

LIMITED SCOPE TRAFFIC IMPACT ANALYSIS

BEE CANYON GREENERY
IRVINE, CALIFORNIA
PLANNING AREA 3

This Limited Scope Traffic Impact Analysis has been prepared under the supervision of
Ambarish Mukherjee, P.E.

Signed

A. Mukherjee 06/21/19



LSA

June 21, 2019

LIMITED SCOPE TRAFFIC IMPACT ANALYSIS

BEE CANYON GREENERY IRVINE, CALIFORNIA PLANNING AREA 3

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Project No. OCY1701.09



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EXECUTIVE SUMMARY

The purpose of this Limited Scope Traffic Impact Analysis (TIA) is to determine short-term traffic impacts resulting from the proposed Bee Canyon Greenery composting operation at the Frank R. Bowerman (FRB) Landfill at 11002 Bee Canyon Access Road in Planning Area 3 (Limestone Canyon – Open Space) of Irvine, California.

The existing FRB Landfill site (located in Traffic Analysis Zone [TAZ] 20) receives approximately 850 tons per day of processed green material (PGM). The proposed Bee Canyon Greenery operation would compost approximately 595 tons of PGM per day on site. Because the PGM is already coming into the FRB Landfill, no additional traffic would be generated for the intake of PGM. However, after the composting process is complete, 595 tons of compost would be delivered to markets inside and outside Orange County. The daily compost delivery would require approximately 30 dump trucks, generating 60 average daily trips (ADT). The designated truck route to/from the FRB Landfill and regional locations is Interstate 5 (I-5), Sand Canyon Avenue, Portola Parkway, and Bee Canyon Access Road.

The existing FRB Landfill is open from 7:00 a.m. to 5:00 p.m., Monday through Saturday. The proposed Bee Canyon Greenery would have the same hours of operation. To present a conservative, worst-case estimate for trip generation of the Bee Canyon Greenery project (project), it is assumed that approximately 25 percent of the truck trips would occur during the peak-hour periods. This is equivalent to approximately 60 ADT, with 8 trips in the a.m. peak hour (4 inbound and 4 outbound) and 8 trips in the p.m. peak hour (4 inbound and 4 outbound). The remaining 44 trips (22 inbound and 22 outbound) would occur outside the peak-hour periods.

This study focuses on the a.m. peak-hour and p.m. peak-hour levels of service (LOS) at seven intersections. Project impacts were determined based on an analysis of the following scenarios:

- Short-Term Interim Year Approved Baseline
- Short-Term Interim Year Approved Plus Project
- Short-Term Interim Year Pending Baseline
- Short-Term Interim Year Pending Plus Project

On the basis of the results of this analysis, the project can be implemented without impacting the design or operation of the surrounding roadway system. An evaluation of intersection LOS shows that the addition of project traffic to the Short-Term Interim Year conditions would not significantly impact the study area intersections, according to the City of Irvine performance criteria.

Project access was analyzed based on the City's Transportation Design Procedures (TDPs, adopted in February 2007). As a result, no impacts to vehicle access were identified using the following TDPs:

- **TDP-1:** Turn-Lane Pocket Lengths
- **TDP-14:** Driveway Lengths

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LIST OF ABBREVIATIONS AND ACRONYMS

ADT	average daily traffic
City	City of Irvine
FRB	Frank R. Bowerman
ft	foot/feet
I-5	Interstate 5
ICU	intersection capacity utilization
ITAM	Irvine Transportation Analysis Model
LOS	level(s) of service
mph	miles per hour
PGM	processed green material
project	Bee Canyon Greenery project
TAZ	Traffic Analysis Zone
TDP(s)	Transportation Design Procedure(s)
TIA	Traffic Impact Analysis
v/c	volume-to-capacity

LIMITED SCOPE TRAFFIC IMPACT ANALYSIS BEE CANYON GREENERY

LSA has prepared the following Limited Scope Traffic Impact Analysis (TIA) to identify the short-term traffic impacts resulting from the proposed Bee Canyon Greenery composting operation at the Frank R. Bowerman (FRB) Landfill at 11002 Bee Canyon Access Road in Planning Area 3 (Limestone Canyon – Open Space) of Irvine, California. LSA has prepared this analysis consistent with the approved scope of work, dated May 7, 2019 (Appendix A). This Limited Scope TIA was prepared in accordance with the applicable sections of the City of Irvine (City) *Traffic Impact Analysis Guidelines* (adopted by the City Council on August 24, 2004) and the City's Transportation Design Procedures (TDPs).

INTRODUCTION

Project Site

Figure 1 shows the project site location. The existing FRB Landfill site (located in Traffic Analysis Zone [TAZ] 20) receives approximately 850 tons per day of processed green material (PGM). The proposed Bee Canyon Greenery operation would compost approximately 595 tons of PGM per day on site. Because the PGM is already coming into the FRB Landfill, there would be no additional traffic generated for the intake of PGM. However, after the composting process is complete, 595 tons of compost would be delivered to markets inside and outside Orange County. The daily compost delivery would require approximately 30 dump trucks, generating 60 average daily traffic (ADT). The designated truck route to/from the FRB Landfill and regional locations is Interstate 5 (I-5), Sand Canyon Avenue, Portola Parkway, and Bee Canyon Access Road. Figure 2 illustrates a site plan of the project.

The existing FRB Landfill is open from 7:00 a.m. to 5:00 p.m., Monday through Saturday. The proposed Bee Canyon Greenery would have the same hours of operation.

Study Area Boundary

As shown on Figure 1, the study area includes the following intersections:

1. Bee Canyon Access Road/Portola Parkway
2. Sand Canyon Avenue/Portola Parkway
3. Sand Canyon Avenue/Irvine Boulevard
4. Sand Canyon Avenue/Trabuco Road–Great Park Boulevard
5. Sand Canyon Avenue/I-5 northbound ramps
6. Sand Canyon Avenue/Marine Way
7. Sand Canyon Avenue/I-5 southbound ramps

Existing, General Plan, and Proposed Site Uses

The current City of Irvine General Plan (2015) designation for the project site is Recreation with Landfill Overlay. The current zoning is 1.7: Landfill Overlay.

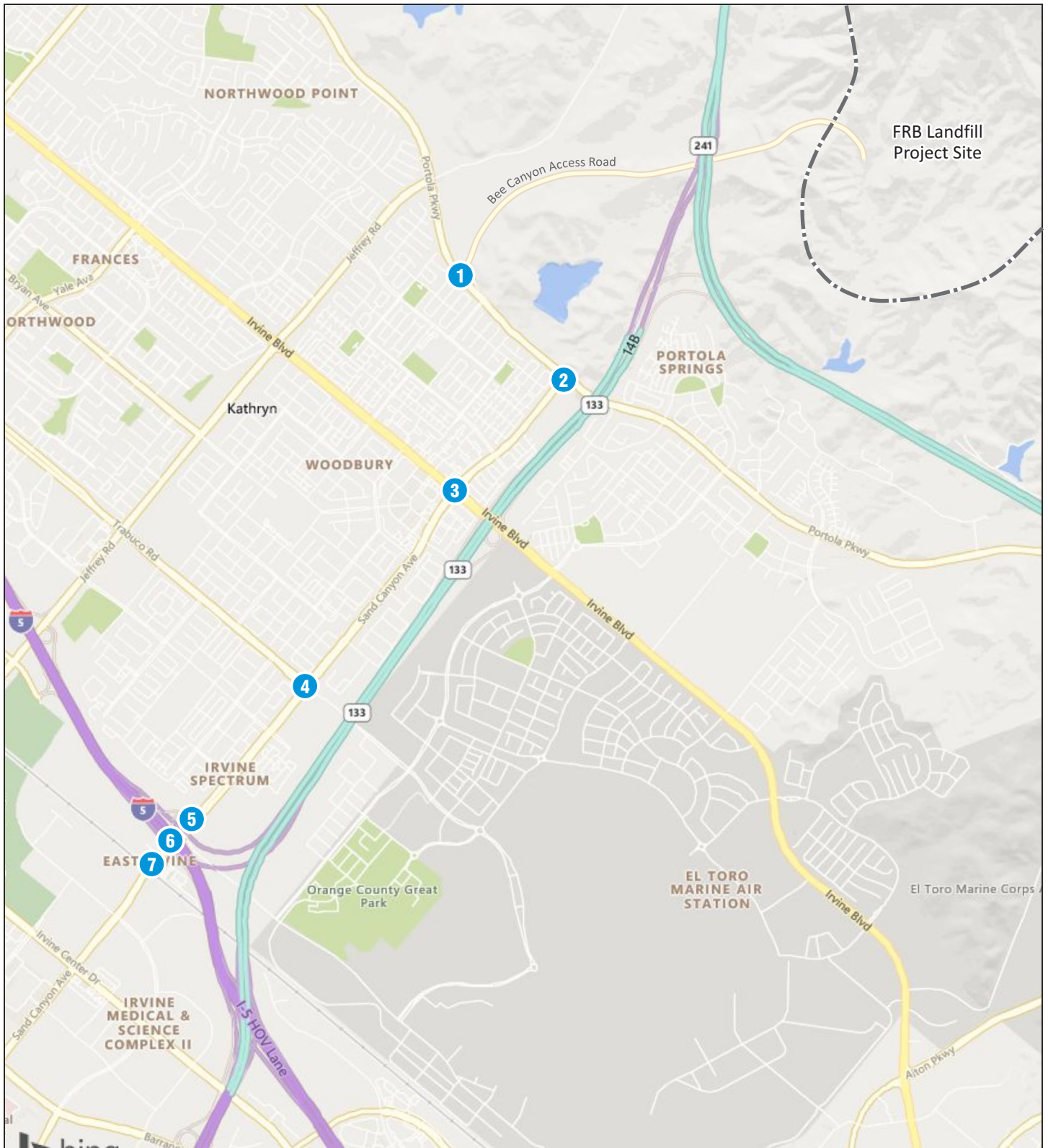
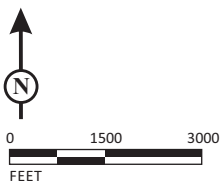


FIGURE 1

LSA

LEGEND

- Study Area Intersection



SOURCE: Bing Maps

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Bee Canyon Greenery
Project Location and
Study Area Intersections

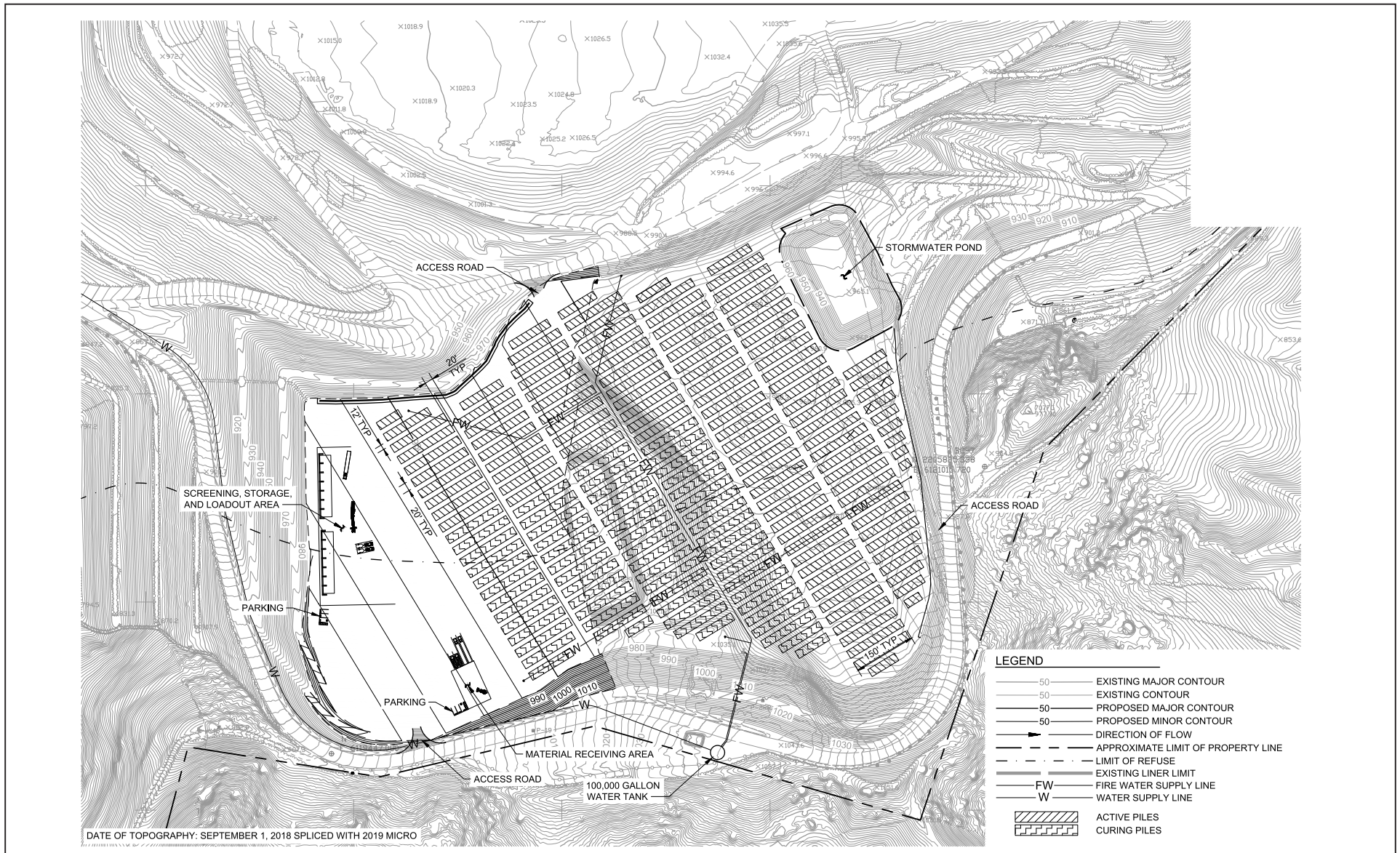


FIGURE 2

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SOURCE: Tetra Tech/BAS (3/2019)

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Bee Canyon Greenery

Site Plan

PERFORMANCE CRITERIA

To determine the peak-hour operations at signalized intersections in the study area, the intersection capacity utilization (ICU) methodology was used. The ICU methodology compares the volume-to-capacity (v/c) ratios of conflicting turn movements at an intersection, sums these critical conflicting v/c ratios for each intersection approach, and determines the overall ICU. The resulting ICU is expressed in terms of level of service (LOS), where LOS A represents free-flow activity and LOS F represents overcapacity operation. Parameters set by the City for ICU calculations, including lane capacity, right-turn treatment, and clearance interval, are included in this analysis.

According to the City's *Traffic Impact Analysis Guidelines* and consistent with the City's General Plan, LOS at an intersection or roadway is considered unsatisfactory when the ICU exceeds 0.90 (i.e., LOS E or F). The following table demonstrates the relationship of ICU to LOS.

Level of Service	ICU
A	0.00–0.60
B	0.61–0.70
C	0.71–0.80
D	0.81–0.90
E	0.91–1.00
F	> 1.00

Source: City of Irvine *Traffic Impact Analysis Guidelines* (2004).
ICU = intersection capacity utilization

Using the City's adopted methodologies (ICU for signalized intersections), a project impact would occur if the project causes a signalized intersection to exceed the acceptable LOS or if the signalized intersection in question exceeds the acceptable LOS and the impact of development is greater than or equal to 0.02.

The project driveway is analyzed based on the design criteria recommended in the City's TDPs. The TDPs establish uniform policies and procedures for reviewing traffic design plans in Irvine. The TDPs were used to evaluate the roadway design features that may be impacted by the project. A description and an analysis of each applicable design criterion are provided later in this Limited Scope TIA.

