxxxx xxxx xxxx	xxxx xxxx 	xxxx xxxx xxxx	xxxxx xxxx xxxx	xxxx xxxx 	xxxx xxxx xxxx	xxxxx xxxxx	xxxx xxxx 	xxxx xxxx	394 394 0.05
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap: Level Of Ser. 2Way95thQ:	xxxx xxxx xxxx xxxx  vice I	xxxx xxxx xxxx  Module xxxx	xxxxx xxxx xxxx ::	xxxx xxxx 	xxxx xxxx xxxx	xxxxx xxxx xxxx	xxxx xxxx 	xxxx xxxx xxxx	xxxxx xxxx xxxx	xxxx xxxx 	xxxx xxxx xxxx	394 394 0.05 
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap:	xxxx xxxx xxxx xxxx   vice I xxxx	xxxx xxxx xxxx Module xxxx	xxxxx xxxx xxxx xxxx	xxxx xxxx 	xxxx xxxx xxxx xxxx	xxxxx xxxx xxxx xxxx	xxxx xxxx xxxx xxxx	xxxx xxxx xxxx xxxx	xxxxx xxxx xxxx xxxxx	xxxx xxxx xxxx xxxx	xxxx xxxx xxxx xxxx	394 394 0.05   3.6 14.6
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap:	xxxx xxxx xxxx   vice I xxxx xxxxx	xxxx xxxx xxxx Module xxxx xxxx	xxxxx xxxx xxxx xxxx xxxx xxxx	xxxx xxxx   xxxx *	xxxx xxxx xxxx xxxx xxxx	xxxx xxxx xxxx xxxx xxxx xxxx	xxxx xxxx xxxx xxxx *	xxxx xxxx xxxx xxxx xxxx	xxxxx xxxx xxxx xxxx xxxxx xxxxx	xxxx xxxx   xxxx *	xxxx xxxx xxxx xxxx xxxx	394 394 0.05   3.6 14.6 B
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap:	xxxx xxxx xxxx   vice I xxxx xxxxx xxxxx	xxxx xxxx Module xxxx xxxx	XXXXX XXXX XXXX  E: XXXXX XXXX X - RT	XXXX XXXX  XXXX  XXXX  XXXX  X  LT	XXXX XXXX XXXX XXXX XXXX XXXX	XXXXX XXXX XXXX XXXXX XXXXX * - RT	XXXX XXXX  XXXX  XXXX  XXXX  X  LT	XXXX XXXX XXXX XXXX XXXX XXXX	XXXXX XXXX XXXX XXXXX XXXXX *	xxxx xxxx   xxxx *	xxxx xxxx xxxx xxxx	394 394 0.05   3.6 14.6 B
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap:	xxxx xxxx xxxx   vice I xxxx xxxxx x	xxxx xxxx Module xxxx xxxx * - LTR	XXXXX XXXX XXXX  :: : : : : : : : : : :	XXXX XXXX XXXX  XXXX XXXX XXXXX  LT - XXXX	XXXX XXXX XXXX XXXX X * - LTR XXXX	XXXXX XXXX XXXX XXXXX XXXXX * - RT XXXXX	XXXX XXXX XXXX  XXXX XXXXX  LT XXXX	XXXX XXXX XXXX XXXX X LTR XXXX	XXXXX XXXX XXXX XXXXX XXXXX XXXXX X - RT XXXXX	XXXX XXXX       XXXX  XXXX  LT  XXXX	XXXX XXXX XXXX XXXX * - LTR XXXX	394 394 0.05   3.6 14.6 B
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap: Level Of Serrol Del: LOS by Move: Movement: Shared Cap.: SharedQueue:	xxxx xxxx xxxx   vice I xxxx xxxxx * LT - xxxx	XXXX XXXX  Module XXXX XXXX  * - LTR XXXX XXXX	XXXXX XXXX XXXX  E: XXXXX XXXXX  * - RT XXXXX XXXXX	XXXX XXXX XXXX  XXXX XXXXX  LT - XXXX XXXXX	XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	XXXXX XXXX XXXX XXXXX  * - RT XXXXX XXXXX	XXXX XXXX  XXXX  XXXX  XXXX  LT  XXXX  XXXX	XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	XXXXX XXXX XXXX XXXXX XXXXX * - RT XXXXX XXXXX	XXXX XXXX       XXXX  XXXX  LT -  XXXX  XXXX	XXXX XXXX XXXX XXXX XXXX *- LTR XXXX XXXX	394 394 0.05   3.6 14.6 B - RT xxxxx
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap: Level Of Ser. 2Way95thQ: Control Del: LOS by Move: Movement: Shared Cap.: SharedQueue: Shrd ConDel:	xxxx xxxx xxxx   vice I xxxx xxxxx * LT- xxxx xxxxx xxxxx	xxxx xxxx xxxx Module xxxx xxxx * - LTR xxxx xxxx xxxx	xxxxx xxxxx xxxx e: xxxxx xxxxx * - RT xxxxx xxxxx xxxxx	XXXX XXXX XXXX  XXXX  XXXX  LT - XXXX XXXX XXXXX	XXXX XXXX XXXX XXXX XXXX * - LTR XXXX XXXX XXXX	xxxxx xxxxx xxxx xxxxx xxxxx xxxxx xxxxx	XXXX XXXX XXXX  XXXX  XXXX  LT  XXXX XXXX	XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	XXXXX XXXX XXXX XXXXX  - RT XXXXX XXXXX XXXXX	xxxx xxxx xxxx    xxxx xxxxx LT - xxxx xxxxx xxxxx	XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	394 394 0.05   3.6 14.6 B - RT xxxxx xxxxx
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap: Level Of Serrol Del: LOS by Move: Movement: Shared Cap.: SharedQueue:	xxxx xxxx xxxx   vice I xxxx xxxxx * LT - xxxx	XXXX XXXX  Module XXXX XXXX  * - LTR XXXX XXXX	XXXXX XXXX XXXX  E: XXXXX XXXXX  * - RT XXXXX XXXXX	XXXX XXXX XXXX  XXXX XXXXX  LT - XXXX XXXXX	XXXX XXXX XXXX XXXX XXXX * - LTR XXXX XXXX XXXX	XXXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	XXXX XXXX  XXXX  XXXX  XXXX  LT  XXXX  XXXX	XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	XXXXX XXXX XXXX XXXXX XXXXX * - RT XXXXX XXXXX	XXXX XXXX       XXXX  XXXX  LT -  XXXX  XXXX	XXXX XXXX XXXX XXXX XXXX *- LTR XXXX XXXX	394 394 0.05   3.6 14.6 B - RT xxxxx
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap: Level Of Ser. 2Way95thQ: Control Del: LOS by Move: Movement: Shared Cap.: SharedQueue: Shrd ConDel: Shared LOS: ApproachDel:	xxxx xxxx xxxx yice I xxxx xxxxx * LT - xxxx xxxxx xxxxx	xxxx xxxx xxxx  Module xxxx xxxx * - LTR xxxx xxxx xxxx xxxx	xxxxx xxxxx xxxx e: xxxxx xxxxx * - RT xxxxx xxxxx xxxxx	XXXX XXXX XXXX  XXXX  LT XXXX XXXX XXXX	XXXX XXXX XXXX XXXX XXXX X LTR XXXX XXXX XXXX XXXX XXXX XXXX	xxxxx xxxxx xxxx xxxxx xxxxx xxxxx xxxxx	XXXX XXXX  XXXX  XXXX  XXXX  LT  XXXX  XXXX  XXXX  XXXX  XXXX  XXXX  XXXX	XXXX XXXX XXXX XXXX XXXX   LTR XXXX XXXX XXXX XXXX	XXXXX XXXX XXXX XXXXX  - RT XXXXX XXXXX XXXXX	xxxx xxxx xxxx    xxxx xxxxx LT - xxxx xxxxx xxxxx	XXXX XXXX XXXX XXXX * - LTR XXXX XXXX XXXX 14.6	394 394 0.05   3.6 14.6 B - RT xxxxx xxxxx
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap: Level Of Ser 2Way95thQ: Control Del: LOS by Move: Movement: Shared Cap.: SharedQueue: Shrd ConDel: Shared LOS: ApproachDel: ApproachLOS:	xxxx xxxx xxxx yice I xxxx xxxxx * LT - xxxx xxxxx xxxxx xxxxx	xxxx xxxx xxxx Module xxxx xxxx * - LTR xxxx xxxx * *	xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxx	XXXX XXXX XXXX  XXXX  XXXX  LT - XXXX XXXXX XXXXX XXXXX XXXXX	XXXX XXXX XXXX XXXX X LTR XXXX XXXX X XXXX X XXXX X XXXX X XXXX X	XXXXX XXXX XXXX XXXXX XXXXX X - RT XXXXX XXXXX XXXXX XXXXX XXXX	XXXX XXXX XXXX  XXXX  XXXX  LT - XXXX XXXX XXXX XXXX XXXX	XXXX XXXX XXXX XXXX * LTR XXXX XXXX XXXX XXXX *	XXXXX XXXX XXXX XXXXX  - RT XXXXX XXXXX XXXXX	xxxx xxxx xxxx    xxxx xxxxx LT - xxxx xxxxx xxxxx	XXXX XXXX XXXX XXXX * - LTR XXXX XXXX XXXX XXXX	394 394 0.05   3.6 14.6 B - RT xxxxx xxxxx
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap: Level Of Ser. 2Way95thQ: Control Del: LOS by Move: Movement: Shared Cap.: SharedQueue: Shrd ConDel: Shared LOS: ApproachDel:	xxxx xxxx xxxx yice I xxxx xxxxx * LT - xxxx xxxxx xxxxx xxxxx	xxxx xxxx xxxx Module xxxx xxxx * - LTR xxxx xxxx * * * * * * * * * * * * * *	xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxx	xxxx xxxx xxxx    xxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxx	XXXX XXXX XXXX XXXX X LTR XXXX XXXX XXXX XXXX XXXX XXXX XXXX	xxxxx xxxx xxxx xxxxx xxxxx - RT xxxxx xxxxx xxxxx xxxxx	xxxx xxxx xxxx   xxxx xxxxx xxxxx xxxx xxxxx xxxxx in fee	xxxx xxxx xxxx xxxx * - LTR xxxx xxxx xxxx * *	XXXXX XXXX XXXXX XXXXX  - RT XXXXX XXXXX XXXXX XXXXX	xxxx xxxx xxxx    xxxx xxxxx LT - xxxx xxxxx xxxxx	XXXX XXXX XXXX XXXX * - LTR XXXX XXXX XXXX 14.6	394 394 0.05   3.6 14.6 B - RT xxxxx xxxxx
Cnflict Vol: Potent Cap: Move Cap: Volume/Cap: Level Of Ser 2Way95thQ: Control Del: LOS by Move: Movement: Shared Cap: SharedQueue: Shrd ConDel: Shared LOS: ApproachDel: ApproachLOS: Note: Queue:	xxxx xxxx xxxx   vice I xxxx xxxxx * LT xxxx xxxxx * xxxxx xxxxx	xxxx xxxx xxxx Module xxxx xxxx * - LTR xxxx xxxx xxxx * * ted is	xxxxx xxxx xxxx xxxxx xxxxx xxxxx xxxxx xxxx	xxxx xxxx xxxx xxxxx xxxxx xxxxx xxxxx xxxx	XXXX XXXX XXXX  * - LTR XXXX XXXX  * * * * * * * * * * * * * *	xxxxx xxxx xxxxx xxxxx xxxxx xxxxx xxxxx	xxxx xxxx xxxx   xxxx xxxxx * LT - xxxx xxxxx xxxxx in fee	XXXX XXXX XXXX XXXX * - LTR XXXX XXXX XXXX XXXX XXXX XXXX XXXX X	XXXXX XXXXX XXXXX XXXXX  - RT XXXXX XXXXX XXXXX XXXXX	XXXX XXXX XXXX      XXXX XXXXX  * LT - XXXX XXXXX XXXXX *	XXXX XXXX XXXX XXXX X - LTR XXXX XXXX XXXX XXXX XXXX XXXX B	394 394 0.05   3.6 14.6 B - RT xxxxx xxxxx xxxxx
Cnflict Vol: Potent Cap.: Move Cap.: Volume/Cap: Level Of Ser 2Way95thQ: Control Del: LOS by Move: Movement: Shared Cap.: SharedQueue: Shrd ConDel: Shared LOS: ApproachDel: ApproachLOS:	xxxx xxxx xxxx vice I xxxx xxxxx LT xxxx xxxxx xxxxx xxxxx *	xxxx xxxx xxxx Module xxxx xxxx * - LTR xxxx xxxx * * * * * * * * * * * * * *	xxxxx xxxx xxxxx xxxxx - RT xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxx	xxxx xxxx xxxx xxxxx xxxxx xxxxx xxxxx xxxx	XXXX XXXX XXXX  * - LTR XXXX XXXX  * * * * * * * * * * * * * *	xxxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx	xxxx xxxx xxxx xxxxx xxxxx xxxxx xxxxx xxxx	xxxx xxxx xxxx xxxx - LTR xxxx xxxx xxxx xxxx * * * * * * * * *	XXXXX XXXX XXXXX  - RT XXXXX XXXXX  *******	XXXX XXXX XXXX      XXXX XXXXX  * LT - XXXX XXXXX XXXXX *	XXXX XXXX XXXX XXXX X - LTR XXXX XXXX XXXX XXXX X B B	394 394 0.05   3.6 14.6 B - RT xxxxx xxxxx xxxxx

