Final Report: Mobile Surveillance and Wireless Communication Systems Field Operational Test Volume 3: Appendices A-J Containing Evaluation Data Gathered During the Anaheim Special Event and I-5 Tests Lawrence A. Klein

California PATH Research Report UCB-ITS-PRR-99-8



CALIFORNIA PATH PROGRAM
INSTITUTE OF TRANSPORTATION STUDIES
UNIVERSITY OF CALIFORNIA, BERKELEY

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This work was performed as part of the California PATH Program of the University of California, in cooperation with the State of California Business, Transportation, and Housing Agency, Department of Transportation; and the United States Department of Transportation, Federal Highway Administration.

The contents of this report reflect the views of the authors who are responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California. This report does not constitute a standard, specification, or regulation.

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# Final Report: Mobile Surveillance and Wireless Communication Systems Field Operational Test

Volume 3: Appendices A – J Containing Evaluation
Data Gathered During the Anaheim
Special Event and I-5 Tests

Prepared by: Lawrence A. Klein, Ph.D.

Prepared for: University of California at Irvine

January 1999

## **Preface**

The Mobile Surveillance and Wireless Communication Systems Field Operational Test (FOT) contained two evaluation tests, the Anaheim Special Event Test and the Interstate-5 (I-5) Test. The Anaheim Special Event Test assessed the ability of the surveillance trailers to transmit video imagery to a traffic management center in support of arterial traffic signal control. This test occurred during the Spring of 1997 in conjunction with heavy traffic experienced during hockey playoff games at the Arrowhead Pond in Anaheim, CA. The I-5 Test evaluated the ability of the mobile surveillance and ramp meter trailers to transmit video imagery and data in support of freeway ramp metering. It occurred a year later in Spring 1998 along I-5 in Orange County, CA. The results of these tests and other conclusions from the FOT are presented in three volumes. The first volume serves as the Executive Summary of the FOT. It describes the project objectives, results, conclusions, and recommendations in condensed fashion. The second volume discusses the overall goals and objectives of the FOT and the design of the mobile surveillance and wireless communication system in more detail. Technical and institutional issues that surfaced before either of the two FOT tests was conducted are described. The specific objectives of the Anaheim Special Event and the I-5 Tests, lessons learned, test results, and recommendations are expanded upon in this volume. Photographs and drawings are used liberally to illustrate the types of equipment and test configurations that were tested. Volume 2 also incorporates revisions to the evaluation plans that were originally prepared by Pacific Polytechnic Institute (PPI). The evaluation plans and preliminary results from the planning and design phases of the FOT and the Anaheim Special Event Test were originally published by California Partners for Advanced Transit and Highways (PATH) under Report 97-C34. The third volume consists of ten appendices that contain data and other information gathered during the tests.

The test planning and execution were a cooperative effort among the partner agencies and companies. These were the Federal Highway Administration, California Department of Transportation divisions in Sacramento and Orange County, California Partners for Advanced Transit and Highways, University of California at Irvine Institute of Transportation Studies, California Highway Patrol, City of Anaheim Department of Public Works, Hughes Aircraft Company (now Raytheon Systems Company), Pacific Polytechnic Institute, and Lawrence A. Klein, Consultant.

This report was prepared in cooperation with the State of California, Business Transportation and Housing Agency, Department of Transportation. The material is based on work supported by the Federal Highway Administration, the State of California, Department of Transportation under prime contract number RTA-65A0012, and the Regents of the University of California.

The contents of the report reflect the views of the authors who are responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California, the Federal Highway Administration, or the Regents of the University of California. This report does not constitute a standard, specification, or regulation.

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Written Statements from Members of Project Management Team

# Mobile Surveillance and Wireless Communication Systems Field Operational Test Individual Evaluation

## Nathaniel Behura City of Anaheim

This report is being provided to assist PPI in examining the test data and procedure that will determine the viability of the Mobile Surveillance and Communication Filed Operational Test (FOT). I was involved as Project Manager for the City of Anaheim, one of the partners in the test, and was responsible for ail liaison between the other test partners and Anaheim. I was ultimately responsible for all activities and support provided by Anaheim for this FOT.

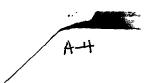
My involvement began fairly late on the overall project schedule, at the stage when field tests were about to begin in Anaheim. I attended my first meeting regarding this project on February 20,1997, at the Caitrans District 12 TMC. I had not had the benefit of knowing the details of the project or its goals as had my predecessors (Jim Paral, Chris Dahi, Yo Baba), and my role was concentrated on the implementation aspect of the project. Hence, my statements in this report are a combination of my first hand experience and any information I could gather from speaking to other participants or reviewing project files. My comments follow the format recommended in the report "Individual Evaluation Plan for Test #2 - City of Anaheim" prepared by PPI, and dated March 25, 1997.

## **Test Objective I- Examine Portability**

## **Statement 1.1 - Site Selection**

Initial site selection was based on the usefulness of the Mobile Surveillance Trailers (MST's) in providing visual data to the TMC Event Operators in Anaheim. Though there are several large avant generators in the City (Anaheim Stadium, Arrowhead Pond, Disneyland, Anaheim Convention Canter) only the Stahium and the Pond had distinct evening events that could distinguished from commuter traffic and required evening TMC traffic management. Of the two locations, only the Pond had various events regularly through out the year. Hence, the Pond was our first choice for an event generator.

Ingress and egress traffic flow vary in various aspects, the most important of these being that egress traffic has a more pronounced peak and shorter duration. These aspects make it easier to measure any impacts of mitigation actions on avant traffic. Of the various routes that egress traffic takes, Anaheim recommended three locations which are important intersections where it currently does not have cameras, and visual confirmation of field conditions at these locations would benefit the operators. These intersections, in order of their importance from a traffic management perspective are:



- 1.) Ball Road and Phoenix Club Drive
- 2.) Cerritos Avenue and Sunkist Stre
- 3.) State College Boulevard and Cerritos Avenue

To ensure that these sites are viable for traffic management, the City had to check for the following criteria.

- a.) The sites were actually available for tests, since these were on private property.
- b.) The sites had adequate space for parking the MST's
- c.) The sites allowed for proper vantage points or views to monitor the necessary traffic flowing in a specific direction.
- d.) The sites had adequate signal strength or line of sight to the relay station to receive the necessary signals and send video back.

Since the teams that carried out the above mentioned checks were not the same ones, the sites were not always selected with all these aspects in mind (8.g. when Signal strength checks were done, it was not checked to see whether the spot with the best strength had good camera perspectives).

The MST could not be located at Phoenix and Ball because there was not any space for parking. The MST was moved west, to the Ball Road and SR-57 on-ramp.

I had managed tasks a), b), and c), of this project after signal strength checks were completed already. initially, from an aerial map and from sit8 visits, we eliminated the corners of each intersection which would not meet criteria b) and c). I had identified and met with the property owners to ensure the sites were available for Upcoming event dates. Once the event dates were identified, I had prepared written agreements for property owners to sign and make their sites available for the FOT. It was imperative to convey both the importance of the tests to local traffic flow, and the appreciation of the test partners, to elicit cooperation. However it was most important to ensure the we created the least amount of intrusion in the owners' regular operation of these sites. It was also critical to inform the owners of the exact length of time the MST's would be on-site and of the precise locations.

Some of the problems in the field that were encountered were:

- I) Identifying and contactingthe owners within a short time
- II) Getting permission to park the MSTs; concerns about hindering parking operation, duration of tests, and liability issues.
- III) Problem with swapping MST's created more uncertainty about specifics that property owners like to know, and with availability of MST transportation personnel.
- IV) Blocked or poor camera view; since permission for space was acquired based on perceived camera views and signal strength. Set-ups had to be adjusted to improve camera view within the existing space confinements.
- V) Liability and theft problems. Though this was not a primary concern, it Was an issue With the owners for accidets and thefts that could occur on their property.

## Test Objective 2-Trailers work for Traffic Management

Though my statement in this category is not required, I would like to indicate that the forms required to be completed for this assessment are cumbersome to some extent in their current form, and that the operator found it difficult and somewhat unnecessary to check the camera every 15 minutes.

## <u>Test Objective 3 - Assess Additional Surveillance</u>

I provided the Data 3.1.1 on event duration, Please note that there is a significant variability in the "egress duration" based on the expertise of the individual operators, the actual field conditions (e.g. number of police on street, traffic signals under repair, TMC equipment or camera under repair, Caltrans Freeway CMS Status, etc.), and the accuracy Of the recorded times. Operators often take preemptive action to accommodate for traffic at these blind intersections in absence of cameras. Given this variability, the actual improvement with camera may be difficult measure.

For Data 3.1.2, the only known problem was that Trailer 11 at Ball and SR-57 ramps was not working.

Please contact me to record the attendance data for March events.

## Test Objective 4- Resource Sharing Institutional Issues

## Data 4.1.1 - Advantages of Resource Sharing

The following are a list of advantages that I perceive from such resource sharing:

- 1. Ability to monitor currently blind intersections.
- 2. Creates a framework for interagency cooperation.
- 3. Ability to us8 MST in future for intersections under construction (upcoming i-6).
- 4. Better understanding of the usefulness of camera at certain location for events (i.e. do we really need cameras here?)
- 5. Provides ideas for future projects.
- 6. Provides insight Into viability of new technology.

## Data 4.2.1 - Disadvantages of Resource Sharing

The following are a list of disadvantages that I perceive from such resource sharing:

- 1. Interagency coordination is not smooth; various opinions and perspective of partners.
- 2. City cannot assume more liability to test new equipment.
- **3.** There is some training involved for City Personnel.
- 4. The City has to arrange with the Police to monitor security at MST locations,

- 5. Permission required from private property owners.
- 6. Significant time and resource commitments are necessary from Anaheim which has limited manpower availability. The benefits may not be commensurate. Availability issues made it necessary to work in narrow windows of time, which was not always responded to by other participants.
- 7. Long time frame of project necessitated changes in Project Managers, which was detrimental to smooth and timely completion of project.

## Data 4.2.1 - Cost of Resource Sharing

The following are a list of costs that may have been incurred from this resource sharing, by the *City*:

- 1. Participation Costs: This is our major item since our manpower is so limited. Such costs include direct manpower costs (by hours) for project managers, operators (training and meetings), field technicians, maintenance personnel, etc.
- 2. Indirect costs include the opportunity costs for all other projects and tasks that were postponed or cancelled to attend to this project with a short deadline.
- Equipment costs for TMC installation.
- 4. Exposure to liability.

#### Test Objective 6 - Information Sharing: Institutional Issues

## Data 6.1.1 - Advantages of Video Sharing

The following are a list of advantages that I perceive from such resource sharing:

- 1. Allows Caltrans to manage ramp operation in the vicinity of Arrowhead Pond (relevant to one location only.)
- 2. Creates a framework for interagency information sharing and cooperation.
- 3. Provides better understanding of each others operation.

## Data 6.2.1 - Disadvantages of Video Sharing

The following are a list of disadvantages that 1 perceive from such resource sharing:

- 1 Video sharing requires prioritizing control, hence limits primary control for one agency.
- 2. Technical problems sometimes have precluded one agency from sharing controls.

#### Other Considerations:

There a few other issues that need to be addressed that affect the success of this FOT. These issues may fall into one or more categories discussed before, I leave it to PPI to make such classifications, or determine if these issues are important enough to be discussed.

- 1. <u>PMT Partners Buy-in and Support</u> Currently projects such as this are based on initial agreements and discussions between some representatives of the participating agencies. However, some essential participants may not have been properly informed about the benefits of the project. it is necessary to get a thorough buy-in of the project from the participating agencies as this commitment may wear thin as time passes and the schedule is stretched, To correct this situation, management or senior level personnel should be fully committed at the beginning of the project and should have a fufi understanding of what resources and time commitments are necessary, and if and how the project is beneficial to the agency or to the community in general.
- 2. <u>Paperwork Requirements from Participants:</u> Many of the key people helping with the project are not used to writing statements or doing paperwork. This may seem trivia1 for a research organization, however, can pose difficult situations for some technical personnel. One suggestion would be to create a form with specific questions that may be helpful in getting the same information. The paperwork responsibility should be assumed by entities who are better equipped to handle it.
- 3. <u>Time Coordination:</u> It is important to understand that key agencies who are small will have shortage of resources, including personnel and time. Hence, when a time window is given by such an agency for another participant to be present or perform a task, it needs to be &formed to. if a time window is missed, it is difficult for the small agency to reschedule such a task.
- 4. <u>Fuel Issues:</u> Fuel depletion was an unforeseen circumstance, and affected proper equipment checking as the MST's had to be put on "manual" mode. it was also an issue of manpower availability to refuel the MST's This aspect needs to be preplanned.

Please contact me at (714) 254-5183 to discuss any of these and other related issues. An appointment is recommended.

4-15-97

To. NAther Betterns.

RE: Mobile Surveillance Comments

THE THREE DAYS that I WAY INVOLVED, I FOUND THE UNITS VERY WEFUL THOUGH THE CONVICTE VERSION OF USE WAS NOT AUXILABLE NOR WAST'T to be Testes At this fime, they were Still VERY USEFUL FOR VISION PURPOSES ONLY. The only problem encontenes was the Astaty to row these twiler around Philly. I'm Sure we VERNED A great Dad AND AS UE WE These in the future, the system will sugaria.

(714) 254-6914

## Statement about FOT #2, Event 1 on Tuesday, April 1, 1997 Tadeo Lau, District 12

Notice of deployment was given to Maintenance approximately ten days prior to the deployment (Mar 26) of the trailers. Ed Hepko was briefed by Tadeo Lau about the sequence and dates of events and deployment to take place. His supervisor in turn compiled a list to present to his superintendent. Tadeo Lau met with the superintendent on Mar. 21 and went over the plan Maintenance was going to undertake to accommodate the test.

New database records and icons in the ATMS system for the trailers in Anaheim were created but not activated at Caltrans TMC prior to the deployment.

On Mar. 25, one day before the first trailer deployment, all three trailers were refilled with propane I field checked all the three sites in Anaheim for the last time for space and building/tree blockage and identify the exact spots to park the trailers. I requested Lany Hazuka of Anaheim to place cones around two to three parking spaces at Sunkist/Cerritos either on the evening before or on the morning of deployment. Larry indicated that it was not necessary to cone off the area as plenty of parking space should be available at time of deployment Ed Hepko confirmed that besides two mainteanance persons to participate in the deployment on the first day of deployment, other personnel from his crew would also be available to assist in the ramp closure that was necessary at Ball/57 No provision of concrete blocks or sand bags was required for this test.

Prior to the deployment on Mar. 26, the new ATMS icons for the trailers were activated and the old ones were deactivated. When picking up trailer 111, the antenna and cameras were oriented to ensure safe mast-retraction. Trailer 111 was transported from I-S/Culver to Rte. 57/Ball. Once the trailer arrived near the site, I talked to Ed Hepko to coordinate how trailer would be backed up into the designated area, Brian Tankersley participated in the setup on the first day of deployment. Maintenance had two additional trucks and three additional crew members to facilitate the ramp closure, The closure started at around 9AM at the freeway on ramp. Once the trailer was backed up into the pull-out area, the ramp was re-open and the crew that assisted in the ramp closure left the site. Signal was checked and cameras were oriented while trailer was still hitched. However, the remote operability was not verified at this point because Maintenance crew wanted to finish hauling the second trailer. One of the four stabilizers could not be lowered.

Trailer 113 was transported from I-5/1st Street to Sunkist/Cerritos. After radio link was established, Anaheim TMC was asked to remotely activate the trailer. Larry Hazuka participated as observer for the setup only. Although Anaheim could control the cameras, it did not receive video. This was later fixed by Brian at Anaheim TMC. Caltrans TMC was asked to test the same but the trailer did not start up at all. Additional steps had to be performed by Caltrans in setting up the camera control processes.

1.

I briefed two Caltrans shift leaders in the morning during the deployment as to the situation regarding the deployment of the three trailers. It was then followed by a memo in the afternoon describing the operation protocol between the two TMC's, and reporting of any urgent alarm to the Anaheim PD.. A trailer location map was also attached for their reference.

Two maintenance electricians participated in the transportation of trailer 115 from I-5/Main PIace to State College/Cerritos on Mar. 27. No cones were used to mark off area for trailer and it turned out that it was not necessary. The exact spot was selected to avoid tree blockage of radio link and to obtain the bestfield of view for cameras. L-any Hazuka assisted in the setup of the trailer today as part of hands-on training. The mast was raised and oriented to establish the radio link. I turned on Trailer 113 and Anaheim TMC was asked to test control of both trailers and switch cameras back and forth between trailers. All operations were confirmed Caltrans still did not have control of any trailers.

I visited Trailer 111 at Ball Road and requested Anaheim TMC to remotely turn on the trailer and tested for video. Operability and receive of video were confirmed. All trailers were then put in manual mode to conserve fuel as no agency would likely use any of the trailers over the weekend. Brian turned all trailers to auto mode in the afternoon of the event and had Anaheim checked their operability before the event started. In the morning after the event, I went to all three trailers and shut them down and put them in manual mode again.

## Statement about FOT#2, Event 2, on Friday April 4, 1997 Tadeo Lau, District 12

The day after Event 1, April 2, Trailers 113 and 115 locations were switched. Trailer 115 was first moved to the S/W corner across from Trailer 113. This turned out to have a better field of view for Anaheim. The mast was raised, signal was checked out, and Anaheim TMC was asked to test the trailer. After operation of 115 is confirmed Trailer 113 was moved from Sunkist/Cerritoes to where Trailer 115 was once at. Although a user manual was not readily available at this time, Larry Hazuka assisted in the setup of the mast and requested Anaheim TMC to test the trailer and cameras.

The trailers were put into manual mode because there was concern about the reliability of the auto-gen-start circuit. The day after the event Brian and Tadeo visited the sites at different time to ensure the trailers generators were power down and put to manual mode.

The problem with using the ATMS icons to control the trailers during event 1 was solved. Again, the ATMS icons had to be moved on the map to reflect the changes in locations. TMC operators were notified of the trailer relocation,

Maintenance utilized two persons and a truck to swap the two trailers.

Hughes performed oil-change and checked water in batteries of all three trailer.

## Statement about FOT #3, Event 3 on Wednesday April 9, 1997 Tadeo Lau, District 12

Trailer 111 and 115 were scheduled to exchange locations on April 7. However it was Saturday April 5 when Brian realized the two parking lots were being 'e-paved. Without full knowledge of the availability of the parking lots on the morning of April 7, while the ramp closure team and all participants assembled at the on-ramp, the swapping operation was called off as Maintenance crew did not want to be held up for too long. I visited the property management and received a confirmation from them that the re-paving would be halted for two weeks and Anaheim could continue using the parking lots as agreed.

Icons for Trailer 111 and 115 were adjusted on the map.

The relocation of trailers 111 and 115 was scheduled again fix April 8. Trailer 111 was towed to Sunkist/Cerritos and was dropped off temporarily at the S-E comer, while the crew went to pick up 115 from the S-W comer and transported it to Rte-57/Ball. The radio link was checked and Anaheim was called to confirm that. Trailer 111 was then moved from the S-E corner to the S-W corner. Again, the antenna was oriented, radio was checked and confirmed. All three trailers were put to manual mode to conserve fuel until the afternoon of the event.

Maintenance had a truck and two persons assisted in this swap

All three trailers were refueled on April 9.

Anaheim should have more resources in training its personnel to setup and move trailers in the future.

On April 9 afternoon while I went through the trailers to put them in auto mode, I noticed the antenna and all camera positions were shifted. Checking the radio signal confirmed that, and it appeared that the high wind that day might ahve changed the diection of the mast. Rick Anderson re-visited the three trailers and adjusted all antenna positions before Anaheim could receive video during the event.

On April 10, ail three trailers were transported back to their original sites on the I-5. One Maintenance person was assigned this time because difficulties in scheduling. Database information were modified **to**reflect the move back on to the I-S. All Anaheim icons were deactivitated and the trailer icons are re-activated on the freeway.

Maintenance suggested that Caltrans should consider hiring contractors to transporters trailers if possible. This may help to avoid difficulty in scheduling and affect their other responsibilities.

#### **Written Statement**

for

Mobile Surveillance and Wireless Communication FOT Anaheim Special Event Test No. 2 (by Lawrence Emerson, Caltrans New Technology and Research)

My comments will follow the Order of the six objectives and the measures listed in the Evaluation Plan.

Objective 1 - Ease of Movement and Setup

#### **Pre-transport Preparations**

- <u>Site Selection</u> The intersections pick by Anaheim were to help with the "dark spots" around the pond. Nathan Behura can comment on coordination and getting permission from property owners. Caltrans provided a letter indicating that Anaheim would not have any major liability for possible damage to trailer as long as reasonable care was taken. It was probably easier for Anaheim to then get permission from property owners.
- <u>Site Survey</u> Consideration of exact location of the trailers to optimize viewing of traffic and avoid trees was not done until actual deployment. This was done mainly by Caltrans initially. I believe some input on better location was made by Anaheim TMC staff after using trailers and becoming more familiar with them. Earlier in 1996, Caltrans and Hughes staff took a bucket truck to Anaheim's proposed three locations to check line-of-sight and radio signal strength. On proposed location at Phoenix and Ball Road did not have enough space to locate the trailer easily. Caltrans staff decided to test signal strength to the east near 57 within Caltrans tight-of- way. This location was found satisfactory for signal strength and could still look back to Phoenix Road.
- <u>Site Readiness</u> The mainly involved having Anaheim staff cone of tape off the spots in the privately owned parking lots early in the morning or the night before to insure no cars were parked in the way. For the location at Ball Road in the Caltrans right-of-way, additional Caltrans vehicles were needed to provide temporary ramp closure while backing the trailer on to the spot from the freeway on ramp.
- <u>Trailer Readiness</u> Caltrans staff pretty much knew what was needed to prepare and tow the trailers. The times I observed, however, they were using a truck that was much larger than necessary because a smaller one was not readily available.
- <u>ATMS Icon and Database Set Up at Caltrans TMC</u> This was actually the first time that Caltrans staff (Tadeo Lau) need to set up the icons and database at the TMC for the trailers. The first time this was done by NET staff. So, there was a bit of a learning curve and the icons and database were not ready for the first event. Also, the ATMS had to be reset once the new locations were in place. This is something that were not aware of until it happened.

<u>Time to hitch, transport, set, make operational</u> Major difficulty was in positioning trailer in parking lots with the oversized truck. Use of a smaller truck in the future will allow greater ease of peositioning trailers in tight spots. Training of Anaheim staff for field set up was a challenge because Hughes had not yet prepared a check off list of actions to perform, however, Anaheim staff did seem to pick up what was needed to be done when given the opportunity.

## Objective 2 - Suitability for viewing event traffic

Comments on this should mainly come from Anaheim, however, from the video tape that Anaheim made during the events it was easy to discern between cars and trucks and the general number of vehicles. There was a little glare from some headlights which were pointed in the direction of the cameras, however, this did not really cause a problem to see the flow of traffic.

#### Obejective 3 - Impact of Additional Video Surveillance

Comments on this should mainly come from Anaheim, however, the video tape of the traffic on Ball Road and the 57 Northbound Off Ramp made it fairly clear that the Caltrans signals at the off tamp and the City signals at Phoenix and Ball Road generally work well together and did not cause any significant back up of the outbound traffic from the pond. Anaheim staff (Curt) should be interviewed to determine if he made any adjustments to the signal to minimize any problem or if he just set if to maximize outbound traffic from the pond while at the same time allowing west bound flow on Bal Road to flow without backing up too long.

Objective 4 - Institutional Issues, Benefits, and Cost associated with Resource Sharing (Pros/Cons)

## **Advantages**

- ý Provides Surveillance to otherwise "dark" locations in Anaheim Yes
- **Facilitates inter-agency cooperation** Yes, gave Caltrans TMS night shift chance to interact with local city and become more familiar with each other. Could view outbound activity from event going onto freeway. Allowed Caltrans TMS staff to become more aware of arterial roads which they do not normally view.
- ý Opens the door and makes it easier for future cooperative efforts.

#### **Disadvantages**

- <u>**Requires Complex Interagency coordination**</u> Yes, but with good staff and cooperation this was made easier. Could have been more difficult or impossible. Good Partnering for mutual benefits, hopefully.
- ý <u>Required State to Limit City Liability</u> This is done with a write a letter from Caltrans Project Manager to Anaheim Traffic Manager and due care on both sides.
- Ý Required City to acquire new expertise Caltrans had to write a ltetter to Anaheim Traffic Manager indicating appreciation of efforts after the first trailer setups and the importance of future assistance to ensure that Anaheim's field staff for the trailer moves would be available to learn.
- **Requires special security arrangements** Anaheim coordinated involvement of Anaheim police. Caltrans provided photos of trailers for memo sent to Anaheim Police. Caltrans TMC staff were given map of trailer locations and p hone number to Anaheim Police Dispatch if any alarms go off while in Anaheim.

#### Cost

- **State Delivery of Trailers** Get comments from Tadeo Lau and Ed Hepco on Manhours/Vehicles/Coordination required.
- ý <u>City participation in Trailer Setup</u> Get comments from Anaheim
- **Anaheim TMC equipment installation** Get comments from Hughes
- **City Personnel Training (TMC & Field Setup)** Some of the training was done by Hughes and included in the general cost of the FOT, however, I made three visits (total 6 hours) and several phone calls to coordinate and make sure Anaheim staff at TMC would be better prepared/trained. While setting up trailers in the field, training time was spent with Anaheim staff, Larry Hazuka. This extended time for setting up, but not significantly. Additional time is probably required for fuller confidence that Anaheim could set these up on their own.

Objective - Institutional Issues, Benefits, and Costs associated with Information Sharing (Pros/Cons)

## **Advantages of Event Traffic Video Sharing**

- Allows Caltrans to better manage freeway operation in vicinity of the Arrow Pond on 57 Not during these first events, however, if an accident had happened as traffic merged onto 57 from the on ramp, the back up would have been noticed at the ramp and one of the cameras could have been turned to view the situation on the freeway.