ANALYSIS METHODOLOGY AND APPROACH

The future baseline (no project) conditions were developed based on the latest Irvine Transportation Analysis Model (ITAM). The future baseline peak-hour traffic volumes for the study area intersections in ITAM were extracted. For the intersection of Bee Canyon Access Road/Portola Parkway, which is not currently in ITAM, existing peak-hour counts were conducted on May 21, 2019, to determine the turn volumes into and out of Bee Canyon Access Road. The Bee Canyon Access Road volumes were not adjusted for growth because the road only provides access to and from the FRB Landfill. Therefore, the existing Bee Canyon Access Road volumes were used for the future baseline volumes. The future baseline volumes at the adjacent arterial intersection of Sand Canyon Avenue/Portola Parkway were used to develop the future through volumes along Portola Parkway.

The “approved” condition represents the planned growth for the City per the General Plan, as well as each application for development currently approved by the City. The “pending” condition represents the planned growth for the City per the General Plan, as well as all the projects in the City that are approved but not yet built and are currently under review. The plus project conditions were determined by manually assigning the project trip generation to their respective baseline conditions at the study intersections.

The future conditions are based on the funded roadway network and land use assumptions envisioned to be in place by the short-term interim year. This future traffic analysis requires two ITAM runs. These ITAM runs are examined without the project in the approved and pending development scenarios.

LSA prepared the forecast data for this project based on the latest version of ITAM. The scenarios examined for the future condition are as follows:

- **Short-Term Interim Year Approved Baseline:** The ITAM 2023 run (Y23-15 or higher) includes the impacts of each application for development approved by the City. Any additional development beyond the existing uses for the project that might be assumed in ITAM were deleted for the analysis of this scenario.
- **Short-Term Interim Year Pending Baseline:** The ITAM 2023 run (Y23-15 or higher) includes the impacts of each application for development approved and under review by the City. Any additional development beyond the existing uses for the project that might be assumed in ITAM were deleted for the analysis of this scenario.

Project impacts are identified at study area intersections for the approved and pending baseline conditions, assuming improvements to the circulation system identified by the City. Traffic volumes and LOS calculations for the approved and pending baseline and plus project scenarios are referenced throughout this Limited Scope TIA and are provided in Appendix B.

PROPOSED PROJECT TRAFFIC

Trip Generation

The trip generation from the project is based on operational information from OC Waste & Recycling. As previously described, daily compost delivery would require 30 trucks. In order to present a conservative, worst-case estimate for trip generation of the project, it is assumed that approximately 25 percent of the truck trips would occur during the peak-hour periods.

As shown in Table A, the project would generate 60 ADT, with 8 trips in the a.m. peak hour (4 inbound, 4 outbound) and 8 trips in the p.m. peak hour (4 inbound, 4 outbound). The remaining 44 trips (22 inbound, 22 outbound) would occur outside the peak-hour periods.

Table A: Project Trip Generation

Trip Type	Quantity	ADT	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Trucks	30	60	4	4	8	4	4	8

Source: OC Waste & Recycling (May 2019).

ADT = average daily trips

For the approved and pending plus project conditions, the project trips have been added to the short-term interim year approved and pending baseline conditions, respectively.

Trip Distribution and Assignment

The directions of approach to and departure from the site are based on operational information from OC Waste & Recycling and the City's designated truck routes (e.g., Sand Canyon Avenue, Portola Parkway, and I-5). Approximately 50 percent of the trips are destined north on I-5 and 50 percent are destined south on I-5. The results of the impact analysis and the access analysis are discussed later in this Limited Scope TIA. Figure 3 illustrates the project trip distribution and assignment.

EXISTING CONDITIONS

Existing Site Uses

The existing FRB Landfill site receives approximately 850 tons per day of PGM. The existing FRB Landfill is open from 7:00 a.m. to 5:00 p.m., Monday through Saturday.

Existing Roadways

Key roadways in the vicinity of the project are as follows:

- Bee Canyon Access Road:** Bee Canyon Access Road is an undivided three-lane, north-south Local Street west of the project site (three northbound lanes and one southbound lane). Bee Canyon Access Road provides direct access to the project site. The posted speed limit is 55 miles per hour (mph). On-street parking is not permitted on either side of this roadway.
- Sand Canyon Avenue:** According to the City's General Plan Circulation Element, Sand Canyon Avenue is classified as a Primary Highway north of Irvine Boulevard and a Major Highway south of Irvine Boulevard. Located southwest of the project site, Sand Canyon Avenue is a divided four-lane, north-south roadway north of Irvine Boulevard, and a divided six-lane roadway south of Irvine Boulevard. The posted speed limits north and south of Irvine Boulevard are 50 mph and 55 mph, respectively. On-street (Class II) bicycle lanes and sidewalks are provided on both sides of the street. On-street parking is not permitted.

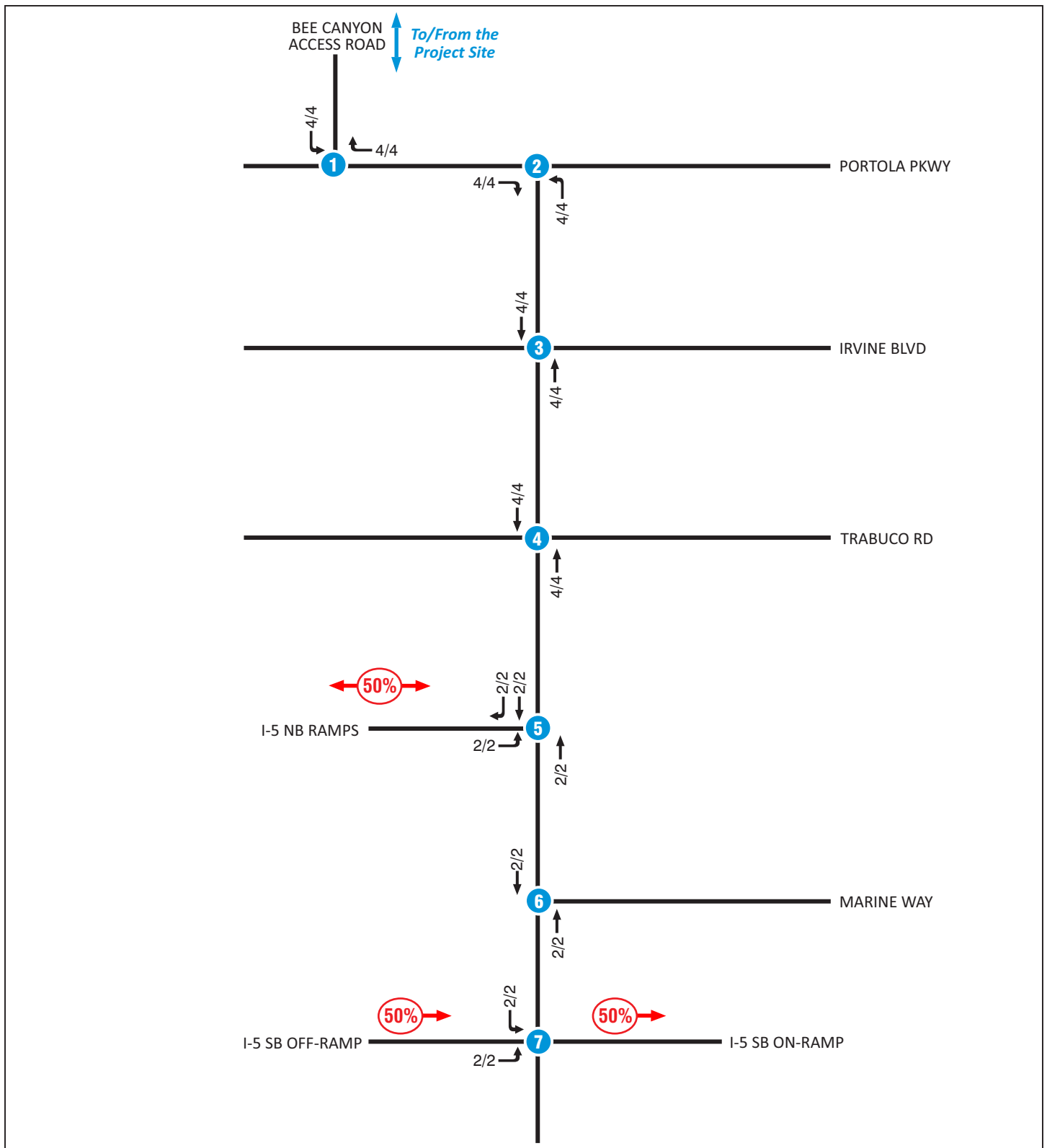


FIGURE 3

LSA

LEGEND

XX/YY - AM/PM Peak Hour Volumes

(XX)% - Project Trip Distribution Percentage



SCHEMATIC - NOT TO SCALE

Bee Canyon Greenery
Project Trip Distribution and Assignment

- **Portola Parkway:** According to the City's General Plan Circulation Element, Portola Parkway is classified as a Primary Highway. Portola Parkway is a divided four-lane, east-west roadway located south and southwest of the project site. The posted speed limit is 50 mph. On-street (Class II) bicycle lanes and sidewalks are provided on both sides of the street in the vicinity of the project site. On-street parking is not permitted.
- **Irvine Boulevard:** According to the City's General Plan Circulation Element, Irvine Boulevard is classified as a Major Highway. Irvine Boulevard is a divided six-lane, east-west roadway located south and southwest of the project site. The posted speed limit is 55 mph. On-street (Class II) bicycle lanes and sidewalks are provided on both sides of the street in the vicinity of the project site. On-street parking is not permitted.
- **Trabuco Road–Great Park Boulevard:** According to the City's General Plan Circulation Element, Trabuco Road (west of Sand Canyon Avenue) is classified as a Primary Highway, and Great Park Boulevard (east of Sand Canyon Avenue) is classified as a Major Highway. The posted speed limit on both roadways is 50 mph. On-street (Class II) bicycle lanes and sidewalks are provided on both sides of the street in the vicinity of the project site. On-street parking is not permitted.

FUTURE CONDITIONS

The following discussion presents the results of the future analysis with and without the project.

Short-Term Interim Year Approved Baseline and Plus Project Traffic Volumes and LOS

Table B summarizes the intersection LOS for the approved baseline and plus project conditions. As Table B indicates, all study area intersections are forecast to operate at satisfactory LOS in the baseline (no project) condition. With the addition of the project in the approved baseline condition, all study area intersections would continue to operate at satisfactory LOS. Therefore, the project can be implemented in a Short-Term Interim Year Approved Baseline condition with no significant peak-hour impacts at the study intersections.

Short-Term Interim Year Pending Baseline and Plus Project Traffic Volumes and LOS

Table C presents a summary of the intersection LOS for the pending baseline and plus project conditions. As Table C indicates, all study area intersections are forecast to operate at satisfactory LOS in the baseline (no project) condition. With the addition of the project in the pending baseline condition, all study area intersections would continue to operate at satisfactory LOS. Therefore, the project can be implemented in a Short-Term Interim Year Pending Baseline condition with no significant peak-hour impacts at the study intersections.

SPECIAL ISSUES

Site Access Analysis

Access to the project site is provided via Bee Canyon Access Road. The TDP evaluation is based on the Short-Term Interim Year Pending Baseline Plus Project conditions.

Table B: Short-Term Interim Year Approved Intersection Level of Service Summary

Study Area No.	ITAM Node No.	Intersection	Baseline				Plus Project				Peak-Hour Δ		Significant Impact?
			AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		ICU or Delay		
			ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	AM	PM	
1	500	Bee Canyon Access Road/Portola Parkway	0.43	A	0.47	A	0.43	A	0.47	A	0.00	0.00	No
2	300	Sand Canyon Avenue/Portola Parkway	0.35	A	0.57	A	0.35	A	0.57	A	0.00	0.00	No
3	301	Sand Canyon Avenue/Irvine Boulevard	0.68	B	0.71	C	0.68	B	0.71	C	0.00	0.00	No
4	302	Sand Canyon Avenue/Trabuco Road	0.64	B	0.63	B	0.64	B	0.63	B	0.00	0.00	No
5	303	Sand Canyon Avenue/I-5 northbound ramps	0.68	B	0.70	B	0.68	B	0.70	B	0.00	0.00	No
6	304	Sand Canyon Avenue/Marine Way	0.73	C	0.74	C	0.73	C	0.74	C	0.00	0.00	No
7	305	Sand Canyon Avenue/I-5 southbound ramps	0.65	B	0.73	C	0.65	B	0.74	C	0.00	0.00	No

Δ = change

ICU = Intersection Capacity Utilization

LOS = level of service

Table C: Short-Term Interim Year Pending Intersection Level of Service Summary

Study Area No.	ITAM Node No.	Intersection	Baseline				Plus Project				Peak-Hour Δ		Significant Impact?
			AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		ICU or Delay		
			ICU	LOS	ICU	LOS	ICU	LOS	ICU	LOS	AM	PM	
1	500	Bee Canyon Access Road/Portola Parkway	0.45	A	0.48	A	0.45	A	0.48	A	0.00	0.00	No
2	300	Sand Canyon Avenue/Portola Parkway	0.36	A	0.57	A	0.36	A	0.57	A	0.00	0.00	No
3	301	Sand Canyon Avenue/Irvine Boulevard	0.69	B	0.72	C	0.69	B	0.73	C	0.00	0.00	No
4	302	Sand Canyon Avenue/Trabuco Road	0.71	C	0.65	B	0.71	C	0.65	B	0.00	0.00	No
5	303	Sand Canyon Avenue/I-5 northbound ramps	0.71	C	0.73	C	0.71	C	0.73	C	0.00	0.00	No
6	304	Sand Canyon Avenue/Marine Way	0.88	D	0.88	D	0.88	D	0.88	D	0.00	0.00	No
7	305	Sand Canyon Avenue/I-5 southbound ramps	0.72	C	0.82	D	0.72	C	0.82	D	0.00	0.00	No

Δ = change

ICU = Intersection Capacity Utilization

LOS = level of service

As previously discussed, project trips were generated using operational information from OC Waste & Recycling (8 a.m. peak-hour trips and 8 p.m. peak-hour trips as shown in Table A). Project trip distribution was developed from information from OC Waste & Recycling (50 percent north on I-5 and 50 percent south on I-5). Figures 4 and 5 illustrate the Short-Term Interim Year Pending Baseline and Plus Project peak-hour volumes at the study area intersections and the project driveway, respectively.

This analysis has been conducted consistent with the approved scope of work and the TDPs. Applicable design criteria for this project include TDP-1 (Turn-Lane Pocket Lengths) and TDP-14 (Driveway Lengths).

TDP-1: Turn-Lane Pocket Lengths

The length of left-turn pockets at signalized intersections is based on several parameters, including traffic control, turn volume, and cycle length. The purpose of the turn-pocket length is to allow the turning vehicle to exit the through movement and decelerate into the turn pocket without impacting the through movement. The minimum single turn-pocket length for Major, Primary, and Secondary Highways (i.e., Sand Canyon Avenue) is 150 feet (ft), and the minimum single turn-pocket length for Commuter, Collector, and Local Streets (i.e., Bee Canyon Access Road) is 90 ft.

Bee Canyon Access Road/Portola Parkway (Southbound). The southbound left-turn lane at the signalized intersection of Bee Canyon Access Road/Portola Parkway is approximately 105 ft. The Short-Term Interim Year Pending Baseline southbound left-turn volume is 77 vehicles during the a.m. peak hour and 4 vehicles during the p.m. peak hour. Based on TDP-1 criteria, the southbound left-turn lane meets the 100 ft required to accommodate the 77 a.m. peak-hour vehicles. The Short-Term Interim Year Pending Baseline Plus Project left-turn volume at this location is 81 a.m. and 8 p.m. peak-hour vehicles (reflecting the addition of 4 project vehicles in both peak hours), as shown on Figure 5. According to TDP-1, 100 ft of southbound left-turn storage capacity is required for the 81 a.m. peak-hour vehicles. As in the baseline condition, the southbound left-turn pocket meets TDP-1 criteria.