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG + P AM

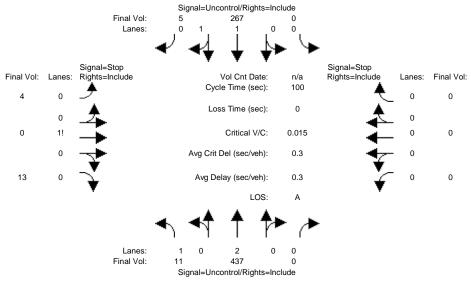
# Intersection #8: Sunnyvale-Saratoga Road / East Project Driveway



Street Name: Approach: Movement:	No:	rth Bo - T	- R	Son L ·	uth Bo - T	d ound - R	Ea L	ast Bo	- R	We L -	est Bo - T	ound - R
Volume Module	1			1 1			1 1			1 1		ı
Base Vol:	5	422	0	0	255	9	9	0	3	0	0	0
Growth Adj:		1.00	1.00	-	1.00	1.00		1.00	1.00	-	1.00	1.00
Initial Bse:	5	422	0	0	255	9	9	0	3	0	0	0
Added Vol:	2	12	0	0	12	9	6	0	1	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	7	434	0	0	267	18	15	0	4	0	0	0
User Adi:	-	1.00	1.00	-	1.00	1.00		1.00	1.00	-	1.00	1.00
PHF Adj:		1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Volume:	7	434	0	0	267	18	15	0	4	0.11	1.00	0
Reduct Vol:	0	0	0	0	207	0	0	0	0	0	0	0
FinalVolume:		434	0	0	267	18	15	0	4	0	0	0
			-						-			
Critical Gap	1			1 1			1 1			I I		I
Critical Gap			vvvvv	vvvvv	vvvv	vvvvv	6.8	6.5	6 9	xxxxx	vvvv	vvvvv
FollowUpTim:			XXXXX							XXXXX		
Capacity Mod	I											
Cnflict Vol:		vvvv	xxxxx	vvvv	vvvv	xxxxx	507	724	143	vvvv	vvvv	xxxxx
Potent Cap.:								354	886			XXXXX
Move Cap.:			XXXXX					353	886			XXXXX
Volume/Cap:			XXXX			XXXX		0.00	0.00		XXXX	
Level Of Serv	1			1 1			1 1			I I		I
2Way95th0:			xxxxx	YYYY	vvvv	xxxxx	YYYY	vvvv	xxxxx	YYYY	<b>V</b> VVV	xxxxx
Control Del:			XXXXX									
LOS by Move:	, . o		*	*	*	*	*		*	*	*	*
Movement:			- RT	ът -	- I.TR	- RT	T.T.	- I.TR	- RT	т.т -	- LTR	– RT
Shared Cap.:									xxxxx			xxxxx
SharedOueue:									XXXXX			
Shrd ConDel:												
Shared LOS:	*	*	*	*	*	*	*	в	*	*	*	*
ApproachDel:	ν.	xxxxx		v	xxxxx			11.8		ν,	xxxx	
ApproachLOS:	21.	*		212	*			В		212	*	
Note: Queue	repor	ted is	s the d	distand	re ne	r lane	in fe	et -				
ince gacac .	LOPOL		eak Hou		_				rt			
*****	****				-	_		_		*****	****	*****
Intersection	#8 S1	unnyva	ale-Sai	ratoga	Road	/ East	t Proje	ect D	riveway	7		
*****		-		_					_		****	*****

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG + P AM

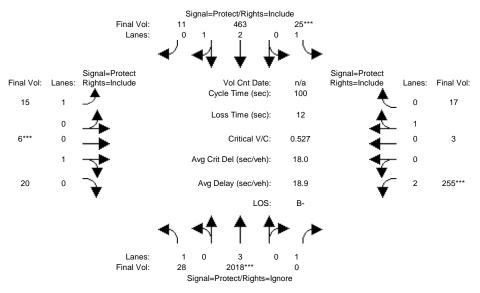
# Intersection #9: Sunnyvale-Saratoga Road / Southeast Project Driveway



Street Name: Approach: Movement:	No:	rth Bo - T	- R	Sou L -	uth Bo - T	ound - R	Ea L ·	ast Bo - T	ound – R	L -	est Bo - T	ound - R
Volume Module		405	0	0	056	0	0	0	1.0	0	0	0
Base Vol:	1 00	425	1 00	1 00	256	2	1 00	1 00	12	1 00	1 00	1 00
_		1.00	1.00		1.00 256	1.00		1.00	1.00	1.00		1.00
Initial Bse: Added Vol:	8	425 12	0	0	256 11	2	2	0	12	0	0	0
PasserByVol:	0	0	0	0	11	0	0	0	0	0	0	0
Initial Fut:	11	437	0	0	267	5	4	0	13	0	0	0
		1.00	1.00	1.00		1.00	-	1.00	1.00	1.00	•	1.00
		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	11	437	0.11	0.00	267	5	4	1.00	1.00	1.00	0	0
Reduct Vol:	0	0	0	0	207	0	0	0	0	0	0	0
FinalVolume:	11	437	0	0	267	5	4	0	13	0	0	0
			-				-					
Critical Gap				1 1			1 1			1 1		1
Critical Gp:			xxxxx	xxxxx	xxxx	xxxxx	6.8	6.5	6.9	xxxxx	xxxx	xxxxx
FollowUpTim:			xxxxx				3.5			xxxxx		
Capacity Modu	le:			1 1			1 1			1 1		ı
Cnflict Vol:		xxxx	xxxxx	xxxx	xxxx	xxxxx	510	729	136	xxxx	xxxx	xxxxx
Potent Cap.:	1303	xxxx	xxxxx	xxxx	xxxx	xxxxx	498	352	894	xxxx	xxxx	xxxxx
Move Cap.:	1303	xxxx	xxxxx	xxxx	xxxx	xxxxx	495	349	894	xxxx	xxxx	xxxxx
Volume/Cap:	0.01	xxxx	xxxx	xxxx	xxxx	xxxx	0.01	0.00	0.01	xxxx	xxxx	xxxx
Level Of Serv	ice N	Module	<b>≘</b> :									·
2Way95thQ:	0.6	XXXX	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	xxxxx	XXXX	xxxx	XXXXX
Control Del:	7.8	XXXX	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	XXXXX
LOS by Move:	A	*	*	*	*	*	*	*	*	*	*	*
Movement:	LT -	- LTR	- RT	LT -	- LTR	- RT	LT ·	- LTR	- RT	LT -	- LTR	- RT
Shared Cap.:									xxxxx	XXXX	xxxx	XXXXX
SharedQueue:x	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXX			XXXXX		
Shrd ConDel:x										XXXXX		XXXXX
Shared LOS:	*	*	*	*	*	*	*	A	*	*	*	*
ApproachDel:	X	XXXXX		XX	XXXX			9.9		XX	XXXX	
ApproachLOS:		*			*			A			*	
Note: Queue r	eport		s the c eak Hou		-				ct.			
*****	***									*****	****	*****
Intersection	#9 Sı	ınnyva	ale-Sai	ratoga	Road	/ Sout	heast	Proi	ect Dr	iveway		
******	***	****	*****	****	****	****	****	****	*****	*****	****	*****