  Anaheim would probably have called Caltrans TMC to let them know and the probalem could have been cleared up faster.
- **<u>Y</u>** Facilitates Interagency Cooperation Yes, gave Caltrans TMC night shift chance to interact with local city and become more familiar with each other. Could view outbound activity from which they do not normally view.

## Disadvantage of Event Traffic Video Sharing

ý Share Common controls at different facilities - No Conflict occurred for these events.

## **Cost of Event Traffic Video Sharing**

ý <u>Utility Consumption at State and City</u> - Electricty cost were minimal. LPG used was around 120 gallons or more (need to check with Tadeo) at a cost of \$1.85/gal including tax.

# Appendix B:

**Trailer Setup and Maintenance Procedures** 

## Post Emplacement Checklist

## A. Surveillance Trailer

1. Set all DC and AC circuit breakers in the trailer distribution units (gray boxes located on opposite ends of front inside of trailer) to ON except for the following:

At DC circuit breaker box:

- Levelers OFF
- Light OFF

At AC circuit breaker box:

- Air Conditioner OFF
- Outside Outlets OFF
- Light OFF
- 2. Set all circuit breakers at DC and AC distribution panels on electronic cabinet 1 to ON.
- 3. Set Pullizi Intelligent Power Controller in electronic cabinet 1 to ON.
- 4. Set power strips at both electronic cabinets to ON.
- 5. Set Local/Remote switch at side of cabinet 2 in REMOTE position.
- 6. Set Auto Generator Start/Stop panel AUTO/MANUAL switch to AUTO.
- 7. Set Aries Processor (located behind Generator Start/Stop panel) to ON.
- 8. Unplug RS-232 connector (J3) of each camera control receiver/driver, except for surveillance camera (to prevent accidental movement of antenna and VIP cameras).
- 9. Set security system cell telephone module to ON (red push button located inside right security system box). Push-button light should be ON.
- 10. Open floor and roof fan vents (close and secure main roof hatch). Lock all trailer doors and set security system. If a Ramp Trailer is part of emplacement, set security system after completing Ramp Trailer check list below.

#### B. Ramp Trailer

1. Set all circuit breakers located in electronic cabinet to ON, with exception of the ALARM circuit breaker located on the Power Distribution Box.

Note: The ALARM circuit breaker no longer activates the trailer security system. The Ramp Trailer security is activated by having all other DC circuit breakers set to ON.

- 2. Set Auto Generator Start/Stop panel AUTO/MANUAL switch to AUTO.
- 3. Set Aries Processor (located behind Generator Start/Stop panel) to ON.
- 4. Set cabled Signal Head ON/OFF switch to ON and METER ON indicator switches to ON and AUTO TRAK.
- 5. If a remote signal head is used, then set its ON/OFF switch to ON and its radio to ON.

## Surveillance Trailer Power Up Quick Reference

- 1. Ensure all circuit breakers and switches on the 120 VAC and +12 VDC panels located at electronic cabinet 1 are set to the OFF (down) position.
- 2. Ensure the AUTO/MANUAL switch on the Generator Auto Start/Stop Panel located at electronic cabinet 2 is set to MANUAL and the ARIES processor (located behind the panel) ON/OFF switch is set to OFF (down).
- 3. At trailer +12 VDC distribution box (gray box at side opposite to entry door), set the following circuit breakers to the ON (towards label) position in the order listed:

MAIN 12V, VENT FAN, ELECTRONIC DIST, LIGHTING, AUTO MAST

At the same +12 VDC distribution box, ensure the following are set to the OFF position:

STAB CONT

4. At trailer 120 VAC distribution box (gray box just to right of entry door), set the following circuit breakers to the ON (towards label) position in the order listed:

MAIN, GENERATOR, BAT CHARGER, AIR COMPRESSOR, 2 GFI DUPLEX (inside outlets), ELECTRONICS DIST, LIGHTING

At the same 120 VAC distribution box, ensure the following are set to the OFF position:

COMMERCIAL, AIR CONDITIONER, GFI RECEPTICAL (outside outlets)

- 5. Turn ON all circuit breakers and switches at both the +12 VDC and 120 VAC distribution panels located at electronic cabinet 1. Wait for the Wide Area Communications Controller (WACC) to boot up (approximately one minute). The single edge-mounted status indicator on each WACC circuit card will flash with a duty of cycle of approximately one second or less.
- 6. Ensure each power strip ON/OFF switch is set to the ON (up) position.
- 7. Set the Generator Auto Start/Stop Panel Aries Processor (located behind charge panel) ON/OFF switch to the 12 VDC ON (up) position. When the processor completes its boot up (less than five seconds), it will activate the generator off relay (relay closest to the processor) for 15 seconds. Observe light in relay when activated.
- 8. When the generator off relay is deactivated, set the Generator Auto Start/Stop Panel AUTO/MANUAL switch to the AUTO position.

#### Local Camera And Main Antenna Control Procedure

This procedure starts with the assumption that the surveillance trailer power up sequence is complete, the Generator Automatic Start/Stop Panel AUTO/MAN switch is set to AUTO, and the computer keyboard is connected to its wide area communications controller node.

- 1. At electronic cabinet 2, ensure that the REMOT'E/LOCAL switch (located on the side of the cabinet and behind telephone jack) is set to the REMOTE position.
- 2. At the computer keyboard, set caps lock and type 8:A0 followed by return. This powers up the camera video and control systems and antenna movement control.
- At the +12 VDC Distribution Panel located at electronic cabinet 1, set the RELAY BOARD switch to the OFF (down) position (allows local switching of cameras).
- 4. At electronic cabinet 2, set the REMOTE/LOCAL switch to the LOCAL position.
- 5. At electronic cabinet 2, ensure that the RS-232 cables are plugged into their respective camera control receiver/drivers.
  - At this point, the three mast mounted cameras and antenna can be controlled from the camera control keyboard.
- 6. Toggle the MON keyswitch until a 1 is displayed.
- 7. Select the unit to be controlled by entering its ID as shown in the table below. Then press the CAM keyswitch.

Unit ID	Description
XX	Surveillance Camera
lxx	VIP camera 1
2xx	VIP camera 2
Зхх	Security Camera (This camera is fixed in position and, therefore, does not have a receiver/driver.)
4xx	Antenna

xx is the last two digits of the surveillance trailer license number.

- 8. To view a particular camera's video on the NTSC monitor, ensure the monitor is ON and select the video via switches 1 (surveillance), 2 (VIP 1), and 3 (VIP 2) on the video switcher located in electronic cabinet 2 (on the right). Switch 4 selects the security camera.
- 9. When finished, set REMOTE/LOCAL switch to REMOTE, RELAY BOARD switch at electronic cabinet 1 to ON, disconnect RS-232 cables from the antenna and VIP camera receiver/drivers (to prevent inadvertent remote movement), and type 8:K followed by return at the computer keyboard.

#### Surveillance Trailer Camera Selection Procedure

Each of the surveillance trailers has four cameras that can be selected via the single camera control keyboards located at the City of Anaheim TMC and the Caltrans District 12 TMC. The control keyboard at Caltrans is in the room that contains the Front End Processor (FEP). The cameras that can be controlled are: one color surveillance camera containing a zoom lens on a pan and tilt mechanism, two black and white cameras with fixed field of view (without a zoom lens) on pan and tilt heads, one black and white security camera with a fixed field of view directed towards the trailer access door (not on a pan and tilt mechanism). The single NTSC output of the video decoder installed at the Anaheim TMC is interfaced to Channel 22 of the video matrix switch. Only one video can be viewed at any one time at the Anaheim TMC.

To select a video image from a camera, perform the following at the camera control keyboard:

- 1. Ensure that a 1 is displayed on the LED display. If not displayed, depress and release the MON keyswitch until a 1 is displayed.
- 2. Select a camera at a particular trailer by entering the camera identification number (ID) followed by pressing the CAM keyswitch. The ID for each color surveillance camera is the last two digits of the license plate of the trailer on which the camera is located. Thus, the surveillance camera ID numbers are 09, 10, 11, 13, 14, and 15. IDs for the remaining cameras consist of the trailer ID preceded by a 1 (for VIP camera 1), 2 (for VIP camera 2), or 3 (for security camera). The number 4 allows control of the antenna. The table below lists the camera IDs for trailers 09 and 11 as examples.

Camera ID	Controlled Camera
09	Trailer 09 color surveillance camera
109	Trailer 09 VIP camera 1
209	Trailer 09 VIP camera 2
309	Trailer 09 security camera
11	Trailer 11 color surveillance camera
111	Trailer 11 VIP camera 1
211	Trailer 11 VIP camera 2
311	Trailer 11 security camera

As an example of actual keyswitch procedure, Trailer 11's black and white VIP camera 1 is selected by pressing the 1 keyswitch three times, and then pressing the CAM keyswitch. It may take several seconds for the video to appear on the monitor at the TMC due to the trailer powerup sequence and the time required for acquisition of the video data by the video decoder.

3. IMPORTANT: When finished viewing the desired surveillance trailer CCTV, turn off the trailer by entering surveillance camera ID (09, 10, 11, 13, 14, or 15). Then press OFF on the keyboard. When trailer operations are completed for the day, perform this OFF procedure for all six surveillance trailers to ensure that no trailers are accidentally left on due to a remote command. This will prevent waist of trailer generator fuel.

## Maintenance Check List

## 1. GENERATOR

Place the trailer in manual mode when performing the following procedures on the generator. The keys for the security system cabinet are located in the long shelf above work bench.

- Check generator oil level every 150 hours of generator run time. Place AUTO/MANUAL switch located at charge panel to MANUAL before working on generator.
- Check generator air filter bimonthly and after strong wind conditions.
- Change oil and oil filter per Onan Owner's Manual instructions.
- Change fuel filter per Onan Owner's Manual instructions.

## 2. COMPRESSOR

- Compressor is self lubricated. No lubrication maintenance required.
- Check and clean air filter pad.

#### 3. BATTERIES

- Check main battery fluid level at least twice a month.
- Check secondary battery fluid level at least twice a month.
- Check specific gravity of all batteries at least twice a month.
- Check and clean battery terminals and battery compartment as required.

#### 4. MAST

Clean and oil mast whenever retracted. Clean with alcohol applied with cloth. Lubricate with TMD Mast Lubricant, Will Burt P/N 600. A can was supplied for each mast.

## 5. MISCELLANEOUS

- Check LPG tank fuel level.
- Ensure tires have adequate pressure (especially just prior to trailer movement).
- Ensure axles are adequately lubed (especially prior to trailer movement).
- Clean inside of trailer after heavy winds.

## Appendix C:

**Trailer Transport Data Sheets for Anaheim Special Event Test** 

				of Anaheim	
ate:	3/26/97	Trailer Num	ber:	111	Original Location: I-5 Northbound at Culver Drive
Destination	· Rall Road s	and SR-57 NE	3 onramp		Towed By: Caltrans
Jestination	. Dan Moad t	THE OIL-OF THE	Jonnamp		Observed by: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
7:48am					Tow vehicle arrived. Waited for Tadeo Lau to arrive before hooking up to trailer.
			-		Mast on trailer was extended when removal operations began.
8:00am					Oriented cameras and antenna for safe mast retraction
					- above task complete at 8:07am
_					Manual mast retraction used as automatic mode not operational.
					Tadeo explaining to tow truck drivers how to park trailer at the destination.
	8:34am	1			
	,	8:59am			Phoenix Club Dr. and Ball Rd. Stopped to coordinate ramp closing with Ed Hepco
					so that trailer could be safely placed on the onramp pullout at SR-57 NB.
		9:06am			At ramp pullout location. Ramp closure to allow trailer to backup onto pullout area
					required 2 extra people.
		9:20am			Trailer at "preliminary" destination on pullout. Brian checking signal strength.
			9:24am		Trailer still hooked to tow vehicle. Mast raised. Checked camera FOV.
				9:45am	Stopped setup to go to the 2nd trailer (Trailer #113) so that Ed's tow crew could
	<del></del>	1			be released. Chock trailer tires, set outriggers. Right outrigger not working.
				9:48am	Tow vehicle detached. Tadeo and Brian will return either this afternoon
					or tomorrow to complete setup and test of video relay link.
		<del> </del>		9:56am	Trailer door closed.
Number of	minutes to	litch = "Beg	an" - "Hitc	ned":	
		1			
Number of	minutes to	ransport =	"Hitched" -	"Arrived":	
Number of	minutes to	Setup = "Arr	ived" - "Se	t":	
		<u> </u>			
Number of	minutes to i	Vake Operati	onal = "Se	t" - "Departe	d":
		1			
Institution	al Issue for fu	ıture trailer u	se: Anaheir	n may not ha	ve vehicles nor funds to move trailers when the FOT ends.
					nefits of the trailers for traffic management at special events.

of Individu	al Evaluation	Plan for Tes	t #2 - City	of Anaheim	
Date:	3/26/97	Trailer Num	nber:	113	Original Location: I-5 Southbound at First Street
Destination	n: Sunkist St	and Cerritos	s Ave.		Towed By: Caltrans
		(SE corner)			Observed by: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
10:13am					Antenna rotated horizontally so it protrudes the least amount above the top railing during transport.
	10:35am				
		11:05am			
_			11:20am		Trailer reoriented so that door faces Sunkist St.
		1			Setup ends with call to Anaheim TMC to see if they are receiving video.
					Could not turn on trailer from District 12 TMC because of an error in the programming
					of the new icons for the Anaheim FOT. Will be corrected this afternoon by Tadeo.
					Did turn on the trailer power and cameras from the Anahein TMC at 12:10pm, but
······					could not see video from Trailer #113 at the Anaheim TMC. Brian later fixed this problem
					at the Anaheim TMC.
				12:30pm	
Number of	f minutes to Hitch = "Began" - "Hitched":			ned":	
Number of	minutes to T	ransport = "	'Hitched" -	"Arrived":	
Number of	minutes to S	etup = "Arri	ved" - "Set	t";	
Number of	minutes to M	lake Operatio	nal = "Se	t" - "Denarte	d"•
Maniper of	Timates to iv	lake Operation	)	Doparto	
		<del> </del>			

## Data\_115

Data Sheet	t in Support	of Test Object	tive 1 (Exa	mine Portabi	lity)
		Plan for Tes			
			T		
Date:	3/27/97	Trailer Num	ber:	115	Original Location: I-5 NB in Main Place Caltrans Pullout near
					CA-22 West offramp
Destination	n: Cerritos A	ve. and State	College		Towed By: Caltrans
		IE corner)			Observed by: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
7:59am					Tadeo arrives.
8:01am					Tow vehicle arrives.
8:03am					Drop mast procedure begins.
8:24am					Raise hitch on trailer to better level trailer in tow.
8:30am					Safety chain clamps missing. Tadeo leaves to retrieve some clamps from a trailer
					moved yesterday.
8:50am					Tadeo returns with clamps.
	8:51am				
		9:12am			
			9:25am		Raise mast.
				9:52am	Anaheim TMC turned on the trailer remotely. Also verified that Anaheim TMC
					could turn on Trailers 111 and 113. Test complete.
			<u> </u>		
Number of	minutes to h	litch = "Beg	an" - "Hitc	hed":	
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Number of	minutes to 3	ransport = '	"Hitched" -	"Arrived":	
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Number of	minutes to 9	Betup = "Arr	ived" - "Se	t":	
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Number of	minutes to M	Make Operati	onal = "Se	t" - "Departe	od":
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ot Individu	al Evaluation	Plan for Tes	t #2 - Citv	of Anaheim	
Date:	4/2/97	Trailer Nun	nber:	115	Original Location: State College and Cerritos (NE corner)
Destination: Cerritos and Sunkist (SW corner)			Towed By: Caltrans		
					Observed By: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
8:10am				•	Open trailer door, stop generator, record generator on time in log, lower mast,
					rotate and stow cameras and antenna, secure hatch, raise outriggers.
	8:27am				
		8:31am			
			8:45am		
				9:03am	Verified control by Anaheim TMC
				9:07am	Departed
	1		<u> </u>		
Number of	minutes to F	litch = "Beg	an" - "Hitch	ned":	
	<u></u>				
Number of	minutes to T	ransport = "	'Hitched" -	"Arrived":	
	1				
Number of	minutes to S	etup = "Arri	ived" - "Set	. •	
	<u></u>	<u> </u>	<u> </u>		
Number of I	minutes to N	lake Operation	onal = "Set	" - "Departed	]":
	<u> </u>		ļ		

Data Sheet	in Support	of Test Obje	ctive 1 (Eve	mine Portshi	lity)
		Plan for Tes			
- mairida			- Oity	V. Androna	
Date:	4/2/97	Trailer Nur	nber:	113	Original Location: Cerritos Ave. and Sunkist St. (SE corner)
Destination	: State Colle	ege & Cerrito	s (NE corne	er)	Towed By: Caltrans
					Observed By: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
9:15am					Open trailer door, turn off generator, record generator on time (this generator was
					on manual), lower mast, rotate and stow cameras and antenna, secure hatch,
					raise outriggers.
9:25am					Began to back tow vehicle into position - tight space available in parking lot
					because of where other passenger cars were parked.
	9:34am				
		9:40am			Gardening crew temporarily parked in trailer site parking spaces.
			9:50am		Trailer in place.
				10:03am	Verified control by Anaheim TMC.
				10:10am	Depart
					NOTES FOR KEYBOARD CONTROLS:
					8:A0 (ENTER) to turn on power controller in the trailer
					8:K (ENTER) to turn off (kill) power controller
Number of	minutes to I	Hitch = "Beg	jan" - "Hitc	hed":	
				<u> </u>	
Number of	minutes to	Transport =	"Hitched" -	"Arrived":	
	<u> </u>	_		<u>                                     </u>	
Number of	minutes to	Setup = "Ar	rived" - "Se	t":	
Number of	minutes to I	Make Operati	ional = "Se	t" - "Departe	ed":

Data Shee	et in Support ual Evaluation	of Test Obje	ective 1 (Exa	mine Portab of Anaheim	ility)
Date: 4/8/		Trailer Num			Original Location: SR-57 and Ball Rd (NB on-ramp pullout area)
Dectination	n: Cerritos A	v. & Sunkis	t Rd. (SW co	orner)	Towed By: Caltrans (smaller tow vehicle used)
Destinatio	T. Gormoo'.				Observed By: L. Klein
	<del> </del>				
Began	Hitched	Arrived	Set	Departed	Comments
9:00 a.m.	<del> </del>				
9:12 a.m.	<del></del>				Prehitch preparations complete.
J. 12 d.iiii					Lower trailer hitch donut to better mate with tow vehicle.
	9:23 a.m.				Hitched.
	9:32 a.m.				Trailer lights checked. Electrical connector had to be pushed more securely
	0.02 0	<del>                                     </del>			into tow vehicle receptacle.
	<del> </del>	9:44 a.m.	-		Temporarily stow trailer in SE corner parking lot. Plan is to move Trailer 115 to
		0.44 4			SR-57 and Ball Rd. Then move Trailer 111 into SW corner parking lot (in place
	<del> </del>				vacated by 115) because the camera image is better from this location for
	<del> </del>				viewing Pond egress traffic (less blockage by trees).
	10:56 a.m.				Tow vehicle at SE corner parking lot to hitch up to Trailer 111 for the second time.
	10:58 a.m.				Hitched to Trailer 111 in SE corner parking lot.
	10.50 a.iii.	11:01 a.m.			At SW corner parking lot.
		11.01 a.m.	11:06 a.m.		Rotate antenna and cameras.
			11:16 a.m.		Trailer turned on by Anaheim TMC. Receiving a "good" image. Turned off by TMC.
			11.10 a.iii.	11:20 a.m.	
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Nulliper of	i minutes to		gan mio		
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Number of	f minutes to	Setup = "A	l rrived" - "Se	et":	
		<u> </u>			
Number of	f minutes to	Make Opera	tional = "Se	et" - "Depart	ed": 
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				<u> </u>	

Data Shee	t in Support o	f Test Obiect	tive 1 (Exam	ine Portabilit	·v)
	al Evaluation				
Date: 4/8/		Trailer Num		<u> </u>	Original Location: Cerritos Ave. & Sunkist St. (SW corner)
Destination	n: SR-57 and	Ball Rd. (NB	on-ramp pull	out area)	Towed By: Caltrans (used small tow vehicle - more maneuverable)
					Observed By: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
9:49 a.m.					Smell of propane fumes when trailer door was opened. Possible leak.
	10:05 a.m.				
		10:28 a.m.			
			10:34 am.		
			10:38 a.m.	<del>                                     </del>	Trailer turned on from Anaheim TMC and then turned off.
				10:45 a.m.	Return to Trailer 111 to set it in place in SW corner parking lot.
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	1	<u> </u>	n n	<u> </u>	
Number of	minutes to H	itch = "Bega	an" - "Hitche	ea":	
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of Individual	Evaluation	Plan for Tes	st #2 - City	of Anaheim	
					Disco Mall my CA 22 want ovit
Date:	5/6/97	Trailer Nur		115	Original Location: I-5 at Main Place Mall nr CA 22 west exit
Destination:	Cerritos Av	& Sunkist	St (SW cor	ner)	Towed By: Caltrans large tow truck
					Observed By: L. Klein
3egan	Hitched	Arrived	Set	Departed	Comments but trailer still did not start
7:35am					Battery dead. Tried to jump start, but trailer still did not start.
				<u> </u>	Problem turned out to be a defective starter in the generator.
					The defective generator was replaced by Hughes in the afternoon with one from
	-				a trailer still on the Hughes lot.
8:35am					Finished stowing mast and other tasks in preparation for move to Cerritos & Sunkist.
<u> </u>	8:45am	<del> </del>			
	J. 100111	9:02am			Arrived at Cerritos and Sunkist.
	<del> </del>	7,02.4111	9:15am		Outriggers deployed. Mast not deployed and signal transmission not checked
<u></u>			1		because trailer could not be turned on.
	-	<del> </del>			Comment by Larry Hazuka: The person driving the large tow truck appeared to
					be more skilled in backing the trailer into position than the previous crew.
		-			Therefore, the issue is one of tow-truck operator skill and not large vs. small
		<u> </u>			tow truck that affects the time it takes to position the surveillance trailer.
				9:16am	CON TOOK THE CONTRACT OF THE C
				9.10aiii	
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Number of I	ninutes to F	litch = "Be	gan" - "Hite	ched":	
Number of I	ninutes to T	ransport =	"Hitched"	- "Arrived":	
Number of	minutes to S	Setup = "A	rrived" - "S	et":	
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Number of	minutes to N	Aake Opera	tional = "S	et" - "Depart	red":
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		of Test Object			<u>')                                      </u>
ot Individua	I Evaluation	Plan for Test	#1 - Interst	116 5	
Date:	4/10/97	Trailer Num	L ber:	113	Original Location: Cerritos Ave & State College Blvd
•	Destination: I-5 and First Street Caltrans Yard			Towed By: Caltrans using small boom truck as tow vehicle	
			T		Observed By: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
9:42 a.m.					
	9:50 a.m.				Going to Caltrans Orange Yard to add air to trailer tires.
		10:27 a.m.			At First Street Yard alongside I-5 SB.
			10:32 a.m.		
			10:36 a.m.		Checking voltage at antenna for signal strength. Measured 7.9 to 8 volts, indicating a
					strong signal. Signal very sensitive to antenna position.
				10:49 a.m.	Depart.
l L					
Number of	minutes to h	litch = "Bega	an" - "Hitche	d":	
Number of	minutes to 1	ransport = "	Hitched" - "	Arrived":	
Number of	minutes to S	Setup = "Arri	ved" - "Set"	•	
Number of	minutes to M	Make Operation	nal = "Set"	- "Departed"	
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Data Chas	t in Cumpart	of Took Object	Aire 1 (Eve	mina Dartahi	114)
Data Sheet in Support of Test Objective 1 (Examine Portability) of Individual Evaluation Plan for Test #2 - City of Anaheim					inty)
ot inaiviau	al Evaluation	Plan for 198	t #2 - Gity	or Ananeim	
Date:	5/6/97	Trailer Number:		113	Original Location: I-5 Southbound at First Street
	estination: Ball Rd at SR-57 NB onramp				Towed By: Caltrans
			7		Observed By: L. Klein
<del></del>					
Began	Hitched	Arrived	Set	Departed	Comments
9:32am					Arrived at I-5 and First Street.
9:42am					Finished stowing mast and other predeparture tasks.
	9:48am				Hitched.
	9:50am				Leave I-5 and First Street site.
		10:10am			Arrived at Ball Rd at SR-57 NB onramp.
			10:42am		Trailer turned on by Anaheim TMC. Picture at TMC was "changing color."
			10:45am		Tadeo and Hughes will try to improve the signal transmission link.
				10:55am	Left for Anaheim TMC to instruct the TMC operator for tonight's data collection and
		ļ			to observe the video reception.
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Number of minutes to Setup = "Arrived" - "Set":				<u>":</u>	
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Number of minutes to Make Operational = "Set" - "Departed					3;
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Appendix D:

**Camera Operability Data Sheets for Anaheim Special Event Test** 

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e: 4/1/97		Trailer Number	SI: ///	l	<u> </u>	Trailer Locati	on: BALL	EAR -W	1	1		
nt: HOCK a taken by:	Ew	t				Weather/Vis	ibility: C.C	EAR -W	INDY			
					· · · · · ·		PART 1					
rability eck	·	lmage	Camera 1 Pan	Tik	Zoom	Image	Camera 2 Pan	Tik	lmage	Camera 3 Pan	Tik	Camera 4 Image
640 1	*************	<u>X</u>	X	X	X		X	X			X	X
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Brian & Scott went to trailer to check out the reason for the weak vides. Turn off trailer, at 6:35 pm per request from Brian when he reached trailer.

If comeros are useful for troffir mg mt at this event, then a different preprogrammes timing plan will be implemented for the affected signal.