Sand Canyon Avenue/Portola Parkway (Northbound). The intersection of Sand Canyon Avenue/Portola Parkway is a T-intersection. The northbound approach has dual left-turn lanes and dual right-turn lanes. The inner left-turn lane and the outer left-turn lane are approximately 280 ft and 510 ft long, respectively. From the back of the outer left-turn lane, there is approximately 800 ft of additional storage to the downstream intersection of Sand Canyon Avenue/Saints Way. Therefore, the total northbound left-turn storage is approximately 1,590 ft.

The Short-Term Interim Year Pending Baseline northbound left-turn volume is 134 vehicles during the a.m. peak hour and 1,002 vehicles during the p.m. peak hour. Based on TDP-1 criteria, the total northbound left-turn storage length meets the 1,300 ft requirement to accommodate the 1,002 p.m. peak-hour vehicles. As shown on Figure 5, the Short-Term Interim Year Pending Plus Project left-turn volumes at this location are 138 a.m. and 1,006 p.m. peak-hour vehicles (reflecting the addition of 4 project vehicles in both peak hours). According to TDP-1, 1,300 ft of northbound left-turn storage capacity are required for the 1,006 p.m. peak-hour vehicles. As in the baseline condition, the total northbound left-turn storage length meets TDP-1 criteria.

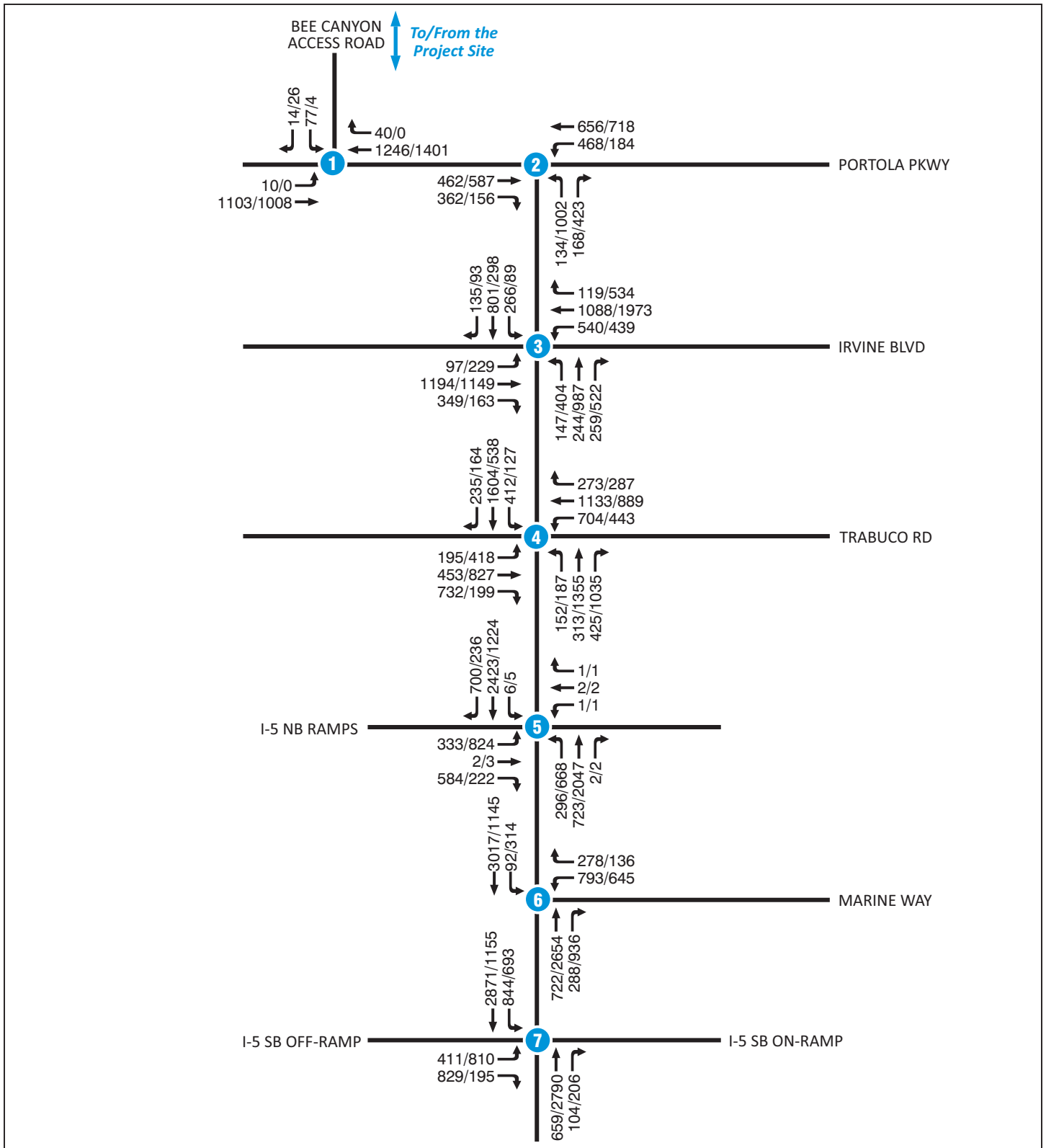


FIGURE 4

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SCHEMATIC - NOT TO SCALE

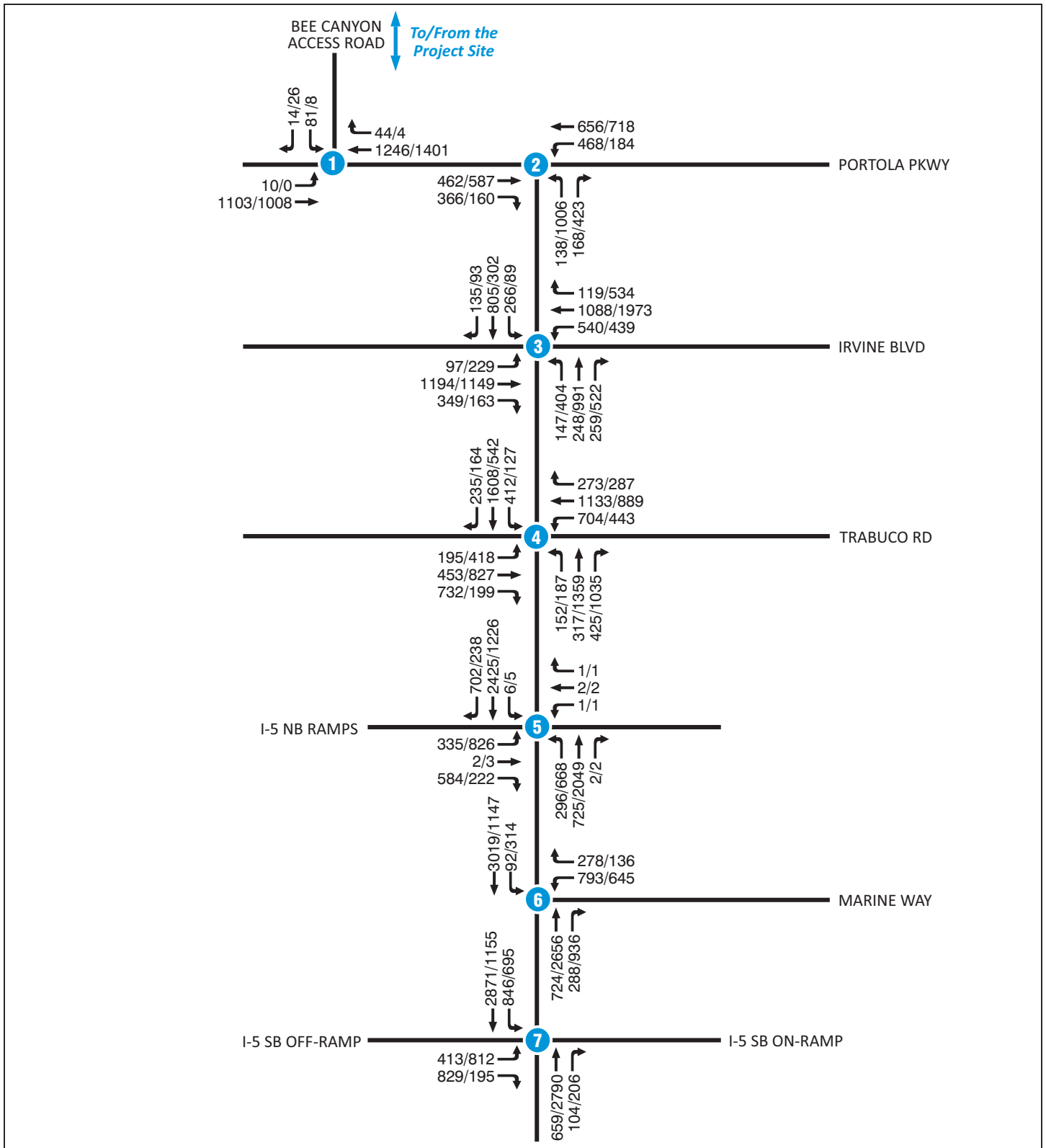


FIGURE 5

LSA

LEGEND

XX/YY - AM/PM Peak Hour Volumes



SCHEMATIC - NOT TO SCALE

Bee Canyon Greenery
Short-Term Interim Year Pending
Plus Project Peak Hour Volumes

TDP-14: Driveway Lengths

TDP-14 provides guidance regarding a sufficient driveway length to allow vehicles “to enter the parking area without causing subsequent vehicles to back out on the City street system.” The measurement of sufficient length is based on the distance from the back of the sidewalk or stop bar to the first intersecting parking space or traffic control measure on site. The minimum signalized driveway length should be 75 ft and should increase at a rate of 1 ft of storage per peak-hour vehicle (in 25 ft increments).

The project driveway (Bee Canyon Access Road) provides approximately 9,900 ft (1.9 miles) of throat length (measured from the back of Portola Parkway to the entrance of the FRB Landfill). The Short-Term Interim Year Pending Baseline inbound volume at Bee Canyon Access Road is 50 vehicles in the a.m. peak hour (there are no inbound vehicles in the p.m. peak hour). The inbound project volumes at Bee Canyon Access Road are 4 vehicles in both peak hours. Based on TDP-14 criteria, a driveway throat length of 125 ft is required for the 54 Short-Term Interim Year Pending Plus Project a.m. peak-hour vehicles. As such, the project driveway meets TDP-14 criteria.

REQUIRED IMPROVEMENTS AND/OR RECOMMENDATIONS

Based on the results of this analysis, the Bee Canyon Greenery project can be implemented without significantly impacting the surrounding circulation system in the Short-Term Interim Year Approved and Pending Baseline conditions. The addition of project traffic to study area intersections does not result in City thresholds for performance being exceeded and is not considered significant; therefore, mitigation is not required according to the City performance criteria.

The surrounding intersections and project driveway have been analyzed using the City’s TDPs, which meet the criteria for TDP-1 and TDP-14.

CONCLUSIONS

The Bee Canyon Greenery project can be implemented without impacting the surrounding circulation system. The evaluation of the study area intersection LOS with the expansion of the project on site shows that the addition of project traffic to the Short-Term Interim Year Approved and Pending Baseline conditions would not create any significant adverse impacts according to the City’s performance criteria.

A site access analysis, consistent with the City’s TDPs, was conducted for the project. Based on this analysis, the requirements of TDP-1 and TDP-14 have been met. As such, improvements are neither required nor recommended.

REFERENCES

City of Irvine. 2004. *Traffic Impact Analysis Guidelines*.

_____. 2015. General Plan Circulation Element.

APPENDIX A

APPROVED SCOPE OF WORK

SCOPE OF WORK BEE CANYON GREENERY LIMITED SCOPE TRAFFIC IMPACT ANALYSIS

The purpose of this analysis is to determine short-term traffic impacts resulting from the proposed Bee Canyon Greenery composting operation at the Frank R. Bowerman (FRB) Landfill at 11002 Bee Canyon Access Road in Planning Area 3 (Limestone Canyon – Open Space) of Irvine, California.

The existing FRB Landfill site (located in Traffic Analysis Zone [TAZ] 20) receives approximately 850 tons per day of processed green material (PGM). The proposed Bee Canyon Greenery operation would compost approximately 595 tons of PGM per day on site. Because the PGM is already coming into the FRB Landfill, there would be no additional traffic generated for the intake of PGM. However, after the composting process is complete, 595 tons of compost would be delivered to markets located inside and outside of Orange County. The daily compost delivery would require approximately 30 dump trucks, generating 60 average daily trips (ADT). The designated truck route to/from the FRB Landfill and regional locations is Interstate 5 (I-5), Sand Canyon Avenue, Portola Parkway, and Bee Canyon Access Road.

The existing FRB Landfill is open from 7:00 a.m. to 5:00 p.m., Monday through Saturday. The proposed Bee Canyon Greenery would have the same hours of operation. In order to present a conservative, worst-case estimate for trip generation of the project, it is assumed that approximately 25 percent of the truck trips would occur during the peak-hour periods. This is equivalent to approximately 16 ADT, with 8 trips in the a.m. peak hour (4 inbound and 4 outbound) and 8 trips in the p.m. peak hour (4 inbound and 4 outbound). The remaining 44 ADT (22 inbound and 22 outbound) would occur outside of the peak-hour periods.

Based on the City of Irvine's (City) Traffic Impact Analysis (TIA) Guidelines, a TIA is required to evaluate the cumulative impacts with build out of the proposed project. Because the proposed project is anticipated to generate fewer than 50 peak-hour trips, a Limited Scope TIA is required to evaluate short-term interim-year conditions and satisfy the City's analysis requirements. This approach to a Limited Scope TIA was discussed with City Transportation staff on January 15, 2019.

This Limited Scope TIA will be developed in accordance with the applicable sections of the City's TIA Guidelines (adopted by the City Council on August 24, 2004) and the City's Transportation Design Procedures (TDPs) (adopted in February 2007) and will include the following key elements.

I. EXECUTIVE SUMMARY

This section will provide a short, clear, and concise description of the project and Limited Scope TIA findings. The proposed study recommendations and project mitigation measures will also be included in this section, if necessary.


Approved by Development Review

5/7/19

II. INTRODUCTION

This section of the report will include a comprehensive description of the project and key elements of the Limited Scope TIA, including planning area description, general terrain features, and existing/proposed uses on site. The surrounding land uses will also be described. The following elements are identified for the purpose of conducting the Limited Scope TIA.

A. Project Site

A project location (and study area intersection) map is provided in this Limited Scope TIA Scope of Work (see Figure 1, attached) and will be provided in the Limited Scope TIA. The project site is bounded by open space. Access to the project site is provided via Bee Canyon Access Road.

B. Study Area Boundary

As discussed with City Transportation staff and shown on Figure 1, the study area will include the following signalized intersections:

1. Bee Canyon Access Road/Portola Parkway
2. Sand Canyon Avenue/Portola Parkway
3. Sand Canyon Avenue/Irvine Boulevard
4. Sand Canyon Avenue/Trabuco Road—Great Park Boulevard
5. Sand Canyon Avenue/I-5 northbound ramps
6. Sand Canyon Avenue/Marine Way
7. Sand Canyon Avenue/I-5 southbound ramps

III. PERFORMANCE CRITERIA

The performance criteria to determine potential project impacts and mitigation will be consistent with the City's criteria, as approved by the City Council on August 24, 2004. The City's TDPs will be used as the performance criteria to evaluate the design features of the project access.