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P AM

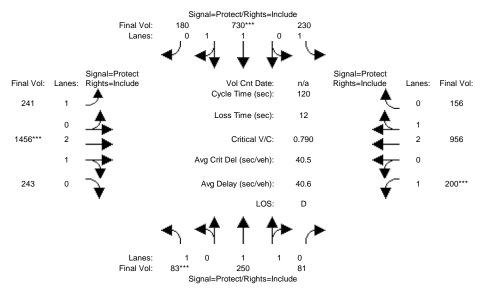
# Intersection #10: S Mathilda Ave - Sunnyvale-Saratoga Rd / Talisman Dr - Sunnvyale-Saratoga Rd



Street Name:S Mathilda Ave Approach: North Bound Movement: L - T -				_				man Dr ast Bo		-	e-Sara est Bo	_
Movement:	L ·	- T	- R	L -		- R		- Т			- Т	
		10			10		7				10	10
Y+R:	4.0			4.0			4.0		4.0	4.0	4.0	4.0
Volume Module	•											
Base Vol:	28	1987	467	22	423	11	15	6	20	243	3	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	28	1987	467	22	423	11	15	6	20	243	3	17
Added Vol:	0	31	13	3	40	0	0	0	0	12	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	28	2018	480	25	463	11	15	6	20	255	3	17
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	28	2018	0	25	463	11	15	6	20	255	3	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	28	2018	0	25	463	11	15	6	20	255	3	17
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			0	25	463	11	15	6	20	255	3	17
Saturation F												
				1000	1000	1000	1000	1000	1000	1000	1000	1000
Sat/Lane:		1900	1900 0.92		1900 0.98	1900		1900	1900 0.95	1900		1900 0.95
Adjustment:						0.95						
201100			1.00 1750		2.93	130	1750	0.23 415	0.77 1385	2.00	270	0.85 1530
Final Sat.:					5470 				1385			1530
Capacity Anal	1			1 1			<b> </b>		ı	1		ı
Vol/Sat:	0.02	0.35	0.00	0.01	0.08	0.08	0.01	0.01	0.01	0.08	0.01	0.01
Crit Moves:		****		****				****		***		
Green Time:	26.7	57.8	0.0	7.0	38.1	38.1	9.6	10.0	10.0	13.2	13.7	13.7
Volume/Cap:	0.06	0.61	0.00	0.20	0.22	0.22	0.09	0.14	0.14	0.61	0.08	0.08
Delay/Veh:	27.4	14.1	0.0	44.7	21.0	21.0	41.5	41.5	41.5	43.7	37.8	37.8
User DelAdj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:		14.1	0.0		21.0	21.0	41.5		41.5	43.7		37.8
LOS by Move:		В	А	D	C+	C+	D	D	D	D	D+	D+
HCM2k95thO:	34		0	50	165	165	27	45	45	265	31	31
Note: Queue												

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P PM

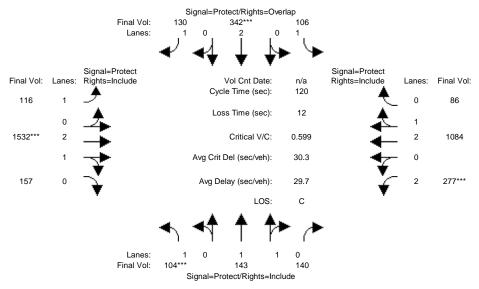
# Intersection #1: S Mary Ave / El Camino Real



Street Name: Approach:		rth Bo		y Ave	ıth Bo	und	Eá	E agt Ro	l Cami			ound
Movement:	L	- T	- R	L -	- T	- R	L -	- T	- R	L -	- T	- R
Min. Green: Y+R:	7 4.0	10 4.0	10 4.0	7 4.0	10 4.0	10 4.0	7 4.0	10 4.0	10 4.0	7 4.0	10 4.0	10 4.0
Volume Module												
Base Vol:	83	246	70	205	726	161	226	1365	243	188	868	135
Growth Adj:			1.00		1.00	1.00	1.00		1.00	1.00		1.00
Initial Bse:		246	70	205	726	161	226	1365	243	188	868	135
Added Vol:	0		11	25	4	19	15	91	0	12	88	21
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	83	250	81	230	730	180	241	1456	243	200	956	156
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	1.00		1.00		1.00	1.00	1.00		1.00	1.00		1.00
PHF Volume:		250	81	230	730	180		1456	243	200	956	156
Reduct Vol:			0	0	0	0	0	0	0	0	0	0
Reduced Vol:			81	230	730	180		1456	243	200	956	156
	1.00		1.00		1.00	1.00	1.00		1.00	1.00		1.00
_	1.00		1.00		1.00	1.00	1.00		1.00		1.00	1.00
FinalVolume:			81	230		180		1456	243	200	956	156
Saturation F												
Saturation F. Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:			0.95		0.98	0.95	0.92		0.95		0.99	0.95
_		1.50	0.50		1.59		1.00		0.44		2.56	0.44
Final Sat.:		2794			2968				801		4813	785
Capacity Ana						'			'	'		'
Vol/Sat:	0.05	0.09	0.09	0.13	0.25	0.25	0.14	0.30	0.30	0.11	0.20	0.20
Crit Moves:	****				***			****		***		
Green Time:	7.2	18.0	18.0	26.5	37.4	37.4	26.0	46.1	46.1	17.4	37.5	37.5
Volume/Cap:	0.79	0.59	0.59	0.59	0.79	0.79	0.64	0.79	0.79	0.79	0.64	0.64
Delay/Veh:	87.7	49.3	49.3	44.4	41.5	41.5	46.3	34.7	34.7	64.9	36.2	36.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	87.7	49.3	49.3	44.4	41.5	41.5	46.3	34.7	34.7	64.9	36.2	36.2
LOS by Move:	F	D	D	D	D	D	D	C-	C-	E	D+	D+
HCM2k95thQ:	251	318	318	413	750	750	442	857	857	382	531	531
Note: Queue	repor	ted is	the d	listand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P PM

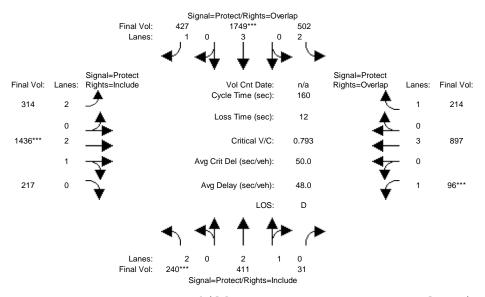
# Intersection #2: S Pastoria Avenue / El Camino Real



Street Name: Approach:	No	rth Bo	astori und	a Avei Soi	nue uth Bo	und	Ea	E ast Bo	l Cami: und		al est Bo	und
Movement:	L ·	- T	- R	L ·	- T	- R	L ·	- T	- R			
		10			10			10			10	
Y+R:	4.0				4.0	4.0	4.0	4.0	4.0		4.0	4.0
Volume Module	•											
Base Vol:	105	143	146	95	342	125	111	1407	160	283	967	77
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:		143	146	95	342	125	111	1407	160	283	967	77
Added Vol:	-1	0	-6	11	0	5	5	125	-3	-6	117	9
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	104	143	140	106	342	130	116	1532	157		1084	86
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:		143	140	106	342	130	116	1532	157	277	1084	86
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	104	143	140	106	342	130	116	1532	157	277	1084	86
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	104	143	140	106	342	130	116	1532	157	277	1084	86
Gatarration B												
Saturation F			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:			0.95		1.00	0.92		0.99	0.95		0.99	0.95
Lanes:	1.00		1.00		2.00	1.00 1750		2.71	0.29 520		2.77 5188	0.23 412
Final Sat.:			1800		3800			5079	520			
Capacity Anal	1											
Vol/Sat:			0.08	0.06	0.09	0.07	0.07	0.30	0.30	0.09	0.21	0.21
	****				***			****		****		
Green Time:	11.9	17.3	17.3	12.6	18.0	36.8	18.8	60.4	60.4	17.6	59.3	59.3
Volume/Cap:	0.60	0.52	0.54	0.58	0.60	0.24	0.42	0.60	0.60	0.60	0.42	0.42
Delay/Veh:	57.4	48.4	48.7	55.6	49.4	31.4	46.8	21.5	21.5		19.5	19.5
User DelAdj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:		48.4	48.7		49.4	31.4		21.5	21.5		19.5	19.5
LOS by Move:			D	E+	D	C	D	C+	C+	D	B-	B-
HCM2k95thO:	240	264	274	239	320	191	195	629	629	274		416
Note: Queue												
~ ~ ~ ~ ~ ~ ~					1			•				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P PM

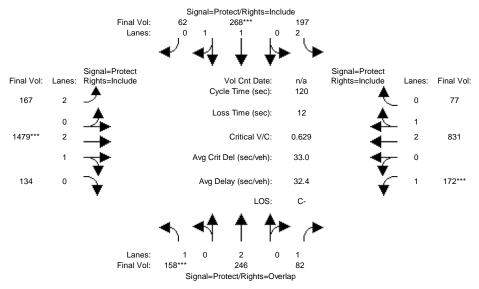
# Intersection #3: S. Mathilda Avenue / El Camino Real



Street Name:		s.	Mathil	da Ave	enue			E	l Cami	ino Rea	al	
Approach:	No	rth Bo	und	Sot	ath Bo	und	Εá	ast Bo	und	We	est Bo	und
Movement:	L ·	- T	- R	L ·	- T	- R	L ·	- T	- R		- T	
Min. Green:		10			10			10			10	10
Y+R:		4.0				4.0		4.0	4.0		4.0	4.0
Volume Module		2.50	2.1	406	1001	264	0.41	1 2 2 2	006	0.5	0.45	100
	234		31		1721	364		1389	206		847	198
Growth Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:			31		1721	364		1389	206	96	847	198
	6		0	16	28	63	73	47	11	0	50	16
PasserByVol:			0	0	0	0	0	0	0	0	0	0
Initial Fut:			31			427		1436	217	96	897	214
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	240	411	31	502	1749	427	314	1436	217	96	897	214
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	240	411	31	502	1749	427	314	1436	217	96	897	214
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			31	502	1749	427		1436	217	96	897	214
Saturation F	low M	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.83	0.99	0.95	0.83	1.00	0.92	0.83	0.99	0.95	0.92	1.00	0.92
Lanes:	2.00	2.78	0.22	2.00	3.00	1.00	2.00	2.59	0.41	1.00	3.00	1.00
Final Sat.:	3150	5207	393	3150	5700	1750	3150	4864	735	1750	5700	1750
	1											
Capacity Anal	lysis	Modul	e:									
Vol/Sat:	0.08	0.08	0.08	0.16	0.31	0.24	0.10	0.30	0.30		0.16	0.12
Crit Moves:	****				***			****		****		
Green Time:	15.4	25.6	25.6	51.7	61.9	89.4	27.4	59.6	59.6	11.1	43.3	95.0
Volume/Cap:	0.79	0.49	0.49	0.49	0.79	0.44	0.58	0.79	0.79	0.79	0.58	0.21
Delay/Veh:	84.1	61.7	61.7	44.0	45.4	20.9	62.6	46.9	46.9	102.3	51.1	15.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			61.7		45.4	20.9		46.9		102.3		15.2
LOS by Move:			E	D	D	C+	E	D	D	F	D-	В
HCM2k95thO:			334		1073	574	_	1005	1005	_	_	246
Note: Queue												
	- 5- 5-		J.1.5 G					•				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P PM