## DATA\_2B.XLS

Camera Ir	nage and	Control Ope	erability Ch	eck Data S	heet	L			•	
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Sunkist @ Cerritos. SB approach of Camero #1:

The of Cerritos at Sunket. Camera # 2 :

WB approach of Cerritos at Sunkist. Cormera # 3:

Work able to switch let. #113 & 115 trailers as after as needed to manifor traffic flow during

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Camera 2: WB approach of Cerritos @ State College Blud. Camera 2: View EB approx traffix on Bother Cerritos Ave.

Tree blocks more effective use of non observing EB traffic on Cerrites Ave.

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Interview of Town by L. Klein on 5/7/97@3PM:
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Lawrence A. Klein, Ph.D.

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# Comments:

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### **Appendix E:**

**Trailer Transport Data Sheets for I-5 Test** 

				nine Portabilit	ty)
of Individua	al Evaluation	Plan for Test	t #1 - Inters	state 5	
Date:	4/10/97	Trailer Num	ber:	111	Original Location: Cerritos Ave & Ball Rd
		ulver Drive o	n-ramp		Towed By: Caltrans using small boom truck as tow vehicle
<u> </u>					Observed By: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
8:09 a.m.					
	8:24 a.m.				Going to Orange Caltrans Yard to inflate trailer tires.
		8:45 a.m.			At Caltrans Yard.
		8:55 a.m.			Leave Caltrans Yard.
		9:12 a.m.			At I-5 and Culver Drive site.
			9:17 a.m.		Begin to raise mast and turn on equipment.
					To save time, antenna not aligned with Union Bank relay site. Tadeo will return
					next week to complete setup. Setup time is an issue this day becaue of
					scheduled 2 p.m. meeting at D12. Need to assure that all trailers are deployed
					along I-5 before 2 p.m.
				9:27 a.m.	Depart.
Number of	minutes to h	litch = "Beg	an" - "Hitch	ed":	
Number of	minutes to T	ransport = 1	"Hitched" -	"Arrived":	
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of Individua	Evaluation F	Plan for Test	#1 - Intersta	ite 5	
Date: 4/10/97 Trailer Number: Destination: I-5 at Main Place		per:	115	Original Location: SR-57 NB on-ramp at Ball Road	
		<u> </u>			Towed By: Caltrans using small boom truck as tow vehicle
	(near SR-22	Westbound	exit)		Observed By: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
11:05 a.m.					
	11:14 a.m.				
		11:40 a.m.			Did not add air to this trailer's tires. Tow vehicle made wrong turn on fwy, adding
<del></del>					time to the move.
			11:45 a.m.		Color bar noise at Anaheim TMC when they turned on the trailer. Moved trailer
					location several times in the parking area in an attempt to improve the signal
					strength.
				12:40 a.m.	Depart.
					Suggestion by tow vehicle operator: Replace the hooks on the brake safety chain
					with a hook that has a spring latch to close the opening when it is attached to the
					tow vehicle.
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of Individua	al Evaluation	Plan for Tes	st #1 - Inter	mine Portability) state 5	
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Date:	6/3/97	Trailer Nur	nber:	110 (Surv. Trailer)	Original Location: Hughes Fullerton lot
	1: I-5 NB on-				Towed By: Caltrans large boom truck
Destillation	, 1-5 teb oii i				Observed By: L. Klein
D	Hitched	Arrived	Set	Departed	Comments
Began	Hitched	Allived	000		Lower hitch on trailer to better align with hitch on tow truck
9:27am	9:52am	<del> </del>			Brake lights on trailer not working. Isolated problem to wiring on trailer. Brake lights
	9:52am	-	ļ		work if flashers are on. Will travel with flashers on.
	10:05am	+	ļ		Wash trailer at Hughes
	10:05am				Leave Hughes lot
	10: 15am	10:55am	-		Arrive at I-5 location
		10:55am	11:13am		Mast raised
	<del></del>	_	11:57am		Good signal from relay site: measured about 8.0 volts
		-	12:12pm		Lower mast to adjust stops on color surv camera to allow viewing of NB & SB traffic
		4	12:12pm		Cameras and antenna operational again
	<del></del>		12:35pm		Trailer turned on from Anaheim TMC (icons not installed at D12 TMC). Good
			12.33pm		video at Anaheim TMC.
		-	1:10pm		Start verifying sequence of ramp meter signals in response to commands from 170
		<u>.  </u>	T. TOPIN		controller. Once this task is complete, plan is to set up AutoScope detection zones
					on the ramp and see if the ramp meter signal responds properly to vehicles crossing
					the detection zone.
	_				
		<del></del>		<del>                                     </del>	
Number of	minutes to I	_itch = "Hit	tched" - "Be	gan":	
TVAITIBOT OF		T			
Number of	minutes to	Fransport =	"Arrived" -	"Hitched":	
Number of	minutes to	Setup = "Se	et" - "Arrive	d":	
Number of	minutes to I	Make Operat	tional = "De	parted" - "Set":	
INGITIDE OF	Timotos to i	T.C. C OPOIC			
	1				

of Individu	al Evaluation	Plan for Tes	st #1 - Inte	rstate 5	
Date:	6/3/97	Trailer Nu	nber:	19280 (Ramp Trailer)	Original Location: Hughes Fullerton lot
Destinatio	estination: I-5 NB on-ramp at Jamboree Rd.				Towed By: Caltrans large sign truck
					Observed By: L. Klein
Segan	Hitched	Arrived	Set	Departed	Comments
:09am					Start backup of tow truck to trailer
	9:15am*				Wash trailer at Hughes before towing to I-5
	10:15am				Leave Hughes lot
		10:55am			Arrive at I-5 on-ramp, which was already closed in anticipation of trailer arrival
		11:17am			Ramp meter trailer located at side of ramp. Begin setup of signal head.
			11:34am		Level signal head base & place sand bags under & on signal head base
			11:46am		Boom in place to lift upper part of signal head onto base
			11:49am		Upper signal head bolted onto base section
			11:53am		Reposition base so that car at stop line can see lower set of signals
			12:12pm		Place plastic bag covers over the permanent signal heads to indicate they
					are not in use. Align upper signal head of temp. signal with the ramp lane geom.
					Tape over "Two cars per green" sign on upper signal head.
			12:35pm		Finished with above tasks.
			12:41pm		Bring "Meter On" sign and solar panel to their location at ramp entrance
· · · · · · · · · · · · · · · · · · ·			1:05pm		Meter On sign installed at entrance to on-ramp
			1:10pm		Start verifying sequence of ramp meter signals in response to 170 commands
umber of	minutes to H	litch = "Hit	ched" - "Be	egan":	
lumber of	minutes to T	ransport =	 "Arrived" -	Hitched":	
umber of	minutes to S	etup = "Se	t" - "Arrive	ed":	
umber of	minutes to M	lake Operat	ional = "D	 eparted" - "Set":	

of Individu	al Evaluation	Plan for Tes	st #1 - Inters	mine Portabilit tate 5	
Date:	6/14/97	5/14/97 Trailer Number: 109 (Surv. Trailer)		Surv. Trailer)	Original Location: Hughes Fullerton lot
Destination	: I-5 NB at G	rand Avenu	18		Towed By: Caltrans large boom truck (Driver + assistant)
					Observed By: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
5:48a.m.					Trailer equipment (mast, cameras) were stowed before boom truck arrived.
5:50a.m.					Raise hitch on trailer to mate with tow truck.
					Discussion of low air pressure in trailer tires.
6:09a.m.					Hitched (except for safety chain). Brake lights work with flashers on.
	6:25a.m.				Search for "D-clamps" for safety chain connection to tow truck - chain attached.
	6:29a.m.				Wash trailer.
	7:18a.m.				Tires pumped. Depart Hughes.
		7:50a.m.			
		8:11a.m.			Reset trailer so that door faces freeway.
			8:30a.m.		Mast up. Check camera FOV.
		<u> </u>	8:47a.m.		Pull trailer forward (farther from ramp) to get better view of ramp traffic and to layout
					ramp passage, demand, and queue detection zones.
			8:55a.m.		Trailer set again. Adjust electronic limit stops on color and B/W cameras.
			9:55a.m.		Stops adjusted. Mast raised. Align antenna for maximum signal strength.
			10:30a.m.		Update AutoScope operating software with new version supplied by Econolite.
			10:35a.m.		Start to connect ramp meter power supply to signal head on left side of ramp.
			11:00a.m.		Set up AutoScope ramp detection zones.
			11:10a.m.		Check ramp signals as controlled by 170.
		<del>                                     </del>	11:15a.m.		Signals work.
		-	11:20a.m.		Meter-on sign not working.
			11:23a.m.		Brain and Tadeo continue setup until 12:30p.m. Further details on ramp meter trailer log.
		<del> </del>	11120011111	1:00p.m.	Depart
	_	<u> </u>	-	Поории	
Number of	minutes to h	litch - "Hit	ched" - "Bed	ian":	
Number of	Timutes to i	11011 - 1111	Crica Bos	Juli I	
Number of	minutes to T	rangnort =	"Arrived" -	"Hitched":	
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	al Evaluation			mine Portability)	
or maiviau	al Evaluation	Plan for Les	st # 1 - Inters	state 5	
Date:	6/14/97	Trailer Nur	nber: 17368	3 (Ramp Trailer)	Original Location: Hughes Fullerton lot
	n: I-5 NB at G				Towed By: Caltrans large sign truck (Driver only)
			1		Observed By: L. Klein
·············					
Began	Hitched	Arrived	Set	Departed	Comments
6:00a.m.					
6:03a.m.					Raise hitch.
	6:15a.m.				Difficult to attach safety chain to tow truck because of small chain clearance on truck
					Move signal light section with solar panel toward rear of ramp trailer so that the
					tow truck does not hit the panel when making turns.
	7:18a.m.				Trailer washed, tires pumped, depart Hughes.
		7:50a.m.			First stop at bottom of ramp to remove meter-on sign. Ramp already closed when
					we arrived. Additional 2 pickup trucks and 2 small boom trucks with 5 other Caltrans
					personnel were at the ramp to effect the closure and assist with assembling the
					ramp meter signal heads and meter-on sign.
		8:12a.m.			Start to unload meter-on sign and solar panel at bottom of ramp.
			8:35a.m.		Meter-on sign and solar panel set. Rotated solar panel to align with sun.
			8:45a.m.		Begin setup of ramp signals at top of ramp.
			9:20a.m.		Right-side ramp signal set and solar panel aligned with sun.
			9:42a.m.		Left-side ramp signal set. Had to tilt upper signal head downward by adjusting
					allen set screws at bottom of signal head.
					On Monday, June 16, Brian and Tadeo returned to the site to change the antenna on
					the ramp trailer that communicates with the meter-on sign. It was changed from
					the stubby green antenna to a 10-inch whip with more gain. Brian also "tapped"
					the meter on time delay relay in the meter control box and reconnected the coax
					cables. These actions resulted in the meter-on sign working.
Number of	minutes to I	litch = "Hit	ched" - "Be	gan":	
Number of	minutes to	Fransport =	"Arrived" -	"Hitched":	
Number of	minutes to S	Setup = "Se	t" - "Arrive	d":	
Number of	minutes to N	√ake Operat	ional = "De	eparted" - "Set":	

of Individu	al Evaluation	Plan for Tes	t #1 - Inters	tate 5	
<b>3</b> -4	6/18/97	Troiler Nur	 nber: 114 (S	Surv Trailer)	Original Location: Hughes Fullerton lot
Date:	n: I-5 NB at T				Towed By: Caltrans large boom truck
Jesunatioi	1. 1-5 ND at 1	ustiit Italion	Itoud		Observed By: L. Klein
Began	Hitched	Arrived	Set	Departed	Comments
7:20 a.m.					Tow trucks arrived.
120 411111	7:35a.m.				
	8:05a.m.				Washed trailers and then departed for freeway.
		9:00a.m.			Resurvey site to find best location for surveillance trailer to minimize damage to
					plants, mulch, and sprinkler heads. Plants and sprinklers were added at site
					since the last survery. Mulch made ground too soft to drive into area previously
		+			selected. Investigated area to right of the onramp as new location for surv. trailer.
					Used small bucket truck to check line of sight to relay in Santa Ana.
			11:10a.m.		Picture and transmission from surv. trailer confirmed by Anaheim TMC. Camera
			11110011111		limit stops reset so that private property alongside onramp cannot be viewed.
		<del> </del>	11:45a.m.		Reconfirm trailer control and video transmission by Anaheim TMC. Lunch break.
	_	+	12:45p.m.		Resumed check out of ramp signal control by 170.
	_		2:05p.m.		Signal control still intermittent. Possibly from problem with synchronization SSR
			2.000		on ramp trailer with SSR in surv. trailer.
			2:10p.m.		Open ramp. Setup AutoScope detection zones on the ramp. Because placement
		+	2.100		of surv, trailer at right of onramp locates it further fom the mainline (than if it were on
	_	<del> </del>			the freeway shoulder), AutoScope detection zones could not be setup on the mainline.
		<u> </u>	2:30p.m.		AutoScope ramp detection zones operational. Ramp signal working.
			2.00p.iiii	2:40p.m.	
	_		<del>                                     </del>		
		<del> </del>			
		114-16 - 11111	obod" "Po	dan":	
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Number of	f minutes to	ransport =	Arriveu -	FIILUIEU .	
			411 II Auris co	<u> </u>	
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			in a large	ported" "Set"	
Number of	f minutes to l	Make Operat	ionai = De	parted" - "Set"	

of Individu	al Evaluation	Plan for Tes	st #1 - Inters	tate 5	
		T			
Date:	6/18/97	Trailer Number: 17369		(Ramp Trailer)	Original Location: Hughes Fullerton lot
	n: I-5 NB at 1	: I-5 NB at Tustin Ranch Road			Towed By: Caltrans large sign truck
					Observed By: L. Klein
		ļ			
Began	Hitched	Arrived	Set	Departed	Comments
7:20a.m.					Tow trucks arrived.
	7:35a.m.				
	8:05a.m.				Washed trailers and then departed for freeway.
		9:00a.m.			Ramp closed when the trailers arrived. 3 extra trucks were there to close the ramp
					and assist with unloading the signal head from the ramp trailer and assembling it.
					Only one pair of ramp meter signals was needed at this location. Since there was
					no meter-on sign permanently installed, the meter-on sign from the ramp trailer
					was not deployed.
			10:45a.m.		Ramp signal setup on right side of ramp.
· · · · · · · · · · · · · · · · · · ·			11:00a.m.		Ramp trailer in place and connected to signal at side of ramp.
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Number of	minutes to l	Hitch = "Hit	ched" - "Beg	gan":	
Number of	minutes to	Transport =	"Arrived" -	"Hitched":	
Number of	minutes to	Setup = "Se	t" - "Arrived	l":	
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Number of	minutes to	Make Operat	ional = "De	parted" - "Set":	
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# **Appendix F:**

# Camera Operability Data Sheets for I-5 Test

Data sheets are ordered by: (1) north to south sequence of evaluation sites as Main Place, Grand Avenue, First Street, Tustin Ranch Road, Jamboree Road, Culver Drive and by (2) date data were acquired.

Date: 1/21/98
Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

Time	Onemtode	Mainline VIII	O= D=== \//D	Terraillance Comme	C.m.alli-	0	- AA1	Begin Her
Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image
6:00	Km	×2.	X(3)	×3		_		×ı
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

20

Camera Image and Control Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: / /21/98

Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

**Problem Comment/Description of Problem** Number XI'= no image, reddien smar weak X2 = no image: flashing b/white pattern overlay image residue XY = display rontains frozen surveillance camera image deas incom need a place ax 3 1 X) = Mens doesn't includes vamp styp bar (is this how it small look 8 seems to watch surrillance man

Date: 1/21/98

Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

Time.	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Pan	nce Camer Tilt	Zoom	Security Camera Image
6:00	km	V1;2	V1; 2		94×3	×3	×3	<b>✓</b>
7:13	lcm		/	V5				14
8:11	CN	/	/		<u>/</u>		1	V4
9.43	CN			/	/	سرا		14
1:20	KM							
2:05	KM						<u> </u>	
3.16	( N			ΧG				✓
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**Problem** 

Camera Image and Control Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/98 Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

umber	Comment/Description of Problem
1	VI too dark to see road / on ramp
	image frozen
3	X3 not working from ATMS; back room cabinet lacked
4	14 Kinda bright due to slare
5	V5 noing our glaves out upper left corner
	X6 CANNOT PAN TILT UR ZOOM
	, ,
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10	
12	
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Date: //21/58 Trailer Number: 113

Trailer Location: SB I-5 @ First St.

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image
6:18	k:W	×ι	×ı	×1				×ı
7:18	KM	×ι	×ι	×ı				×ı
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9.47	CN	χZ	ΧZ	Χı	/			ri
1:25	KM	×Z	XZ	XZ				×ı
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: 1/2//98
Trailer Number: 113

Trailer Location: SB I-5 @ First St.

Problem	
Number	

#### Comment/Description of Problem

1_	XI = color nosaic intermittent with grey block
2_	XZ = llas image, but color pattern interupt.
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Date: 1/21/58

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Road

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Pan	Tilt	ra Control Zoom	Security Camera Image
6:29	·km	√2		12	01/X3	%3	※≥	Xı
7.28	KM							ХЧ
8:41	0	<b>/</b>		V			اسما	XY
9:15	Km	<b>√£</b>		/				χų
1:28	KW							XS
2:15	KW							Xs
3:37	C N	/	<u> </u>	X6			_	<i>X5</i>
			•					
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<sup>/ =</sup> positive response (camera image available or control available)

Date: 1/21/58
Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Road

#### Problem **Comment/Description of Problem** Number

XI = color mosaic intermittent I gray block then gone
12 = too dark to see road; headlight blurs observable
x3 = PTZ not working from ATMS; back room rabinet locked
X4 = security comern approx to be pointing @ ground, welt is image
MATEMANDER X5 = yudo! grey blur
X6 = ( ANNOT PAN, TILT, OR ECOM)
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Date: 1/21/58

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera !mage	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image
6:45	KM	V / ·	//		/	<u>ب</u>	/	<b>√</b> \
7:30	KM			12				/
8:50	CN		<b>\</b>	/	V		/	VI
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<sup>/ =</sup> positive response (camera image available or control available)

Date: 1/21/98Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

#### **Problem**

Number

## **Comment/Description of Problem**

1_	II, very bright glare makes images tough to view
2_	
3_	X3 = CANNOT DAN, TILT OR 700M
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Date: 1/21/5%
Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Dan	Tile	700m	Security Camera Image
6.24	KM		//		OLX Z	DEX 2	W/2	: //
7:36	KM							V3 ·
9:07	( N			/	/	/	1/	13
9:32	KM	<b>✓</b>				سن		V3
1.31	1cm							
2:35	CN						/	
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: 1/21/98
Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

blem	, the state of the
mber	Comment/Description of Problem
1	I image bright (add for this time of day?) Reflection on door.
	X2 PTZ not working from ATMS; back room door locked
3_	13 glare persists; but image improved
4_	X4 = CANNOT PAN TILT DE ZOOM
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9	
14	· ·
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Date: 1/22/98

Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image
14:32	MO	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ΧI	V	V	V		X
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date:

Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

em ber	Comment/Description of Problem  OFF THE ON- RAMP LOCATION										
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Trailer 109 Camera Operability

Camera Image and Control Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

DATES

1/22/98 F-17
Use I set of detasheets
There is the set of detasheets

Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

Time.	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	Security Camera Image	
14:38	MC	- Integer	✓ ✓	Valueta illiage	- L		Zoom	
17:5 <del>4</del>	110	V			<u> </u>			
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<sup>/ =</sup> positive response (camera image available or control available)

Date:
Trailer Number: 109
Trailer Location: NB I-5 @ Grand Ave.

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Date: 1/21/98

Trailer Number: 113

Trailer Location: SB 1-5 @ First St.

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image
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Date:
Trailer Number: 113
Trailer Location: SB I-5 @ First St.

#### Problem Number

## **Comment/Description of Problem**

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Dany Checks - Use 1 set of Dosta She.

Trailer 114 Camera Operability - For all 5 days of daily checks.

Dany 1/22/98 houndy

Camera Image and Control Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Dayod Time.

Trailer Number: 114

F-21

Trailer Location: NB I-5 @ Tustin Ranch Road

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Came Tilt	ra Control Zoom	Security Camera Image
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<sup>/ =</sup> positive response (camera image available or control available)

Date: Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Road

Problem	i
Number	•

## **Comment/Description of Problem**

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Date: 1/22/98

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Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Campi Tilt	a Control Zoom	Security Camera Image
14:43	He	- :	$\checkmark$		V	V	V	
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Date: Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

Comment/Description of Problem
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Date: 1/22/98

-25

Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	ra Control Zoom	Security Camera Image
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date:
Trailer Number: 111
Trailer Location: NB I-5 @ Culver Road

Problem	·
Number	Comment/Description of Problem
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Date: 1/27/98

**Trailer Number: 115** 

Trailer Location: NB I-5 @ Main Place

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image
7.37	HC	X2	X2,	X2		-	_	×I
10:56	CN	<b>/</b>	V		V	/	XΥ	X3
12:07	CN	i/				/	/	Video carle
15:46	PB	j			<b>V</b>		/	video caple cut by vandals
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

#### Problem Number

## **Comment/Description of Problem**

1		<u>:</u>	Not focus	e the	securit	y door	·	·		
2	X 2		Che same	image	<u>as</u>	security	SCREEN	- 10	motion	
3	XZ		NO IMACE	1457	BINEV	SCHEN	,			
4	χч	:	WITH ONE	PRESS	RESUL	TED 11	U CONTI	Nuous	(NON-STOPPING)	700M
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Date: for "Duly" data,

Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

1/27/98 F-29

Date	Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla: Pan	nce Camera Tilt	a Control Zoom	Security Camera Image
	7:43	HC.	XI.	XI	ΧI	_	)	_	ΧL
	11:08	CN	XZ	2%	XZ	_	-		XZ
	12:00	LK	хз	хэ	Х3	хъ	XЪ	ХЭ	X 3
1/27/18	13:00	PB	X4	X4	X4	X4	X4	X4	X <del>'</del> 7
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Date: Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

### Problem

#### Comment/Description of Problem

Number	Comment/Description of Problem	
1	XI: The same image appear on Trailer 115 - No motion	
2	XZ: CONTAINS FROZEN SURVEILLANCE CAMERA IMAGE OF TRAILER 109	
3	X3: I mage frozen chaving last image from Culver Sec. Cam. Caption on picture changes to reflect the concert selected camera, but the image doesnot of X7° Contains Frozen surveillance corners image of thailer 109, selects camera but	
4	changes to reflect the correct selected camera, but the image doesnot of	hanso
5	Xto Contains Frozen surveillance comera image of trailer 109, selects camera but	0
6	image doesn't change	
7		
8		
9		
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11		
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18_	1	
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Date: 1/27/98

Trailer Number: 113

Trailer Location: SB I-5 @ First St.

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image
7:47	HC	ΧI	×(	ΧI	~			XI
11:19	CN	X3	<i>次</i> 3	X3		_		XZ
12:00	LK	X4	ХЧ	×4	X4	χų	Х4	X4
15:70	PP	X 5	X5	Xゲ	XI	XS	XS	XG
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date:
Trailer Number: 113
Trailer Location: SB I-5 @ First St.

Problem Number

## **Comment/Description of Problem**

1	XI: The same image w/Trailer 115 - NO motion
2	XZ: IMAGE MIXED WITH STRANGE PATTERNS OF COLORS SHIFTING
	X3: NO IMAGE AT ALL; JUST HAVING SHIFTING PATTERNS OF COLORS
_	What he was with
5	XS. Can see only random color pixels.
6	XS. Can see only random color pixels. X6: The same image with trailer 1/5
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Dany Checks - Use 1 set of Desta She.

Trailer 114 Camera Operability for all 5 days of daily checks.

F-33

Camera Image and Control Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

DNOSTime.

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Road

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Came Tilt	ra Control Zoom	Security Camera Image
7:51	HO	$\propto 1$	X L	X 1.		_		XI.
11:43	CN	V.			V	V	~	72
15:36	PB.	1 XPO B	1 Ket	/	1	,/	J	
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Road

Problem Number	Comment/Description of Problem		
1	XI - Take same image whother trailers	- NO	motion
	XZ - OUT OF FOCUS		,
3	NOVA BUILDE LANGE LANGE		
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	ı		
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Date: 1

1/27/98

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

F-35

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camei Tilt	ra Control Zoom	Security Camera Image
7:53	HO	X( :	Χſ	ΧĹ		_	-	ΧI
11:47	CN	V	/	χz	*2	X2	X	
15:20	PB		<b>✓</b>	X3		XI	<b>y</b> /	<b>✓</b>
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Date:

Trailer Number: 110

Trailer Location: NB 1-5 @ Jamboree Road

1 XI - The image are the same as other trailer - No m 2 XZ - CAMERA POINTING AT GROUND AND COULDN'T BE MOVE 3 XS — Comera pointing atground can the moved up.  4  5  6  7  8  9  10  11	D .
2 X7 - CAMERA POINTING AT GROWND AND COULDN'T BE MOVE  3 X3 — Camera pointing at ground, can 't be moved up.  4  5  6  7  8  9  10  11	D .
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Date: 1/27/98.

**Trailer Number: 111** 

Trailer Location: NB I-5 @ Culver Road

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveillai Pan	nce Camei Tilt	a Control Zoom	Security Camera Image
7:55	HO		V	V,	V	V		÷ /
11:51	CN	/	/			/		· ·
15:27	PB			/			/	<b>✓</b>
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

Problem	•
Number	Comment/Description of Problem
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1/29/98

Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Pan Tilt Zoom		a Control Zoom	Security Camera Image
7:52	НO	<b>/</b>	Ash V	/	<b>V</b>	✓	/	X
11:25	HO	V,		XL				X
3:04	HC/				V	V	···	X
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

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Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveillai Pan	nce Camera Tilt	a Control Zoom	Security Camera Imag		
7:55	HC		V	<b>√</b>	V	V	/	<b>V</b>		
1:28	HC		<b></b>	V		~				
3:06	HC	V	V	V	1	$\nu$	<u>/</u>	V		
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<sup>/ =</sup> positive response (camera image available or control available)

F-42

Camera Image and Control Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:
Trailer Number: 109
Trailer Location: NB I-5 @ Grand Ave.