IV. EXISTING CONDITIONS

A. Existing Site Uses

Existing land uses on site will be identified. The existing site is the FRB Landfill.

B. Existing Roadways and Intersections

The characteristics of the site's surrounding roadway network will be surveyed to verify the existing number of lanes, traffic signal locations, intersection configurations, and other visible factors that may have to be included in the analysis.

V. ANALYSIS METHODOLOGY/APPROACH

Study area intersections will be analyzed using the adopted Intersection Capacity Utilization (ICU) methodology.


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To disclose the effect of adding the project land use in a short-term interim year setting, the following analyses will be conducted:

- Short-Term Interim Year Approved Baseline
- Short-Term Interim Year Approved Baseline Plus Project
- Short-Term Interim Year Pending Baseline
- Short-Term Interim Year Pending Baseline Plus Project

The future (Short-Term Interim Year) conditions will be developed based on the latest version of ITAM. LSA will extract the Short-Term Interim Year Baseline (Approved and Pending) peak-hour traffic volumes for the study area intersections and manually assign the project trips to represent "plus project" conditions.

Project impacts will be identified at study area intersections for the Short-Term Interim Year Baseline (Approved and Pending) conditions assuming improvements to the circulation system identified by the City and included in the ITAM.

VI. PROPOSED PROJECT IMPACTS

A. Trip Generation

LSA will generate a.m. peak-hour trips, p.m. peak-hour trips, and ADT for the proposed project using operational information provided by OC Waste & Recycling (OCWR). As previously discussed, the project would generate 60 ADT, with 8 trips in the a.m. peak hour and 8 trips in the p.m. peak hour.

B. Adjustments to Trip Generation

No adjustments to the trip generation shall be made without prior written approval from the City.

C. Trip Distribution and Trip Assignment

The directions of approach to and departure from the site will be based on operational information from OCWR and the City's designated truck routes (e.g., Sand Canyon Avenue, Portola Parkway, and I-5).

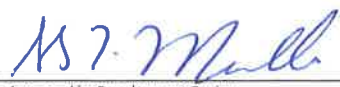
VII. PHASING

The proposed project will be constructed in a single phase and is assumed to be operational by 2020.

VIII. SPECIAL ANALYSES/ISSUES

A. Access Analysis

Access to the proposed project (existing FRB Landfill and new Bee Canyon Greenery) will continue to be provided at Bee Canyon Access Road/Portola Parkway. The designated truck route to/from the site includes I-5, Sand Canyon Avenue, Portola Parkway, and Bee Canyon Access Road.

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An analysis of the City's TDPs will be conducted for the primary access intersections of Bee Canyon Access Road/Portola Parkway and Sand Canyon Avenue/Portola Parkway.

Specific TDPs to be evaluated include:

- TDP-1 (Turn Lane Pocket Lengths) at Bee Canyon Access Road/Portola Parkway (southbound left) and Sand Canyon Avenue/Portola Parkway (northbound left)
- TDP-14 (Driveway Lengths) at Bee Canyon Access Road

A summary of the proposed project and results of the analysis will be prepared. Based upon these results, recommendations will be presented for the interface with adjacent streets (if required). These recommendations will be consistent with the City's TDPs.

IX. REQUIRED MITIGATION MEASURES AND/OR RECOMMENDATIONS

Based on the results and in accordance with the adopted City TIA Guidelines, physical and/or operational improvements and/or alternative mitigation measure improvements required to mitigate any potentially adverse impacts due to the proposed project will be identified. Text will be provided that will summarize the analysis of the traffic impacts from the Limited Scope TIA so that it is apparent that the study fulfills the requirements of the City.

X. CONCLUSIONS

A summary of the results of the analysis and recommendations will be prepared.

XI. REVISIONS TO ANALYSIS

Revisions to the Limited Scope TIA will be provided in response to the City's comments.

XII. SIGNATURE

The Limited Scope TIA will be prepared under the supervision of, and signed, stamped, and dated by, a registered traffic engineer or a registered professional civil engineer with appropriate engineering and/or planning credentials.

Attachment: Figure 1 – Project Location and Study Area Intersections

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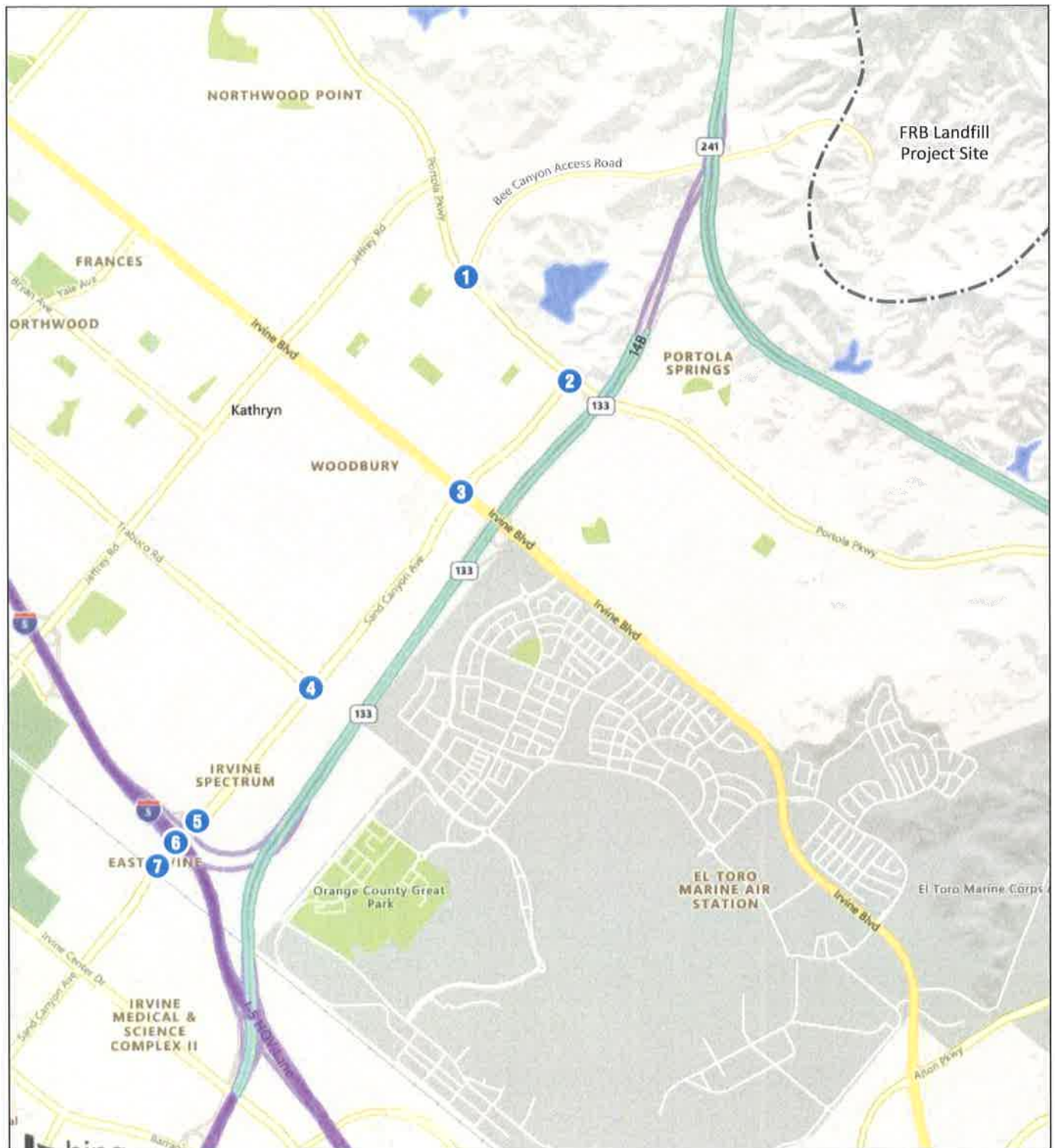


FIGURE 1

LSA

LEGEND

 - Study Area Intersection



0 1500 3000
FEET

SOURCE: Bing Maps

I:\OCY1701.09\G\Loc&Ints.cdr (5/3/2019)

Bee Canyon Greenery
Project Location and
Study Area Intersections

887 Mth
5/7/19

APPENDIX B

ITAM TRAFFIC FORECASTS AND ICU SHEETS

300 . Sand Canyon. Av. at Portola Pkwy.

Interim Approved NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	160 .05*	1014 .30*		
NBT	0	0	0	0		
NBR	2	3400	171 .05	415 .12		
SBL	0	0	0	0		
SBT	0	0	0	0		
SBR	0	0	0	0		
EBL	0	0	0	0		
EBT	2	3400	459 .14*	568 .17*		
EBR	f		395	153		
WBL	2	3400	395 .12*	179 .05*		
WBT	2	3400	590 .17	701 .21		
WBR	0	0	0	0		
Clearance Interval			.05*	.05*		
TOTAL CAPACITY UTILIZATION			.36	.57		

301 . Sand Canyon. Av. at Irvine Bl.

Interim Approved NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	141 .04*	411 .12		
NBT	3	5100	261 .05	1003 .20*		
NBR	2	3400	258 .08	477 .14		
SBL	2	3400	255 .08	79 .02*		
SBT	2	3400	781 .23*	298 .09		
SBR	1	1700	124 .07	92 .05		
EBL	2	3400	100 .03	228 .07*		
EBT	4	6800	1161 .17*	1027 .15		
EBR	1	1700	346 .20	164 .10		
WBL	2	3400	517 .15*	429 .13		
WBT	3	5100	986 .19	1901 .37*		
WBR	1	1700	120 .07	513 .30		
Clearance Interval			.05*	.05*		
TOTAL CAPACITY UTILIZATION			.64	.71		

302 . Sand Canyon. Av. at Trabuco Pkwy.

Interim Approved NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	164 .05*	182 .05		
NBT	3	5100	329 .06	1366 .27*		
NBR	f		467	908		
SBL	2	3400	466 .14	109 .03*		
SBT	3	5100	1473 .29*	545 .11		
SBR	1	1700	261 .15	156 .09		
EBL	2	3400	220 .06	402 .12*		
EBT	3	5100	537 .11*	693 .14		
EBR	f		703	197		
WBL	2	3400	504 .15*	447 .13		
WBT	3	5100	984 .19	842 .17*		
WBR	d	1700	231 .14	281 .17		
Clearance Interval			.05*	.05*		
TOTAL CAPACITY UTILIZATION			.65	.64		

303 . Sand Canyon. Av. at I-5 NB Ramps

Interim Approved NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	238 .07*	621 .18*		
NBT	3	5100	743 .15	2016 .40		
NBR	d	1700	2 .00	2 .00		
SBL	1	1700	6 .00	5 .00		
SBT	3	5100	2240 .44*	1204 .24*		
SBR	1	1700	610 .36	252 .15		
EBL	1.5		389	775		
EBT	0.5	3400	3 .12*	3 .23*		
EBR	2	3400	569 .17	182 .05		
WBL	1	1700	1 .00	1 .00		
WBT	1	1700	2 .00*	2 .00*		
WBR	0	0	1	1		
Clearance Interval			.05*	.05*		
Note: Assumes E/W Split Phasing						
TOTAL CAPACITY UTILIZATION			.68	.70		

304 . Sand Canyon. Av. at Marine Wy.

Interim Approved NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	3	5100	774 .15	2614 .51*		
NBR	1	1700	222 .13	549 .32		
SBL	2	3400	78 .02	241 .07*		
SBT	3	5100	2827 .55*	1172 .23		
SBR	0	0	0	0		
EBL	0	0	0	0		
EBT	0	0	0	0		
EBR	0	0	0	0		
WBL	2	3400	423 .12*	358 .11*		
WBT	0	0	0	0		
WBR	1	1700	186 .11	96 .06		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.72		.74

305 . Sand Canyon. Av. at I-5 SB Ramps

Interim Approved NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	4	6800	652 .10	2436 .36*		
NBR	1	1700	110 .06	215 .13		
SBL	2	3400	738 .22	613 .18*		
SBT	4	6800	2428 .36*	992 .15		
SBR	0	0	0	0		
EBL	2.5		398 .12*	744 .15*		
EBT	0	6800	2	1		
EBR	1.5		832 .24	208		
WBL	0	0	0	0		
WBT	0	0	0	0		
WBR	0	0	0	0		
Right Turn Adjustment			EBR	.12*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.65		.74

500 . Bee Canyon Access Rd. at Portola Pkwy.

Interim Approved NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	0	0	0	0		
NBR	0	0	0	0		
SBL	1.5		86	12 .01*		
SBT	0	3400	0 .03*	0		
SBR	0.5		14	46 .03		
EBL	1	1700	16 .01*	0 .00		
EBT	2	3400	1124 .33	958 .28		
EBR	0	0	0	0		
WBL	0	0	0	0		
WBT	2	3400	1166 .34*	1334 .39*		
WBR	d	1700	64 .04	0 .00		
Right Turn Adjustment				SBR	.02*	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.43		.47

300 . Sand Canyon. Av. at Portola Pkwy.

Interim Pending NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	134 .04*	1002 .29*		
NBT	0	0	0	0		
NBR	2	3400	168 .05	423 .12		
SBL	0	0	0	0		
SBT	0	0	0	0		
SBR	0	0	0	0		
EBL	0	0	0	0		
EBT	2	3400	462 .14*	587 .17*		
EBR	f		362	156		
WBL	2	3400	468 .14*	184 .05*		
WBT	2	3400	656 .19	718 .21		
WBR	0	0	0	0		
Clearance Interval			.05*	.05*		
TOTAL CAPACITY UTILIZATION			.37	.56		

301 . Sand Canyon. Av. at Irvine Bl.

Interim Pending NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	147 .04*	404 .12		
NBT	3	5100	244 .05	987 .19*		
NBR	2	3400	259 .08	522 .15		
SBL	2	3400	266 .08	89 .03*		
SBT	2	3400	801 .24*	298 .09		
SBR	1	1700	135 .08	93 .05		
EBL	2	3400	97 .03	229 .07*		
EBT	4	6800	1194 .18*	1149 .17		
EBR	1	1700	349 .21	163 .10		
WBL	2	3400	540 .16*	439 .13		
WBT	3	5100	1088 .21	1973 .39*		
WBR	1	1700	119 .07	534 .31		
Clearance Interval			.05*	.05*		
TOTAL CAPACITY UTILIZATION			.67	.73		

302 . Sand Canyon. Av. at Trabuco Pkwy.

Interim Pending NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	152 .04*	187 .06		
NBT	3	5100	313 .06	1355 .27*		
NBR	f		425	1035		
SBL	2	3400	412 .12	127 .04*		
SBT	3	5100	1604 .31*	538 .11		
SBR	1	1700	235 .14	164 .10		
EBL	2	3400	195 .06	418 .12*		
EBT	3	5100	453 .09*	827 .16		
EBR	f		732	199		
WBL	2	3400	704 .21*	443 .13		
WBT	3	5100	1133 .22	889 .17*		
WBR	d	1700	273 .16	287 .17		
Clearance Interval			.05*	.05*		
TOTAL CAPACITY UTILIZATION			.70	.65		

303 . Sand Canyon. Av. at I-5 NB Ramps

Interim Pending NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	2	3400	296 .09*	668 .20*		
NBT	3	5100	723 .14	2047 .40		
NBR	d	1700	2 .00	2 .00		
SBL	1	1700	6 .00	5 .00		
SBT	3	5100	2423 .48*	1224 .24*		
SBR	1	1700	700 .41	236 .14		
EBL	1.5		333	824		
EBT	0.5	3400	2 .10*	3 .24*		
EBR	2	3400	584 .17	222 .07		
WBL	1	1700	1 .00	1 .00		
WBT	1	1700	2 .00*	2 .00*		
WBR	0	0	1	1		
Clearance Interval			.05*	.05*		
Note: Assumes E/W Split Phasing						
TOTAL CAPACITY UTILIZATION			.72	.73		

304 . Sand Canyon. Av. at Marine Wy.