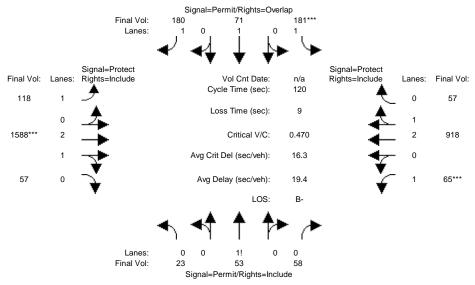
# Intersection #4: S. Sunnyvale Avenue / El Camino Real



Street Name: Approach:	No:	S. Si	unnyva und	le Ave	enue uth Bo	und	Ea	E ast Bo	l Cami	no Rea	al est Bo	und
Movement:	L ·	- T	- R	L -	- T	– R	Ь.	- T	– R	L ·	- T	- R
		10									10	
Y+R:	4.0				4.0	4.0		4.0			4.0	4.0
Volume Module			I	I		I	I		I	I		I
Base Vol:	139	231	74	189	251	56	159	1441	118	162	790	70
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	139	231	74	189	251	56	159	1441	118	162	790	70
Added Vol:	19	15	8	8	17	6	8	38	16	10	41	7
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	158	246	82	197	268	62	167	1479	134	172	831	77
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	158	246	82	197	268	62	167	1479	134	172	831	77
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	158	246	82	197	268	62	167	1479	134	172	831	77
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	158	246	82	197	268	62	167	1479	134	172	831	77
Saturation F	low M	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	1.00	0.92	0.83	0.98	0.95	0.83	0.99	0.95	0.92	0.99	0.95
Lanes:	1.00	2.00	1.00	2.00	1.61	0.39	2.00	2.74	0.26	1.00	2.74	0.26
Final Sat.:			1750		5001	695		5134	465		5124	475
Capacity Ana												
Vol/Sat:		0.06	0.05	0.06	0.09	0.09	0.05	0.29	0.29		0.16	0.16
Crit Moves:	****				****			****		****		
Green Time:	17.2	19.6	38.3	14.7	17.0	17.0	19.5	55.0	55.0	18.8	54.2	54.2
Volume/Cap:	0.63	0.40	0.15	0.51	0.63	0.63	0.33	0.63	0.63	0.63	0.36	0.36
Delay/Veh:	53.4	45.4	29.3	50.4	50.9	50.9	44.8	25.2	25.2	52.0	21.6	21.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	53.4	45.4	29.3	50.4	50.9	50.9	44.8	25.2	25.2	52.0	21.6	21.6
LOS by Move:	D-	D	C	D	D	D	D	С	C	D-	C+	C+
HCM2k95thQ:	329	212	116	230	326	326	154	642	642	309	339	339
Note: Queue	repor	ted is	the d	istand	ce per	lane	in fee	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P PM

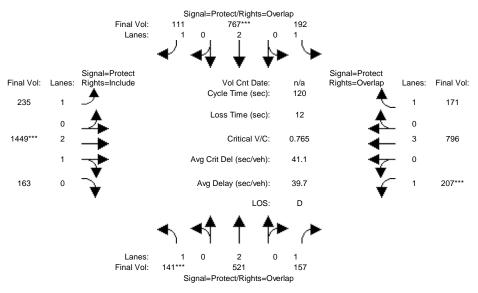
# Intersection #5: Cezanne Drive / El Camino Real



Street Name: Approach:	No	Co	ezanne	Drive	e 1+h Po	und	₽.	E	l Cami	no Rea	al est Bo	und
Movement:	L ·	- T ·	– R	ь -	- T	– R	L ·	- T	– R	L -	- Т	- R
Min. Green:		10			10			10		7		
Y+R:		4.0			4.0			4.0			4.0	4.0
Volume Module			ı	1		1	1		1	1		1
Base Vol:	23	53	58	181	71	180	118	1533	57	65	860	53
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	23	53	58	181	71	180	118	1533	57	65	860	53
Added Vol:	0	0	0	0	0	0	0	55	0	0	58	4
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	53	58	181	71	180	118	1588	57	65	918	57
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:			58	181	71	180	118	1588	<b>.</b>	65	918	57
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	53	58	181	71	180	118	1588	57	65	918	57
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:			58	181		180		1588		65		57
Saturation F												
Sat/Lane:		1900	1900	1900	1900	1900		1900	1900	1900		1900
Adjustment:			0.92			0.92		0.98	0.95	0.92		0.95
Lanes:			0.43		1.00	1.00		2.89	0.11	1.00		0.18
Final Sat.:			757			1750		5406	194	1750		327
Capacity Ana	-											
Vol/Sat:	0.08	0.08	0.08		0.04	0.10	0.07	0.29	0.29		0.17	0.17
Crit Moves:				****				****		****		
		26.4	26.4		26.4	50.0		75.1	75.1		61.0	61.0
Volume/Cap:			0.35		0.17	0.25		0.47	0.47	0.47		0.34
Delay/Veh:			40.0		38.1	22.9		12.0	12.0	55.4		17.7
User DelAdj:			1.00	1.00		1.00		1.00	1.00	1.00		1.00
AdjDel/Veh:			40.0	41.6		22.9		12.0	12.0	55.4		17.7
LOS by Move:			D	D		C+	D		В	E+		В
HCM2k95thQ:			227	314		224	191		480	154	337	337
Note: Queue	report	ted is	the d	istand	ce per	lane	in fe	et.				

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P PM

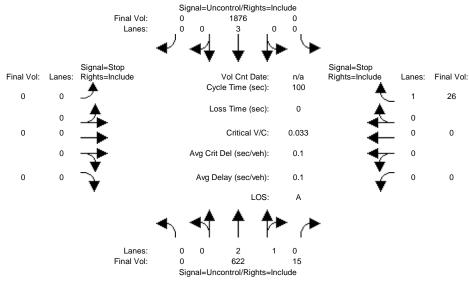
# Intersection #6: S. Fair Oaks Avenue / El Camino Real



Street Name: Approach:		S. F rth Bo				und	F.		l Cami		al est Bo	und
Movement:	L ·	- T	- R	L -	- T	- R	L -	- T	- R	L -	- T	- R
		10		7		10		10			10	10
Y+R:	4.0	4.0	4.0			4.0		4.0	4.0	4.0		4.0
Volume Module							1			1		
Base Vol:	137	521	157	173	764	99	215	1414	163	207	760	171
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	137	521	157	173	764	99	215	1414	163	207	760	171
Added Vol:	4	0	0	19	3	12	20	35	0	0	36	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	141	521	157	192	767	111	235	1449	163	207	796	171
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	141	521	157	192	767	111	235	1449	163	207	796	171
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	141	521	157	192	767	111	235	1449	163	207	796	171
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	141	521	157	192	767	111	235	1449	163	207	796	171
Saturation F			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:			0.92		1.00	0.92		0.99	0.95		1.00	0.92
Lanes:	1.00		1.00		2.00	1.00		2.69	0.31		3.00	1.00
Final Sat.:			1750		3800	1750		5033	566		5700	1750
Capacity Anal												
	0.08		0.09	0.11	0.20	0.06	0.13	0.29	0.29	0.12	0.14	0.10
	****				***			****		***		
Green Time:	12.6	24.6	43.2	19.7	31.7	62.9	31.2	45.2	45.2	18.6	32.5	52.2
	0.77		0.25		0.77	0.12		0.77	0.77		0.52	0.22
Delay/Veh:		46.2	27.2		44.3	14.6		34.5	34.5		37.4	21.4
User DelAdj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:		46.2	27.2	53.1		14.6		34.5	34.5		37.4	21.4
LOS by Move:		D	27.2 C	D-	D	В	D+	C-	C-	E	D+	C+
HCM2k95thO:	347		213	390	642	111	367	765	765	449	400	206
Note: Queue									. 0 5		-00	_00
	- 25-01		J U	5 0 0.110	- POL			•				

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG + P PM

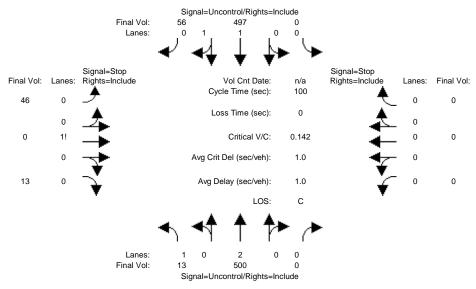
# Intersection #7: S Mathilda Ave / Southwest Project Driveway



Street Name: Approach:		S I		da Aver Sot		aund	So	outhwe	estPro		rivewa est Bo	-
Movement:	T	- Т	- R			- R			- R		- Т	
										_	_	
Volume Module	ı			1 1			1 1			1 1		1
Base Vol:	0	585	12	0	1837	0	0	0	0	0	0	24
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	585	12	0	1837	0	0	0	0	0	0	24
Added Vol:	0	37	1	0	39	0	0	0	0	0	0	2
PasserByVol:	0	0	2	0	0	0	0	0	0	0	0	0
Initial Fut:	0	622	15	0	1876	0	0	0	0	0	0	26
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	622	15	0	1876	0	0	0	0	0	0	26
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	622	15	0	1876	0	0	0	0	0	0	26
Critical Gap	Modu:	le:										
Critical Gp::	xxxxx	xxxx	xxxxx	xxxxx	XXXX	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9
FollowUpTim:												3.3
	I											
Capacity Mod												
Cnflict Vol:									XXXXX		XXXX	215
Potent Cap.:									XXXXX		XXXX	796
Move Cap.:						XXXXX			XXXXX		XXXX	796
Volume/Cap:						XXXX			XXXX		XXXX	0.03
	ı											
Level Of Serv												۰
2Way95thQ:				XXXX					XXXXX			2.5
Control Del:		XXXX	xxxxx *	xxxxx *	XXXX	**	xxxxx *	XXXX	xxxxx *	xxxxx *	XXXX	9.7
LOS by Move:	*											A
Movement:				LT -				- LTR			- LTR	
Shared Cap.:												XXXXX
SharedQueue:												
Shrd ConDel:	*	xxxx	xxxxx	xxxxx	xxxx	**	xxxxx *	xxxx	xxxxx	**	xxxx	XXXXX
Shared LOS:			•			•			•	•		
ApproachDel:	X	XXXXX *		XX	XXXXX *		X	XXXXX *			9.7	
ApproachLOS:			- +bo	4: a+ a		. ]	in fo				A	
Note: Queue	repor			ır Dela	_				c+			
*****	****				-	-		_		*****	****	*****
Intersection												
THECT BCCCTOH	т, Б	ria cii.	LIUU A	v C / B	JUCIIWO	LOC EI		2 T 1 6 C	vay			