Problem	ì
Number	Comment/Description of Problem
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20	•

Date: 1/29/98 F-43

Trailer Number: 113

Trailer Location: SB 1-5 @ First St.

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image
7:58	HC	XI	Χſ	Χſ				×/
11:30	Ho	$\dot{x}$	$\chi_{1}$	XI		-		XI
3:09	HC	XI	×/'	X				X /
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date:
Trailer Number: 113
Trailer Location: SB I-5 @ First St.

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Trailer Location: NB I-5 @ Tustin Ranch Road

Camera Image and Control Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Datest	Operator's	Mainline VIP Camera	On-Ramp VIP	Surveillance	Surveilla	nce Camer	a Control	Security Camera Image
	Initials	Image	Camera Image	Camera Image	Pan	Tilt	Zoom	
8:03	H.C	V			1	<b>√</b>	V	X1.
11:34	HC	<b>V</b>	<u> </u>	V	I V	V	ン	X/
3:12	HC	V		X2	<u>.</u>	<u> </u>	Ù	_X/
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<sup>/ =</sup> positive response (camera image available or control available) x = negative response (camera image not available or control not available)

Date: Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Road

Problem Number				Comment/Description of Problem	
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Date: 1/29/98

F-47

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla: Pan	Surveillance Camera Control Pan Tilt Zoom		Security Camera Image
8:05	HC			/	X1	Χſ	V	<b>√</b>
11:37	He	$\checkmark$		<b>/</b>	X	XI	V	<u> </u>
3:12	HC	<b>✓</b>	<u> </u>	V	Xi	Χį	V	V
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<sup>/ =</sup> positive response (camera image available or control available)

Date: Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

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Date: 1/29/98

Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveillar Pan	ce Camer Tilt	a Control Zoom	Security Camera Image
80.8	HO		<b>\</b>	✓	ΧI	X	L	· V·
11:39	HC		V	<u> </u>	Xί	XI	\	
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<sup>/ =</sup> positive response (camera image available or control available)

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x = negative response (camera image not available or control not available)

Date: Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

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ber							nment/Descript			,		
1	<u>x</u> 1		Pan	will	not	turn	around	but	have	pan/fil	t contr	rol
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Date:

F-51

Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

Date	Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera İmage	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image	
1/28	7:40	PB		$\checkmark$	/	1			vandalscut	
1/28	11:41	PB						V	video cable	
_										
3/3	4:30	BJ	V	<u> </u>	V	V	V	V	video cable cut	#
	3:00 pm	HC	$\checkmark$			<u></u>	<u> </u>	1	Video cable cut	(No Imag
				A STREET, STORY OF STREET, STR	The delayer the real of the second control o				a desired for desired to see a desired	~~ <u></u>
									(Black - No imge) Video cable cut	
3/4	8:30	HC	<u> </u>		/	·		レ	video cable cut	
	127	720				7	/	<del></del>	Di i //	
3/5	3:36	PB	V	V			<b>√</b>	V	Black sreen-calle ca	
	2672	56	.,,	/	V	V	<i></i>			
3/9	0830	\$5	<i>i</i> / .					V		
	3:00	HC.			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		<u> </u>			
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•	3:30	HC		/	1/	1	1	V.	<del></del>	}
3/11	09:11	PR		<b>V</b>		1	1	1	No Image Black No Image - Black No Image - Black	
3/11	<del></del>	8bi		./	1,	V	10	1/	No-Image-Black	]
	<b>6830</b>	RG	//	'.'/	V	V	V	V.	W-Image-Bleck	
3/13	8130	FN				V	<u>''</u>	سسنا	0	
3113	3 17	HC		V		- :	(	-	No Image - Black	

<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

Time	Operator's Initials	Mainline ViP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image
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/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

F-53

lem Iber	Comment/Description of Problem
1	ATMS NOT GIVING CONTROL COMMANDS / USED FOT KEY PAD IN EQUID. ROOM
2	No IMAGE, ONLY STILL SHOT
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Use I set of data sheets for "Daily" data. Trailer Number: 109

Date:

Trailer Location: NB I-5 @ Grand Ave.

Date	Time.	Operator's Initials	Mainline VIP Camera Image	On-Ramp ViP Camera image	Surveillance Camera Image	Surveilla Pan	nce Camera Tilt	a Control Zoom	Security Camera Image	
1/28	7:44	PB	/	<b></b>	<b>/</b>	V	V,			
1/28	11:44	PB	/			1	<u>/</u>	V	1	
3/3	8:30	BJ	V	<b>V</b>	V	/	Ý	<b>V</b>	#2 /	#(
	3.04	nc				V	<u> </u>	1		
3/4	8:33	HC	\( \lambda_i \)	V	V,	V		<u>_</u>	V #2	
3/4	15:47	PB		/	Ĵ	/				
3/01	0840	55		V	V	×	K	1	CAMERA WENT DAN PAST 95 MAIN L	IUE
γ( ·	3:03	HC		<u> </u>	V		<b>✓</b>		/	
3/10	08:30	2G		/	✓	1	<u></u>	<u></u>		
	3. 33	HC	NouN	noyen	oown	2			DONN	
	09:24	PB7				1		2		
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3113	3.19	FN HC			L	X		<i>(</i> /	Not pass 900 ight	•
	311	,,,,				-				

/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box. Describe or comment on reverse side.

Date:

400

Trailer Number: 109
Trailer Location: NB I-5 @ Grand Ave.

F-55

PATEO		ASCOPE 2	ASCOPE!					
Time.	Operator's Initials	ASCOPE 2  Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla: Pan	lance Camera Contro Tilt Zoom		Security Camera Image
3/17 0900	BJ	V	V		V	1	7	とも
3 18 0913	PB			/	V	V	$\sqrt{}$	
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<sup>/ =</sup> positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

x = negative response (camera image not available or control not available)

Use I set of Lata sheets for "Monthly" Lata

Date: Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

Time.	Operator's Initials	Mainline VIP Camera	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	ince Came Tilt	ra Control Zoom	Security Camera Imag
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Date: Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

robiem lumber	Comment/Description of Problem
1	ATMS Not GIVING CONTROL /USED FOT KEYBOARD IN EQUIP. ROOM
2	ATMS Not GIVING CONTROL /USED FOT KEY BOARD IN EQUIP. ROOM I MAGE IS CORRECT HOWEVER IT IS BRIGHT WHITE IMAGE SHOWN IS THE CORPET ONE, TOO MUCH LIGHT VERY BRIGHT
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F-58

Trailer 113 Camera Operability

Camera Image and Control Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Week radio link.
May not be able to receive notes

The street St.

	Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camer Tilt	a Control Zoom	Security Camera Image	
1/28	7:48	PB	XI	XI	XI	_				
1/28		PB	×2	XZ	XZ				XZ	<u> </u>
	,, ,									,
3/3/18	8:30	BJ	V	V			<i>i</i>	V	<b>✓</b> #4	#3
	3:07	rtc/	V	V		<u> </u>	/			
3/4	8 36	HO	//	/		<u>ر.</u>	<u> </u>	1		
3/1	15:57	PB	<i>J</i> ,			-	/	/		
319	8:47	-FN	V							
:	310	HC_							<u>.</u>	
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3/10	08:37	<u>22.€</u>		. 1			(/		<i></i>	
<b>71</b>	3:35 9:28	PB.	X-Down	X Down	# Down	Dann	Down	Down	XI-Down	,
3/11	3:10	RG	X	X	X	Descont		Down	Not responding (	Blank
3/11	<u>5-10</u>	KOI								[
3/12	0839	· KQ	X	X	d	Down	Down	~wed	Down	
3/12	1600	BJ	<u> </u>		V	\ <u>\</u>				
3/13	8:4	FN	$\propto$	×	X	X	_X_	X	No movement	review
<b>.</b>	3:22	ĦС	×	×		文)	<u>×</u> `	+		onall.

/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date:

=-59

Trailer Number: 113

Trailer Location: SB I-5 @ First St.

Time	Operator's Initials	Ascept 2  Mainline VIP Camera  Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camera Tilt	a Control Zoom	Security Camera Image
3/17 0900	BJ	V	V.	V	V	<b>V</b>	V,	#4
3/18 09/6	PB							
31.9 916	SIXM	113 6.51	10 11100 -	4	•			!
3/19 1700	BJ	TRAILER	TURNED OFF					
3/11/98	Ramy	Laurence Emerso	n called TIMC to	say problem is l	veing a	ldressed	·Expe	+ trailer
/"	/	to be up tom	mom.					
			NOTE FOR	xl on previou	w page			
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						<u>i</u>	<u> </u>	
					-			

<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)



Date: Trailer Number: 113

Trailer Location: SB I-5 @ First St.

oblem	·
umber	Comment/Description of Problem
1	XI: Same as Security image for owner a 113
2	x2: Colored pixels flash on and off
3	ATMS NOT GIVING CONTROL/USED FOT KEYBOARD WEGGIP. ROOM
	MAGE EXTREMALY BRIGHT
6	
9	
10	
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## Dany Checks - Use 1 set of Doda She. Trailer 114 Camera Operability for all 5 days of daily checks. F-61

Camera Image and Control Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway DNOSTIMO.

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Road

~ . 1	Time	Operator's	Mainline VIP Camera	On-Ramp VIP	Surveillance	Surveillar	nce Camer	a Control	Security Camera Image	
Date		Initials	image	Camera Image	Camera Image	Pan	Tilt	Zoom		
1/28	7:52	PB		$\checkmark$	# V	XI	又し	XI		
1/28	11:50	PB	/	/	/	XZ	XZ	XZ		
3/3	8:30	BJ	·/			-	V	V	V #4	#3
	3:10	Hc.	/	<u> </u>	V #5		<i>\</i>	<u></u>	# 4	
3/4	8:38	HC	/		V # 5	V .	1 /	<u> </u>	# 4.	
3/5	12:28	PB			1#5		7	4	## #	
3/19 3-15	9:04	FN								
345	3:15	NO.								
3/10	0845	<u> </u>	<b>J</b>	<b>√</b>	J	$\vee$	/		<u> </u>	
3/	3:38	HC	<del>'</del>	· V <sub>/</sub> · · ·		1	7	7	V. (very Bright) Very bright	
3/11 3/11	3120	RG				V	/	<i>i</i> /	L'east	
						V	V.	i arm	1/1.0911 - 10	
3/12 3/12	08:40 1600	RG.	#6	<del></del>	V V	1		1	V (very bright)	
3113	8156	FN	/	V	×	×		V	Picture Donk	
	3.24		/		l w	نسا	l.or-	6"	Tec By 11.	
	1						<u> </u>	<u> </u>		

/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box. Describe or comment on reverse side.

Trailer 114 Camera Operability

For the 3 weeks of weekly checks.

Camera Image and Control Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Road

Datest		ASCOPED	ASCOPE!					
Time	Operator's Initials	Aco PE 2  Mainline VIP Camera Image	Ón-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camei Tilt	ra Control Zoom	Security Camera Image
3/17 0900	BJ	V		V,	V	V	V	V, #4
3/18/1/43	PB	/	/	1	V	V	<b>V</b>	1#4
3/19 9.03	V	7		V	W.	V	<b>U</b>	
3/19 1700	RJ	V	<u> </u>	V	1	1	<u></u>	V#4
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/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

7

Date:

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Road

lem	·
ber	Comment/Description of Problem
	1 XI: Cannot pan, tiltior zoom
	2 X2: Cannot pan, tilt, or 200m
	3 ATMS NOT CIVING CONTROL/USED FOT KEY BOARD IN EQUIP. ROOM
	4 IMAGE TOOBRIGHT, HARD TO SEE
;	5 IMAGE TOO PARY
	SURVEILLANCE CAMERA INLY SHOWS
•	NO IMALE
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F-64

Camera Image and Control Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

·Date	Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla Pan	nce Camei Tilt	a Control Zoom	Security Camera Image	
1/28	7:59	TR	V, .	/	/	1	V	/	/	
128	11.53	70	J	V	/	/	<u> </u>	V	<u> </u>	
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3/3	8:30	BJ		<u> </u>		V	/	\\ \-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	√ #a	- · ·
	3:13	H C		·		- V	V			
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3/4	8:39 16:04	HC PB	,/	$\overline{}$		1	7		7	
i	9:06	- 1	<b>V</b>			1	ر ز	ر ر	/	
319	3:18	HC	<b>/</b>			1/	<u>`</u>	<u>/</u>	V	
3/10	<i>0</i> 853	56	✓.	X4			<u> </u>			
m i	3:40	HC	<u> </u>		<u> </u>	17	1	1	<u> </u>	
3/11	9:36	PB	-	Y	<u> </u>	1	1/	i		
5/11	3:25	26								
<b>7</b> / -	08:44	RG	1.	i/		V	V	ル		
3/12	16:00	81		V	V	V	*,3	~	# (2)	
3/13	8:54	FN	/			X			No view best	
21.2	3:25	110	V	V	<i>V</i>	-1/	ســـــــــــــــــــــــــــــــــــــ	Comme	- Lucario de la constanción del constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de l	
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/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

Date:

F-65

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

of Individual	Evaluation Plan	or rest #1 - interstate مردی کے	ASCOPE #1		1,41101			
Time	Operator's Initials	Asce 2 Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveilla: Pan	nce Camer Tilt	a Control Zoom	
3/17 0900	RI	V/	V,	V#3	V	\\		1/ #2
3/18 10:47	B.I PU	/				/	/	1#2
reti !	SAM		V	V	V	V	V	V
3/19 1700	BJ	V	V	V	1	<u></u>	~	V #2
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<sup>/ =</sup> positive response (camera image available or control available)

Date:

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

Problem		
Number	Comment/Description of Problem	
	1 ATMS NOT CIVING CONTROL USE FOT KEYBOARD IN EQUIP. ROOM	
	2 IMAGE TOO BRIGHT HARD TOO MAKE OUT PICTURE	
	3 CAMPA WILL NOT TURN LEFT AFTER MID WAY (LOOKS STRAIT ATROSS BUT NOTFO	RTHER)
	4 NO EMAGE Shown, JUST 98 BLUE STATIC	
	5	
(	6	
	7	
	8	
	9	
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1:	9	
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Date:

F-67

Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

Date	Time	Operator's Initials	Mainline VIP Camera Image	On-Ramp VIP Camera Image	Surveillance Camera Image	Surveillar Pan	nce Camer Tilt	a Control Zoom	Security Camera Image	
1/28	8:04	PB	V	V	7	V	$\checkmark$	$\vee$	÷ /:	
1/28	11:56	PB	J	<b>/</b>		V	V	V	<i>J</i> .	
3/3	8:30	B7	V:		V #3		\ \	~	サンン	#1
<b>-</b> /-	3:15	HO	V		V #3	V	L	ر ر	V	
ر ا	0 15	.1.0		11-10				v	#4,	
3/5	8.42 16:07	7B	to Image	Ho inge.	NaTmage	7	1		V	
3/9	9112	FN				CK X	/	<u></u>	MA STERNA	ring
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3/10	08:55	<b>3</b> 6	J	J	J	1	/	/		
	3:42	HC	Vj.		<i>y.</i>	1		4	V	,
3/11	7:41	PB		<i>\</i>	V			/		
3/11	3130	RG	i/			V	سا			
3/1a	OB148	RE			1	V	V	<b></b>		
3/12.	1610	30		· 🗸	¥13	V-1	l k	1,000	V	
3113	9103	FN				1	<b>ر</b> ز ا			
	3.27	HC			-	Luce	4			

/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

Time	Operator's Initials	AKORE 2 Mainline VIP Camera Image	ASCOLE   On-Ramp VIP Camera Image	Surveillance Camera Image	Surveillar Pan	nce Came Tilt	ra Control Zoom	Security Camera Imag
3/17 0900		V,	V,	V	~	1/,	4	· V,
3/8 /1:55	PB						/	
2/19/93	J.I.M	./	V			-	<u>U</u>	
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<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

Problem	
Number	

## **Comment/Description of Problem**

1 ATMS NOT GIVING COHTROL /USED FOT KEYBOARD IN EGUIP. ROOM
2 IMAGE BRIGHT
3 LEASE NEEDS CLEANING WATER MARKS OR GAWDGING IN CENTER OF DICTURE
4 No Image - Wor path.
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## Appendix G:

## VIP Believability Data Sheets for I-5 Test

Data sheets are ordered by: (1) north to south sequence of evaluation sites as Main Place, Grand Avenue, First Street, Tustin Ranch Road, Jamboree Road, Culver Drive and by (2) date data were acquired.

VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: / 21/98

Trailer Number: 115

Trailer Location: NB 1-5 @ Main Place
No VIA F Tuen Place Ramp

	Time	Operator's Initials	Main 5- Vol	line Loop min Avg Occ	p ATMS Data Spd		ine VII in Avg Occ	P ATMS Data Spd	Correspo	nline VIP and to Vis Occ	Data ual Check Spd	On-Ramp Loop ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
l	6:05	KM	21	12	51	ت	0	ఎ		$A \setminus \mathcal{U}$				
2	7:06	KM	25	15	54	0	٥	٥		N/A				
3	8:04	CN	25	14	60	(19)	17	47	309	~	XY	Bot no restr	sh often 8	AO ACO
-	9:31	CN	20	30	55	0	0	O		N/A		_		
	UK	)												
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<sup>/ =</sup> positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

x = negative response (camera image not available or control not available)

VIP Availability and Believability Check Data Sheet Side Two In Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/98Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

of Individual Evaluation Plan for Test #1 - Interstate 5 Freev	
Problem	

ber	Comment/Description of Problem
1	XI = Lane I is "no Resp" and Lane 2 "Sospect"
2	X2 = UIP status is no responses
3	X3 = Loop status "Some Loops Band": HOVI, HOVZ LANE 1 = "No Resp"
4	: and LANEZ + Stips between "OK & Suspec X4 UIP Data Changed (7), 13, 53 313 : C 8:15
5	X4 UIP Data Changed (7), 13, 53 313 : @ 8:15
6	XS: Loop status " Some Loops Ead": HOUL HOUZ LANE 1 + "lo Resp"
	and LANE L = " > Failed"
8	XG= No VIP VDS - Whitew grand for 5 mins.
9	X7 = Some loves bad, #2"5 Filed", HW#1 ! Ituz "no Rsp"
•	
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16	
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20	

VIP Availability and Believability Check Data Sheet In Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 1/21/58
Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

Time	Operator's Initials		ne Loo <sub>l</sub> iin Avg Occ		5-m	in Avg	ATMS Data Spd	Correspo	nline ViP and to Vis Occ	ual Check	5-n	nin Avg	Data	5-min	VIP ATMS Avg Data Passage	Corres De	n-Ramp pond to mand	VIP Data Visual Checl Passage	k 5
6:17	km	15	7	64	0	0			AVCH			×١		>	(ک		11/1		
7:15	KM	22	11	61	()	٥	ပ		N/A		1.0	1.1	1.3	)	< 2_		N/	⁄A	
8.17	CN	21	16	53	0	0	0		N/A		1.7	2.3	2.8	$\lambda$	(۲		<u>\/</u>	'A	
9:37	CN	18	14	51	0	0	0		N/A		7.2	2.4	7.5	$\lambda$	2		N/	4	-
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<sup>/ =</sup> positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

x = negative response (camera image not available or control not available)

6-6

VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/98
Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

10,7	Time	Operator's Initials	30-s	ec Ava	ATMS Data Spd	30-≤	ec Avg	Data	Data Corre	espona to Speed	Umna	amp Lo	oop A <sup>-</sup> g² Ov	TMS Data vrflo³ Mtr⁴	Dimid	PASSG <sup>2</sup> M	Data Itr¹	On-Ramp VIP Da Correspnd to Visual Dmnd¹ Passg²	ata Check Mtr⁴
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/98
Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

Problem Number										C	omn	ment	/Des	cript	ion c	of Pro	blem	l	1					
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G-8

VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/98 Trailer Number: 113

Trailer Location: SB 1-5 @ First Street
No video image processing @ First St. Ramp

	Time	Operator's Initials		ine Loo nin Avg Occ	p ATMS Data Spd		line VII nin Avç Occ		Corresp	ainline VIP Data oond to Visual Check Occ Spd	On-Ramp Loop ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
١	6:22	km	0	۵	O	O	౦	٥		N/A			
,	7.26	km	18	13	51	0	<i>۵</i>	<i>ا</i>		NIA			
2	8:30		20	24	30	(88)	19	42	367	N/A	********		
	9:53		18	q	56	·	χţ			N/A			
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<sup>/ =</sup> positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box. Describe or comment on reverse side.

x = negative response (camera image not available or control not available)

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 1/21/58
Trailer Number: 113

Trailer Location: SB I-5 @ First Street

#### Problem Number

## **Comment/Description of Problem**

1	XI = C 4TH St; 22, 25, 39, because 15T St Stutus "No Regence"
	X2 = moved to 47H>+
_	x3 = UIP UDS Status Di responce
4	XY = Window opened for 10 minuter - 100 data
5	XS: SUM LOUPS bad Just Failed
20	·

VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Managment) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/98
Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

Time	Operator's Initials	Mainli 5-m Vol	ne Loo <sub>l</sub> iin Avg Occ	p ATMS Data Spd	) 5-m	ine ViP in Avg Occ	ATMS Data Spd	Correspo	nline VIP and to Vis Occ	ual Check	5-m	in Ava E	Data	On-Ramp V 5-min Av Demand	g Data	Correspond to V	isual Check
2 2	KW	19	15	54	0		0		NA		3.5	3. <i>S</i>	٥	N/	A	N/A	4
6:32 7:29	KM	18	17	45		<u>ن</u>			NA		5.3			N/I	<u> </u>	N/1	
8.45	CN	70	15	48		×3			NIA		5.4	5.3	0	€ XY	f	N/A	4
8:19	KW	14	7	59		X3			N/1		30	2.9	0	E X4	N/A	N/A	
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<sup>/ =</sup> positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box. Describe or comment on reverse side.

x = negative response (camera image not available or control not available)

9-11

Date: 1/21/98
Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Managment) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

,	Time	Operator's Initials		ine Loo sec Avg Occ	Data	- (	30-se	ec Av	P ATMS g Data Spd	Data C Vis	orr uai	VIP Speed espond to Speed	Dmnd	amp   ¹ Pas	Loop ssg²	AT Ovi	rfio³	Mtr <sup>4</sup>	1	Data	P ATMS	Corres	pnd	np VIP to VIsu Passg²	al Check
_	:46	KM	ں, صا	4.67	59		0	0	ح	oper	1	NMIN	3	3		?		r <del>[4</del>			-				
0	2:18	KM	12	10.3	53		U	ى	ン		5	Min	3	3	,		15	F		-					
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

3. Ovrfio = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box.

Describe or comment on reverse side.

G-12

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/98

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

# Problem Comment/Description of Problem Number 1 XI Status "No Responso" 2 X2 numbers on loop ATMS window "greet out" lov/min rate No VIP VDS Data - Window opened for 7 mins 3 X3 4 XY Ramp Meter Loop strins "Good" DM " 5 Failed" Metering Rate 10 verymin

VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

XI

Date: 1/21/98 G-13

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

	Time	Operator's Initials		nin Avç	Data	5-m		y Data	Corres	fainline V spond to V ol Occ	Visual Check	5-n	nin Avg	Data	5-min	o VIP ATMS Avg Data Passage	Correspo	nd to	VIP Data Visual Check Passage
	6:46	KM	13	П	49	0	0	၁		77	Ą	1.3	4.7	3.5	_			_	
	7:32	KM	15	34	23	0	0	0		10/1	4	4.0	4.2	4.8	×3				
	8:28	CN	16	22	33	<u> </u>	XY	!		N/	A	7.7	2.8	3.2					
-	9:28	KM	10	9	54		×ι	1		N/F	4	2.3	2,4	2.4	X5	<del></del>	_		
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<sup>/ =</sup> positive response (camera image available or control available)

6-14

VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: //21/98
Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

Time	Operator's Initials	Mainli 30-s Vol	ne Loo sec Avg Occ	p ATMS Data Spd	30-s	ine VIP ec Avg Occ	ATMS Data Spd	Visual	Speed		lamp I I¹ Pas	.oop A sg² Ov		On-Ramp Dmnd <sup>1</sup>	VIP ATN Passg²	IS Data Mtr¹	On-Ra Correspno Dmnd¹	amp VIP Da d to Visual Passg²	Check
1:53	km	9.8	14.2	38	124	ی د	<u> </u>	open	10 min	1	1	?	off						
<i>Q</i> :3ن	CN			47		ں ب	) <u>/</u>			/	/	, ?	sH	-		-			
4:00	CN		12.9		0	00	_	OPEN	10 min	1		1	055	-					
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume 3. Ovrflo = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/98

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

#### Problem Number

### **Comment/Description of Problem**

1	XI Mainline UIP Datu Status "No Response"
2	X2 Loop UDS Status some loops bud; lane # 2 "S Failed"
3	XS DM Status "S Failed" PA Status "S Failed" QU Status "OK" alternal
	X4 VIP VDS ne data - Window openad 5 mins.
6	X5 DM Status "SFailed" X6 Sover Loup: Bad; #2 "5 Failed"
_	

G-16

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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/5 8
Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

No video image processing @ Culver Road Ramp.

Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	Mainline VIP ATMS 5-min Avg Data -Vol Occ Spd	Mainline VIP Data Correspond to Visual Check Vol Occ Spd	On-Ramp Loop ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
6:54	km	29 15 55	303 8 63	014			
741	1CM	26 45 26	000	A/G			
9:14	LN.	25 26 44	0) 100 70	359 (9:04) OL?			
		REPEAT	59 8 59	360 (9:10) 6K?			
9:30	KM	26 17 39	X3	N/A			
		repent	65) 10 53	370 (9:38)			
						-	
·		3 4 5	45				
1:59	KM	84 124 38	(2) 19.4 49	105			
2:35	CN	12.0 16.0 43	21 17 54				
4:06	CN	14.6 16.7 46	21 21 48	107			
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/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box. Describe or comment on reverse side. VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/98
Trailer Number: 111

G-17

Trailer Location: NB I-5 @ Culver Road

olem	A Company of Problems
nber	ယစုပ်ဝS Comment/Description of Problem
1 <u>X</u>	1 Stubs "Same Loops Bad"; Lane 5 "Suspect"; Land 6 " 5 Failed"
2	2 VIP VDS Status "No Resporte
3 X	2 VIP VOS Status "No Responso" 3 VIP VOS no datas window open 5+ minutes
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G-18

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/21/5

Trailer Location: NB I-5 @ Culver Road

blem mber	Comment/Description of Problem	
1	XI Shins "Same Lower Ked": Larer S "Suspect"; Lawle 3	Failbel"
2	X2 VIP VDS Status "No Responso"  X3 VIP VDS no data) window often 5+ minutes	
3	X3 VIP VDS no datas window open 5+ minutes	
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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 1/22/98

Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

ATION LOOP STATING

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Time	Operator's Initials	line Loop min Avg I Occ		line VIP nin Avg Occ		Correspo	nline VIP nd to Vis Occ	Data ual Check Spd	On-Ramp Loop ATMS 5-min Avg Data (Not Applicable)	5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)					
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1-14:19				Ü	70	7141.5			12 7 4 Justin		<del></del>					
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/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:
Trailer Number: 115
Trailer Location: NB I-5 @ Main Place

Number         Comment/Description of Problem           1	Problem	
2	Number	Comment/Description of Problem
3 4 5 5 6 6 7 7 8 9 9 10 11 12 12 13 14 15 15 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1	
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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

THE STATUS

		,							· , · · ·	_		H 7 (4)		
Time	Operator's	Maini	ine Loop	ATMS	Mainl	ine VIP	ATMS	Mainli	ne VIP Speed	On-Ra	mp Loo	p ATMS Data	On-Ramp VIP ATMS Data	On-Ramp VIP Data
	initials	30-	sec Avg			ec Avg		Data C	orrespond to	Dmnd'	Passg <sup>2</sup>	Ovrflo <sup>3</sup> Mtr <sup>4</sup>	Dmnd¹ Passg² Mtr⁴	Correspnd to Visual Check
		Vol	Occ	Spd	Vol	Occ	Spd		ual Speed					Dmnd¹ Passg² Mtr⁴
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

3. Ovrflo = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:

Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/22/08
Trailer Number: 113
Trailer 1 ----

Trailer Location: SB I-5 @ First Street

STATUS LOOP STATUS

Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Dala Vol Occ Spd	5-min Avg Data	Correspond to Visual Check	On-Ramp Loop ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
15:16	$\langle B \rangle$		- 5101		All ox		
15:24:30	1		- 13.26 54.04		All OL		
17.50	V		- 15:56 43:63		AH X		
	***************************************						
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<sup>/ =</sup> positive response (camera image available or control available)

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date:
Trailer Number: 113
Trailer Location: SB I-5 @ First Street

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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Managment) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 1/22/23 G-25

XI

V:

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

STATUS LOOP STATUS

Time	Operator's Initials	Mainli 30-s Vol	ine Loop sec Avg I Occ	Data	30-s	ine VIP ec Avg Occ	ATMS Data Spd	Data C Vis	orres ual Sp	peed	Dmnd¹	Pass	oop ATMS Data g² Ovrflo³ Mt	Dmnd' Pa	ta	Correspnd Dmnd <sup>1</sup>	Passg <sup>2</sup>	ta Check Mtr <sup>4</sup>
39	CN				194	0	O	No	P	. V' * * " * "X	Pil	No	Redlande	[ Llan	ţ.	94. 94. 	Yank Parc	
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

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11

2. Passg = PA = 30-sec volume

3. Ovrflo = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box.

Describe or comment on reverse side.

ViP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

Problem	١
Number	

## **Comment/Description of Problem**

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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 1/22/98

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

STATUS

LOOP STATUS

Time	Operator's Initials	sec Avg		ine ViP ec Avg Occ			spond to Speed	Dmnd¹	Passg²		Mtr <sup>4</sup>	Dmnd¹	Passg <sup>2</sup>	Mtr <sup>4</sup>	Correspr	tamp VIP D d to Visua Passg²	l Check
15:40	CN		 <b></b>	O	Ċ,	No !	( = 1,8 11 m/C	All	No	Relyon	15	B	lank		- 3	Break	
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

3. Ovrflo = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box.

Describe or comment on reverse side.

#### Trailer 110 VIP Believability

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:
Trailer Number: 110
Trailer Location: NB I-5 @ Jamboree Road

em Der			Comment/Description	of Problem	
	XI: Stays @	17 cc. 31 16:0			
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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/22/88 G-29
Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

STATUS

LOOP STATUS

Time	Operator's Initials	ne Loop in Avg I Occ		ine VIP in Avg Occ	ATMS Data Spd			sual Check Spd	5-mi	in Avg Appl	Loop ATMS g Data (Not icable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
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/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box. Describe or comment on reverse side.

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:
Trailer Number: 111
Trailer Location: NB I-5 @ Culver Road

Comment/Description of Duckland
Comment/Description of Problem
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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/27/48

Trailer Number: 115

Trailer Location; NB I-5 @ Main Place

	Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	Mainline VIP ATMS 5-min Avg Data Vol Occ Spd	Mainline VIP Data Correspond to Visual Check Vol Occ Spd	Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
9	7:42:30	CN		- 0 0	No Response	All No Response		
	7:45:30			- 0 0	No Response	HI No Kesponse		
	7:49	<u> </u>		- 0 0	No Response	All No Response		
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1	12:18:00	CN		- 0 0	No Resporte	All No Respons		
1	15:00	CN		-00		All No Response		
	(5:11			-00	No Revgonje	All No Response		
	15:19	V		- 0 0	No Royonse	All No Respon	12	

<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

VIP Availability and Believability Check Data Sheet Side Two In Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

f Individual Evaluation Plan for	Test #1 - Interstate 5 Freeway
Problem	

Number	Comment/Description of Problem
•	1 XI = Data stays at Jan 27 7:42:00
:	2 X2 = Data stry at Jan 27 12:18:00
,	3 X3 = Pota stays at Jan 27 14:50:30
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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/27/98 G-33

Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

STATUS LOOP STATUS

ſ	Time						Mainline VIP Speed		On-Ramp VIP ATMS Data	
		Initials	30-sec Avg Data Vol Occ Spd		sec Avg Occ	Data Spd		Dmnd¹ Passg² Ovrflo³ Mtr⁴	Dmnd¹ Passg² Mtr⁴	Correspnd to Visual Check Dmnd¹ Passg² Mtr⁴
Ī	7:43	CN		-	0	0	No Response	All No Response	Blank	Blank
	7:47	)		-	0	0	No Response	All No Respose	Blank	Blank.
	7:49:30	<u> </u>		_	0	0	No Response	All No Response	Blank	Blank
ŀ	11:14	CN			0	0	No Response	All No Reyouse	Blank	Blank
,	12:22	CN		_	0	0	No Response	All No Response	Blank	Blank
	15.01	CN					Λ/ <sub>0</sub> P	All Mr Parane	Blank	Blank
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

3. Ovrflo = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box.

Describe or comment on reverse side.

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

roblem lumber	Comment/Description of Problem
	XI = Data stays at Dec 31 16:00:00
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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 1/27/98

Trailer Number: 113

Trailer Location: SB I-5 @ First Street

					)1A1W	COUP STAIN	)		
	Time	Operator's	Mainline Loop ATMS			On-Ramp Loop ATMS	On-Ramp VIP ATMS	On-Ramp VIP Data	1
		Initials	5-min Avg Data	5-min Avg Data	Correspond to Visual Check		5-min Avg Data (Not		
		CAL	Vol Occ Spd	· · · · · · · · · · · · · · · · · · ·	<del></del>	Applicable)	Applicable).	Check (Not Applicable)	<b>1</b> ~ ,
M	7:44	CN		-00	No Response	All No Response			XI
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	7:50	Ψ		- 0 0	No Response	All No Respons			XI
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η	15:07	W		- 0 6	No Royouse	All No Regions	e —		$\chi_{\ell}$
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/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

VIP Availability and Believability Check Data Sheet Side Two In Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: Trailer Number: 113

Trailer Location: SB I-5 @ First Street

Problem	Comment/Description of Problem
Number	77 77 07:40:00
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Date: 1/27/98
Trailer Number: 114
Trailer 1 ---

Trailer Location: NB I-5 @ Tustin Ranch Rd.

VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Managment) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

	of Individu	ıai Evaluatio	n Plan for Test #1 -	Interstate 5 Freew	ay	STATUS	LOOP STATUS	Trailer Location: NB 1-3 @ Tustin Kanch Ku.				
	Time	Operator's Initials	30-sec Avg Data			Mainline VIP Speed Data Correspond to Visual Speed	On-Ramp Loop ATMS Data Dmnd¹ Passg² Ovrflo³ Mtr¹		On-Ramp VIP Data Correspnd to Visual Check Dmnd¹ Passg² Mtr⁴			
1	8:01	CN		<b>-</b> 0	0	No Response	All No Response		Blank	XI		
	8:06:30			- 0	0	No Pesponse	All No Response	Blank	Blank	XI		
	8:10	V		- 0	0	No Response	All No Response		Blank	X		
η	12:45	CN		- 0	0	No Reylonse	All No Response	Blank	Blank	XI		
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

3. Ovrflo = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

VIP Availability and Believability Check Data Sheet Side Two In Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

Problem	Comment/Description of Problem
Number	Comment/Description of Froblem  1 X1 = Data stays at Dec 31 16:00:00
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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

1/27/98 6-39

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

STATUS LOOP STATUS

Time	Operator's Initials		ne Loop sec Avg Occ			ine VIP sec Avg Occ		Mainline VIP Speed Data Correspond to Visual Speed		mp Loc Passg	op ATMS Data 2 Ovrflo3 Mtr	On-Ramp VIP ATMS Data Dmnd¹ Passg² Mtr⁴	On-Ramp VIP Data Correspnd to Visual Check Dmnd¹ Passg² Mtr⁴
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3:07:30					~	ð	0	No Response		No	Response	Blank	Blank
3:11	V					0	O	No Response	All	No	Response	Blank	Blank
<u>२:५</u> ८	CN				_	O	0	No Response	A11	No	Response	Blank	Blank
5:33	CN					2	0	No Response	All	No	Response	Blank	Blank
5:39:30					_	0	0	No Response	All	No	Response	Blank	Blank
5:42	V				_	0	0	No Response No Response No Response	<u> </u>	No	Regione	Blank	Blank
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

Problem Number	Comment/Description of Problem													
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VIP / ability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/27/98

Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

	of Individu	ıal Evaluatior	n Plan for Test #1 - Inte	5 Freewa	ay	STA	itus	60	OP STA	TU	Trailer Location: NB I-5 @ Culver Road		
	Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	5-m	line VIP nin Avg Occ		Maiı	nline VIP Data nd to Visual Checl Occ Spd	On-R 5-mir	amp Loop A1 n Avg Data (I Applicable)	ΓMS	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
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9	8:08			_	0	0	No	Response	All	No Resp	Respons		
	8:12	V		_	S	0	No	Regionse	A11	No Resy	nonse		
	12:49	CN		_	0	0	No	Regonse	All	No Roy	Ponje		
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/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

Date: Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

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Date: 1/28/98

Trailer Number: 115

Trailer Location; NB I-5 @ Main Place

STATUS LOOP STATUS

Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	Mainline VIP ATMS 5-min Avg Data Vol Occ Spd	Mainline VIP Data Correspond to Visual Check Vol Occ Spd	On-Ramp Loop ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
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<sup>/ =</sup> positive response (camera image available or control available)

Date: 1/28/98

Trailer Number: 115

Trailer Location: NB 1-5 @ Main Place

Problem		Commont/Decorlet	ion of Broklam	
Number	ο	Comment/Descripti	on of Proplem	
X1	Data storys at	Jan 28 07:29:00		
X 2	For lane #5	Occupancy = 100	Estimated = 10	
Хз	Data stays at	Jan 28 15:27:00		
X 4	Data sings at	Jan 28 15:34:00		
X 5	Data stays at	Jon 28 15:97:00		
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Date: 1/28/98 Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

Time	Operator's Initials	ne Loop ec Avg I Occ	Data	30-	line VIP sec Avg Occ	ATMS Data Spd	Data (	ine VIP Speed Correspond to sual Speed	On-Ra Dmnd	mp Lo Pass	op ATMS Data g² Ovrflo³ Mtr		OVIP ATMS Data Passg <sup>2</sup> Mtr <sup>4</sup>	Correspnd to Visual Check Dmnd¹ Passg² Mtr⁴
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

Date: 1/7 = 1 / 3

Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

Problem Number						Comment/De	secription of	Problem		
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15_									-1	 
										 <del></del>
19_					···					

**Trailer Number: 113** 

Trailer Location: SB I-5 @ First Street

VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

of Individu	ial Evaluation	Plan for Test #1 - Inter	state 5 Freeway	STATUS	LOUP STRING	i railer Location:	SB I-5 @ First Street
Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	Mainline VIP ATMS 5-min Avg Data Vol Occ Spd	Mainline VIP Data Correspond to Visual Check Vol Occ Spd	On-Ramp Loop ATMS	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
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8:04:7	1		- 17.09 39.49	All Lour good	All DK		
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/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box. Describe or comment on reverse side.

Date: 1/28/98

Trailer Number: 113

Trailer Location: SB I-5 @ First Street

Problem Number					Cor	nment/Descri <sub>l</sub>	ntion of Prob	lem			
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Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

STATUS

2 SOP STATUT

	Time	Operator's Initials		ne Loop ec Avg Occ		30-	sec Avg Occ	Data Spd	Data (	sual Speed	to Dr	nnd¹ l	Passg² (	ATMS Data Ovrflo <sup>3</sup> Mtr	Dmnd	mp VIP A Data ' Passg²	Corresp		P Data ual Check g <sup>2</sup> Mtr <sup>4</sup>
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

4. Mtr = Metering rate in veh/min Mainline ATMS data on CMS screen On-ramp ATMS data on RMS screen 3. Ovrflo = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

Date: 1/28/08

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

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nber	201				omment/Description of Pr	roblem	
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Date: 1/28/08 6-51

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

LOOP STATUS STATUS

Time	Operator's Initials	ine Loop sec Avg I Occ	30-9	sec Avg Occ	Data Spd	Data C Vis	ual Speed	Dmnd¹	Passg	p ATMS Data Ovrflo³ Mtr	Dm	amp VIP A ind¹ Passi				Data ual Check g² Mtr¹
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17:22				0.00	0.06	No	Response	All	No	Response		Blum		B	lounk	
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume 3. Ovrflo = QU = 30-sec occupancy Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

Date: 1/28/98
Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

Problem					
Number				omment/Description of Problem	
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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

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Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

	ai Lyaiuation	Plan for Test #1 - Inte	istate 5 Freeway	STATUS	LOOP STATU	Trailer Location:	NB I-5 @ Culver Road
Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	5-min Avg Data	Mainline VIP Data Correspond to Visual Check Vol Occ Spd	On-Ramp Loop ATMS 5-mln Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
8:76	CN		- 0.00 0.00	No Response	All No Response		
:32			- 0.00 0.00	No Response	14 1 No Felyours		
1.48:00	<u> </u>		- 17.36 51.93	All Logs Good	Allor		******
2:19:30	CN		- 18.47 4730		Allok		
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2:30:00	V		- 0 00 0.00	No Resjonse	All No Response		
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6:50			- 0,00 0:00	No Response	All No Reagong		
6:22	V		- 3.00 0.00	No Remonse	All No Respon	e —	
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	Time  2:76  1:32  2:48:00  2:19:30  2:24  2:70:00  6:19  6:19	Time Operator's Initials  2:76 CN  1:32 V  2:48:00 V  2:19:30 CN  2:24 V  2:70:00 V	Time Operator's Initials 5-min Avg Data Vol Occ Spd 0:76 CN	Time Operator's Initials 5-min Avg Data Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Occ Vol Vol Vol Occ Occ Vol Vol Vol Vol Vol Vol Vol Vol Vol Vol	Time Operator's Initials   Mainline Loop ATMS   S-min Avg Data   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol 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Spd Vol Occ Spd S-min Avg Data (Not Applicable)  3:76 CN

<sup>/ =</sup> positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box. Describe or comment on reverse side.

x = negative response (camera image not available or control not available)

Date: 1/28/98

Trailer Number: 113

Trailer Location: SB I-5 @ First Street

Problem Number					Cor	nment/Descri <sub>l</sub>	ntion of Prob	lem			
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Date: 1/28/93

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

STATUS

LOOP STATUS

	Time	Operator's Initials	Mainline Loop ATMS 30-sec Avg Data Vol Occ Spd	30-sec Avg Data	Data Correspond to	On-Ramp Loop ATMS Data Dmnd¹ Passg² Ovrflo³ Mtr⁴	On-Ramp VIP ATMS Data Dmnd¹ Passg² Mtr⁴	On-Ramp VIP Data Correspnd to Visual Check Dmnd¹ Passg² Mtr⁴
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume 3. Ovrflo = QU = 30-sec occupancy Note problems by placing an x followed by a # in the appropriate box.

Describe or comment on reverse side.

Date: 1/28/08

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

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nber	201				omment/Description of Pr	roblem	
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15							
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Date: 1/28/08 6-51

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

LOOP STATUS STATUS

Time	Operator's Initials	ine Loop sec Avg I Occ	30-9	sec Avg Occ	Data Spd	Data C Vis	ual Speed	Dmnd¹	Passg	p ATMS Data Ovrflo³ Mtr	Dm	amp VIP A ind¹ Passi				Data ual Check g² Mtr¹
8:54	CN			0.00	0.00	No	Reground	13/	1 1/	, Regions	2	Blank		ſ	3 lan	Ł
8:31			 	0.06	0.00	Nu	Response	A11	No	Response	:	Blank Blan	·	1 1	3/ank	
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

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2. Passg = PA = 30-sec volume 3. Ovrflo = QU = 30-sec occupancy Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

Date: 1/28/98
Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

Problem					_		
Number	~					omment/Description of Problem	
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VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

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Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

	ai Lyaiuation	Plan for Test #1 - Inte	istate 5 Freeway	STATUS	LOOP STATU	Trailer Location:	NB I-5 @ Culver Road
Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	5-min Avg Data	Mainline VIP Data Correspond to Visual Check Vol Occ Spd	On-Ramp Loop ATMS 5-mln Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
8:76	CN		- 0.00 0.00	No Response	All No Response		
:32			- 0.00 0.00	No Response	14 1 No Felyours		
1.48:00	<u> </u>		- 17.36 51.93	All Logs Good	Allor		******
2:19:30	CN		- 18.47 4730		Allok		
2;24				No Perponse	All No Response		
2:30:00	V		- 0 00 0.00	No Resjonse	All No Response		
6; ld	CN		- 0.00 0.00	No Rayyouse	All No Response		
6:50			- 0,00 0:00	No Response	All No Reagong		
6:22	V		- 3.00 0.00	No Remonse	All No Respon	e —	
	· · · · · · · · · · · · · · · · · · ·						
	Time  2:76  1:32  2:48:00  2:19:30  2:24  2:70:00  6:19  6:19	Time Operator's Initials  2:76 CN  1:32 V  2:48:00 V  2:19:30 CN  2:24 V  2:70:00 V	Time Operator's Initials 5-min Avg Data Vol Occ Spd 0:76 CN	Time Operator's Initials 5-min Avg Data Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Occ Vol Vol Vol Occ Occ Vol Vol Vol Vol Vol Vol Vol Vol Vol Vol	Time Operator's Initials   Mainline Loop ATMS   S-min Avg Data   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ Spd   Vol Occ	Time Operator's Mainline Loop ATMS Mainline VIP ATMS Initials  S-min Avg Data Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd Vol Occ Spd No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No Response All No 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Spd Vol Occ Spd S-min Avg Data (Not Applicable)  3:76 CN

<sup>/ =</sup> positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box. Describe or comment on reverse side.

x = negative response (camera image not available or control not available)

Date: 1/28/48
Trailer Number: 111

Trailer Location: NB 1-5 @ Culver Road

Problem	
Number	Comment/Description of Problem
χ1	Data stays at Jon 28 U8:24:00
X 2_	Duta strys at Jan 22 08:28:00
X 3	Data , tags at Jan 28 12:21:00
X 4	Data strys of Jan 18 12:25:30
X 5	Data stuys at Jan 28 16:17:00
X 6	Duta 1 mys at Jan 28 16:17:30
X 7_	Duto stays at Jam 28 16:21:00
8	
9	
10	
11	
12	
14	
16	
17	`
18	
19	
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Date: 1/29/98

Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

	Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	Mainline VIP ATMS 5-min Avg Data Vol Occ Spd	Correspond to Visual Check	On-Ramp Loop ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
IM	8:11	CN		_ 0,00 0,00	No Response	All No Response		
	8:31	1		- 7376 48.69		All OK		λ
	8:38:30	V		- 18.24 46.88		All ok		\\
					,			

<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Date: 1/29/98

Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

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ber	~			6		cription of Problem	
X 1_	tor	Lane	# 5	Occupan.	cy = 100	Estimated	Speed = 70
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5						•	
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19				4			

Date: 1/29/98 G-57
Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

	Time	Operator's Initials		ec Avg		30-9	line VIP sec Avg Occ	ATMS Data Spd	Data Co	e VIP Speed orrespond to ual Speed	On-Ra Dmnd	Pass	op ATMS g² Ovrflo	Data Mtr	On-Ramp Dmnd¹	VIP ATN Passg²	MS Data Mtr <sup>4</sup>	Correspnd t	p VIP Data o Visual Check Passg² Mtr⁴	
М	8:13	CN		~			0.00	0.00	No	Response	All	No	Respo	nse	Bla	nk		Bla	nk	$]_{X}$
j	8:36						0.00	0.00	No	Response	All	No	Respon	15e	Bla	mk		Blu	nk	X
	8:41	V					0.00	0.00	No	Response	All	No	Respon	·se	Bla	mk		Blu Blu	nk	χ
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

3. Ovrflo = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

Date: 1/29/98

Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

em oer					Comment/Description of Problem
	Data	stays	at	Dec 31	16:00:00
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4					
T					
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7_				•	
8_					
10_					
11_					
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			,		
18		•			
19					
20					

Date: 1/29/98 G-59

Trailer Number: 113

Trailer Location: SB I-5 @ First Street

Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	5-min Avg Data	Mainline VIP Data Correspond to Visual Check Vol Occ Spd	On-Ramp Loop ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
M 8:17	CN		- 0.00 0.00	No Response	All No Response		
8.37			- 0.00 0.00	1 /	All No Response		
8:43			- 8.45 50.89	1 4 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	All or		
			,				

<sup>/ =</sup> positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

x = negative response (camera image not available or control not available)

Date: 1/29/98 Trailer Number: 113

Trailer Location: SB I-5 @ First Street

roblem	•				•			•		
lumber		•				Comment/Descr	iption of Pro	oblem		
X1_	Duta	stays	at	Jan	29	8:15:00	····			
X2_	Duta	shy	at	Jan	1 61	8:35:00				
3_					<u></u>					
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Date: 1/29/98

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

	Time	Operator's Initials	Mainline Loop ATMS 30-sec Avg Data Vol Occ Spd	30-sec Avg Data	Data Correspond to	On-Ramp Loop ATMS Data Dmnd <sup>1</sup> Passg <sup>2</sup> Ovrflo <sup>3</sup> Mtr <sup>1</sup>	Dmnd¹ Passg² Mtr⁴	On-Ramp VIP Data Correspnd to Visual Check Dmnd¹ Passg² Mtr⁴
1	8:49	CN		- 0.00 0.00	No Response	All No Response	Blank	Blank Blank
	9:20			- 0.00 0.00	No Reponse	All No Response	Blank	Blank ?
	9:25	V		- 0.00 0.00	No Response	All No Response	Blank	Blank
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

3. Ovrflo = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box.

Describe or comment on reverse side.

Date: 1/29/98

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

lem nber						Comment/Description of Problem	1
	Derta	staus	at	Dec	31	16:00:00	
		/					
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	_		4.	• •,			
18							
19_							
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Date: 1/29/98

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

Time	Operator's Initials	Mainli 30-s Vol	ne Loop sec Avg Occ	ATMS Data Spd		line VIF sec Avo Occ		Data C Vis	orrespo ual Spe	ond to ed	Dmnd'	Passo	j² Ovrf	io³ Mtr⁴	i 	VIP ATMS D Passg <sup>2</sup> Mti	oata On- r⁴ Corresp Dmnd	Ramp VIP D and to Visua ' Passg²	l Check
8:52	CN	•			_	0.00	0.00	No	Resi	ponse	AII	No	Res	ponse	Blu	mk		3 lank	
9:22	1	-			_	0.00	0.00	No	Resp	on se	All	No	Ras	youse	510	mk	/	Slank	
9:26	V	•			_	0.00		No	Resp	inse	A!	No	Ren	pouse pouse	Bla	nk	/	Blank	
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/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume
3. Ovrflo = QU = 30-sec occupancy

Note problems by placing an x followed by a # in the appropriate box.

Describe or comment on reverse side.

## Trailer 110 VIP Believability

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 1/29/98

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

ilem nber					Comment/Description of Problem
X 1_	Data	skys	ut	Dec 31	16:00:00
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19 20		<del></del>			·

Date: 1/29/98 G-65
Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

Time	Operator's Initials	5-mi	e Loop n Avg I Occ		nline VIF min Avg Occ		Correspo Vol	nd to Oc	<b>.</b>	On-l	in Avg	Loop ATMS Data (Not icable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)	
9:18	CN				0.00	0.00	No	Re	.) jourse	All		Response	,		
9:24				_	0.00	0,00	No	Re	Monse	All	No	Respuss			
9:27	<b>V</b>			 _	0.00	0.00	No	Re	plonze	Ail	No	Respons	C desirante	mate or division of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o	
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/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Note problems/difficulties by placing a # in appropriate box. Describe or comment on reverse side.