Interim Pending NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	3	5100	722 .14	2654 .52*		
NBR	1	1700	288 .17	936 .55		
SBL	2	3400	92 .03	314 .09*		
SBT	3	5100	3017 .59*	1145 .22		
SBR	0	0	0	0		
EBL	0	0	0	0		
EBT	0	0	0	0		
EBR	0	0	0	0		
WBL	2	3400	793 .23*	645 .19*		
WBT	0	0	0	0		
WBR	1	1700	278 .16	136 .08		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.87		.85

305 . Sand Canyon. Av. at I-5 SB Ramps

Interim Pending NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	4	6800	659 .10	2790 .41*		
NBR	1	1700	104 .06	206 .12		
SBL	2	3400	844 .25	693 .20*		
SBT	4	6800	2871 .42*	1155 .17		
SBR	0	0	0	0		
EBL	2.5		411 .12*	810 .16*		
EBT	0	6800	2	1		
EBR	1.5		829 .24	195		
WBL	0	0	0	0		
WBT	0	0	0	0		
WBR	0	0	0	0		
Right Turn Adjustment			EBR	.12*		
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.71		.82

500 . Bee Canyon Access Rd. at Portola Pkwy.

Interim Pending NP						
	LANES	CAPACITY	AM PK HOUR VOL V/C	PM PK HOUR VOL V/C		
NBL	0	0	0	0		
NBT	0	0	0	0		
NBR	0	0	0	0		
SBL	1.5		77	4		
SBT	0	3400	0 .03*	0		
SBR	0.5		14	26 .02		
EBL	1	1700	10 .01*	0 .00		
EBT	2	3400	1103 .32	1008 .30		
EBR	0	0	0	0		
WBL	0	0	0	0		
WBT	2	3400	1246 .37*	1401 .41*		
WBR	d	1700	40 .02	0 .00		
Right Turn Adjustment				SBR	.02*	
Clearance Interval				.05*		.05*
TOTAL CAPACITY UTILIZATION				.46		.48

Impact Analysis Report
Level Of Service

Intersection		Base		Future		Change
		Del/	V/	Del/	V/	in
		LOS Veh	C	LOS Veh	C	
# 1 Bee Canyon Access Rd/Portola P	A	xxxxxx	0.432	A	xxxxxx	0.432 + 0.000 V/C
# 2 Sand Canyon Ave/Portola Pwy	A	xxxxxx	0.348	A	xxxxxx	0.348 + 0.000 V/C
# 3 Sand Canyon Ave/Irvine Blvd	B	xxxxxx	0.677	B	xxxxxx	0.677 + 0.000 V/C
# 4 Sand Canyon Ave/Trabuco Rd-Gre	B	xxxxxx	0.641	B	xxxxxx	0.641 + 0.000 V/C
# 5 Sand Canyon Ave/I-5 Northbound	B	xxxxxx	0.676	B	xxxxxx	0.676 + 0.000 V/C
# 6 Sand Canyon Ave/Marine Way	C	xxxxxx	0.729	C	xxxxxx	0.729 + 0.000 V/C
# 7 Sand Canyon Ave/I-5 Southbound	B	xxxxxx	0.652	B	xxxxxx	0.652 + 0.000 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Bee Canyon Access Rd/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.432
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 21 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound							
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected				Protected				Protected				Protected							
Rights:	Include				Include				Include				Include							
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	0	0	0	0	0	1	0	1	0	0	1	0	2	0	0	0	0	2	0	1

Volume Module:

Base Vol:	0	0	0	86	0	14	16	1124	0	0	1166	64
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	0	0	86	0	14	16	1124	0	0	1166	64
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	0	0	86	0	14	16	1124	0	0	1166	64
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	86	0	14	16	1124	0	0	1166	64
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:	0	0	0	86	0	14	16	1124	0	0	1166	64

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	1.72	0.00	0.28	1.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2924	0	476	1700	3400	0	0	3400	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.00	0.00	0.03	0.00	0.03	0.01	0.33	0.00	0.00	0.34	0.04
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Sand Canyon Ave/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.348
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 19 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Ovl				Include				Ignore				Include			
Min. Green:	0		0		0		0		0		0		0		0	
Y+R:	4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0	
Lanes:	2	0	0	0	2	0	0	0	0	0	0	2	0	1	2	

Volume Module:

Base Vol:	160	0	171	0	0	0	0	459	395	395	590	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:	160	0	171	0	0	0	0	459	395	395	590	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	160	0	171	0	0	0	0	459	0	395	590	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	160	0	171	0	0	0	0	459	0	395	590	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	160	0	171	0	0	0	0	459	0	395	590	0
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00	1.00	2.00	2.00	0.00
Final Sat.:	3400	0	3400	0	0	0	0	3400	1700	3400	3400	0

Capacity Analysis Module:

Vol/Sat:	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.12	0.17	0.00
OvlAdjV/S:	0.00											
Crit Moves:	***							***		***		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Sand Canyon Ave/Irvine Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.677
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 35 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ovl					Include					Include					Ignore				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	2	2	0	2	0	1	2	0	4	0	1	2	0	3	0	1

Volume Module:

Base Vol:	141	261	258	255	781	124	100	161	346	517	986	120
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:	141	261	258	255	781	124	100	161	346	517	986	120
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	141	261	258	255	781	124	100	161	346	517	986	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	141	261	258	255	781	124	100	161	346	517	986	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	141	261	258	255	781	124	100	161	346	517	986	0
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	2.00	2.00	2.00	1.00	2.00	4.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	3400	3400	3400	1700	3400	6800	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.04	0.05	0.08	0.08	0.23	0.07	0.03	0.02	0.20	0.15	0.19	0.00
OvlAdjV/S:	0.00											
Crit Moves:	****	****					****	****				

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Sand Canyon Ave/Trabuco Rd-Great Park Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.641

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 32 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ignore					Include					Ignore					Include				
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1

Volume Module:

Base Vol:	164	329	467	466	1473	261	220	537	703	504	984	231
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:	164	329	467	466	1473	261	220	537	703	504	984	231
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	164	329	0	466	1473	261	220	537	0	504	984	231
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	164	329	0	466	1473	261	220	537	0	504	984	231
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	164	329	0	466	1473	261	220	537	0	504	984	231

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	1700	3400	5100	1700	3400	5100	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.05	0.06	0.00	0.14	0.29	0.15	0.06	0.11	0.00	0.15	0.19	0.14
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #5 Sand Canyon Ave/I-5 Northbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.676
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 35 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Ovl					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	1	0	3	0	1	1	1	0	0	2	1	0	0	1	0

Volume Module:

Base Vol:	238	743	2	6	2240	610	389	3	569	1	2	1
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:	238	743	2	6	2240	610	389	3	569	1	2	1
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	743	2	6	2240	610	389	3	569	1	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	238	743	2	6	2240	610	389	3	569	1	2	1
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	743	2	6	2240	610	389	3	569	1	2	1
OvlAdjVol:	331											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	1.00	3.00	1.00	1.98	0.02	2.00	1.00	0.67	0.33
Final Sat.:	3400	5100	1700	1700	5100	1700	3374	26	3400	1700	1133	567

Capacity Analysis Module:

Vol/Sat:	0.07	0.15	0.00	0.00	0.44	0.36	0.12	0.12	0.17	0.00	0.00	0.00
OvlAdjV/S:	0.10											
Crit Moves:	****	****					****	****				

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 Sand Canyon Ave/Marine Way

Cycle (sec): 100 Critical Vol./Cap.(X): 0.729

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 40 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	0	0	3	0	1	2	0	3	0	0	0	0	0	0	0	2	0	0	0	1

Volume Module:

Base Vol:	0	774	222	78	2827	0	0	0	0	423	0	186
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	774	222	78	2827	0	0	0	0	423	0	186
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	774	222	78	2827	0	0	0	0	423	0	186
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	774	222	78	2827	0	0	0	0	423	0	186
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:	0	774	222	78	2827	0	0	0	0	423	0	186

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	3.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	5100	1700	3400	5100	0	0	0	0	3400	0	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.15	0.13	0.02	0.55	0.00	0.00	0.00	0.00	0.12	0.00	0.11
Crit Moves:	****				****					****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 Sand Canyon Ave/I-5 Southbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.652
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 33 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	0	0	4	0	1	2	0	4	0	0	2	0	1	0	1	0	0	0	0	0

Volume Module:

Base Vol:	0	652	110	738	2428	0	398	0	832	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:	0	652	110	738	2428	0	398	0	832	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:	0	652	110	738	2428	0	398	0	832	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	652	110	738	2428	0	398	0	832	0	0	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	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	652	110	738	2428	0	398	0	832	0	0	0

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	4.00	1.00	2.00	4.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	6800	1700	3400	6800	0	3400	0	3400	0	0	0

Capacity Analysis Module:

Vol/Sat:	0.00	0.10	0.06	0.22	0.36	0.00	0.12	0.00	0.24	0.00	0.00	0.00
Crit Moves:	****				****				****			

Impact Analysis Report
Level Of Service

Intersection		Base		Future		Change
		Del/	V/	Del/	V/	in
		LOS Veh	C	LOS Veh	C	
# 1 Bee Canyon Access Rd/Portola P	A	xxxxxx	0.469	A	xxxxxx	0.469 + 0.000 V/C
# 2 Sand Canyon Ave/Portola Pwy	A	xxxxxx	0.568	A	xxxxxx	0.568 + 0.000 V/C
# 3 Sand Canyon Ave/Irvine Blvd	C	xxxxxx	0.710	C	xxxxxx	0.710 + 0.000 V/C
# 4 Sand Canyon Ave/Trabuco Rd-Gre	B	xxxxxx	0.633	B	xxxxxx	0.633 + 0.000 V/C
# 5 Sand Canyon Ave/I-5 Northbound	B	xxxxxx	0.699	B	xxxxxx	0.699 + 0.000 V/C
# 6 Sand Canyon Ave/Marine Way	C	xxxxxx	0.739	C	xxxxxx	0.739 + 0.000 V/C
# 7 Sand Canyon Ave/I-5 Southbound	C	xxxxxx	0.734	C	xxxxxx	0.734 + 0.000 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Bee Canyon Access Rd/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.469

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 22 Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
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
Lanes:	0	0	0	0	0	0	1	0	2	0	0	1

Volume Module:

Base Vol:	0	0	0	12	0	46	0	958	0	0	1334	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:	0	0	0	12	0	46	0	958	0	0	1334	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:	0	0	0	12	0	46	0	958	0	0	1334	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	12	0	46	0	958	0	0	1334	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	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	0	0	12	0	46	0	958	0	0	1334	0

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	1700	0	1700	1700	3400	0	0	3400	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.28	0.00	0.00	0.39	0.00
Crit Moves:				****	****					****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Sand Canyon Ave/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.568
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 27 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Ovl				Include				Ignore				Include			
Min. Green:	0		0		0		0		0		0		0		0	
Y+R:	4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0	
Lanes:	2	0	0	0	2	0	0	0	0	0	0	2	0	1	2	

Volume Module:

Base Vol:	1014	0	415	0	0	0	0	568	153	179	701	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:	1014	0	415	0	0	0	0	568	153	179	701	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	1014	0	415	0	0	0	0	568	0	179	701	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1014	0	415	0	0	0	0	568	0	179	701	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	1014	0	415	0	0	0	0	568	0	179	701	0
OvlAdjVol:	236											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00	1.00	2.00	2.00	0.00
Final Sat.:	3400	0	3400	0	0	0	0	3400	1700	3400	3400	0

Capacity Analysis Module:

Vol/Sat:	0.30	0.00	0.12	0.00	0.00	0.00	0.00	0.17	0.00	0.05	0.21	0.00
OvlAdjV/S:	0.07											
Crit Moves:	****							****		****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Sand Canyon Ave/Irvine Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.710

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 38 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ovl					Include					Include					Ignore				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	2	2	0	2	0	1	2	0	4	0	1	2	0	3	0	1

Volume Module:

Base Vol:	411	1003	477	79	298	92	228	1027	164	429	1901	513
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:	411	1003	477	79	298	92	228	1027	164	429	1901	513
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	411	1003	477	79	298	92	228	1027	164	429	1901	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	411	1003	477	79	298	92	228	1027	164	429	1901	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	411	1003	477	79	298	92	228	1027	164	429	1901	0
OvlAdjVol:	48											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	2.00	2.00	2.00	1.00	2.00	4.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	3400	3400	3400	1700	3400	6800	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.12	0.20	0.14	0.02	0.09	0.05	0.07	0.15	0.10	0.13	0.37	0.00
OvlAdjV/S:	0.01											
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Sand Canyon Ave/Trabuco Rd-Great Park Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.633
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 31 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ignore					Include					Ignore					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2		0		3	0	1			2	0	3	0	1		2	0	3	0	1

Volume Module:

Base Vol:	182	1366	908	109	545	156	402	693	197	447	842	281
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:	182	1366	908	109	545	156	402	693	197	447	842	281
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	182	1366	0	109	545	156	402	693	0	447	842	281
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	182	1366	0	109	545	156	402	693	0	447	842	281
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	182	1366	0	109	545	156	402	693	0	447	842	281

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	1700	3400	5100	1700	3400	5100	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.05	0.27	0.00	0.03	0.11	0.09	0.12	0.14	0.00	0.13	0.17	0.17
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #5 Sand Canyon Ave/I-5 Northbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.699

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 37 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Ovl					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	1	0	3	0	1	1	1	0	0	2	1	0	0	1	0

Volume Module:

Base Vol:	621	2016	2	5	1204	252	775	3	182	1	2	1
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:	621	2016	2	5	1204	252	775	3	182	1	2	1
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:	621	2016	2	5	1204	252	775	3	182	1	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	621	2016	2	5	1204	252	775	3	182	1	2	1
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:	621	2016	2	5	1204	252	775	3	182	1	2	1
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	1.00	3.00	1.00	1.99	0.01	2.00	1.00	0.67	0.33
Final Sat.:	3400	5100	1700	1700	5100	1700	3387	13	3400	1700	1133	567

Capacity Analysis Module:

Vol/Sat:	0.18	0.40	0.00	0.00	0.24	0.15	0.23	0.23	0.05	0.00	0.00	0.00
OvlAdjV/S:	0.00											
Crit Moves:	****	****					****	****				

Level Of Service Computation Report

ICU 1 (Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 Sand Canyon Ave/Marine Way

Cycle (sec): 100 Critical Vol./Cap.(X): 0.739

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 42 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	0	0	3	0	1	2	0	3	0	0	0	0	0	0	0	2	0	0	0	1

Volume Module:

Base Vol:	0	2614	549	241	1172	0	0	0	0	358	0	96
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	2614	549	241	1172	0	0	0	0	358	0	96
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	2614	549	241	1172	0	0	0	0	358	0	96
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2614	549	241	1172	0	0	0	0	358	0	96
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
Final Volume:	0	2614	549	241	1172	0	0	0	0	358	0	96

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	3.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	5100	1700	3400	5100	0	0	0	0	3400	0	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.51	0.32	0.07	0.23	0.00	0.00	0.00	0.00	0.11	0.00	0.06
Crit Moves:	****			****						****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 Sand Canyon Ave/I-5 Southbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.734
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 41 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	0	0	4	0	1	2	0	4	0	0	2	0	1	0	1	0	0	0	0	0

Volume Module:

Base Vol:	0	2436	215	613	992	0	744	0	208	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:	0	2436	215	613	992	0	744	0	208	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:	0	2436	215	613	992	0	744	0	208	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2436	215	613	992	0	744	0	208	0	0	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	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	2436	215	613	992	0	744	0	208	0	0	0