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG + P PM

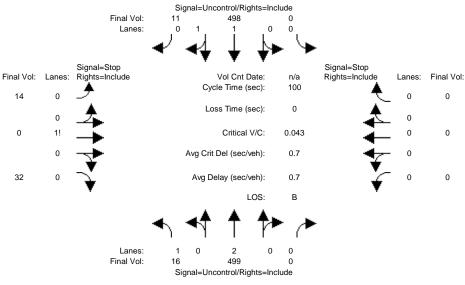
# Intersection #8: Sunnyvale-Saratoga Road / East Project Driveway



Street Name: Approach: Movement:	No:	rth Bo - T	- R	Sou L -	ath Bo - T	ound – R	Ea L -	ast Bo - T	- R	We	est Bo - T	- R
Volume Module		402	0	0	470	21	21	0	7	^	0	0
Base Vol:	7	483	1.00	1.00	478	31 1.00	21	1.00	7 1.00	1 00	1.00	1 00
		1.00	0.11					1.00	7			1.00
Initial Bse:	7	483	-	0	478	31	21	-	6	0	0	0
Added Vol:	6	17	0	0	19	25 0	25	0	-	0	Ū	0
PasserByVol:	1 2	0	0	0	0	-	0	0	0	0	0	0
Initial Fut:	13	500	0	0	497	56	46	0	13	0	•	•
		1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00
-		1.00	1.00	1.00		1.00		1.00	1.00	1.00		1.00
PHF Volume:	13	500	0	0	497	56	46	0	13	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	13	500	0	0	497	56	46	0	13	0	0	0
Critical Gap							<i>c</i> 0	<i>c</i>	<i>c</i> 0			
Critical Gp:							6.8	6.5		XXXXX		
FollowUpTim:			xxxxx				3.5	4.0	3.3	XXXXX		
Capacity Modu												
Cnflict Vol:			xxxxx				0.01	1051	277			
Potent Cap.:						XXXXX	326	229	727			XXXXX
_			XXXXX			XXXXX	323	229	727			XXXXX
			XXXX			XXXX		0.00	0.02			XXXX
									0.02			
Level Of Serv												
2Way95thQ:			xxxxx	YYYY	<b>V</b> VVV	xxxxx	YYYY	vvvv	xxxxx	YYYY	YYYY	xxxxx
Control Del:									XXXXX			
LOS by Move:	0.5 A		*	*	*	*	*	*	*	*	*	*
Movement:			- RT	т.т	- T.T'R	- RT	т.т	- T.TR	- RT	т.т -	- LTR	– RT
Shared Cap.:						xxxxx			xxxxx			XXXXX
SharedOueue:x									XXXXX			
Shrd ConDel:x												
Shared LOS:	*	*	*	*	*	*	*		*	*	*	*
ApproachDel:	×	xxxxx		x	xxxx			16.6		xx	xxxx	
ApproachLOS:	212	*		212	*			C		212	*	
Note: Queue r	eport	ed is	s the c	distand	ce per	lane	in fe	_				
			eak Hou		-				rt			
******	****									*****	****	*****
Intersection	#8 Sı	ınnyva	ale-Sar	ratoga	Road	/ East	Proje	ect D	riveway	7		
******	****	****	*****	****	****	*****	****	****	*****	*****	****	*****

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + BG + P PM

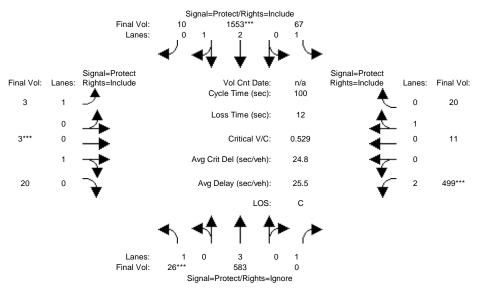
# Intersection #9: Sunnyvale-Saratoga Road / Southeast Project Driveway



Street Name: Approach: Movement:	No:	rth Bo - T	- R	Son L ·	uth Bo - T	ound – R	Ea L -	ast Bo - T	ast Pro ound - R	We L -	est Bo - T	ound - R
Volume Module							11					I
Base Vol:	9	485	0	0	481	4	5	0	27	0	0	0
Growth Adj:			1.00		1.00	1.00		1.00	1.00	-	1.00	1.00
Initial Bse:	9	485	0	0	481	4	5	0	27	0	0	0
Added Vol:	7	14	0	0	17	7	9	0	5	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	16	499	0	0	498	11	14	0	32	0	0	0
User Adi:		1.00	1.00	•	1.00	1.00		1.00	1.00	•	1.00	1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:	16	499	0	0	498	11	14	0	32	0	1.00	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	16	499	0	0	498	11	14	0	32	0	0	0
			-					-			-	•
Critical Gap				1 1			1 1			1 1		ı
Critical Gp:			xxxxx	xxxxx	xxxx	xxxxx	6.8	6.5	6.9	xxxxx	xxxx	xxxxx
FollowUpTim:			xxxxx				3.5	4.0		xxxxx		
Capacity Modu				1 1			1 1			1 1		I
Cnflict Vol:		xxxx	xxxxx	xxxx	xxxx	xxxxx	785	1035	255	xxxx	xxxx	xxxxx
Potent Cap.:												XXXXX
Move Cap.:			xxxxx			xxxxx	330	230	751			XXXXX
Volume/Cap:			XXXX			XXXX		0.00	0.04		XXXX	
Level Of Serv				1 1			1 1			1 1		ı
2Way95thQ:			xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:									XXXXX			
LOS by Move:	A		*	*	*	*			*	*	*	*
Movement:	LT	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT -	- LTR	- RT
Shared Cap.:									xxxxx		xxxx	xxxxx
SharedOueue:												
Shrd ConDel:												
Shared LOS:	*	*	*	*	*	*	*	В	*	*	*	*
ApproachDel:	×	xxxxx		x	xxxxx			12.3		X	xxxxx	
ApproachLOS:		*			*			В			*	
Note: Queue 1	repor	ted is	s the o	distan	ce per	r lane	in fee	_				
2.000			eak Hoi		_				rt.			
*****	****				-	_		-		*****	****	*****
Intersection	#9 S	unnyva	ale-Sai	ratoga	Road	/ Sout	heast	Proi	ect Dr:	ivewav		
*****											****	*****

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + BG + P PM

# Intersection #10: S Mathilda Ave - Sunnyvale-Saratoga Rd / Talisman Dr - Sunnvyale-Saratoga Rd



Street Name:				Sunny				man Dr ast Bo		-	e-Sara est Bo	_
Movement:	L	- T	- R	L ·	- T	- R	L -	- T	- R	L -	- Т	- R
 Min. Green:		 10			 10		 7		10		10	10
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module												
Base Vol:	e. 26	547	553	60	1521	10	3	3	20	478	11	18
					1.00	1.00		1.00		1.00		
Growth Adj:			1.00				3	3	1.00			1.00
Initial Bse:			553		1521	10			20	478	11	18
Added Vol:	0		16	7	32	0	0	0	0	21	0	2
PasserByVol:			0	0	0	0	0	0	0	0	0	0
Initial Fut:			569		1553	10	3	3	20	499	11	20
User Adj:		1.00	0.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Adj:		1.00	0.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	26		0	67	1553	10	3	3	20	499	11	20
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	26	583	0	67	1553	10	3	3	20	499	11	20
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	26	583	0		1553	10	3	3	20	499	11	20
Saturation F												
		1900	1900	1000	1900	1900	1000	1900	1900	1900	1000	1900
Sat/Lane: Adjustment:		1.00	0.92		0.98	0.95		0.95	0.95	0.83		0.95
-												
Lanes:		3.00	1.00		2.98	0.02		0.13	0.87	2.00		0.65
Final Sat.:			1750		5564 	36	1750	235	1565 	3150	639 	1161
Capacity Ana	1			1 1			1 1		ı	ı		ı
Vol/Sat:	0.01	0.10	0.00	0.04	0.28	0.28	0.00	0.01	0.01	0.16	0.02	0.02
Crit Moves:	***				***			****		****		
Green Time:	7.0	31.0	0.0	21.2	45.3	45.3	14.7	10.0	10.0	25.7	21.0	21.0
Volume/Cap:	0.21	0.33	0.00	0.18	0.62	0.62	0.01	0.13	0.13	0.62	0.08	0.08
Delay/Veh:	44.8	26.6	0.0		21.2	21.2	36.5	41.3	41.3	34.2		31.8
User DelAdj:			1.00		1.00	1.00		1.00	1.00	1.00		1.00
AdjDel/Veh:			0.0		21.2	21.2		41.3	41.3	34.2		31.8
LOS by Move:			0.0 A	C-	C+	C+	D+	D	D	C-	C	C C
HCM2k95thO:	41		0	96	571	571	5	39	39	415	42	42
Note: Queue :									33	410	72	72
noce gacae.	LCPOI	cca ib		a a b carr	JC PCI	Tanc	-11 LC					