Date: 1/29/98

Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

lem				ı	Comment/Descripti	ion of Problen	,			
ber L	D.L.	. 1.	<b>J</b>							
X1_		stays								
		stays		Jan 19	9;22;00					
X3_	17/2	Stays	W	Jan 29	9; 25:60			·		·
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IP Availability and Believability Check Data Sheet

Support of Objective 2 (Trailers Work for Traffic Management)

of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 2/3/33
Trailer Number: 115
Trailer Location: 115

Trailer Location: NB I-5 @ Main Place

Time	Operator's		ne Loop			line VIP			ine VIP		On-F	Ramp L	.oop ATMS	On-Ramp VIP ATMS	On-Ramp VIP Data
	Initials		in Avg I			nin Avg		Correspon	d to Vi	sual Check	5-m		Data (Not	5-min Avg Data (Not	
		Vol	Осс	Spd	Vol	Occ	Spd	Vol	Occ	Spd		Appli	cable)	Applicable)	Check (Not Applicable)
8:09	CN				_	0.00	0.00	No	Re	monse	All	No	Resyons D		
8:15						0.00	0.00	IVO	KEN	1 114 12		100	Lenjons	·	
8:30	V	-		•		0,00	0.00	Nυ	Fer	Now se	A11	No	Response		-
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<sup>/ =</sup> positive response (camera image available or control available)

G-68

Trailer 115 VIP Believability

IP Availability and Believability Check Data Sheet Side Two
I Support of Objective 2 (Trailers Work for Traffic Management)
I Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 2/3/98

Trailer Number: 115

Trailer Location: NB I-5 @ Main Place

Problem	
Number	Comment/Description of Problem
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3	·
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G-69

Date: 2/3/98

Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

## VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Time	Operator's Initials	30-s	ine Loop sec Avg Occ	Data	30- Vol	sec Avg Occ	Data Spd	Data (	ine VIP Speed Correspond to sual Speed	Dmnd	Pass	g' Ovrflo	Mtr¹		On-Ramp VIP Data Correspnd to Visual Check Dmnd¹ Passg² Mtr⁴
8:11	cN					0.00	0.00	No	Reynance	AU	No	Reyror	. F R	Blank	Blank
8:17					_	0.00	0.00	No	Remouse	All	N.	Posto	77 E	Blank	Blank
8;22	V	-				0.00	0.00	Nυ	Royanse Ranjouse Ranjouse	All	No	Parlon	50	Blank Blank Blank	Blank Blank Blank
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/ = positive response (data or "check mark" entered)

TO TAK ASSURABLY

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

Note problems by placing an x followed by a # in the appropriate box.

Describe or comment on reverse side.

Date:  $\frac{1}{2}/98$ Trailer Number: 109

Trailer Location: NB I-5 @ Grand Ave.

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Problem Number		Comment/Description of Problem
	1	
	2	
•	3	
	4	
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	44	
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	16	
•	16	
	17	
	18	
	19	
	20	

Date: 2/3/98

Trailer Number: 113

Trailer Location: SB I-5 @ First Street

Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	Mainline VIP ATMS 5-min Avg Data Vol Occ Spd		On-Ramp Loop ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
48:13	CN		- 0.00 0.00	No Response	All No Response		
8:19			- 0.00 0.00	No Response	All No Roypunse		
8:53	V		- 6.00 6.00	No Response	All No Response		
				/			
		***************************************					

<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 2/3/33

Trailer Number: 113

Trailer Location: SB I-5 @ First Street

Problem Number	Comment/Description of Problem
1	
2	
3	
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VIP Availability and Believability Check Data Sheet In Support of Objective 2 (Trailers Work for Traffic Managment) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: Z/S/33 Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

	Time	Operator's Initials	Mainli 30-s Vol	ne Loop sec Avg Occ	ATMS Data Spd	30∹ Vol	sec Avg Occ	Data Spd	Data V	sual Speed	Dmnd'	Pass	oop ATMS Data sg² Ovrflo³ Mtr⁴	Dmn	Ramp VIP Data d¹ Passg	On-Ramp VIP D Correspnd to Visual Dmnd¹ Passg²	ata I Check Mtr¹
1 8	43.5	CN	_			1	0.00	0.60	No	Response	All	No.	leyouse	T <sub>S</sub>	lank	Blank	
8	:18						0.00	0.00	No	Reyrouse	All	No	Renouse	B	lank	 Blank	
Q	:35	V				-	000	000	No	Response	All	No	Response Response Response	Ĩ	Slank	Blank	
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-									ļ		<del> </del>	<del>-</del>					
-											<del> </del>						

/ = positive response (data or "check mark" entered)

x = negative response (data not available)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume 3. Ovrflo = QU = 30-sec occupancy

4. Mtr = Metering rate in veh/min Mainline ATMS data on CMS screen

On-ramp ATMS data on RMS screen

Note problems by placing an x followed by a # in the appropriate box. Describe or comment on reverse side.

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 7/3/03

Trailer Number: 114

Trailer Location: NB I-5 @ Tustin Ranch Rd.

Problem	
Number	Comment/Description of Problem
1	
2	
3	
4	
5	
6	
7	
8	
	·
11	
12	
13	
14	
15	
16	<u> </u>
17	·
18	
19	
20	

VIP Availability and Believability Check Data Sheet In Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 7/3/93

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

	Time	Operator's Initials	Mainline Loop ATMS 30-sec Avg Data Vol Occ Spd	30-sec Avg Data Vol Occ Spd	Visual Speed	On-Ramp Loop ATMS Data Dmnd¹ Passg² Ovrflo³ Mtr¹	Dmnd <sup>1</sup> Passg <sup>2</sup> Mtr <sup>4</sup>	Correspnd to Visual Check Dmnd¹ Passg² Mtr⁴
4	3:25	CN		- 0.00 0.00	No Response	All No Eergonse	Blank	Flank
	8:31			- 0.00 0.00	No Response	All No Response All No Response All No Response	Blank	* ia nh
	8;37	Ÿ		- 0.00 0.60	No Response	All No Renjouse	Flank	Slank
						/		
ſ								

/ = positive response (data or "check mark" entered)

1. Dmnd = DM = 30-sec volume

2. Passg = PA = 30-sec volume

3. Ovrilo = QU = 30-sec occupancy

x = negative response (data not available)

Note problems by placing an x followed by a # in the appropriate box.

Describe or comment on reverse side.

4. Mtr = Metering rate in veh/min Mainline ATMS data on CMS screen On-ramp ATMS data on RMS screen VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 2/3/48

Trailer Number: 110

Trailer Location: NB I-5 @ Jamboree Road

lem	
ber	Comment/Description of Problem
1	
2	
3	
4	
5	,
6	
7	
<u> </u>	
16	
17	
18	
40	
20	•

Date: /3/98 G-77

VIP Availability and Believability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

Time	Operator's Initials	Mainline Loop ATMS 5-min Avg Data Vol Occ Spd	5-min Avg Data	Mainline VIP Data Correspond to Visual Check Vol Occ Spd	On-Ramp Loop ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP ATMS 5-min Avg Data (Not Applicable)	On-Ramp VIP Data Correspond to Visual Check (Not Applicable)
8:26	CN	<del></del>	- 0.00 0.00	No Regions	All No Response		
8:33			- 0.00 0.00	No Reyouse	All No Response		
8.38	V		- 0.00 0.00	No Response	All No Response All No Response All No Response		***************************************
	<u> </u>			•	•		
			'				
		Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market					

<sup>/ =</sup> positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

Μ

x = negative response (camera image not available or control not available)

VIP Availability and Believability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 2/3/48

Trailer Number: 111

Trailer Location: NB I-5 @ Culver Road

m	,
<del>e</del> r	Comment/Description of Problem
1	
2	
3	
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14	
15	
16	
17	•
	· · · · · · · · · · · · · · · · · · ·
18	•
19	*-

#### Appendix H:

#### Ramp Meter Operability Data Sheets for I-5 Test

Data sheets are ordered by: (1) north to south sequence of evaluation sites as Grand Avenue, Tustin Ranch Road, and Jamboree Road and by (2) date data were acquired.

This site has an overflow Ramp Meter 36 Woop that can be seen from VIPI Camera. Ramp Meter 368 Operability Auto Scope S/W Versin 4.05

H-3

Time	Operator's Initials	Ramp Meter "Signal" On/Off ()	Ramp Meter "Meter On" Sign On/Off	USICA R.M. defection. VIP Camera had be Vehicle Present Treatment	Vehicle Absent Treatment	Ramp Overflow	modert of Re
5:55am	TL	On O	0 n	X2_	X2		
:15 am	TL	On	On	V			<b>.</b>
130 am	TL	On	On	V			
,:40 am	TL	On	On	X 3	<u> </u>		_
;53an	TL	Un	On	X4	X4		
7:05 am	TL	On	On	~			afterebor
1:45 am	TL	On	On	~	<u> </u>		_
3 in am	TL	٥	On	V	V		-
1:00 am	TL	On	Ch.	V		No overflow o	I the test
130am	TL	On	On	V			
$\sim$			<u> </u>				‡
+30pm		ON.	ON			<b>_</b>	_
500	TL	ON	ON	/			_
600	71	ON	ON	~	<u> </u>		- 100
100	TL	o N	ON	V			8/lone: 1 TOD MOD 16: TOD MO
800	<u>TL</u>		6 <i>N</i>			<u> </u>	1/4:
1900	TL	Tuned off	OFF	V			- OD MO
		1	1				

/ = positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box.

x = negative response (camera image not available or control not available)

Describe or comment on reverse side.

7:15am dark
7:15am dark—cdurch vehicles aren't activating Page 1
(raised) maintine VIP detectors positioned over middle. I lane (which has a darker color), repositioned bettom detectors in lanes 142: Autoscope now detectors more dark vehicles; but still missing some.

### 4-4

Ramp Meter Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:

Trailer Number: 368

Trailer Location: NB I-5 @ Grand Ave.

Problem	Comment/Description of Problem	
Number	Chilly in the "True of Don" to ble with "True the Re	5.2745114
1,	Controller is see 15 run / me-or Day (abre with france)	OI JOS WACCI
2	Green/red on signaly fell behind commands issued by 170.	Kelouted The last
3	Controller is set to run "Time-of-Day" table with "Traffice Re Green/ves on signal readfell behind commands issued by 170. Same comment as on line 2 - beholfed 170 to green ball to	restair bycle. Han I help
4	Robot NACC: Fixed problem.	
5		
6	·	
7		
8		•
9	· · · · · · · · · · · · · · · · · · ·	
10		
11		
12		
13		
14		
15		
16		
17		
18		
19	· ·	
20		

Page 2

Ramp Meter Operability Check Data Sheet In Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date: 1/22/98 Thu.

Trailer Number: 368

Trailer Location: NB I-5 @ Grand Ave.

Time	Operator's Initials	Ramp Meter "Signal" On/Off	Ramp Meter "Meter On" Sign On/Off	Vehicle Present Treatment	Vehicle Absent Treatment	Ramp Overflow	] Metering Mode
0545	TL	OFF	0FF	N/A	W/A		]
0550	TL	<b>WN</b>	WN	<b>V</b>	V		TOD 1
0605	TL	ON	01/	<b>V</b>	/	16,16,22,16,	ML Resp. 1
0630	TL	ON	oN	/	/	16,16,22,16, 16,16,16,16 16,16,16,16	] · '
0700	TL	01	ON	V	/		TOD.
0730	TL	O IV	oN	V	V		TOD (DAY TABLE
<b>08</b> 00	74	ON	o N	XI	Χı		
0910		,		X2	ΧZ		
0915	7し	ON	0 N	V	✓	16 18, 16, 16	
०१३०	TL	٥۴۶	OFF	N/A	NA.		
1430	TL	ON	ON	✓ <b> </b>	✓ ·	16, 16, 16, 16	
1500	TL	ON	No	/	/		T. O.D. 16
1530	TC	ON	6 N	✓ <b>/</b>	/	16, 16, 18, 16	
1600	71	ON	ON	<b>✓</b>			T.00 16
1630	TL	910	6 N	<b>√</b>	<b>✓</b>		TOD 16
1700	TL	01	oN	<b>V</b>	<b>✓</b>		TOD 16
1730	TL	оН	011	<b>√</b>	/		TOD 16
1800	TL	DN	ON	✓	<b>/</b>	16, 18, 18, 16	· ·
1830	76	01	014	×3	/	18/18/18	]
1900	TL	01/	014	X4 /	✓	18: 18: 18: 18	] .

<sup>/ =</sup> positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box.

Describe or comment on reverse side.

x = negative response (camera image not available or control not available)

H-6

Ramp Meter Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:

Trailer Number: 368

Trailer Location: NB I-5 @ Grand Ave.

oblem umber	Comment/Description of Problem	
1_	3-4 sec. delay in signal head following the 170 command. Fix from In	rs was to change digital
2_	Delay corrected e 9:10 AM	- input board delay for 5 sec to 100 msec.
3_	Autosione did not defect "demand loop" twice.	- Old Lolan Lympel an
4_	After 170 changed out of Ramp Metern C 7pm. WACC did not	- interrupt - ment from
5_	recognize it and continue power to Antoscope & comeras.	- Sedge triggered/to poll
6_		- [ unterrupt which ]
7_		- dropped
8_		· ' '
9_		- Sconfiguration which
. 10		does not require as
11_		
_		-
		-
		-
-		-
		-
		•
	1	•
18		•
20		•

Cable harness to boom mounted components is to short. The end at the trailer roof has pulled the water-proof fitting out of the roof. The trailer when it rains.

Page 2 Ruth will now leak into

Antoscope Ver. 4.05

Ramp Meter Operability Check Data Sheet In Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1-27-98 Tul.

Trailer Number: 368

Trailer Location: NB I-5 @ Grand Ave.

Time	Operator's Initials	Ramp Meter "Signal" On/Off	Ramp Meter "Meter On" Sign On/Off	Vehicle Present Treatment	Vehicle Absent Treatment	Ramp Overflow	
0550	TL.	ON	ON	/			To
0600	TL	ON	ON	V	~	27.28-1,27	
0735	TL	0 <b>N</b> /	0 1/	V		16 TOD	]
0800	71	DN	014	<b>✓</b>	<u> </u>		]
0830	TL	ON	ON	V	/		
0900	TL	0~	ON	V			_
0930	76	Metering OFF	OFF	NA	NA		_
							1
1430	TL	ON	ON	V			]
1500	74	ON	0N	V	<i>✓</i>		_
1530	TL	ON	ON	<u> </u>			
1600	TL	ON	ON	✓	V		]
1630	TL	ON	011	/			
1705	TL	011	0/√	Missed/ coll			_]
1730	76	ON	011	missed 2 calls	V		
1800	TL	011	011	~	/		
1830	TL	0N	O1√	missed / call			_
1900	TL	01V	ON	~	~		
							] -
							7 .

/ = positive response (camera image available or control available)

Note problems/difficulties by placing a # in appropriate box.

x = negative response (camera image not available or control not available)

Describe or comment on reverse side.

Ramp Meter Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:

Trailer Number: 368

Trailer Location: NB I-5 @ Grand Ave.

Problem Number	Comment/Description of Problem
1	
3	
4.	

AM/PM. Jaily.

Ramp Meter Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1-28.98 Wed, 1-29, 2-3 Trailer Number: 368 Thu Tue.

Trailer Location: NB I-5 @ Grand Ave.

	Time	Operator's Initials	Ramp Meter "Signal" On/Off	Ramp Meter "Meter On" Sign On/Off	Vehicle Present Treatment	Vehicle Absent Treatment	Ramp Overflow	
-8	0630	T.L.	ON	ON	/	<b>/</b>	<b>√</b> 0.	TOD 16, LR 22
18	1645	TL	ON	OH	V	~	LOCAL RESPONSI	ve 0.17
,								
;	0730	TL	ON	OIY	~	/	NO.	
	1800	TL	ON	01/	Missed two cons.	V	ND.	
/4	0915	74	ON	ON	V		NO.	
	1845	TL	ON	014	V		NO.	
						· ····		
						·		
			,					
						V-7		

/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

H-10

Ramp Meter Operability Check Data Sheet In Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Hourly.

Date: 1/28/98 Wed.

Trailer Number: 369

Trailer Location: NB 1-5 @ Tustin Ranch Road

Time	Operator's Initials	Ramp Meter "Signal" On/Off	Ramp Meter "Meter On" Sign On/Off	Vehicle Present Treatment		Ramp Overflow
0550	TL.	ON	NA	Missed 3 gars	Y65	7001
0600	TL	011	N/A	1		<u>70D</u>
0700	TL	0.0/	N/A	Missed 5 cars.	~	TOD
0 900	76	6 N	: N/A		V	TOD
1500	TL	ON	NA	/		
1530	TL	ON	NA		0	
1600	TL	ON	NIA	0 /		
1700	TL	ON	NA			
1800	TL	<i>01</i> √	NA		/	
1900	TL.	Tuned OFF	NA			
					1	

<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Ramp Meter Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1/28/98

11-4

Trailer Number: 369

Trailer Location: NB I-5 @ Tustin Ranch Road

roblem	
lumber	Comment/Description of Problem
1	After sunset, Autoscope detectors mostly rely on wehrele headlight
2	After sunset, Autosupe detectors mostly rely on wehrele headlight. I for detection. Therefore, if detector is not set up in path of
3	headlight trail, there could be no detection.
4	
5	
9	
10	
20	

11 94

Ramp Meter 369 Operability

Hourly-Date: 1-29-98 Thu.

Trailer Number: 369

Trailer Location: NB I-5 @ Tustin Ranch Road

H-12 Ramp Meter Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Time	Operator's Initials	Ramp Meter "Signal" On/Off	Ramp Meter "Meter On" Sign On/Off	Vehicle Present Treatment	Vehicle Absent Treatment	Ramp Overflow
0600	TL	oN'	N/A	/		
0700	TL	ON	U	~	~	•
2800	TL	ON	~ l	~	~	
0900	TL	OIV	;	/		
0930	TL	Meter OFF	И			
1500	TL	014	N/A			
1600	TL	ON	NIA			
1700	TL	OH	м	/	/	
1800	TL	ON	~	/	/,	
1900	TL	Meter OFF	<u> </u>	/		
Apple of the	1. S. Carlon 1981	Property of the Control of the Control	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Ramp Meter Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 1-29-98

Trailer Number: 369

Trailer Location: NB I-5 @ Tustin Ranch Road

Problem	
Number	Comment/Description of Problem
1	
2	
3	
	;
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9_	
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11	
12	
13	
15	
	·
19	

Ramp Meter Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date:

3/3/98 AM/PM

Trailer Number: 369

Trailer Location: NB I-5 @ Tustin Ranch Road

Time	Operator's Initials	Ramp Meter "Signal" On/Off	Ramp Meter "Meter On" Sign On/Off	Vehicle Present Treatment	Vehicle Absent Treatment	
0600	71	ow .	NA	V	/	NO.
0700	TL	ON		~	/	ND.
1800	TL	ON	; N/A	V	/	Хю.
4 900		ьМ	NA	V	/	O Tes.
1820	てレ	Vie Vie	NA	~ ②	/	No.
19630	T.L	ON	N/A	V	V	NO.
1600	TL	ON	M/17	✓	/	
			·			
	.,					
						i

<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

H-15

Ramp Meter Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 3/3/98
Trailer Number: 369

Trailer Location: NB I-5 @ Tustin Ranch Road

Number	Comment/Description of Problem
<b>①</b>	Regived complaints of long back-up on to street.
<u> </u>	Regived complaints of long back-up on to street.  Missel one container truck.
3_	;
4_	
9	
10_	
12_	
13_	
	·

HOURLY

H-1

Ramp Meter Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway Date:

Trailer Number: 280

Trailer Location: NB I-5 @ Jamboree Road

Time	Operator's Initials	Ramp Meter "Signal" On/Off	Sign On/Off	Vehicle Present Treatment	Vehicle Absent Treatment	Ramp Overflow
0600	T.L.	Existing Sign. ON	Gristing sign on	/		NO.
0700	T.L.	ON O	DN	V		No.
0800	T.C.	710	DFF 3	V	V	No.
0900	TL_	ON	07-F3	~		NO.
0930	TL.	OFF	OFF		<u> </u>	NO.
1500	TL	0N	ON	/	<u> </u>	NO.
1600	7L	NO 3	NO.	~	<u> </u>	No.
1700	TL		1	N/A	N/A	N/A
1800	76					
[900	TL	<u> </u>	V	V		V
				( ; )		

/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Ramp Meter Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 3/3/98

Trailer Number: 280

Trailer Location: NB I-5 @ Jamboree Road

Problem	ì
Number	Comment/Description of Problem
$\bigcirc$	1 Red LED Signal head "bleeds" before meter goes to metering mode.
•	Vehiches were stopping instant of the signal of wait for green light.
	Red is very dear (upper head) but slows slowly after 2 seconds.
2	"Meter-on" went out after 1/2 hour. Rest reset "Watch-dog" in Enricablet.
3	5 Range trader generator could not start. Radio in range trailer lost comes whenever
	6 tracker tried to start. Hence, comm link drapped and meter is turned of.
	7
	8
	9
1	0
1	1
1	2
1	3
1	4
1	5
1	6 <u> </u>
1	7
1	B
1	9
2	



Ramp Meter Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 3/10/98 FlourLT.
Trailer Number: 369

4-18

Trailer Location: NB I-5 @ Tustin Ranch Road

Time	Operator's Initials	Ramp Meter "Signal" On/Off	Sign On/Off	Vehicle Present Treatment	Vehicle Absent Treatment	Ramp Overflow
0600	76	ON	PAHO	V		No.
9700	)	ON		V		No.
0800		011	)	0 /	/	YES
0900		014		/	V	NO.
2580		ON		V		No
1500	T.L.	01	N/A			No.
1600	)	ON		0 /		YES
1700		70				140
1800		04		0		·NO
1900		OM		/		NO.
1700						
				!		
				( ; (		

<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Problem

Ramp Meter Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 3/10/98

4-19

Trailer Number: 369

Trailer Location: NB I-5 @ Tustin Ranch Road

Number	•	Comment/Description of Problem							
	1	MISSED	"DEMAND"	CALLS	TWICE				
	2								
	3					,			
						,			
			•						
	9								
						}			
						-			



HOURLY

Date: 3/12/98

Trailer Number: 280

Trailer Location: NB I-5 @ Jamboree Road

# Ramp Meter Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Time	Operator's Initials	Ramp Meter "Signal" On/Off	Ramp Meter "Meter On" Sign On/Off	Vehicle Present Treatment	Vehicle Absent Treatment	Ramp Overflow
0600	TL	O ON.	(H) DN	M		NO.
0700	TL.	ON	ON	/		NO.
0800	TL	2 ON	ON	②. V		NO.
0900	TL	ON	ON	/	/	NO.
0930	TL	DIFF	OFF	~		ND.
500	TL	01/	011	/		No.
600	\	011	ON			TES TES
1700		ON	ON			1 1 1 1 1 1
1800		ON	DN.	V	/	NO.
1900	\	OFF	OFF			<b>₩0.</b>
				<del> </del>		

/ = positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Ramp Meter Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 3/12/98

Trailer Number: 280

Trailer Location: NB I-5 @ Jamboree Road

Problem Number	Comment/Description of Problem
D 1.	DPTIGAL-ISOLATOR WAS REPLACED WHEN "BLEEDING" & "DIM" DUTPUT WAS OBSERVED LAST WEEK
	NOW FUNCTIONING OK.
② 3	MISSED" DEMAND" CALLS A COUPLE OF TIMES.
3.4.	LONG QUEUE OBSERVED. ADJUSTED HETERING RATE TROOT 12 VPM TO 15 MPM
	BETHEUN 1600 HES AND 1700 HRS.
<b>4</b> 6_	USING EXISTING "METER ON" SIGN BECAUSE MOBILE SIGN RADIO DOES NOT WORK.
7_	
8_	
9_	
10_	
11_	
12_	
18_	
19_	

H-22

Ramp Meter Operability Check Data Sheet in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: Trailer Number: 280 3/13/98

Trailer Location: NB 1-5 @ Jamboree Road

Time	Operator's Initials	Ramp Meter "Signal" On/Off	Ramp Meter "Meter On" Sign On/Off	Vehicle Present Treatment	Vehicle Absent Treatment	Ramp Overflow
0600	TL	ON	ON	/		NO
0700	TL	ON	ON	/		No
0800	TL	ON	ON	<b>✓</b>		No
5930	74.	OFF	OFF			No
0130						
i500	TL	ON	ON	/	<u> </u>	NO
1600	1	DON	014	/	<u> </u>	ИО
1700		0 01	014	/	<u> </u>	NO
1800		014	DN	/	<u> </u>	NO
1900		ON	OM	<b>✓</b>		NO
1700	•					
				!		
				( ; '		

<sup>/ =</sup> positive response (camera image available or control available)

x = negative response (camera image not available or control not available)

Ramp Meter Operability Check Data Sheet Side Two in Support of Objective 2 (Trailers Work for Traffic Management) of Individual Evaluation Plan for Test #1 - Interstate 5 Freeway

Date: 3/13/9

Trailer Number: 280

Trailer Location: NB I-5 @ Jamboree Road

Problem Number			Co	omment/Description of P	rohlem			
	MISSED	DETECTOR						
							····	
3_								
4_		1						
5			···-					
6_								
7_						· · · · · · · · · · · · · · · · · · ·		
8			···					
9					·····			
10					<del></del>		···	***************************************
11	·							
12								
13								
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15								
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17_			···-					<del></del>
18								
19_								

#### Appendix I:

#### **Surveillance Trailer Logs**

Surveillance trailer logs are ordered by north to south sequence of evaluation sites as Main Place, Grand Avenue, First Street, Tustin Ranch Road, Jamboree Road, and Culver Drive