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	4.00	1.00	2.00	4.00	0.00	3.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	0	6800	1700	3400	6800	0	5100	0	1700	0	0	0

Capacity Analysis Module:

Vol/Sat:	0.00	0.36	0.13	0.18	0.15	0.00	0.15	0.00	0.12	0.00	0.00	0.00
Crit Moves:	****			****			****					

Impact Analysis Report
Level Of Service

Intersection	Base Del/ V/ LOS Veh C	Future Del/ V/ LOS Veh C	Change in
# 1 Bee Canyon Access Rd/Portola P	A xxxxxx 0.433	A xxxxxx 0.433	+ 0.000 V/C
# 2 Sand Canyon Ave/Portola Pwy	A xxxxxx 0.349	A xxxxxx 0.349	+ 0.000 V/C
# 3 Sand Canyon Ave/Irvine Blvd	B xxxxxx 0.678	B xxxxxx 0.678	+ 0.000 V/C
# 4 Sand Canyon Ave/Trabuco Rd-Gre	B xxxxxx 0.641	B xxxxxx 0.641	+ 0.000 V/C
# 5 Sand Canyon Ave/I-5 Northbound	B xxxxxx 0.677	B xxxxxx 0.677	+ 0.000 V/C
# 6 Sand Canyon Ave/Marine Way	C xxxxxx 0.729	C xxxxxx 0.729	+ 0.000 V/C
# 7 Sand Canyon Ave/I-5 Southbound	B xxxxxx 0.652	B xxxxxx 0.652	+ 0.000 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Bee Canyon Access Rd/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.433
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 21 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound							
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected				Protected				Protected				Protected							
Rights:	Include				Include				Include				Include							
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	0	0	0	0	0	1	0	1	0	0	1	0	2	0	0	0	0	2	0	1

Volume Module:

Base Vol:	0	0	0	90	0	14	16	1124	0	0	1166	68
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	0	0	90	0	14	16	1124	0	0	1166	68
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	0	0	90	0	14	16	1124	0	0	1166	68
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	90	0	14	16	1124	0	0	1166	68
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:	0	0	0	90	0	14	16	1124	0	0	1166	68

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	1.73	0.00	0.27	1.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2942	0	458	1700	3400	0	0	3400	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.00	0.00	0.03	0.00	0.03	0.01	0.33	0.00	0.00	0.34	0.04
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Sand Canyon Ave/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.349

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 19 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Ovl				Include				Ignore				Include			
Min. Green:	0		0		0		0		0		0		0		0	
Y+R:	4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0	
Lanes:	2	0	0	0	2	0	0	0	0	0	0	2	0	1	2	

Volume Module:

Base Vol:	164	0	171	0	0	0	0	459	399	395	590	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:	164	0	171	0	0	0	0	459	399	395	590	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	164	0	171	0	0	0	0	459	0	395	590	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	164	0	171	0	0	0	0	459	0	395	590	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	164	0	171	0	0	0	0	459	0	395	590	0
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00	1.00	2.00	2.00	0.00
Final Sat.:	3400	0	3400	0	0	0	0	3400	1700	3400	3400	0

Capacity Analysis Module:

Vol/Sat:	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.12	0.17	0.00
OvlAdjV/S:	0.00											
Crit Moves:	****							****		****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Sand Canyon Ave/Irvine Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.678
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 35 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ovl					Include					Include					Ignore				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	2	2	0	2	0	1	2	0	4	0	1	2	0	3	0	1

Volume Module:

Base Vol:	141	265	258	255	785	124	100	1161	346	517	986	120
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:	141	265	258	255	785	124	100	1161	346	517	986	120
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	141	265	258	255	785	124	100	1161	346	517	986	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	141	265	258	255	785	124	100	1161	346	517	986	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	141	265	258	255	785	124	100	1161	346	517	986	0
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	2.00	2.00	2.00	1.00	2.00	4.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	3400	3400	3400	1700	3400	6800	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.04	0.05	0.08	0.08	0.23	0.07	0.03	0.17	0.20	0.15	0.19	0.00
OvlAdjV/S:	0.00											
Crit Moves:	****	****					****	****				

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Sand Canyon Ave/Trabuco Rd-Great Park Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.641
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 32 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ignore					Include					Ignore					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1

Volume Module:

Base Vol:	164	333	467	466	1477	261	220	537	703	504	984	231
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:	164	333	467	466	1477	261	220	537	703	504	984	231
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	164	333	0	466	1477	261	220	537	0	504	984	231
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	164	333	0	466	1477	261	220	537	0	504	984	231
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	164	333	0	466	1477	261	220	537	0	504	984	231

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	1700	3400	5100	1700	3400	5100	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.05	0.07	0.00	0.14	0.29	0.15	0.06	0.11	0.00	0.15	0.19	0.14
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #5 Sand Canyon Ave/I-5 Northbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.677
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 35 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Ovl					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	1	0	3	0	1	1	1	0	0	2	1	0	0	1	0

Volume Module:

Base Vol:	238	745	2	6	2242	612	391	3	569	1	2	1
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:	238	745	2	6	2242	612	391	3	569	1	2	1
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	745	2	6	2242	612	391	3	569	1	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	238	745	2	6	2242	612	391	3	569	1	2	1
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	745	2	6	2242	612	391	3	569	1	2	1
OvlAdjVol:	331											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	1.00	3.00	1.00	1.98	0.02	2.00	1.00	0.67	0.33
Final Sat.:	3400	5100	1700	1700	5100	1700	3374	26	3400	1700	1133	567

Capacity Analysis Module:

Vol/Sat:	0.07	0.15	0.00	0.00	0.44	0.36	0.12	0.12	0.17	0.00	0.00	0.00
OvlAdjV/S:	0.10											
Crit Moves:	****	****					****	****				

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 Sand Canyon Ave/Marine Way

Cycle (sec): 100 Critical Vol./Cap.(X): 0.729

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 41 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	0	0	3	0	1	2	0	3	0	0	0	0	0	0	0	2	0	0	0	1

Volume Module:

Base Vol:	0	776	222	78	2829	0	0	0	0	423	0	186
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	776	222	78	2829	0	0	0	0	423	0	186
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	776	222	78	2829	0	0	0	0	423	0	186
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	776	222	78	2829	0	0	0	0	423	0	186
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:	0	776	222	78	2829	0	0	0	0	423	0	186

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	3.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	5100	1700	3400	5100	0	0	0	0	3400	0	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.15	0.13	0.02	0.55	0.00	0.00	0.00	0.00	0.12	0.00	0.11
Crit Moves:	****				****						****	

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 Sand Canyon Ave/I-5 Southbound Ramps

Cycle (sec):	100	Critical Vol./Cap.(X):	0.652
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxxx
Optimal Cycle:	33	Level Of Service:	B

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Protected	Protected	Protected	Protected
Rights:	Include	Include	Include	Include
Min. Green:	0 0 0	0 0 0	0 0 0	0 0 0
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
Lanes:	0 0 4 0 1	2 0 4 0 0	2 0 1! 0 1	0 0 0 0 0

Volume Module:

Base Vol:	0 652 110	740 2428	0 400 0 832	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:	0 652 110	740 2428	0 400 0 832	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:	0 652 110	740 2428	0 400 0 832	0 0 0
Reduct Vol:	0 0 0	0 0 0	0 0 0	0 0 0
Reduced Vol:	0 652 110	740 2428	0 400 0 832	0 0 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 1.00 1.00	1.00 1.00 1.00
FinalVolume:	0 652 110	740 2428	0 400 0 832	0 0 0

Saturation Flow Module:

Sat/Lane:	1700 1700 1700	1700 1700 1700	1700 1700 1700	1700 1700 1700
Adjustment:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00
Lanes:	0.00 4.00 1.00	2.00 4.00 0.00	2.00 0.00 2.00	0.00 0.00 0.00
Final Sat.:	0 6800 1700	3400 6800	0 3400 0 3400	0 0 0

Capacity Analysis Module:

Vol/Sat:	0.00 0.10 0.06	0.22 0.36 0.00	0.12 0.00 0.24	0.00 0.00 0.00
Crit Moves:	****	****	****	

Impact Analysis Report
Level Of Service

Intersection	Base Del/ V/ LOS Veh C	Future Del/ V/ LOS Veh C	Change in
# 1 Bee Canyon Access Rd/Portola P	A xxxxxx 0.469	A xxxxxx 0.469	+ 0.000 V/C
# 2 Sand Canyon Ave/Portola Pwy	A xxxxxx 0.569	A xxxxxx 0.569	+ 0.000 V/C
# 3 Sand Canyon Ave/Irvine Blvd	C xxxxxx 0.710	C xxxxxx 0.710	+ 0.000 V/C
# 4 Sand Canyon Ave/Trabuco Rd-Gre	B xxxxxx 0.634	B xxxxxx 0.634	+ 0.000 V/C
# 5 Sand Canyon Ave/I-5 Northbound	C xxxxxx 0.700	C xxxxxx 0.700	+ 0.000 V/C
# 6 Sand Canyon Ave/Marine Way	C xxxxxx 0.739	C xxxxxx 0.739	+ 0.000 V/C
# 7 Sand Canyon Ave/I-5 Southbound	C xxxxxx 0.735	C xxxxxx 0.735	+ 0.000 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Bee Canyon Access Rd/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.469

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 22 Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
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
Lanes:	0	0	0	0	0	0	1	0	2	0	0	1

Volume Module:

Base Vol:	0	0	0	16	0	46	0	958	0	0	1334	4
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	0	0	16	0	46	0	958	0	0	1334	4
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	0	0	16	0	46	0	958	0	0	1334	4
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	16	0	46	0	958	0	0	1334	4
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:	0	0	0	16	0	46	0	958	0	0	1334	4

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	1700	0	1700	1700	3400	0	0	3400	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.28	0.00	0.00	0.39	0.00
Crit Moves:				****		****					****	

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Sand Canyon Ave/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.569

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 27 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Ovl				Include				Ignore				Include			
Min. Green:	0		0		0		0		0		0		0		0	
Y+R:	4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0	
Lanes:	2	0	0	0	2	0	0	0	0	0	0	2	0	1	2	

Volume Module:

Base Vol:	1018	0	415	0	0	0	0	568	157	179	701	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:	1018	0	415	0	0	0	0	568	157	179	701	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	1018	0	415	0	0	0	0	568	0	179	701	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1018	0	415	0	0	0	0	568	0	179	701	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	1018	0	415	0	0	0	0	568	0	179	701	0
OvlAdjVol:	236											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00	1.00	2.00	2.00	0.00
Final Sat.:	3400	0	3400	0	0	0	0	3400	1700	3400	3400	0

Capacity Analysis Module:

Vol/Sat:	0.30	0.00	0.12	0.00	0.00	0.00	0.00	0.17	0.00	0.05	0.21	0.00
OvlAdjV/S:	0.07											
Crit Moves:	****							****	****			

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Sand Canyon Ave/Irvine Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.710
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 38 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ovl					Include					Include					Ignore				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	2	2	0	2	0	1	2	0	4	0	1	2	0	3	0	1

Volume Module:

Base Vol:	411	1007	477	79	302	92	228	1027	164	429	1901	513
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:	411	1007	477	79	302	92	228	1027	164	429	1901	513
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	411	1007	477	79	302	92	228	1027	164	429	1901	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	411	1007	477	79	302	92	228	1027	164	429	1901	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	411	1007	477	79	302	92	228	1027	164	429	1901	0
OvlAdjVol:	48											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	2.00	2.00	2.00	1.00	2.00	4.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	3400	3400	3400	1700	3400	6800	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.12	0.20	0.14	0.02	0.09	0.05	0.07	0.15	0.10	0.13	0.37	0.00
OvlAdjV/S:	0.01											
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Sand Canyon Ave/Trabuco Rd-Great Park Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.634

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 31 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ignore					Include					Ignore					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1

Volume Module:

Base Vol:	182	1370	908	109	549	156	402	693	197	447	842	281
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:	182	1370	908	109	549	156	402	693	197	447	842	281
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	182	1370	0	109	549	156	402	693	0	447	842	281
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	182	1370	0	109	549	156	402	693	0	447	842	281
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	182	1370	0	109	549	156	402	693	0	447	842	281

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	1700	3400	5100	1700	3400	5100	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.05	0.27	0.00	0.03	0.11	0.09	0.12	0.14	0.00	0.13	0.17	0.17
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #5 Sand Canyon Ave/I-5 Northbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.700
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 37 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Ovl					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	1	0	3	0	1	1	1	0	0	2	1	0	0	1	0

Volume Module:

Base Vol:	621	2018	2	5	1206	254	777	3	182	1	2	1
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:	621	2018	2	5	1206	254	777	3	182	1	2	1
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:	621	2018	2	5	1206	254	777	3	182	1	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	621	2018	2	5	1206	254	777	3	182	1	2	1
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:	621	2018	2	5	1206	254	777	3	182	1	2	1
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	1.00	3.00	1.00	1.99	0.01	2.00	1.00	0.67	0.33
Final Sat.:	3400	5100	1700	1700	5100	1700	3387	13	3400	1700	1133	567

Capacity Analysis Module:

Vol/Sat:	0.18	0.40	0.00	0.00	0.24	0.15	0.23	0.23	0.05	0.00	0.00	0.00	
OvlAdjV/S:	0.00												
Crit Moves:	****	****				****				****			

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 Sand Canyon Ave/Marine Way

Cycle (sec): 100 Critical Vol./Cap.(X): 0.739

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 42 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	0	0	3	0	1	2	0	3	0	0	0	0	0	0	0	2	0	0	0	1

Volume Module:

Base Vol:	0	2616	549	241	1174	0	0	0	0	358	0	96
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	2616	549	241	1174	0	0	0	0	358	0	96
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	2616	549	241	1174	0	0	0	0	358	0	96
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2616	549	241	1174	0	0	0	0	358	0	96
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:	0	2616	549	241	1174	0	0	0	0	358	0	96

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	3.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	5100	1700	3400	5100	0	0	0	0	3400	0	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.51	0.32	0.07	0.23	0.00	0.00	0.00	0.00	0.11	0.00	0.06
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 Sand Canyon Ave/I-5 Southbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.735
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 41 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound			
Movement:	L	T	R	L	T	R	L	T	R	L	T	R	
Control:	Protected			Protected			Protected			Protected			
Rights:	Include			Include			Include			Include			
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	
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	
Lanes:	0	0	4	0	1	2	0	4	0	0	2	0	1

Volume Module:

Base Vol:	0	2436	215	615	992	0	746	0	208	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:	0	2436	215	615	992	0	746	0	208	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:	0	2436	215	615	992	0	746	0	208	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2436	215	615	992	0	746	0	208	0	0	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	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	2436	215	615	992	0	746	0	208	0	0	0

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	4.00	1.00	2.00	4.00	0.00	3.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	0	6800	1700	3400	6800	0	5100	0	1700	0	0	0

Capacity Analysis Module:

Vol/Sat:	0.00	0.36	0.13	0.18	0.15	0.00	0.15	0.00	0.12	0.00	0.00	0.00
Crit Moves:	****			****			****					