**Queuing Summary** 

# **Oppidan Grocery Store TOA Queuing Summary**

	ng ent	N/	1ary Av	<b>1</b> 0	Pag	stroia A	lve.	Ma	<b>El</b> thilda <i>l</i>		ino Re	eal nyvale	Δνα	Ce	zanne	Dr	Fair	· Oaks	Δνα		<b>thilda</b> unnyva	
Scenarios Analyzed	Turning Movement	ıv	#1			#2			#3			#4			#5			#6	•	Sara	itoga R	ld #10
	_	Link		PM	Link	AM	PM	Link	AM	PM	Link	AM	PM	Link	AM	PM	Link	AM	PM	Link	AM	PM
	EBL	420	318	407	415	160	186	345	429 /	304	395	130	145	145	98	190	410	293 /	336		//	
	EBR		/						_			/	_		/	/	/			//	//	//
	WBL	500	138	356	310	103	277	215	29	260	265	154	289	235	49 <b>/</b>	152	230	268	444		//	//
Existing Traffic	WBR	225	<i>/</i>	242	425	<i>/</i>	227	320	479	213	/			//		//	380	154	207	/	/	/
	NBL	225	366	243	135	270 /	237	370	255 /	397	160	219	292 405				175	121	337	140	34	41
	NBR SBL	200	/	262	160	117	200	/	260	<i>/</i> 510	50 105	<b>85</b>	105 226		<i>_</i>	211	35	<b>77</b>	209 252	145	/	05
		200	233	362	160	117	<b>208</b>	435	268		105	84	220	50 50	83 220	311	320	234	353	145	44	85
	SBR	420	210	400	185	98	180	275 345	215 <b>429</b>	<b>496</b>	205	120	1.15	50	<b>329</b>	219	30	231	<b>99</b>	$\leftarrow$	_	
	EBL  EBR	420	319	408	415	160	186	345	429	305	395	130	145	145	98	190	410	293 /	339			
	WBL	<b></b>	140	265	210	103	270	215	<b>/</b> 29	261	265	160	305	235	<b>5</b> 0	<b>/</b> 152	220	<b>268</b>	445		//	//
	WBR	300	140	365	310	103	210	320	4 <b>79</b>	<b>261</b> 213	265	160	303	233	30	132	230 380	<b>266</b> 154	207		//	//
Existing + Project Traffic	NBL	225	<b>366</b>	244	135	/ 271	238	370	<b>479</b> 256	404	160	226	325				175	121	207 <b>337</b>	140	34	41
	NBR	223	300	244	133		236	3/0	230	404	50	220 87	115	//			35	77	209	140	34	<u> </u>
	SBL	200	/ 235	368	160	117	208	435	<b>/</b> 268	<b>/</b> 511	105	83	222	50	83	311	320	234	203 353	145	50	95
	SBR	200	233	<b>300</b>	185	98	180	275	215	500	100			50	330	220	30		101	143		95
	EBL	420	370	441	415	173	195	345	488	388	395	140	153	145	98	191	410	356	364			
	EBR	720	/		713		133	545	700			1-0		170		/	710	000	J04			
	WBL	500	<b>/</b> 150	<b>/</b> 374	310	108	<b>/</b> 273	215	<b>/</b> 29	/ 262	<b>/</b> 265	161	<b>294</b>	235	<b>5</b> 1	154	230	<b>2</b> 69	448			
Existing +	WBR			/	/	/			506		/			200			380		206			
Background Traffic	NBL	225	/ 375	<b>/</b> 249	135	/ 278	240		264		160	223	295				175	141	346	140	34	41
Tramo	NBR				/						50		106				35		213			, ,
	SBL	200	<b>/</b> 289	<b>407</b>	160	/ 152	238	435	<b>/</b> 296	<i>/</i> 531	105		234	50	84	314	320		389	145		85
	SBR					110			318					50	334		30		109			
	EBL	420	370	442		173			489		395	140	154	145	98	191	410		367			
	EBR																					
	WBL	500	<b>1</b> 52	382	310	108	<b>/</b> 274	215	<b>/</b> 29	<b>262</b>	265	166	309	235	51	154	230	269	449			
Existing + Background	WBR								506		/							I	206	//		
+ Project	NBL	<b>/</b> 225	/ 375	<b>251</b>	135	<b>278</b>	240		265		160	230	329				175	ļ	347	140	34	41
Traffic	NBR										50	89	116				35	82	213			
	SBL	200	<b>291</b>	413	160	<b>/</b> 153	239	435	<b>/</b> 296	<i>5</i> 34	105		230	50	84	314	320		390	145	50	96
	SBR	/				110			319					50	334		30		111	/		
		_	_	/	.00	0			٠.٠	J. 4	<u>/</u>	_	_		334			0		<u>/</u>		

Note: Locations where the queue length exceeds the link storage by 25 feet or more are shown in shaded cells. Operational Deficiencies are in red.

# Signal Warrants

MAJOR STREET:	S Mathilda Avenue	NB	SB	# OF APPROACH LANES:	3
MINOR STREET:	West Project Driveway	WB		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Conditions				

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N
N

	MAJOR ST	MINOR ST	Ped Count	MADD AND	T 1 - Condition	on A Dort 1	MADD AND	1 Conditio	n D Dort 1	WADDANI	F.1 Conditio	n A Dort 2	WADD WI	T 1 Conditi	on P. Dort 3	WARRANT 2	WARRANT 3
	TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
	TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	i oui-rioui	i eak i loui
THRESHOLD VALUES —	HALLIO	TIEXVI EEG	WAJOR OT	600	150	IVILI	900	75	IVILI	480	120	IVILI	720	60	IVILI	60	75
06:30 AM TO 07:30 AM		<u> </u>			100		300			700	120		120				
07:30 AM TO 08:30 AM																	
08:30 AM TO 09:30 AM	2,486	17		Υ			Υ			Υ			Υ				
09:30 AM TO 10:30 AM	2,100						·			·			·				
10:30 AM TO 11:30 AM																	
11:00 AM TO 12:00 PM																	
12:30 PM TO 01:30 PM																	
01:30 PM TO 02:30 PM																	
02:30 PM TO 03:30 PM																	
03:30 PM TO 04:30 PM																	
04:30 PM TO 05:30 PM																	
05:30 PM TO 06:30 PM	2,434	24		Υ			Υ			Υ			Υ				
06:30 PM TO 07:30 PM																	
07:30 PM TO 08:30 PM																	
08:30 PM TO 09:30 PM																	
09:30 PM TO 10:30 PM																	
	4,920	41	J	2	0	0	2	0	0	2	0	0	2	0	0	0	0
				0 L	IOURS NEE	DED	о Ц	OURS NEEL	)ED		0 HOLIDO	NEEDED to	r hoth Con	dition A & B		4 HRS NEEDED	1 UB NEEDE
				8 F	IOUKS NEE	טבט	8 H	OUKS NEEL	טבט		8 HOURS	NEEDED 10	r both Con	altion A & B			
				NOT SATISFIED				OT SATISFI	ED			NOT SA	TISFIED			NOT SATISFIED	NOT SATISFIED

MAJOR STREET:	Sunnyvale-Saratoga Road	NB	SB	# OF APPROACH LANES:	2
MINOR STREET:	Northeast Project Driveway	ЕВ		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Conditions				

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N
N

	•	,	•														,
	MAJOR ST	MINOR ST	Ped Count		1 - Condition			1 - Condition			Γ1 - Condition				on B, Part 2	WARRANT 2	WARRANT 3
	TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
	TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOLD VALUES —				600	150		900	75		480	120		720	60		60	75
06:30 AM TO 07:30 AM																	
07:30 AM TO 08:30 AM																	
08:30 AM TO 09:30 AM	691	12		Υ						Υ							
09:30 AM TO 10:30 AM																	
10:30 AM TO 11:30 AM																	
11:00 AM TO 12:00 PM																	
12:30 PM TO 01:30 PM																	
01:30 PM TO 02:30 PM																	
02:30 PM TO 03:30 PM																	
03:30 PM TO 04:30 PM																	
04:30 PM TO 05:30 PM																	
05:30 PM TO 06:30 PM	999	28		Υ			Υ			Υ			Υ				
06:30 PM TO 07:30 PM																	
07:30 PM TO 08:30 PM																	
08:30 PM TO 09:30 PM																	
09:30 PM TO 10:30 PM																	
	1,690	40		2	0	0	1	0	0	2	0	0	1	0	0	0	0
	,	•	•														
				8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	r both Con	dition A & B		4 HRS NEEDED	1 HR NEEDED
				N	OT SATISFI	ED	NO	OT SATISFI	ED			NOT SA	TISFIED			NOT SATISFIED	NOT SATISFIED

MAJOR STREET:	Sunnyvale-Saratoga Road	NB	SB	# OF APPROACH LANES:	2
MINOR STREET:	Southeast Project Driveway	ЕВ		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Conditions				

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N N

	•	7											,			•	,
	MAJOR ST	MINOR ST	Ped Count		1 - Condition			1 - Condition			1 - Condition				on B, Part 2		WARRANT 3
	TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
	TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOLD VALUES —				600	150		900	75		480	120		720	60		60	75
06:30 AM TO 07:30 AM																	
07:30 AM TO 08:30 AM																	
08:30 AM TO 09:30 AM	691	14		Υ						Υ							
09:30 AM TO 10:30 AM																	
10:30 AM TO 11:30 AM																	
11:00 AM TO 12:00 PM																	
12:30 PM TO 01:30 PM																	
01:30 PM TO 02:30 PM																	
02:30 PM TO 03:30 PM																	
03:30 PM TO 04:30 PM																	
04:30 PM TO 05:30 PM																	
05:30 PM TO 06:30 PM	979	32		Υ			Υ			Υ			Υ				
06:30 PM TO 07:30 PM																	
07:30 PM TO 08:30 PM																	
08:30 PM TO 09:30 PM																	
09:30 PM TO 10:30 PM																	
	1,670	46		2	0	0	1	0	0	2	0	0	1	0	0	0	0
		•	•														
				8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	or both Con	dition A & B		4 HRS NEEDED	1 HR NEEDED
				N	OT SATISFI	ED	NO	OT SATISFI	ED			NOT SA	TISFIED			NOT SATISFIED	NOT SATISFIED

MAJOR STREET:	S Mathilda Avenue	NB	SB	# OF APPROACH LANES:	3
				,	
MINOR STREET:	West Project Driveway	WB		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Plus Poject Conditions				

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N
N

		T					r									1	1
	MAJOR ST	MINOR ST	Ped Count		1 - Condition			1 - Condition			Γ1 - Condition				on B, Part 2		WARRANT 3
	TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
	TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOLD VALUES —				600	150		900	75		480	120		720	60		60	75
06:30 AM TO 07:30 AM																	
07:30 AM TO 08:30 AM																	
08:30 AM TO 09:30 AM	2,490	18		Υ			Υ			Υ			Υ				
09:30 AM TO 10:30 AM																	
10:30 AM TO 11:30 AM																	
11:00 AM TO 12:00 PM																	
12:30 PM TO 01:30 PM																	
01:30 PM TO 02:30 PM																	
02:30 PM TO 03:30 PM																	
03:30 PM TO 04:30 PM																	
04:30 PM TO 05:30 PM																	
05:30 PM TO 06:30 PM	2,446	26		Υ			Υ			Υ			Υ				
06:30 PM TO 07:30 PM																	
07:30 PM TO 08:30 PM																	
08:30 PM TO 09:30 PM																	
09:30 PM TO 10:30 PM																	
	4,936	44		2	0	0	2	0	0	2	0	0	2	0	0	0	0
			=														
				8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	r both Con	dition A & B		4 HRS NEEDED	1 HR NEEDED
				N	OT SATISFI	ED	NO	OT SATISFII	ED			NOT SA	TISFIED			NOT SATISFIED	NOT SATISFIED