**Main Place Surveillance Trailer Logs** 

## Surveillance Trailer Generator Use Log: Trailer # 115

Date	Time	Generator	Person Recording	
-	(To minute)	hours (To tenths)	(Print)	
7/3/197	1310	905.4	Gen. off in auto.	T.L.
u.	1500	907.0	Setup Ascope/170, Equipo	et. Lost auto
8/4	1355	912.2	Gen oft in auto	T.C.
8/7	1015	416.6	Gen off anto. Stanted easip for testing	.Anto T.
8/7	1640	920.6	Trumed carrie off. left an	to .76
8/11	10:15	925.4	BATT = 149 V LPE 42. TURNED WACCLRADIO ON CEN- DUCE BUT FALLED, STARTED	
ir	,(	10	SWITCHED BACK TO AUTO, W/GB TESTED FROM THE TURNED	N MANUAL. N OU,
()	3 <del>-/15</del>	426,3	I com SEECAM INNEE 2 BUZ	IT. BUT DUT THE
11	/\	r (	ENERDYNE GUEC DIP NOT TUI FOUND SWITCH OFF.	thon!
8/11	3:45	928.2	FOUND SELICH OFF. TORWED OF WACCE PAPIO'S BUT GEN HAD BET STAFFEDON	L.E.D WAS REP
11	71	/1	MAD TO START IN MANUAL NEED TO CHECK SPARK R	BUT DIFFICULT
13	٨	7(	LEFT IN AUTO.	3.
8/19	0930	9346	Possilly dead on 8/16 . Jump started - Left in auto	76.
3/21	0900	940.7	Egn off. Turned egropon.	TI Genitare
2/21	1640	9463	Gen off Turned egrip off. Left in	ants 71
8/27	1330	953,6	Genoff in auto.	7.6
9/:	,		The 12 1 4 1 3 1	
9/15	0405	977.5	DC at main batt 12.15 bc	at processor
9/15	0814	u	15 11.85. Steady yellows Turned on Exhipment. & Kicked on automotical	merator
4/15	0855	978 1, 3,4	Genet Fanil DN.	7
9/16	11:00	980,5 3 king	BATT 11.83. LYG = 1/2 OIL OKAY	_
1/7	1300	982.0	Bypass 46 Zone Armed	7 4
9/30	1440	9987	Gen running in auts.	<b>ا</b> ہ ر
10/7	0810	1007.4	Gen. oft in auto	7
10/9	15:15	1010.5	EVERYTHING CK. VISIT W/ STUDENT ASST	y.&
10/16	0845	1019.1		
10/16	1530	1024.5	Turned equip on for testing in TMC Turned off legging in anto.	T.L.
10/21	1745	1031.2	SAT DRY RUN	T. C.
11/10	0945	1058.6	LPG/z. Turned equip on.	
11/10	1630	1063,2	Turned equip off	TL
11/15	1715	1069.8	SAT performed	T.L.
<del></del>				

### Surveillance Trailer Generator Use Log: Trailer # 115

Date	Time	Generator	Person Recording
	(To minute)	hours (To tenths)	(Print)
107711/7	1835	10774	Turned off egnip Lettants. TL
12/2	113a	1017.3	Gen off in into-red. Turned you in mon
12/9	1430	1110.2	Gen off in anto-red, Tured gen on mun.
			2PG Filled 12/4
12/16		1120?	Bild Filler, Spank Plus enquese LOAD BANKING
12/17		1122	LED OU RED. BUT BATTERY SKAY CHARGE
		O'ARIES \	ITHRUELI MILIESPICOCESS OFF TAILIFICE I
		PROCESSOR	TURNED ON TO AUTO. GEN STATED LED AWAY. LED TO YELLOW. AFTER COLLY
		ACTING !	A GEN MINTER WEST TO A CONTINUE ON CONTINUE ON CONTINUE OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWN
		DIFFERENT	BATTERY CHARGE OKAY
		FROM OTHER !	LED WENT BACK TO RED ??
12/23	_	11236	BAT = 7.5V JUMP STARTED BUT
			HAD SOME DIFFICULTY STARTING, PESET ALARM PHORE EUTHER IN ALLE MORE ADJUSTED ANTIENNA ON CAK RADIO
			A TUSTED ANTIENNA COLLANGE REDIC
7.7			
1/8/98	1220	1154.0	LPG < 1/2
1/14	1120	11626	Autoscope T.L.
1/19	1930	1171.0	Imped emip to standay Til.
1/21	9:00 40	1201.3	Appears to be farming often in short durations, FREE PAT 12.700 OFF
·		11	TRAILER CAMERAS COOLD BETORNED ON
			FROM TIME BUT TIME COULD MOT WIEW SAW RED LED ON 4. AD BLACK BOX
			NEEDS TO BE CHECKED BY GOMEONE
	(1-55 1)	rea more	CONSERVE FUEL GATIL PROBLEM RESPUEL LDG = 1/2+ OIL LEVEL & YZ HATCH Add MAI
	/ LEFT IN G	<del> </del>	106= 12+ OIL LEVEL BYZHATCH Add mal
, '	THE DESCRIPTION	BIEM REDOCIED	
1/21	1320	130309	RESET ANTENNA V= 7.2@64K
1/22	0540	1203,3	Turned equip to standby. T.L.
1/22	1715	1211.0	Turned off eging. Alan off, All off 128 Thined an alarm to arto 1.6 1/23
1/26	1520	1211.0	
1/27	5,2	1211.4	Turned on agraps Th
1/29	1705	1266.3	Turned off egrap. Standby TL.
2/4	1245	1295.8	1.PG 43/4 EXIII 1/30
2/5	1030	1300.8	Red LIGHT STEADY
2/10	<u> </u>		
1 . 4 + 1 4 4	D. Bunkling A.	15. 20.0	- 1120

LAST LOAD BANKING, OIL/FILTER CHANGE = 1120 +150 NEXT OIL FILTER CHANGE

# Surveillance Trailer Generator Use Log: Trailer #\_/15

ł		T 70°		D
	Date	Time (To minute)	Generator hours (To tenths)	Person Recording (Print)
	2/10/98	12:50 PM	1307, 3	R. A. Jerson - Phone was off.
Put To sleep	2/10/98	16:43 Au	1310.6	R.Anderson - Trailer Off Y-ON
10 SCE	2/11	1530	1310.6	IOFF IN TELL OILLAUTO.
	2/13	17		BATT = 11. B3 Difficult to state.
	-115		13/1.1~	Glowfiles.
			<b>*</b>	NEED TO CHECK, CONNECTIONS.
		/		Texted surp steet down then from ?
				1
4 1 10-0		19:50pm	1312,2	ROWING AND GHARGING BATT = 13.02.
Adday			, 1	DID MANUAL STOP ON GELL BATT + 13.02.  DID MANUAL STOP ON GELL BATT + 12.6 CV  NEED OIL BELOW HATCH! AND HOTOP.
0.2	2/13	18:00	13/263	RESTARTED GEN.
	1			BATT = 7.35V
	<del></del>	1500	1313,9	LED = FLASH RED SLOW. JUMP STARTED ATTER IOM YELLOW SOLD LED. 11.9V LPG filled 2/18
	2/19	1500	1318.4	TRIED MAN. START. COULDN'T. TURNED EVERT-
22	2/19		1.	B
32	2/23	1300	1318.6	JAMP STARTED EQUIDON.
n 13/22 hm	2/24	11:00	1331.8	GEU RONNING. BATT = 13.14 WO Plove & Marin
			,	ROSOF ANTENNA CAK = BV BUT 256 = 2.V
MPELSE TECH	2/24			TECK TO BATERY TO DESOFTANTE.
$\uparrow$		1		Add 1007 6:1 LPL- 5/A
\	2/-11	12.25	1227 /	BATTW/GALLEG ON = 13.18 LED = GREEN TOUNED OFF CAMERAS, GELL TORNED OFF
	2/24	12:20	13326	LOUSERED MALT, ES OND PHONE, ALLEN
7.	2/26		1454.3	RADIO V = 7.7 + 280 = 7.9V
X Stra		16:25	1356.3	TORNEDOFF WALL LEFT IN AUTO,
moved Pulse Tech	2/26	•	(1	EAST = 12.4 other Sning Gen all Pulsusch
	1/	18:00	4	TORNEDOFF WACK LEFT IN AUTO, LBG = 1/2 Albed 1002 GIFTY Removed) BATT = 12.6 offer Snin Gen of Pulstech BATT = 12.45 TORNED ON MAIN SWITCHES
	3/2	1635	1359.3	Testedernia. Turned egrop off auto. Til
	3/3	0745	1360-0	Turnoul ordequip- RM GVALLATION T.L.
•	37	1-1-	1388 3	There of ignip TL
	3/9	0710	1391-1	Turned on equip. LPG filled 3/6
	3/14	1150	1450.9	SHUT OFF EQUIP OLFUL T.L.
	3/16	10:30	14514	GENERATOR DID NOT START ON
<u> </u>	3/16	5:30 pm	1455.9	RED LED FINSHING  INSTALLED DROP OUT RELAY  LEFT IN SLEEP MODE - AUTO  RESET LOWCUT OFF RELAY IN BUD ALARM
result off	3/19	11:15	1456.0	THE DEAL OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE PERIOD OF THE
				the watell transmitted WACK
				Steve H. Yesting Software.

Extense of vacca Ecolp, tries Low Cot OFF ACTIVATED INCOME.

### Surveillance Trailer Generator Use Log: Trailer # 115

1	Date	Time	Generator	Person Recording	
		(To minute)	hours (To tenths)	(Print)	_
	3/19	1650	1461.3	Turned gen off. LPG 34 Turned all ignip off, incl. el	&ARIES arm, T.L.
	3/21	1035	1461.3	V=123 LPG 344 All off.	•
	3/30	1430	1461.3.	Started gen manually. O K. Tuned it off after 2 min	T. L
	4/10	1130	1464.3	Traned it off after 2 min TRAILER BOOK (MAIN) WAS FIXED DROP OUT RELAY	DEN BA
	5/5	1100	1464.7	START WORK - EQUIP	par'd RyA
\ <b>.</b>					
M	4/23		(1464,3)	BATTERY FOR STAFT UP. ALLO D	DGEN LOAD
	11		)(	BANKING AND OIL LEILTER	·
Ţ	4/29	Thur		ROOF HOOD INSTALLED	SEN VENT
_ <b>→</b>	5/5	Installed New	GV X Z GEL BATTE	@1470.0°	
00 NOT ,	5/5	Rewired - Trip CK Statulings & A	tand Ballain Cl	Atle in to AUX BATTER	RY BIA
	5/5		14-76.0	FINISHED SETUP LEFT ECUIP	ON, ARIES INDET
	5/0	18:30	14700 574	RIFO GEN STUTON - 6.18+6	۰,۱ <sup>۳</sup>
	517	7.30	1484.6	TURNED GEN DEET SMAL	BAT 13 FRIE
	5/7	3.50	1484.8	GELBAT 6.5. +6.55 GEN	PA PM.
	5/11	1500	1507.0	LPG 3/8.	T. L
	5111	1700	1507.5	ADD OIL TURN THE SYSTEM OFF	PM,
	5/12	11:00	15=7.5	PHONE NOT WORKING STARTED GENERATUR	PM
	5/12	16:00	1512.2.	6.70+6.74 GELBAT.	0. Mg. 🛎
	5113	17.00	1512. 2	NOT FLASHING.	1
	5/14	13.3-	1512.2	GEN. BAT 623+6.23	1
	<i>;</i> (	19:25	1513,1	FINISHED DISCUSSION GROWN LEFT BIPASS ON, LAK RECKN	MAKE COLO
	5/15	11,05	1530.9	LOTOFE RELAY ON NORMALA	I CFE EXCEPT
	5/18	1300	1604.2	Move trailer to Corona Mighty Moven	AUTOBER
				, ,	_
					_
					1
•					
		<del></del>			

10/5/98: Tades: Propane costs approximately \$1.75/gallon.

**Grand Avenue Surveillance Trailer Logs** 

Date				
0/30/07	<del>'</del>			
,			Pat 124 12/7	
		568.3	In Auto. Conditions ok. W	,11 perform
//		578.0	T.L.	011 0 2.
11/13		6429	S.A.T. Done T.L	
11/14		6539?	TURNED ON PLADIGUACC	
11/15	8:30	6539	LPG = 1/2. Added 2020il.	
11/17	1822	6645		aulo.
			, ,	
6/20		671,9	BATTER 4 = 12.35, AUDED 21 LAG = 3/6+,	-60201C
U		FOUND RAMP METER	TAMP METER FISTARTED GA TO MINUAL BEFORE TURN	ING ARIES
11		REAT = 12:95V	PROCESSOR ON . WAITED 1-2 SWITCHED TO AUTO.	MINDTESTHE.
12/2	726	699.3		7 L
124	1700	708.1	1	T. C
12/9	NOON T	715,8	LPG 3/4+ , Add 2-302011.	
Raup	Meter Doad			
4 Turn	WORK all Switch	es including Aries	5	
RAMP	LP6=1/2			18
17/11	11 30	719.9	1 COMINGING CAL PAR	GEORGE
,		· · · · · · · · · · · · · · · · · · ·	AIR FILTER OKAY. A	
		ν,	CHANGED CHARKIBLUE	157MENTS
12/15	0915	7287		
12/16			ZOADBANKING DONG	JAE
12/17	8:00		Found Generator Charging.	1 40050
12/23	11.00	``````````````````````````````````````	DECERTE CONCES IN ION	1
12/29	1400		For addered 12/26 420-511	T.L.
12/30	0900	778.8	Genoffin anto. Run 3 hrs test on autoscon	e 7.C
12/30	1500		l ¥	
1/6/98			DFF IN AUTO.	
1/8	1100	804.2	10 auto. LP6 = 3/4-	
	11/13 11/14 11/15 11/17 11/17 11/17 12/2 12/4 12/9 12/16 12/16 12/16 12/17 12/23 12/29 12/30 1/6/98	(To minute)  9 30 97 15 25  10/15 15 05  10/15 0845  10/20 0955  11/13 0915 - 1740  11/14 1820  11/14 1700  12/2 124 1700  12/4 Naon +  Ramp Meter Doad  Turned of the all Switch  RAMP LPG = 12  12/11 1/30  12/12 0915  12/13 1400  12/29 1400  12/30 1500  12/30 1500  1/6 98 0810	(To minute) hours (To tenths)  9 30 97 1585 532.6  10/b 15 05 546.7  10/15 0845 568.3  10/20 0958 578.0  11/13 0915 -1740 642 9  11/14 15 8:30 653.9  11/17 182= 664.5  11/17 182= 664.5  11/17 180 705.1  12/2 126 699.3  Turned of Ball Switches including Aries RAMP LRE YE	(To minute) hours (To tenths) (Print)  9 30 97 1525 5326 Gen of minutes. The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state

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1	Date	Time	Generator	Person Recording	
	Date	(To minute)	hours (To tenths)	(Print)	
	1/13/98	1020	817.0	OFF IN AUTO, Starp. 1 gen	76.
	1/19/98	1700	857.9	Tuned eging to standby	Tested R.M. T.L
	1/21	0550	892.7	Started R.M. evaluation	T.L.
	1/21	1830	905.2	1	<b>ブ</b> ム
	1/22	1900	929.6	Tuned off equip. Alam	anto mode.
Į	1/23	0950	932.8	off in auto.	TIL
	1/26	0900	999.5	Has been running for 3days	
	1/27	<i>553</i> 0	1011.5	Genrunnand Started equip for RM	7.6
	1/28	0625	1038.1	Gen running. Meturing	76.
	1/28	1645	1044.8	Metering.	T.C.
	1/29	1700	1068-5	Metering	76.
	1/29	1915.	1070.4	Turned egnin off. Anto.	T.L.
	2/4	1230	<b>新约约</b>	LPG 3/4. Filled on 1/30. Die	T.L. to start
	2/5	1230	1075.8	FAND I KIN FLASHING REDA	
	11	/ \	· · · · · /	TUMP STARTED & LEFT TO CHARGE UP	
	, 1	, (	L L	HAD DROPPED BELOW U BUT ALARM WELL OFF W	orking threshold
	٠,	١,		RAMP METER DOOR	
	(	, (		BATT= 12,75 mfler 5 min	•
		16:00	1079	BATT = 12.84 GEN RUNNING.	Switchen TO
	219	14.45	074.8	NO DOWER INFORMATION IN	
	2/11		71	BATT = 402V, JRYJUMPS LP6 = 3/4	
	2/17	1440	1173.1	Gen runary Arel & turned of Turned ARIBS sol Left in any	WOLEUS .
				Auto sen doesn't sento start	d qual equip of
	2/23	1620	1173.6	Turned gen on . Genfixed 2/21 Turned equip on.	incl. phone.
	2/25	915	7. [ [ ] ]		l e
	2/26	14:45	1206.9	FOUND ALTER AN EABLE	_
	,			CILED HOLES WITH OILC.	ALL CONVECTI
	2/26	15:05	1207,2	OILIN GEN TES FOIL.	
Ì	2/26	16:45	1208.9	RESET the AMESFIELD OUT OPERA	TION OK OF
Ī	2/27	1440	1208,9	CHECKED OUT OPERA Teoted RM. Ramptrodes LPG < LT LOWER GREEN BULB BROKE	1/2 - TIGHTEN GE N. DOOR ALARM
	3/2	1530	1209,0	De a la part Marie De la VI	T.L. WIRE

TWO NEW -

	Date	Time	Generator	Person Recording
}	7/1	(To minute)	hours (To tenths)	(Print)
	3/4	1845	1234.8	Genrumn ganto. Equip ON
>> & FILTER -	3/5	0570	1236.8	R.M. Signal out of signs with Mo
1243,7 3/5	315	1900	1246.5	Tuned of emin
L	3/9	0650	1249-7	Turned eprip og TC
	5/10	130	ia71.0	Put Trailer in MAD. RIA
	3/12	9:25	1294,9	BATT = 12.44 GEN ROUDING OF ON SURV. PAMP HETEKING TRAILER LOT PRERATING
7	/1	1	21	64K RADIO 7,2 -7.6 VOLTS ,
		12,00	1296.4	BATT = 1298, GEN OFF OIL VERY LOW.
			DATA ON LAPTOP	CAME AUT WISTENE HUIDENCA TO
		1/100	1297,4	BATT = 13.16V TURNED BEN OFF
	3/14	1130	1322.7	BATT = 13.16V TURNED BEA OFF SWITCHED BACK TO AUTO. BATT = 12.6V CAM CA. ADDED OIL SHUT OFF EQUIP. LPG < 1/2 T.L
	3/17	0545 .	1322.7	LED SOLID RED. TURNED ON EQUIP. GEN DIDN'T TRY TO START, START GEN MA.
				4PG-P: Ile d 3/16 Adjust autoscope loops
	3/18	0700	1344.7	RM ON. T.L.
OIL >	3/19	1100	13646	WHED OIL FROM POROM OF HATCH .
			176 F 10	TROK SPARE BATTERIES TO
170 New Softw	3/19	18:30	13679	PORNED OFF 170 "OF41" STOPPED RAMP
NEW SOFTW	11	/1	11	STEVE H. TESTING COFT CAR
	3/19	1645	1368.2	TURNED ON R.M. T.L.
:	3/21	1000	1391.3	Gen oft · V=12.3 LPG 1/4 Tunned equip off . Added ail . T.L.
				Ramp LPG15/8. Bat 12.01
	3/24	0820	1395.0	Tuned eguip on Genstanted
		0915	1395.8	Turned equip off. T.L.
	3/25	0720	1395.9	GEN STARTED AFTER 2 MIN TL
	3/26	1700	1421.2	R. M. FLASHING GRN LED.
	3/31	13:34	1422.1	THENED EDUIPOFF. DIL OIC LED ERF. BATT = 10,200 BUT PHONE ZALARM SYS STILL ON JUMPSTAILTED
				ANTENNA BLOW OFF DIRECTION, REAL!
				296KRADIO = 4,0 V BAD,
	4/1	0830	1440.9	Genruning . V=13 .14 . shut of gen 14-12 .
	4/1	1150	1440.9	PART GEN FOR SETTING RAMP METERING TRAILER YSETTI
		1300	1442.1	SET NEW RAMP VHIGH = 18.8 NEW PAMP VLOW = 12.0
				TERNED OFF GEN, LEFT IN ALTO WARIES, MUACCE PAPIOS ON.
	4/1		27100	TORNED OF E WACCE EGUID
	1 1	15.cc	14421	ARIES IN AUTO

Date	T	Time	Generator	Person Recording
		(To minute)	hours (To tenths)	(Print)
4/7/	38	1700	14567 16 da	Gen of yellow. 1=12.23
4/13		1545-1715	1473.4	Gen of yellows. Turned on eyas Add
4/14	,	0815	1490-1	Gen off yellow. Turned on epurp Add Gen started. Frep for RM. T.L R.M. Muning. LED Green. LPG 2112
4/14	,	1805	1499.7	R.M. Gen goen. V=13.28 LPG 3/R TMC had bad video. LPG low pic OR Gen off yellows. Turned egrip off
4/16	,	0900	1528.6	Gen off yellow Turned equip of
4/16	,	1610	1528.6	R filed Turned egripor.
4/14	,	1920	1531.5	R.M. OTF. Gen off Jellow. DIL OK LPG ~ BILL OFF GRUI
4/2	7	0745	1537.2	Battery bund dead. T.
4/28	}	0830	1537.2	Timp started. OIL changed 4/2
5/5		1830	1600,3	1E16 LOW FUEL I AMM #107
		11	/\	RANGET OF LAG BATT = 12,20
3/2-	2	9:45	1600.3	RANGET OF LIG BATT = 12, 20 BATT = 3 V P LPG = FULL TORNED OF F MAIN SWITCHES ALARM WIRE WAS PRIVED. PROPERTY
			1600.9	I I
7/14	+	09:15	1600.9	Foned trailers to Batavia T
			,	
			,	
		-		
	}		<b>1</b>	

?

Surveillance Trailer Generator Use Log: Trailer # 17368 with 109.

Date	Time	Generator	Person Recording
Date	(To minute)	hours (To tenths)	(Print)
1/19/98	1715	13.8	T. L. Turned radio to stand by
			O .
1/30/48		37, 2	GEN CHECK BATT CHECK
2/5/90	12:30	39,4	BATT = 12.0 V
2/10/98	11:40	47.Z	NO LED SIGHT ON ARIES! BAT = 4.89 V TUMP STARTED W/ARIES OFF, STARTED
i(			IDEAL WICHGLOS PAILS RESERVATIONS
, ,	12.05	72,4	THEN STABLLY CO TO BAT = 13, 25 TERRIED ARIES ON IN MANUAL THEW TO AUTO.
2/26	18:00	47.9-48.0	BATT = 12.11 V
3/5	0730	54,2	DIL DIC LEG 3/5
3/12	09:20	?	DATT = 11.74 RAMP METERN GEN NOT 1000
3/12	91,30	61.8	NOW GEN STARTED ON ITS GUN, BAT = 134 AND CHARGING, RAPIO S WIRLYRS ALL ON.
3/12	9:35?	61.8	BATTERY MOST BECHARGED OP
3/21	1000	79.0	Gen off. LPG 5/8 Bat 12V
3/28			MARIN CAME TO THE GEODOCK OS  13 FUEL 6 B ? TADRE ? CHURL BATE 40 TORNED OFF RADRE, REM, PUMPIL.
3/31	1424	90.0	TUMP STARTED, BAT INITIALL = 13,7
1	4	11	LEFT IN MANUAL TO CHARGE UP
4/1	0840	7 801	Gen DA. ARIES OFF. V=14.0 TURN OFF gen. Tunnon Aries Lill aufo V=13.2
4/1	1460 to ±		BATT = 12.67 WGEN OFF. START BEN IN MANUAL RATT V JUMPS TO: 13.64 APPLA 30-400 B = 140
71		109.6	MOBILE TRAILE, NEW RAMD VHIGH = 12 6
- 1	1 ocpm	11	AUTO, LEFT 1912 RUND ON.
4/7	1700	118.99/6dam	PLPG 1/4. Geneff Yellow. Radio on .
4/16	1630	141-5-23/9da	y VH = 13.6 on 4/14 changed.
4/30	-	166.7	BY COMMINS CAL PACIFIC.
5/5	19:00	175.8%?	CEN AUTOGRAPTED AFTER TI CHECKED WEL
•	11		ALL FOUND ON AND LEFT ON.
11	11	176.1	BATT VOLT = 18.4 HAS BEEN RUNNING A GOOD 10-15 MINUTES: STILL CHARGE GEN JUST STOPPED P
			1
5/22	POLOC	202.4	NATE: SIGNAL RELAY, SIGNAL POWER
		11 :	AND TRAPIO SWITCH ON
		14	LED CRED) AT TOP OF CHINET IS PLASHING
7/14	0915		Shut down & moved to Batavia T.L

First Street Surveillance Trailer Logs

			•
Date	Time (To minute)	Generator hours (To tenths)	Person Recording (Print)
7/29/97	10:00	908 9	GEN ON BATT 12.72V LPG = 5/6 FULL
11	1620	913.4	Turned gen, equip off. auto T.C.
11	1730	/\	La
7/30	1525	9143	Gen off in anto Tested controller Til
8/4	14.15	9267	Genot in auto Sans tarte
- 11	1530	928.0	
2/5	12.00	929. 4	BATT 11.44/11.60 LPG 1/2+ FLOOL OIL ST BENEAU F HATCH ADD 1/2 OT!
11	1 -		MAD GINCULTOR HAD DIFFICULTY IN OM
ફત	·	924.5	THE UP TO MANLAL TO -30 SECS CHECK TOWNE ! SPARK PLLEY ?
8/5	1340	929,9	Gen start failed in Stries. Stanted manually. Littingants The
8/7	1250	933,7	Gen off in man Red slow flashing.
			Jump started on in auto
8/11	9150	135.3	BAT = 7.53V COLD LET START IN HAY THROUGH OFF ALL SUTCHES LPG - 1/2 t
8/13	1500	935.7	such made - security my -
8/19	1500	1079.5	Franchist 122 - bex "GFI" OFF Turned the
		"MAIN 12V" WAS - IF	"ELECTRONICS" & "GFI" OFF Turned that
8/21	0850	1079.5	Transd 20 - and
8/21	1700	1077.5	Gen kept Stopping. Turned ignip to H. Left in mu/o T. APDED TOP OIL.
3/24	8600	1090,4	APPED TOP OIL.
8/27	1410	1090.6	OF- in and
. 8/28	1300	1092.4	OF- in auto. T.C
/	1,	٠.	LPG = 1/2, PAT = 11.18 LE.
9/16	10:30	1/24.2	31L AKAY.
	10:45	1127 5	BATT = 11,93 CPG = 1/2 FOI NO BEACK WIDE NEAR BEATH
7/2-	5 7 0 2		1
fo/7	0800	11593	Genottinanto 76
10/7	1345	1157.7	LPG filled T(.
10/Kg	11:15	11750	THEOLOGY PRINTED SONT DIRECT WHITE
/1	11	1	CHECKERED CACH PATTERN
15/16	600	1178.7	GEN STOPPED IN ANTO Th
10/21	073	1187.3	BAT DRYRUN TL