Impact Analysis Report
Level Of Service

Intersection	Base Del/ V/ LOS Veh C	Future Del/ V/ LOS Veh C	Change in
# 1 Bee Canyon Access Rd/Portola P	A xxxxxx 0.449	A xxxxxx 0.449	+ 0.000 V/C
# 2 Sand Canyon Ave/Portola Pwy	A xxxxxx 0.363	A xxxxxx 0.363	+ 0.000 V/C
# 3 Sand Canyon Ave/Irvine Blvd	B xxxxxx 0.693	B xxxxxx 0.693	+ 0.000 V/C
# 4 Sand Canyon Ave/Trabuco Rd-Gre	C xxxxxx 0.705	C xxxxxx 0.705	+ 0.000 V/C
# 5 Sand Canyon Ave/I-5 Northbound	C xxxxxx 0.712	C xxxxxx 0.712	+ 0.000 V/C
# 6 Sand Canyon Ave/Marine Way	D xxxxxx 0.875	D xxxxxx 0.875	+ 0.000 V/C
# 7 Sand Canyon Ave/I-5 Southbound	C xxxxxx 0.716	C xxxxxx 0.716	+ 0.000 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Bee Canyon Access Rd/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.449
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 22 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Include				Include				Include				Include			
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	4.0	4.0	4.0	
Lanes:	0	0	0	0	0	1	0	1	0	0	1	0	2	0	0	

Volume Module:

Base Vol:	0	0	0	77	0	14	10	1103	0	0	1246	40
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	0	0	77	0	14	10	1103	0	0	1246	40
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	0	0	77	0	14	10	1103	0	0	1246	40
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	77	0	14	10	1103	0	0	1246	40
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:	0	0	0	77	0	14	10	1103	0	0	1246	40

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	1.69	0.00	0.31	1.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2877	0	523	1700	3400	0	0	3400	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.00	0.00	0.03	0.00	0.03	0.01	0.32	0.00	0.00	0.37	0.02
Crit Moves:				****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Sand Canyon Ave/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.363
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 19 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Ovl				Include				Ignore				Include			
Min. Green:	0		0		0		0		0		0		0		0	
Y+R:	4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0	
Lanes:	2		0		0		0		0		0		2		0	

Volume Module:

Base Vol:	134	0	168	0	0	0	0	462	362	468	656	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:	134	0	168	0	0	0	0	462	362	468	656	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	134	0	168	0	0	0	0	462	0	468	656	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	134	0	168	0	0	0	0	462	0	468	656	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	134	0	168	0	0	0	0	462	0	468	656	0
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00	1.00	2.00	2.00	0.00
Final Sat.:	3400	0	3400	0	0	0	0	3400	1700	3400	3400	0

Capacity Analysis Module:

Vol/Sat:	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.14	0.19	0.00
OvlAdjV/S:	0.00											
Crit Moves:	****							****		****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Sand Canyon Ave/Irvine Blvd

Cycle (sec):	100	Critical Vol./Cap.(X):	0.693
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxxx
Optimal Cycle:	36	Level Of Service:	B

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Protected	Protected	Protected	Protected
Rights:	Ovl	Include	Include	Ignore
Min. Green:	0 0 0	0 0 0	0 0 0	0 0 0
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
Lanes:	2 0 3 0 2	2 0 2 0 1	2 0 4 0 1	2 0 3 0 1

Volume Module:

Base Vol:	147	244	259	266	801	135	97	1194	349	540	1088	119
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:	147	244	259	266	801	135	97	1194	349	540	1088	119
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	147	244	259	266	801	135	97	1194	349	540	1088	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	147	244	259	266	801	135	97	1194	349	540	1088	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	147	244	259	266	801	135	97	1194	349	540	1088	0
OvlAdjVol:			0									

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	2.00	2.00	2.00	1.00	2.00	4.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	3400	3400	3400	1700	3400	6800	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.04	0.05	0.08	0.08	0.24	0.08	0.03	0.18	0.21	0.16	0.21	0.00
OvlAdjV/S:			0.00									
Crit Moves:	****			****			****		****	****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Sand Canyon Ave/Trabuco Rd-Great Park Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.705
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 38 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ignore					Include					Ignore					Include				
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1

Volume Module:

Base Vol:	152	313	425	412	1604	235	195	453	732	704	1133	273
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:	152	313	425	412	1604	235	195	453	732	704	1133	273
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	152	313	0	412	1604	235	195	453	0	704	1133	273
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	152	313	0	412	1604	235	195	453	0	704	1133	273
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	152	313	0	412	1604	235	195	453	0	704	1133	273

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	1700	3400	5100	1700	3400	5100	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.04	0.06	0.00	0.12	0.31	0.14	0.06	0.09	0.00	0.21	0.22	0.16
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #5 Sand Canyon Ave/I-5 Northbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.712
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 39 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Ovl					Include				
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0	3	0	1	1	0	3	0	1	1	1	0	0	2	1	0	0	1	0

Volume Module:

Base Vol:	296	723	2	6	2423	700	333	2	584	1	2	1
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:	296	723	2	6	2423	700	333	2	584	1	2	1
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:	296	723	2	6	2423	700	333	2	584	1	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	296	723	2	6	2423	700	333	2	584	1	2	1
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:	296	723	2	6	2423	700	333	2	584	1	2	1
OvlAdjVol:	288											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	1.00	3.00	1.00	1.99	0.01	2.00	1.00	0.67	0.33
Final Sat.:	3400	5100	1700	1700	5100	1700	3380	20	3400	1700	1133	567

Capacity Analysis Module:

Vol/Sat:	0.09	0.14	0.00	0.00	0.48	0.41	0.10	0.10	0.17	0.00	0.00	0.00
OvlAdjV/S:	0.08											
Crit Moves:	****	****					****	****				

Level Of Service Computation Report

ICU 1 (Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 Sand Canyon Ave/Marine Way

Cycle (sec): 100 Critical Vol./Cap.(X): 0.875

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 74 Level Of Service: D

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	0	0	3	0	1	2	0	3	0	0	0	0	0	0	0	2	0	0	0	1

Volume Module:

Base Vol:	0	722	288	92	3017	0	0	0	0	793	0	278
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	722	288	92	3017	0	0	0	0	793	0	278
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	722	288	92	3017	0	0	0	0	793	0	278
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	722	288	92	3017	0	0	0	0	793	0	278
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
Final Volume:	0	722	288	92	3017	0	0	0	0	793	0	278

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	3.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	5100	1700	3400	5100	0	0	0	0	3400	0	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.14	0.17	0.03	0.59	0.00	0.00	0.00	0.00	0.23	0.00	0.16
Crit Moves:	****				****						****	

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 Sand Canyon Ave/I-5 Southbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.716
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 39 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	0	0	4	0	1	2	0	4	0	0	2	0	1	0	1	0	0	0	0	0

Volume Module:

Base Vol:	0	659	104	844	2871	0	411	0	829	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:	0	659	104	844	2871	0	411	0	829	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:	0	659	104	844	2871	0	411	0	829	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	659	104	844	2871	0	411	0	829	0	0	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	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	659	104	844	2871	0	411	0	829	0	0	0

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	4.00	1.00	2.00	4.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	6800	1700	3400	6800	0	3400	0	3400	0	0	0

Capacity Analysis Module:

Vol/Sat:	0.00	0.10	0.06	0.25	0.42	0.00	0.12	0.00	0.24	0.00	0.00	0.00
Crit Moves:	****			****			****		****			

Impact Analysis Report
Level Of Service

Intersection		Base		Future		Change
		Del/	V/	Del/	V/	in
		LOS Veh	C	LOS Veh	C	
# 1 Bee Canyon Access Rd/Portola P	A	xxxxxx	0.477	A	xxxxxx	0.477 + 0.000 V/C
# 2 Sand Canyon Ave/Portola Pwy	A	xxxxxx	0.571	A	xxxxxx	0.571 + 0.000 V/C
# 3 Sand Canyon Ave/Irvine Blvd	C	xxxxxx	0.724	C	xxxxxx	0.724 + 0.000 V/C
# 4 Sand Canyon Ave/Trabuco Rd-Gre	B	xxxxxx	0.645	B	xxxxxx	0.645 + 0.000 V/C
# 5 Sand Canyon Ave/I-5 Northbound	C	xxxxxx	0.731	C	xxxxxx	0.731 + 0.000 V/C
# 6 Sand Canyon Ave/Marine Way	D	xxxxxx	0.883	D	xxxxxx	0.883 + 0.000 V/C
# 7 Sand Canyon Ave/I-5 Southbound	D	xxxxxx	0.823	D	xxxxxx	0.823 + 0.000 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Bee Canyon Access Rd/Portola Pwy

Cycle (sec):	100	Critical Vol./Cap.(X):	0.477
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	23	Level Of Service:	A

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Protected	Protected	Protected	Protected
Rights:	Include	Include	Include	Include
Min. Green:	0 0 0	0 0 0	0 0 0	0 0 0
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
Lanes:	0 0 0 0 0	1 0 1 0 0	1 0 2 0 0	0 0 2 0 1

Volume Module:

Base Vol:	0 0 0	4 0 26	0 1008 0	0 1401 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:	0 0 0	4 0 26	0 1008 0	0 1401 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:	0 0 0	4 0 26	0 1008 0	0 1401 0
Reduct Vol:	0 0 0	0 0 0	0 0 0	0 0 0
Reduced Vol:	0 0 0	4 0 26	0 1008 0	0 1401 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 1.00 1.00	1.00 1.00 1.00
FinalVolume:	0 0 0	4 0 26	0 1008 0	0 1401 0

Saturation Flow Module:

Sat/Lane:	1700 1700 1700	1700 1700 1700	1700 1700 1700	1700 1700 1700
Adjustment:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00
Lanes:	0.00 0.00 0.00	1.00 0.00 1.00	1.00 2.00 0.00	0.00 2.00 1.00
Final Sat.:	0 0 0	1700 0 1700	1700 3400 0	0 3400 1700

Capacity Analysis Module:

Vol/Sat:	0.00 0.00 0.00	0.00 0.00 0.02	0.00 0.30 0.00	0.00 0.41 0.00
Crit Moves:		****	****	****

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Sand Canyon Ave/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.571
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 27 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Ovl				Include				Ignore				Include			
Min. Green:	0		0		0		0		0		0		0		0	
Y+R:	4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0	
Lanes:	2	0	0	0	2	0	0	0	0	0	0	2	0	1	2	

Volume Module:

Base Vol:	1002	0	423	0	0	0	0	587	156	184	718	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:	1002	0	423	0	0	0	0	587	156	184	718	0	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	
PHF Volume:	1002	0	423	0	0	0	0	587	0	184	718	0	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	1002	0	423	0	0	0	0	587	0	184	718	0	
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	
FinalVolume:	1002	0	423	0	0	0	0	587	0	184	718	0	
OvlAdjVol:	239												

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00	1.00	2.00	2.00	0.00
Final Sat.:	3400	0	3400	0	0	0	0	3400	1700	3400	3400	0

Capacity Analysis Module:

Vol/Sat:	0.29	0.00	0.12	0.00	0.00	0.00	0.00	0.17	0.00	0.05	0.21	0.00
OvlAdjV/S:	0.07											
Crit Moves:	****							****		****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Sand Canyon Ave/Irvine Blvd

Cycle (sec):	100	Critical Vol./Cap.(X):	0.724
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxxx
Optimal Cycle:	40	Level Of Service:	C

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Protected	Protected	Protected	Protected
Rights:	Ovl	Include	Include	Ignore
Min. Green:	0 0 0	0 0 0	0 0 0	0 0 0
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
Lanes:	2 0 3 0 2	2 0 2 0 1	2 0 4 0 1	2 0 3 0 1

Volume Module:

Base Vol:	404 987 522	89 298 93	229 1149 163	439 1973 534
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:	404 987 522	89 298 93	229 1149 163	439 1973 534
User Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 0.00
PHF Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 0.00
PHF Volume:	404 987 522	89 298 93	229 1149 163	439 1973 0
Reduct Vol:	0 0 0	0 0 0	0 0 0	0 0 0
Reduced Vol:	404 987 522	89 298 93	229 1149 163	439 1973 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 0.00
MLF Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 0.00
FinalVolume:	404 987 522	89 298 93	229 1149 163	439 1973 0
OvlAdjVol:	83			

Saturation Flow Module:

Sat/Lane:	1700 1700 1700	1700 1700 1700	1700 1700 1700	1700 1700 1700
Adjustment:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00
Lanes:	2.00 3.00 2.00	2.00 2.00 1.00	2.00 4.00 1.00	2.00 3.00 1.00
Final Sat.:	3400 5100 3400	3400 3400 1700	3400 6800 1700	3400 5100 1700

Capacity Analysis Module:

Vol/Sat:	0.12 0.19 0.15	0.03 0.09 0.05	0.07 0.17 0.10	0.13 0.39 0.00
OvlAdjV/S:	0.02			
Crit Moves:	****	****	****	****

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Sand Canyon Ave/Trabuco Rd-Great Park Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.645

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 32 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ignore					Include					Ignore					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1

Volume Module:

Base Vol:	187	1355	1035	127	538	164	418	827	199	443	889	287
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:	187	1355	1035	127	538	164	418	827	199	443	889	287
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	187	1355	0	127	538	164	418	827	0	443	889	287
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	187	1355	0	127	538	164	418	827	0	443	889	287
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	187	1355	0	127	538	164	418	827	0	443	889	287

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	1700	3400	5100	1700	3400	5100	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.06	0.27	0.00	0.04	0.11	0.10	0.12	0.16	0.00	0.13	0.17	0.17
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #5 Sand Canyon Ave/I-5 Northbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.731
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 41 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Ovl					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	1	0	3	0	1	1	1	0	0	2	1	0	0	1	0

Volume Module:

Base Vol:	668	2047	2	5	1224	236	824	3	222	1	2	1
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:	668	2047	2	5	1224	236	824	3	222	1	2	1
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:	668	2047	2	5	1224	236	824	3	222	1	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	668	2047	2	5	1224	236	824	3	222	1	2	1
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:	668	2047	2	5	1224	236	824	3	222	1	2	1
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	1.00	3.00	1.00	1.99	0.01	2.00	1.00	0.67	0.33
Final Sat.:	3400	5100	1700	1700	5100	1700	3388	12	3400	1700	1133	567

Capacity Analysis Module:

Vol/Sat:	0.20	0.40	0.00	0.00	0.24	0.14	0.24	0.24	0.07	0.00	0.00	0.00	
OvlAdjV/S:	0.00												
Crit Moves:	****	****				****				****			

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 Sand Canyon Ave/Marine Way

Cycle (sec): 100 Critical Vol./Cap.(X): 0.883
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 78 Level Of Service: D

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	0	0	3	0	1	2	0	3	0	0	0	0	0	0	0	2	0	0	0	1

Volume Module:

Base Vol:	0	2654	936	314	1145	0	0	0	0	645	0	136
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	2654	936	314	1145	0	0	0	0	645	0	136
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	2654	936	314	1145	0	0	0	0	645	0	136
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2654	936	314	1145	0	0	0	0	645	0	136
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:	0	2654	936	314	1145	0	0	0	0	645	0	136

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	3.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	5100	1700	3400	5100	0	0	0	0	3400	0	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.52	0.55	0.09	0.22	0.00	0.00	0.00	0.00	0.19	0.00	0.08
Crit Moves:			****	****						****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 Sand Canyon Ave/I-5 Southbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.823
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 57 Level Of Service: D

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	0	0	4	0	1	2	0	4	0	0	2	0	1	0	1	0	0	0	0	0

Volume Module:

Base Vol:	0	2790	206	693	1155	0	810	0	195	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:	0	2790	206	693	1155	0	810	0	195	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:	0	2790	206	693	1155	0	810	0	195	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2790	206	693	1155	0	810	0	195	0	0	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	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	2790	206	693	1155	0	810	0	195	0	0	0

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	4.00	1.00	2.00	4.00	0.00	3.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	0	6800	1700	3400	6800	0	5100	0	1700	0	0	0

Capacity Analysis Module:

Vol/Sat:	0.00	0.41	0.12	0.20	0.17	0.00	0.16	0.00	0.11	0.00	0.00	0.00
Crit Moves:	****			****			****					