MAJOR STREET:	Sunnyvale-Saratoga Road	NB	SB	# OF APPROACH LANES:	2
MINOR STREET:	Northeast Project Driveway	EB		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Plus Poject Conditions				

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N N

			MAJOR ST	MINOR ST	Ped Count	WARRAN	Γ1 - Condition	on A, Part 1	WARRANT	1 - Condition	on B, Part 1	WARRANT	⊺1 - Conditio	on A, Part 2	WARRAN	Γ1 - Conditi	on B, Part 2	WARRANT 2	WARRANT 3
			TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
			TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOL	D VALU	ES —		<u> </u>		600	150		900	75		480	120		720	60		60	75
06:30 AM	TO	07:30 AM																	
07:30 AM	TO	08:30 AM																	
08:30 AM	TO	09:30 AM	781	19		Υ						Υ			Υ				
09:30 AM	TO	10:30 AM																	
10:30 AM	TO	11:30 AM																	
11:00 AM	TO	12:00 PM																	
12:30 PM	TO	01:30 PM																	
01:30 PM	TO	02:30 PM																	
02:30 PM	TO	03:30 PM																	
03:30 PM	TO	04:30 PM																	
04:30 PM	TO	05:30 PM																	
05:30 PM	TO	06:30 PM	1,046	59		Υ			Υ			Υ			Υ				
06:30 PM	TO	07:30 PM																	
07:30 PM	TO	08:30 PM																	
08:30 PM	TO	09:30 PM																	
09:30 PM	TO	10:30 PM																	
			1,827	78		2	0	0	1	0	0	2	0	0	2	0	0	0	0
						8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	r both Con	dition A & B		4 HRS NEEDED	1 HR NEEDE
						N	OT SATISFI	ED	N	OT SATISFI	ED	NOT SATISFIED			NOT SATISFIED	NOT SATISFIED			

MAJOR STREET:	Sunnyvale-Saratoga Road	NB	SB	# OF APPROACH LANES:	2
MINOR STREET:	Southeast Project Driveway	EB		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Plus Poject Conditions				

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

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N

		MA IOD OT	MINIOD OT	D. I O I	LA/ADD AND	4 0 12	A D	WADDANII	O 120	. D. D 4	IMA DO ANIZ		. A D	LAZADDANI	F.4. O 1717	D. D 0	IMARDANIT O	MADDANITA
		MAJOR ST	MINOR ST	Ped Count					1 - Condition								WARRANT 2	WARRANT 3
		TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
		TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOLD VALUE		,			600	150		900	75		480	120		720	60		60	75
06:30 AM TO	07:30 AM																	
07:30 AM TO	08:30 AM																	
08:30 AM TO	09:30 AM	700	17		Y						Υ							
09:30 AM TO	10:30 AM																	
10:30 AM TO	11:30 AM																	
11:00 AM TO	12:00 PM																	
12:30 PM TO	01:30 PM																	
01:30 PM TO	02:30 PM																	
02:30 PM TO	03:30 PM																	
03:30 PM TO	04:30 PM																	
04:30 PM TO	05:30 PM																	
05:30 PM TO	06:30 PM	1,005	46		Υ			Υ			Υ			Υ				
06:30 PM TO	07:30 PM																	
07:30 PM TO	08:30 PM																	
08:30 PM TO	09:30 PM																	
09:30 PM TO	10:30 PM																	
		1,705	63		2	0	0	1	0	0	2	0	0	1	0	0	0	0
				=														
					8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	r both Con	dition A & B		4 HRS NEEDED	1 HR NEEDED
					N	OT SATISFI	ED	N	OT SATISFI	ED			NOT SA	TISFIED			NOT SATISFIED	NOT SATISFIED

MAJOR STREET:	S Mathilda Avenue	NB	SB	# OF APPROACH LANES:	3
				,	
MINOR STREET:	West Project Driveway	WB		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Plus Background Conditions				

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N
N

	1	,	•														
	MAJOR ST	MINOR ST	Ped Count		1 - Condition			1 - Condition			Γ1 - Condition				on B, Part 2	WARRANT 2	WARRANT 3
	TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
	TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOLD VALUES —		<b>─</b>		600	150		900	75		480	120		720	60		60	75
06:30 AM TO 07:30 AM																	
07:30 AM TO 08:30 AM																	
08:30 AM TO 09:30 AM	2,764	17		Υ			Y			Υ			Υ				
09:30 AM TO 10:30 AM																	
10:30 AM TO 11:30 AM																	
11:00 AM TO 12:00 PM																	
12:30 PM TO 01:30 PM																	
01:30 PM TO 02:30 PM																	
02:30 PM TO 03:30 PM																	
03:30 PM TO 04:30 PM																	
04:30 PM TO 05:30 PM																	
05:30 PM TO 06:30 PM	2,729	24		Υ			Υ			Υ			Υ				
06:30 PM TO 07:30 PM																	
07:30 PM TO 08:30 PM																	
08:30 PM TO 09:30 PM																	
09:30 PM TO 10:30 PM																	
	5,493	41		2	0	0	2	0	0	2	0	0	2	0	0	0	0
		•	=														
				8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	r both Con	dition A & B	·	4 HRS NEEDED	1 HR NEEDED
				N	OT SATISFI	ED	NO	OT SATISFII	ED	NOT SATISFIED			NOT SATISFIED	NOT SATISFIED			

MAJOR STREET:	Sunnyvale-Saratoga Road	NB	SB	# OF APPROACH LANES:	2
MINOR STREET:	Northeast Project Driveway	EB		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Plus Background Conditions				

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N
N

	MAJOR ST	MINOR ST	Ped Count		1 - Condition			1 - Condition			Γ1 - Condition						WARRANT 3
	TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
	TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOLD VALUES —		<del></del>		600	150		900	75		480	120		720	60		60	75
06:30 AM TO 07:30 AM																	
07:30 AM TO 08:30 AM																	
08:30 AM TO 09:30 AM	711	12		Υ						Υ							
09:30 AM TO 10:30 AM																	
10:30 AM TO 11:30 AM																	
11:00 AM TO 12:00 PM																	
12:30 PM TO 01:30 PM																	
01:30 PM TO 02:30 PM																	
02:30 PM TO 03:30 PM																	
03:30 PM TO 04:30 PM																	
04:30 PM TO 05:30 PM																	
05:30 PM TO 06:30 PM	1,019	28		Υ			Υ			Υ			Υ				
06:30 PM TO 07:30 PM																	
07:30 PM TO 08:30 PM																	
08:30 PM TO 09:30 PM																	
09:30 PM TO 10:30 PM																	
	1,730	40		2	0	0	1	0	0	2	0	0	1	0	0	0	0
			•														
				8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	r both Con	dition A & B		4 HRS NEEDED	1 HR NEEDED
				NOT SATISFIED			NOT SATISFIED			NOT SATISFIED						NOT SATISFIED	NOT SATISFIED

MAJOR STREET:	Sunnyvale-Saratoga Road	NB	SB	# OF APPROACH LANES:	2
MINOR STREET:	Southeast Project Driveway	EB		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Plus Background Conditions				

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N
N

	•	7	•										,				
	MAJOR ST	MINOR ST	Ped Count		1 - Condition			1 - Condition			1 - Condition				on B, Part 2	WARRANT 2	WARRANT 3
	TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
	TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOLD VALUES —		<del></del>		600	150		900	75		480	120		720	60		60	75
06:30 AM TO 07:30 AM																	
07:30 AM TO 08:30 AM																	
08:30 AM TO 09:30 AM	711	14		Υ						Y							
09:30 AM TO 10:30 AM																	
10:30 AM TO 11:30 AM																	
11:00 AM TO 12:00 PM																	
12:30 PM TO 01:30 PM																	
01:30 PM TO 02:30 PM																	
02:30 PM TO 03:30 PM																	
03:30 PM TO 04:30 PM																	
04:30 PM TO 05:30 PM																	
05:30 PM TO 06:30 PM	999	32		Υ			Υ			Υ			Υ				
06:30 PM TO 07:30 PM																	
07:30 PM TO 08:30 PM																	
08:30 PM TO 09:30 PM																	
09:30 PM TO 10:30 PM																	
	1,710	46		2	0	0	1	0	0	2	0	0	1	0	0	0	0
			_														
				8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	r both Con	dition A & B		4 HRS NEEDED	1 HR NEEDED
				NOT SATISFIED			NOT SATISFIED			NOT SATISFIED						NOT SATISFIED	NOT SATISFIED

MAJOR STREET:	S Mathilda Avenue	NB	SB	# OF APPROACH LANES:	3
MINOR STREET:	West Project Driveway	WB		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Plus Background Plus Po	ject Conditions			

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N N

	MAJOR ST	MINOR ST	Ped Count	WARRANT	1 - Conditi	on A Part 1	WARRANT	1 - Conditio	on B. Part 1	WARRANT	1 - Condition	on A Part 2	WARRANT	1 - Conditio	on B, Part 2	WARRANT 2	WARRANT 3
	TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
	TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOLD VALUES —		<b>—</b>		600	150		900	75		480	120		720	60		60	75
06:30 AM TO 07:30 AM																	
07:30 AM TO 08:30 AM																	
08:30 AM TO 09:30 AM	2,768	18		Υ			Υ			Υ			Υ				
09:30 AM TO 10:30 AM																	
10:30 AM TO 11:30 AM																	
11:00 AM TO 12:00 PM																	
12:30 PM TO 01:30 PM																	
01:30 PM TO 02:30 PM																	
02:30 PM TO 03:30 PM																	
03:30 PM TO 04:30 PM																	
04:30 PM TO 05:30 PM										V							
05:30 PM TO 06:30 PM		26		Y			Y			Y			Y				
06:30 PM TO 07:30 PM																	
07:30 PM TO 08:30 PM		-															
08:30 PM TO 09:30 PM 09:30 PM TO 10:30 PM																	
09:30 PM TO 10:30 PM		44		_	^		_	_		_	_		_	_	_		
	5,509	44		2	0	0	2	0	0	2	0	0	2	0	0	0	0
				8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	r both Cond	dition A & B		4 HRS NEEDED	1 HR NEEDED
				NO	OT SATISFI				FIED NOT SATISFIED							NOT SATISFIED	NOT SATISFIED

MAJOR STREET:	Sunnyvale-Saratoga Road	NB	SB	# OF APPROACH LANES:	2
MINOR STREET:	Northeast Project Driveway	EB		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Plus Background Plus Poje	ct Conditions			

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N N

					I													· · · · · · · · · · · · · · · ·
		MAJOR ST	MINOR ST	Ped Count	WARRAN				1 - Condition			1 - Condition				on B, Part 2	WARRANT 2	WARRANT 3
		TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
		TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOLD VALUE	s —		$\longrightarrow$		600	150		900	75		480	120		720	60		60	75
06:30 AM TO	07:30 AM																	
07:30 AM TO	08:30 AM																	
08:30 AM TO	09:30 AM	727	19		Υ						Υ			Υ				
09:30 AM TO	10:30 AM																	
10:30 AM TO	11:30 AM																	
11:00 AM TO	12:00 PM																	
12:30 PM TO	01:30 PM																	
01:30 PM TO	02:30 PM																	
02:30 PM TO	03:30 PM																	
03:30 PM TO	04:30 PM																	
04:30 PM TO	05:30 PM																	
05:30 PM TO	06:30 PM	1,067	59		Υ			Y			Y			Υ				
06:30 PM TO	07:30 PM																	
07:30 PM TO	08:30 PM																	
08:30 PM TO	09:30 PM																	
09:30 PM TO	10:30 PM																	
		1,794	78		2	0	0	1	0	0	2	0	0	2	0	0	0	0
					8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	or both Con	dition A & B		4 HRS NEEDED	1 HR NEEDED
					N	OT SATISFI	ED	N	OT SATISFII	ED			NOT SA	TISFIED			NOT SATISFIED	NOT SATISFIED

MAJOR STREET:	Sunnyvale-Saratoga Road	NB	SB	# OF APPROACH LANES:	2
MINOR STREET:	Southeast Project Driveway	EB		# OF APPROACH LANES:	1
CITY, STATE:	Sunnyvale, CA				
COMMENTS:	Existing Plus Background Plus Pojec	ct Conditions			

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N	
N	

		MA IOD OT	MINIOD OT	D. I C	LA/ADD AND	4 0 12	A D	WADDANII	4 0 122	. D. D 4	WADD AND		. A D	LAZADDANI	F.4. O 1717	D. D 0	MADDANITA	MADDANITA
		MAJOR ST	MINOR ST	Ped Count											Γ1 - Conditi		WARRANT 2	WARRANT 3
		TWO-WAY	TRAFFIC	CROSSING	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	MAIN	SIDE	BOTH	Four-Hour	Peak Hour
		TRAFFIC	HEAVY LEG	MAJOR ST	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET	LINE	STREET	MET		
THRESHOLD VALUE		,			600	150		900	75		480	120		720	60		60	75
06:30 AM TO	07:30 AM																	
07:30 AM TO	08:30 AM																	
08:30 AM TO	09:30 AM	720	17		Y						Y			Y				
09:30 AM TO	10:30 AM																	
10:30 AM TO	11:30 AM																	
11:00 AM TO	12:00 PM																	
12:30 PM TO	01:30 PM																	
01:30 PM TO	02:30 PM																	
02:30 PM TO	03:30 PM																	
03:30 PM TO	04:30 PM																	
04:30 PM TO	05:30 PM																	
05:30 PM TO	06:30 PM	1,024	46		Υ			Υ			Υ			Υ				
06:30 PM TO	07:30 PM																	
07:30 PM TO	08:30 PM																	
08:30 PM TO	09:30 PM																	
09:30 PM TO	10:30 PM																	
		1,744	63		2	0	0	1	0	0	2	0	0	2	0	0	0	0
				-														
					8 H	OURS NEE	DED	8 H	OURS NEE	DED		8 HOURS	NEEDED fo	r both Con	dition A & B		4 HRS NEEDED	1 HR NEEDED
					N	OT SATISFI	ED	N	OT SATISFI	ED			NOT SA	TISFIED			NOT SATISFIED	NOT SATISFIED

# Mitigations

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# City of Sunnyvale Oppidan Grocery Store (777 Sunnvyale-Saratoga Road) 097318104

Level Of Service Computation Report  2000 HCM Operations Method (Future Volume Alternative)													
2000 HCM Operations Method (Future volume Alternative)													
Intersection #4 S. Sunnyvale Avenue / El Camino Real													
Cycle (sec): 120 Loss Time (sec): 12							ge Delay (sec/veh):						
						_		_		•	C-		
Optimal Cycle: 51 Level Of Service: C-													
Street Name: S. Sunnyvale Avenue El Camino Real													
	No	o. d v+h Da	ouiiiiy va	South Bound			E-				West Bound		
Approach: Movement:	L - T - R								- R		est bo - T		
Movement:													
Control:				Protected					ted	1			
	Protected Ovl			Protected Include						Protected Include			
Rights:	7		1.0				7	Inclu 10		7 10 10			
			10			10			10				
Y+R:	4.0		4.0		4.0	4.0		4.0	4.0 1 0		4.0	4.0	
Lanes:			0 1						I			1 0	
Volume Module Base Vol:		221	7.4	100	251	E 6	1 = 0	1 / / 1	110	160	700	70	
	139		74	189		56		1441	118	162			
Growth Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Initial Bse:		231	74	189	251	56		1441	118	162	790	70	
Added Vol:	19		8	0	7	0	0	0	16	9	0	0	
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:			82	189	258	56		1441	134	171	790	70	
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
PHF Volume:	158	238	82	189	258	56		1441	134	171	790	70	
	1.50	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:			82	189	258	56		1441	134	171		70	
PCE Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
MLF Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00	
FinalVolume:		238	82	189	258	56		1441	134	171	790	70	
	I		- 1										
Saturation F				1000	1000	1000	1000	1000	1000	1000	1000	1000	
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900	
-	0.92		0.92		0.98	0.95		0.99	0.95		0.99	0.95	
Lanes:		2.00	1.00		1.63	0.37		2.74	0.26		2.75	0.25	
Final Sat.:		3800	1750		3040	660 l		5123	476		5144	456 	
	I		1										
Capacity Anal Vol/Sat:				0 06	0 00	0 00	0 0 5	0 20	0 20	0 10	0 1 5	0 1 5	
	****	0.06	0.05	0.06	****	0.00	0.05	U.∠O ****	0.28	****	0.15	0.15	
Crit Moves:		21 0	40 1	1 = 0		1 5 7	10 2		E2 2		E0 0	E0 0	
Green Time: Volume/Cap:		21.9	40.1		15.7	15.7		52.2	52.2		50.9	50.9 0.36	
		0.34	0.14		0.65	0.65			0.65		0.36		
Delay/Veh:		43.0	28.1		52.5	52.5		27.3	27.3		23.6	23.6	
User DelAdj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00	
AdjDel/Veh:		43.0	28.1		52.5	52.5		27.3	27.3		23.6	23.6	
LOS by Move:	D		C 114	D 212	D-	D-	D 147	C 6.40	C 640	D-	C	C 224	
HCM2k95thQ:	292	197 *****	114	213	321	321	147		649 *****	310	334	334	

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# City of Sunnyvale Oppidan Grocery Store (777 Sunnvyale-Saratoga Road) 097318104

Level Of Service Computation Report													
2000 HCM Operations Method (Future Volume Alternative)													
**************************************													
Intersection #4 S. Sunnyvale Avenue / El Camino Real													
Cycle (sec): 120													
Loss Time (se						:	33.6						
Optimal Cycle				Of Service: C-									
Optimal Cycle: 53 Level Of Service: C- ************************************													
Street Name:	le Ave	enue											
Approach:	North Bound						Εá	ast Bo	ound	West Bound			
Movement:	L -	- T	- R	L -	- T	- R	L -	- T	- R	L -	- T		
Control:				Protected									
Rights:	Ovl			Include				Inclu		Include			
Min. Green:		10	10		10	10		10	10	7		10	
Y+R:		4.0	4.0		4.0		4.0			4.0		4.0	
Lanes:			0 1			1 0			1 0		0 2		
Volume Module:													
Base Vol:	139	231	74	189	251	56	159	1441	118	162	790	70	
Growth Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Initial Bse:		231	74	189	251	56		1441	118	162	790	70	
Added Vol:	19	15	8	8	17	6	8	38	16	10	41	7	
PasserByVol:		0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	158	246	82	197	268	62	167	1479	134	172	831	77	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	158	246	82	197	268	62	167	1479	134	172	831	77	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:			82	197		62	167	1479	134	172	831	77	
PCE Adj:	1.00		1.00		1.00	1.00		1.00	1.00		1.00	1.00	
MLF Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00	
FinalVolume:			82	197		62		1479	134	172		77	
	1		1										
Saturation F				1000	1000	1000	1000	1000	1000	1000	1000	1000	
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900	
Adjustment: Lanes:	1.00		0.92 1.00		0.98	0.95 0.39		0.99	0.95 0.26		0.99	0.95 0.26	
Final Sat.:			1750		3004	695		5134	465		5124	475	
				1	3004	l	1	2134	1	1	3124		
Vol/Sat:		0.06	0.05	0.06	0.09	0.09	0.05	0.29	0.29	0.10	0.16	0.16	
Crit Moves:	****				****			****		****			
Green Time:	22.0	21.8	39.6	16.3	16.1	16.1	18.5	52.1	52.1	17.8	51.4	51.4	
Volume/Cap:		0.36	0.14		0.66	0.66		0.66	0.66		0.38	0.38	
Delay/Veh:		43.3	28.4		52.7	52.7		27.7	27.7		23.5	23.5	
User DelAdj:			1.00		1.00	1.00		1.00	1.00	1.00		1.00	
AdjDel/Veh:		43.3	28.4	48.5	52.7	52.7	45.8	27.7	27.7	54.6	23.5	23.5	
LOS by Move:	D	D	C	D	D-	D-	D	С	С	D-	C	C	
HCM2k95thQ:	292	204	114	220	337	337	156	669	669	314	352	352	
*****	****	*****	****	****	*****	*****	****	* * * * * *	*****	****	*****	****	