 Impact Analysis Report
 Level Of Service

Intersection	Base Del/ V/ LOS Veh C	Future Del/ V/ LOS Veh C	Change in
# 1 Bee Canyon Access Rd/Portola P	A xxxxxx 0.450	A xxxxxx 0.450	+ 0.000 V/C
# 2 Sand Canyon Ave/Portola Pwy	A xxxxxx 0.364	A xxxxxx 0.364	+ 0.000 V/C
# 3 Sand Canyon Ave/Irvine Blvd	B xxxxxx 0.694	B xxxxxx 0.694	+ 0.000 V/C
# 4 Sand Canyon Ave/Trabuco Rd-Gre	C xxxxxx 0.706	C xxxxxx 0.706	+ 0.000 V/C
# 5 Sand Canyon Ave/I-5 Northbound	C xxxxxx 0.713	C xxxxxx 0.713	+ 0.000 V/C
# 6 Sand Canyon Ave/Marine Way	D xxxxxx 0.875	D xxxxxx 0.875	+ 0.000 V/C
# 7 Sand Canyon Ave/I-5 Southbound	C xxxxxx 0.716	C xxxxxx 0.716	+ 0.000 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Bee Canyon Access Rd/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.450
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 22 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Include				Include				Include				Include			
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	4.0	4.0	4.0	
Lanes:	0	0	0	0	0	1	0	1	0	0	1	0	2	0	0	

Volume Module:

Base Vol:	0	0	0	81	0	14	10	1103	0	0	1246	44
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	0	0	81	0	14	10	1103	0	0	1246	44
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	0	0	81	0	14	10	1103	0	0	1246	44
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	81	0	14	10	1103	0	0	1246	44
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:	0	0	0	81	0	14	10	1103	0	0	1246	44

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	1.71	0.00	0.29	1.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2899	0	501	1700	3400	0	0	3400	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.00	0.00	0.03	0.00	0.03	0.01	0.32	0.00	0.00	0.37	0.03
Crit Moves:				****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Sand Canyon Ave/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.364
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 19 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Ovl				Include				Ignore				Include			
Min. Green:	0		0		0		0		0		0		0		0	
Y+R:	4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0	
Lanes:	2	0	0	0	2	0	0	0	0	0	0	2	0	1	2	

Volume Module:

Base Vol:	138	0	168	0	0	0	0	462	366	468	656	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:	138	0	168	0	0	0	0	462	366	468	656	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
PHF Volume:	138	0	168	0	0	0	0	462	0	468	656	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	138	0	168	0	0	0	0	462	0	468	656	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
FinalVolume:	138	0	168	0	0	0	0	462	0	468	656	0
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00	1.00	2.00	2.00	0.00
Final Sat.:	3400	0	3400	0	0	0	0	3400	1700	3400	3400	0

Capacity Analysis Module:

Vol/Sat:	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.14	0.19	0.00
OvlAdjV/S:	0.00											
Crit Moves:	****							****		****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Sand Canyon Ave/Irvine Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.694

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 37 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ovl					Include					Include					Ignore				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	2	2	0	2	0	1	2	0	4	0	1	2	0	3	0	1

Volume Module:

Base Vol:	147	248	259	266	805	135	97	1194	349	540	1088	119
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:	147	248	259	266	805	135	97	1194	349	540	1088	119
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	147	248	259	266	805	135	97	1194	349	540	1088	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	147	248	259	266	805	135	97	1194	349	540	1088	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	147	248	259	266	805	135	97	1194	349	540	1088	0
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	2.00	2.00	2.00	1.00	2.00	4.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	3400	3400	3400	1700	3400	6800	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.04	0.05	0.08	0.08	0.24	0.08	0.03	0.18	0.21	0.16	0.21	0.00	
OvlAdjV/S:	0.00												
Crit Moves:	****	****					****	****					

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Sand Canyon Ave/Trabuco Rd-Great Park Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.706

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 38 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ignore					Include					Ignore					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1	2	0	3	0	1

Volume Module:

Base Vol:	152	317	425	412	1608	235	195	453	732	704	1133	273
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:	152	317	425	412	1608	235	195	453	732	704	1133	273
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	152	317	0	412	1608	235	195	453	0	704	1133	273
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	152	317	0	412	1608	235	195	453	0	704	1133	273
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	152	317	0	412	1608	235	195	453	0	704	1133	273

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	1700	3400	5100	1700	3400	5100	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.04	0.06	0.00	0.12	0.32	0.14	0.06	0.09	0.00	0.21	0.22	0.16
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #5 Sand Canyon Ave/I-5 Northbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.713
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 39 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Ovl					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	1	0	3	0	1	1	1	0	0	2	1	0	0	1	0

Volume Module:

Base Vol:	296	725	2	6	2425	702	335	2	584	1	2	1
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:	296	725	2	6	2425	702	335	2	584	1	2	1
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:	296	725	2	6	2425	702	335	2	584	1	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	296	725	2	6	2425	702	335	2	584	1	2	1
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:	296	725	2	6	2425	702	335	2	584	1	2	1
OvlAdjVol:	288											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	1.00	3.00	1.00	1.99	0.01	2.00	1.00	0.67	0.33
Final Sat.:	3400	5100	1700	1700	5100	1700	3380	20	3400	1700	1133	567

Capacity Analysis Module:

Vol/Sat:	0.09	0.14	0.00	0.00	0.48	0.41	0.10	0.10	0.17	0.00	0.00	0.00
OvlAdjV/S:	0.08											
Crit Moves:	****	****					****	****				

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 Sand Canyon Ave/Marine Way

Cycle (sec): 100 Critical Vol./Cap.(X): 0.875

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 74 Level Of Service: D

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R

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Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				

Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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Lanes:	0	0	3	0	1	2	0	3	0	0	0	0	0	0	0	2	0	0	0	1
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Volume Module:

Base Vol:	0	724	288	92	3019	0	0	0	0	793	0	278
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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
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Initial Bse:	0	724	288	92	3019	0	0	0	0	793	0	278
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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
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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
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PHF Volume:	0	724	288	92	3019	0	0	0	0	793	0	278
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Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
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Reduced Vol:	0	724	288	92	3019	0	0	0	0	793	0	278
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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
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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
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FinalVolume:	0	724	288	92	3019	0	0	0	0	793	0	278
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Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
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Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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Lanes:	0.00	3.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
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Final Sat.:	0	5100	1700	3400	5100	0	0	0	0	3400	0	1700
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Capacity Analysis Module:

Vol/Sat:	0.00	0.14	0.17	0.03	0.59	0.00	0.00	0.00	0.00	0.23	0.00	0.16
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Crit Moves:	****				****					****		
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Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 Sand Canyon Ave/I-5 Southbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.716
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 39 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	0	0	4	0	1	2	0	4	0	0	2	0	1	0	1	0	0	0	0	0

Volume Module:

Base Vol:	0	659	104	846	2871	0	413	0	829	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:	0	659	104	846	2871	0	413	0	829	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:	0	659	104	846	2871	0	413	0	829	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	659	104	846	2871	0	413	0	829	0	0	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	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	659	104	846	2871	0	413	0	829	0	0	0

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	4.00	1.00	2.00	4.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	0	6800	1700	3400	6800	0	3400	0	3400	0	0	0

Capacity Analysis Module:

Vol/Sat:	0.00	0.10	0.06	0.25	0.42	0.00	0.12	0.00	0.24	0.00	0.00	0.00
Crit Moves:	****			****			****					

Impact Analysis Report
Level Of Service

Intersection	Base Del/ V/ LOS Veh C	Future Del/ V/ LOS Veh C	Change in
# 1 Bee Canyon Access Rd/Portola P	A xxxxxx 0.477	A xxxxxx 0.477	+ 0.000 V/C
# 2 Sand Canyon Ave/Portola Pwy	A xxxxxx 0.573	A xxxxxx 0.573	+ 0.000 V/C
# 3 Sand Canyon Ave/Irvine Blvd	C xxxxxx 0.725	C xxxxxx 0.725	+ 0.000 V/C
# 4 Sand Canyon Ave/Trabuco Rd-Gre	B xxxxxx 0.646	B xxxxxx 0.646	+ 0.000 V/C
# 5 Sand Canyon Ave/I-5 Northbound	C xxxxxx 0.732	C xxxxxx 0.732	+ 0.000 V/C
# 6 Sand Canyon Ave/Marine Way	D xxxxxx 0.883	D xxxxxx 0.883	+ 0.000 V/C
# 7 Sand Canyon Ave/I-5 Southbound	D xxxxxx 0.824	D xxxxxx 0.824	+ 0.000 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Bee Canyon Access Rd/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.477
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 23 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Include				Include				Include				Include			
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	4.0	4.0	4.0	
Lanes:	0	0	0	0	0	1	0	1	0	0	1	0	2	0	0	

Volume Module:

Base Vol:	0	0	0	8	0	26	0	1008	0	0	1401	4
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	0	0	8	0	26	0	1008	0	0	1401	4
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	0	0	8	0	26	0	1008	0	0	1401	4
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	8	0	26	0	1008	0	0	1401	4
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:	0	0	0	8	0	26	0	1008	0	0	1401	4

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	1.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	1700	0	1700	1700	3400	0	0	3400	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.30	0.00	0.00	0.41	0.00
Crit Moves:				****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Sand Canyon Ave/Portola Pwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.573

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 27 Level Of Service: A

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected				Protected				Protected				Protected			
Rights:	Ovl				Include				Ignore				Include			
Min. Green:	0		0		0		0		0		0		0		0	
Y+R:	4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0	
Lanes:	2	0	0	0	2	0	0	0	0	0	0	2	0	1	2	

Volume Module:

Base Vol:	1006	0	423	0	0	0	0	587	160	184	718	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:	1006	0	423	0	0	0	0	587	160	184	718	0	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	
PHF Volume:	1006	0	423	0	0	0	0	587	0	184	718	0	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	1006	0	423	0	0	0	0	587	0	184	718	0	
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	
FinalVolume:	1006	0	423	0	0	0	0	587	0	184	718	0	
OvlAdjVol:	239												

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00	1.00	2.00	2.00	0.00
Final Sat.:	3400	0	3400	0	0	0	0	3400	1700	3400	3400	0

Capacity Analysis Module:

Vol/Sat:	0.30	0.00	0.12	0.00	0.00	0.00	0.00	0.17	0.00	0.05	0.21	0.00
OvlAdjV/S:	0.07											
Crit Moves:	****							****		****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Sand Canyon Ave/Irvine Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.725

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 40 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Ovl					Include					Include					Ignore				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2		0		3	0		2		0	1		2		0	4		0		1

Volume Module:

Base Vol:	404	991	522	89	302	93	229	1149	163	439	1973	534
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:	404	991	522	89	302	93	229	1149	163	439	1973	534
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	404	991	522	89	302	93	229	1149	163	439	1973	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	404	991	522	89	302	93	229	1149	163	439	1973	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	0.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
FinalVolume:	404	991	522	89	302	93	229	1149	163	439	1973	0
OvlAdjVol:	83											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	2.00	2.00	2.00	1.00	2.00	4.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	3400	3400	3400	1700	3400	6800	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.12	0.19	0.15	0.03	0.09	0.05	0.07	0.17	0.10	0.13	0.39	0.00
OvlAdjV/S:	0.02											
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Sand Canyon Ave/Trabuco Rd-Great Park Blvd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.646

Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx

Optimal Cycle: 32 Level Of Service: B

Approach:	North Bound					South Bound					East Bound					West Bound					
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Protected					Protected					Protected					Protected					
Rights:	Ignore					Include					Ignore					Include					
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0	
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	
Lanes:	2		0		3	0		1		2	0		3		0	1		2	0		3

Volume Module:

Base Vol:	187	1359	1035	127	542	164	418	827	199	443	889	287
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:	187	1359	1035	127	542	164	418	827	199	443	889	287
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	187	1359	0	127	542	164	418	827	0	443	889	287
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	187	1359	0	127	542	164	418	827	0	443	889	287
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	187	1359	0	127	542	164	418	827	0	443	889	287

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3400	5100	1700	3400	5100	1700	3400	5100	1700	3400	5100	1700

Capacity Analysis Module:

Vol/Sat:	0.06	0.27	0.00	0.04	0.11	0.10	0.12	0.16	0.00	0.13	0.17	0.17
Crit Moves:	****			****			****			****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #5 Sand Canyon Ave/I-5 Northbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.732
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 41 Level Of Service: C

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Ovl					Include				
Min. Green:	0		0		0	0		0		0	0		0		0	0		0		0
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
Lanes:	2	0	3	0	1	1	0	3	0	1	1	1	0	0	2	1	0	0	1	0

Volume Module:

Base Vol:	668	2049	2	5	1226	238	826	3	222	1	2	1
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:	668	2049	2	5	1226	238	826	3	222	1	2	1
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:	668	2049	2	5	1226	238	826	3	222	1	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	668	2049	2	5	1226	238	826	3	222	1	2	1
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:	668	2049	2	5	1226	238	826	3	222	1	2	1
OvlAdjVol:	0											

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	3.00	1.00	1.00	3.00	1.00	1.99	0.01	2.00	1.00	0.67	0.33
Final Sat.:	3400	5100	1700	1700	5100	1700	3388	12	3400	1700	1133	567

Capacity Analysis Module:

Vol/Sat:	0.20	0.40	0.00	0.00	0.24	0.14	0.24	0.24	0.07	0.00	0.00	0.00	
OvlAdjV/S:	0.00												
Crit Moves:	****	****				****				****			

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 Sand Canyon Ave/Marine Way

Cycle (sec): 100 Critical Vol./Cap.(X): 0.883
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 78 Level Of Service: D

Approach:	North Bound					South Bound					East Bound					West Bound				
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Protected					Protected					Protected					Protected				
Rights:	Include					Include					Include					Include				
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	0	0	3	0	1	2	0	3	0	0	0	0	0	0	0	2	0	0	0	1

Volume Module:

Base Vol:	0	2656	936	314	1147	0	0	0	0	645	0	136
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	2656	936	314	1147	0	0	0	0	645	0	136
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	2656	936	314	1147	0	0	0	0	645	0	136
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2656	936	314	1147	0	0	0	0	645	0	136
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:	0	2656	936	314	1147	0	0	0	0	645	0	136

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	3.00	1.00	2.00	3.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	5100	1700	3400	5100	0	0	0	0	3400	0	1700

Capacity Analysis Module:

Vol/Sat:	0.00	0.52	0.55	0.09	0.22	0.00	0.00	0.00	0.00	0.19	0.00	0.08
Crit Moves:	****			****						****		

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 Sand Canyon Ave/I-5 Southbound Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.824
 Loss Time (sec): 5 Average Delay (sec/veh): xxxxxx
 Optimal Cycle: 58 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound			
Movement:	L	T	R	L	T	R	L	T	R	L	T	R	
Control:	Protected			Protected			Protected			Protected			
Rights:	Include			Include			Include			Include			
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	
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	
Lanes:	0	0	4	0	1	2	0	4	0	0	2	0	1

Volume Module:

Base Vol:	0	2790	206	695	1155	0	812	0	195	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:	0	2790	206	695	1155	0	812	0	195	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:	0	2790	206	695	1155	0	812	0	195	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2790	206	695	1155	0	812	0	195	0	0	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	1.00	1.00	1.00	1.00	1.00
FinalVolume:	0	2790	206	695	1155	0	812	0	195	0	0	0

Saturation Flow Module:

Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	4.00	1.00	2.00	4.00	0.00	3.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	0	6800	1700	3400	6800	0	5100	0	1700	0	0	0

Capacity Analysis Module:

Vol/Sat:	0.00	0.41	0.12	0.20	0.17	0.00	0.16	0.00	0.11	0.00	0.00	0.00
Crit Moves:	****			****			****					