13h-s/7days) Lees 2h-yday

Date	Time (To minute)	Generator hours (To tenths)	Person Recording (Print)
11/4	110:8 9:00	1210.8	OIL : Add /3 GH Siren work of TIMC RCL
11/15	12:50	1229. 1	
11	11	(1	BASICALL CRAY, TORNED OFF HAIN SWIT. AUTOGEN GWITCH, ATTLES PROCESSOR DON'T KNOW HOW TO TURN OFF ALARI
y )	į »	1 }	SI JUST KEPT BEEPING LPE - 16 BIL OKAY TOPPED OFF W/ 4-662
11/14	2000	1231,0	SAT Performed TL
11/19		1242.6	LHARLING GKAY, BATT = 12,24 V
12/2	2766	1233 9	Found But deed Count propolent
12/16		1255,9	SPAIL PLUGS CARBON BUILD LAS
	Į.,	55	BANK LOADING
12/17	<b>}</b>	ms €1264.4	Ben Hust have standed on about 9hrs to charge up low bothery. (was 7.2v)
			TURNED BN WACC & PADIST THREE TIME
		CX.	BUT FAILED! GENERATOR DID LOTS OF SHAKING. I DID MANUAL GTARIT. SURV. CANTERA BLACK.
			FLOWD WIRE TO GEN WRIGHE?
12/23		1265,4	JUMP CTARTED B. 1 DIFFICET,
10/00	1/ 5	15 6	BAT LAS 3,5 V
18/98	1430	1306.1	LPG < 1/2
1/13	1305	1316.2	LPG 11 O'dock.  Fixed antenna control
1/13	1345	1316.4	& surv. cam control.
1/14	1345	1319.3	Autosupe TC LPG refueled 1/15
1/19	2100	1329.8	Tuned egrip to standby T. L.  BATT = 13.4 tel Go. irunal and WACCEG ON LP6 = 1/2. TRUED Read justing Anterina
1/21	0945 Am	1366.4	CHEST TRUED Read Justing Anteina Germany V = 7,60 = 7 70 Birth Jumpy scar.
1/22	1/1/0	1207 15	1 7 7 2 7.5
1/22	1645	1397.5	Typed off equip Left in alam mode. Anto LPG 71/4
1/26	1530	1415.6	LPG refueled 1/23 T.C.
1/29	1720	1471,3	T. 1 46 00 1 0 1
2/4		1526.5	Tuned of Egnip. Auto TL.
2/1/	1300	1572.9	126 //
2/13	1815	1579.3	RAT = 12.28 V BOT OIL VERY LOW
2/17	1535	1579.3	Added 1 94 of Cil. still a little low Ul LPG < 1/4. Gen off yellow. BAT 11.02V. Canit start auto.
	, , , ,		Found conn. disconnected at gen. Connect But but toolow to start. Can't imp start.
BANK COAD	ING & OIL/FILTER CI	MAKGE = 125%	1476,5 Tunned off everything, 12.3V
•	12	4NGE = 125 1400	1626.5
		,	-

OIL R FILTIER -CHANGED

Added P

LAST

Date	Time	Generator	Person Recording
	(To minute)	hours (To tenths)	(Print)
2/24	12:30	1579.6	STUMP STAICTED, BATT WAS 12, 2 BUT MUT STREAM EMODER, EAK = 7.6 tv 256 = 6.8 V
17	1)	ľ	TENRALD ON WACE LEWITCHES
2/26		1593.5	BATT = 13,03 W/CAMERAS OFF LEFT IN AU AED RED. TURNED OFF HE SE JEHET DAONES HELRE
3/2	1700	1593,8	Jump started.
3/3	0800	1600.9	Tump started. Left running in anto. Equip oft. The Tuned equip on. For Evaluation
3/7,	1101	1575 5	
		- · · · · · · · · · · · · · · · · · · ·	Trader dead - LPG Pilled 3/6 > 1/2 full
3/9	0720	1665.0	JEWIS DUT REDUCAT FLORING Dij filled Til
3/11	11:15	1703.9	PHONE NOT WOLKING TULLYED OFF WITCHES P.M. PER L.R. WANTED TO CHECK THE QK. ITWAS
			PRESURESED AND BOUNEDOUT- RAUGEIFUD WITH OIL.
3/12	9:50	1703.9	ARIES WAS ON, WARL PER OFF.  AFTER STAFF BATT = 10 22 BUT CHARGES
11	1'	11	MARN GUITCH WAS CFF, TURNED ON BAIT 125
1,	. 1	` '	THREED ON WACC & EC. CABINET L
17	. •	* 1	BATT = 12.8 BUT FOUTUNTINE \$ .05 J. E
3/12	1:15	1707.4	BATT 17.49, IN AUTOW/ LACE ON
3/12	1830	1711.4	Genstopped anto.
3/17	0800	17137	-tjendiel 3/13 Jump started trailer Lett man on. Th
3/17	1800	1 1 1	Gen by man 13.0V.
	<u> </u>	1	1 BART = 13.1 TOPPED GEN RENAMED IN TE
3/18	18:45	1744.9	LEN AUTOMATICALLY TOTALED OFF.
$\longrightarrow$		<del>                                     </del>	TOTILLED WALLE 64 KRADIC BACKON.
<del></del>	<del>                                     </del>		TRIED TO START MORETHAN 3 TIME
			TID ACT GTOP TRYING TOTORNENA
l	\		ARIES REEP TRIME TO SEP UNIT
	1,20	1724.9	ARIES BATTERY LOGOD, OR SHORT AN ARIES KEEP TRIME TO SPORT AND CHARGE BURNES FACTOR PRANTS
3/19	1:40	1745.1	LET ARE LEFT ARIS WAR & ECO ON.
3/21	1045	1764.0	Gen of - San WACK poops reducting V=12.50 0:10K LPG 21/2
3/31	1500	1840	Turged gamp. WALC Rexps reporting I
3/31	1500	1795.1	1/06 2 VA RATT = 5.8 V 64K = 663
1// 31	1,500	1/771	OIL LOW @ YZHATCH FILLED TO TOP.
			E PROM.
4,2198	3 00	1825 2	-sw.: 7- Tunner The System
4/7	1645	1825.8	V=11.83 OIL OK LN, VERT LOW. SID NOT JAMP. T
		10-10	IN 4 TOKY LUIV . SID HUY JIIFIY .

First Stz

#### Surveillance Trailer Generator Use Log: Trailer # 113

Date	Time	Generator	Person Recording	
	(To minute)	hours (To tenths)	(Print)	
4/3/48	1400	1825-8	V=9 55. LGG tilled 48 Jump started V=16.49 Genlott - Tellon. LPG ~3/4 OIL OIL. CUMMING IS CHONGING OIL	T.L.
4/16/98	1000	1843.2	Genloff- Tellow.	T.C.
4123198	13:46	1856.5	CUMMING IS CHANGING OIL	RM.
4/27	0800	18633 Thrsay	1 - 1	TIL.
4/27	1015	1864.8		OIL T.L.
4/28	1030	186Kg	Tunedequipon.	TL.
4/28	1530	1869.2	Turned off egrip.	TL
4/29	14:23	1870.2-18713	Turned off egrop. TMC Presentation Prepto move from 0,0.	C.E.
4/3 5	0415	1872.4	Prepto move from 0,0.	T.L.
4/33	1315	1873 2	Mared to Kctella \$ 5. Eans	poff TL
5/4	1,30	, 33' 3	Moved to Batavia yard	TL
			•	
	**			
				1
				1
				4
				†
				†
				1
				1
				1
		1		

**Tustin Ranch Road Surveillance Trailer Logs** 

,					•
	Date	Time (To minute)	Generator hours (To tenths)	Person Recording (Print)	
	1/24/97	1350	23.0	Brian Tankerslay	In Auto 13.5 Vat star
	6-/18/97	1620	60.4	Moved to Tustin 1	T.L.
	10/19/47	NOONT	66.4	BAT = 12.3 V 46 FULL (3/4)	90
		Hoded Some Or			12.6
		Found in Manua	Left in Manu	1	ſ.
		NEED AN	TSPRAYP		6/24-
145.60	6/19/97	1515	60.6	Gen on, Left in Aut Ramp Tale in auto.	b. WHY
goirs	6/23/97	1401	140.6	Replaced 19,2 radio Added 4 215 of 012. Troub IN AUTO VELLOW LED OU. GEN OF	T.L/8.D. 8
	6/24/97	69.15	141.1	10/ 10/1/1/1/1/2	
	11	10.20	172.0	GEN ON ! CHECKED BATS W/A	UNCAG METER
Hushes ?	()	13	1 \	ALLEN INDICATES	
VEST -	6/25/97	9:49am	155.4	GEN OFF. BAT YELT & 11.5± LED YELLOW ON. LPG & YB	2°
	1	• (	į (		EN. ALARM ON
	6125/97	1430	158,6	Repaired MOIN Door Removed yellow lights fam & SAT withoused	AP HOL
	6/26	1500	170-2	1 1 (fit	10°C'
	6/30	16:40	210.6	Alarm ON GEN START	AUTO JON
	7/1	10:40	210.6	126 1/2 TOUR ALARM OK. 2.8	
	7/3		213.0	LEU ALER DOOR ALARM DIDN'T	60 OFF
	4	11	11	ADDED LOT OIL DNEEDS	MORE P
	fi	,(	/1	AND DETECTED ATT	1C, NO STRABE
	11	5:45±pm	213.0	BOTT = 11.55/11.27 GEN DID	AT ROTTOM
	11	11	£ (	NOTICED DAMP METER GEN WAS RUNNING. LPG BARAMS BATT = 11.52/11.44V. YELLOW 71/2 HRS RUN OUGEN. LPG = Y	AF HATCH MAR
	7/8	9:30am	220.5	11/2 HRS RUN OUGEN, LPG = 1	LED ON SOLID
	/1	11	)	GEN STARTED KIGHT AFTER I BATT 2 12. C4 V W/GEN ON; NI	ALLIACT ACCULATE
	13	9:40 AM.	.6	RAMP METER TRAILER ALEX AS I CAME, LPG = 1/2 TM	STARTED
	7/8	5130 pm	221.1	BAT 11.61/11.34 V. GEM FELT SINCE A.M. GEN ON / HR. Add	HOT
	7/9	1435	272.5	OFF IN AUTO Changed EPROM. Genstant	
	7/10	1520	225.67 263.7	Runn, 22 in auto.	T.L
. J38 1	7/15	10.0D	7263.73 38.13	BATT = 11.83/11.44 V. LP6 = 1/2 TA	uk
	10	11	5 days   38h 2 8hrs?	WACE ON 64 KINDID OU.	ar et
	N	1.	28795 (2675)	GEN STARTED WHILE I WAS I AFTER 5 nin BAT = 12.60/12.27	JERE JE
	2/15	5. MISS REAL 283.7		GEN OFF. BATT 21190/1856V	A PHAL.
4,24	12/ - 7 =	283.7	بر. عدلا مر (۵۱۵)	Added 1 at Col FATT : 12.27 V GEN = TAKEN . 7 SATT : 12.27 V	dog = /8 - 100
1 %	7/4 - 16 =	1/4 used Bokes =	3+days + 4 hrs	W 10	Han

Tustin Rench Road
Surveillance Trailer Generator Use Log: Trailer # 114

	Date	Time (To minute)	Generator hours (To tenths)	Person Recording (Print)
	7/18	12:55	318.3	Ronald Law
	7/21	1415	350-37	Running gen anto. LPG Silled, - Turned off gen & gynio Left auto.
	7/22	10 15	359, 3 9 9 ms	BAT = 12 92/12 56 V. GEN WENT SIFF
Ī	11	)	, (	Added 3/AGT OIL TO NEAK - 6
[	7/22	1400		Starfed gen, nan. Let in auto. Egnipon. T.L.
	7/23	1340	371,4	Tumed coming H. Lett auto. 76
	7/29	9 30	3714	FOUND IN MANUAL ! LPG = 5% FOLL
	- 1	1 (	('	TURNED OFF SWITCH IN BROKES BAT = 6.12 V
	V	1345	372.4	Jump started. H. Lott ON unto TL.
	7/30	1440	381.0	Gen off. Egna eff. Ledt auto 7L
	8/9	11.30	393.8~9	APDED / OF OIL USED AT ROOM OF THE
	8/6	1600	345.5	Chicked into cop?
	8/7	1615	400 8	testinet off after tistinet offinanto The consol Bor = 12.0k. Lite = 12-
	8/11	9:30	406.7	EQUIP TOTOUGOOD, CAMBILLOK BUT WOCKTL
	8/11	6:00	410,2	CEFT IN AUTO. ADDY OF G. I WETHER OF AMX
	8/17	1400	515.0	Batt still O.k.
1.0 (	8/20	1640	515.0	Started gen man. Systeh to anto bend
135 Phrs.5				Attack gen man. South to anto the of Attack to the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of
	8/24	9:20	620	STARTED UP IN MANUAL. LED FLAGHING RED.  CHARGER ON. 90% GREEN LED COMBING ON &
	8/26	16:30-	627.	LEFT IN AUTO. LOC CLOSE TO EMPTY.  ALDINE ST DIT TURNED MED HANNEL
	3/24	1630	627.4	THUED OFF MAIN BRAKERS
	,'			GENERATER BROKEN
	,,		KTAPE OR NE	W CASE P MAY BE
	1'	REAGN		LPG re-upied on 8,27
14h17/6=2,2h	8/18	0800	527.4	Ger started COK Lift auto Til Alded V3 CH GIL, TURNEDON & HCC.
- Aq		0830	641.5	EQUIPMENT TORNED SE WALL FRAN
~ , , ,,,	+ 3	17 3.5	.45,4	Add 2 2 2 1
•	,	1.	, ,	1 1/33
· · · · · · · · · · · · · · · · · · ·	, "	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, - ,	
10hrs/6days	{		1	
· Less 2hm	9/16	164.00	675.1	LPG = 7/16 BATT = 12.03 MACED MAX/MIN THERMSHETER
Ü	j			CHARGER COMPARTMENT BYWN 6 HARGER & GEN COMPARTMENT WA
				Added 6-202 Oil to bottom of
				Natch Mark.

	501,1			
	Date	Time	Generator	Person Recording
^		(To minute)	hours (To tenths)	(Print)
BRIAN -	9/17			2-17-17:57
•	9/18	9:45	718.3	FOUND GEN RULING BATT = 12.857
	, t	)	7	AUTO/START PAMEL FLACTURE ORBEN. Added 1 Ct ComiMoral
	( (	(		TURNED TO MANUAL AND SHUT OFF GEI RESET TO AUTU, LED FLASHING YELL
	j i	A	C. Dr.C. 0-1	But Genes of and not extending agole
		ORDERIN LP	BIGEFUE C.	, , , , , , , , , , , , , , , , , , , ,
	9/10	1 6 t	5 4 7 (6hm)	ARMED WITH BYPASS OF LPG. DOCIZ.  DEED TO REFUEL.  FOUND GEN ON WEREEN LED. FLASHING  BATT = 13.5 MAY TEMP IN CHARGER
	7/18	17:00±	124,5	BATT = 13.5 MAY TEMPIN CHARGER COMPARTMENT BIWN CHARGER AND
	<b>)</b>	<del></del>	<del>                                     </del>	I BEN COMPARTMENT ( +134°F+ )
				CHECKED FUSE IN GEN COMPARTMEN LECKS LIKE IT WAME LOSE AGAIN
	9/18	17:20		RETAPED NOW AUTO GAIL DOT FLACHING LOCKS CHAY REED TO FIY
	9/24	10 10	771.4	Genrunge. Floshing fast red. Found turn holder lexis Left in imm
6h19/11	9/24	كا طا	771.9	Refueled both trackers  Replaced this holder. T. Lieft in a
6hrs/6 days	9/30	9:10	7779	1Added 11/3 ats oil.
	11	11	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MAN TEPLO IN TRAICER BODY = 1/8 - The
	10/2	8:45	781.2	VISIT TO TRAILERS W/ CUMMINS
	101 2	0. (7	18. 2	TO PISCUES BEN MAINTE UNDE
				VENTILATION OF CEN COMPART MENT PER CHARGER.
	· - 1			Marks Flat Temb In Trailer /OZ IF )
	ic/2	1125	7835	Tratel Conto.
	10/13	\$ 1051	804.6	Auto Gun ponel yel on. Turned gen on ton tecting. 1372
	10/14	1030	8074	Parto hen in off. In
	10/14	1250	807.4	Added oil (1/2 4+). Turned BITT
	10/16	10:50	€13, ₹	CHE = Shet O. ITH HANH GREA CANY THENEN ON SWIN HELD, HET HOUCH INT THE CA
	fş	r,	11	1 ( Z) + = 12 ( 0 Z m) CC ) AV ( WAVE 1964E) ()C
		1 4	€ tr	AT TIME TO PROMITER THE COLD MITE
	10/14	18:30	£ 13.8	ENOTPED TO CHECK STATE OF & F.  EAN ON: YOU have to Change of & F.  Tucker condition ck.  SAT DRY RUN DONE
	10/20	0827	821.6	Tuciler condition ck.
	7,	1230		Graff manto
	10/30		8437	BATI Dead · Oil Low / Add 1/2
	11/6	1418	878.4	
	11/18	1235	894.4	S.A.T. Performed T.L
	11/1/	020	89 y . y	Tuned samp on The
	11/2	9:30	940	LPG = 1/4+ BATT = 12,10  Add 1/4 & + 0:1 to top of HATCHED  (FORGET TO LEAVE LOWER BELAUSE OF SLA
LOAD,	12/9		953.5	. Disconnect Black wine (#9) on Harm
BAUKING 12/16 °	_	196 5/0 .	OIL OK+Y	(Trouble shooting False Broke Alarms
12/16 0	9(0) B	Max Tempin B	Hary (oct-NOV}	Troubleshooting Felse Broke Alarms Temp Max In Changes Compartment next to Ear wall = 128
. / 10	I GONTY LE	*	, ,	next to Ean Wall = 128

Date	Time	Generator	Person Recording
	(To minute)	hours (To tenths)	(Print)
12/23	10.00	971.2	FLOVO BATT = 9.50 WIRE WEEN DISCONNECTED: COULD IN TEMP STAN
			TUINED OFF MAIN BRIEAKERS
			COULD NOT TERN OFF FRURE
<del></del>			NEW ELEK, STANTED WAR AND GALF
			81K COMMAND OF ISEY BOARD TO
			SECTES FLLLY THARK OF 4 LIGHTS.
12/29	1600	780,1	FOUND DEAD UN 12/26. T.L. Jump started after 15 min try . LPG 2/5.
			Thered off everything, and phone & security. Left Auto sen start Istop on left running and checked the OI adjust the Antenna, LPC SILL recount the security.
12/30	1239	989,9	checked the oil adjust
	12.24	(0 (, )	Antenna PC SIL reconnet the security
			F Phone line / 88° temp
1/6/98	0800	1011.3	DIF IN AUTS Turned off phone & sking T.
			LPG filled up 1/6/98
:/8/48	_	1037.6	BAT V = 13.74 (7 DION'T TURN OFF ?)
	:	100,00	LPG = 1/2 - TUIZNED OF IN MANUAL & NESKT TO AUTO. Add
	GURAPPED (	ELLULAIT PHO	NEAT 70 343 - 9623 to Midd-HAR
1/5			
1/8	1400	1041.1	Tested R.M. LPG 3/8 T.L.
8	1700	1042.1	PUNNING BATT VOLT = 136  EVENUED OFF ALARM, CEL PHONE
	((	a	& LUDGEN, KAIN SWITCHES
	17	1,	LINTIL WE FIND OUT WHY
4/3	0120	1. 10.	Sted 10-2007 of TURNED ALL SLIVE
//3	9130	1042, 2	but Monitor and I mage at Tom Californi
		<del>                                     </del>	Chow image, 14 by word aget to par
	TADIO?		LEFT IN AUTO RHANGING MONE, WONT TO GREEN THEN SHOT GEN OFF, NOW
	TAIS	)	I SOUD YELLOW LED.
1/15		1050.0	BEN WARM BATT = 12.59 LED = YELL
		1050.4	TMC tornad on but image flickening GAK Reed to V = 7.6 about 7.5 Readjusted to V = 7.65±
	1/20		Tested R.M. 496 refuele TL
1/15	1600	1054.1	TENTE LEW YORK & AT = 13.5
1/5	1 . 141	1.146	Taken voice & EAT = 12.5
1/19	1840	10635	Tuned emip on to standby T. L. 13.4 w/600 l
1/20	.710	1076.5726	
1/21	8:20	111115	LPG = (/2-) Not BURNIUS TO FOUN OIL  LPG = (/2-) Not BURNIUS TO FOUN OIL  BAT = 13.45 V RUNNIUS RUNNIUS SUT OF LPG  MAN TO SHUT DE TO SHUT DE LPG  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE  WILLIAM TO SHUT DE LOGE
11	11	1101.8	MAY HAVE TO SHUT DOWN TO SUFER POPE
1/2-	<u> </u>		LPG = EMPTY EPOINT OIL LOW BELOW HAT NEAR BOTTOM OF STICK, Add oil close to To. Engire Had Rubber burn smell. How here!  Decomposed Alana TICKUED OF
1/22	10:50	1125.6	WEAR BOTTOM OF STICK, Add all Close to To
			been softier to let
			Disconnocted Alarm TURNED OF
			Pisconnocted Alarm TUPNED OF AFL MAIN SWITCHES OF
			mer in suffers one

Г	Date	Time	Generator	Person Recording
	2	(To minute)	hours (To tenths)	(Print)
	1/23	11:00	1126.0	INSTALLED NEW STARTER, INSTALLED PULSE TECHON BATTERY
	11	11:45	1126.4	TO REMOVE SUFFICION. IF AN EXISTS LEFT GEN RUN IN AUTO. FOREE GEN STOP, IN
	` N	1:20	1176.8	R. Anderson Aute
	1/26	1600	1197.4	Gen Stopped 496 returned 1/22 Runnary out of LKG.
8.25	1/27	0845	1197 4275	Turned equipme. LPG filled . TL
2	1/27	1700±	1254.93	Looking for Volt Meta. Lac FOUND IN MANUAL. TORNED OFF
	li	ч	•	DID FORCE STOP IN AUTOBEN BUT
	,(	<i>c</i> (	1205.1	DID FORCE STOP IN AUTOBEN BUT GENOPHTOR STRUED UP IN A FEW MINUTES SO TURNED OFF ARIES ALAPINATOR THOSE DATE TOPORROW
			ł	MODEL TO TOTAL NATES
	1/28	0600	1205.1	Turned on equipt. Started RM. T.C.
	1/28	1400	1211.3	Gen oftinanto. Then started automatically. T. C.
	1/29	0600 .	1222.3	R.M.
	1/29	1710	12.31.2	PAMP METERING. BATT = B.5 of a KK = 5
0. 5.15	1/29	1910	1233,0	Turned egnip off. Auto. T.L.
OIL FILTER >	1/30		LPG refilled. 1233.6	OIL CHANGE etc
	2/3	16:15	1233.7	FOULD NOT STATE BATTERY LOW.
	١١	/ 1	( )	TO DOED BY POSE , PROBE . P
	2/4	1700	1233.7	Jump started Left running auto . T.L.
	2/5	845	1243.8	GATIES U = 12.44, ATTEN PERISTON B.ZEV
				TRATE S.45 V. OILQ YZHATKH. TIZIED JOMPSTARTING BUL FALED.)
	2/10	11:08	<b></b>	MAFTER HOUKING UP BATTERY WENT UP TO 12.24 BUT COULDN'T START
<del>- &gt;</del>	21/14			CEFT Phote Alaume Arrey of ENELATOR
	2/17		1338,2	BATT = 13.81 Y HAD BEEL PULL IN G.
				BATT = 13.81 V. HAD BEEC PULLING. 3-PAY, West-end! LPG= 14 t ANDER OF TO TOPO HATTH WAS BEECK STICKE (AKREDIC V = 7.6-7.7. with wall
				KAKREDIE V = 7.6-7.7. With WALL
				174, ALARENE PHENE ON BATTERY = 12.3AV
	**************************************		1336.7	
				TURNED gole away from Relay live
				TUILINED TOY OR OF FROM POLICE INVENTIGE FROM THE WHAT CONTINUE FROM THE WAY AND LEFT IN AUTO . LIEDER BYPASC. BATT 12.19. TRIED STATET US MAKEUTA
	2/19		1338.9	BUT COUD NOT. TERNED OF MEM/D
	2/23	1015	1339.1	EVERYTHING OFF.
	1-3		13/11	THRNED EQUIP ON

53	Date	Time	Generator	Person Recording	1
239		(To minute)	hours (To tenths)	usem (Print)	PLUG IN ALARM .
an 14hm/23hm	2/24	9130t	1352,8	BENGFE ALL EQUID ON EX BATT = 12.37. LPG = 5/8	OPT CAMERAS
	1)		11	REMOVED PULSE TECH F (1/2) - 2/24 AMER & MOIN STARTED GEN AND TORNED	ROM BATTERY
	11	10:55	1352.9	STARTED GEN AND TORNED	EQUIPMENT
	2/26			BACKON, BATT = 12.91 GEO RUNNING, LAWERTED HAS CONNECTIONS, PESSET.	CHELKED
	2,20	(1:53	1376,6	CONNECTIONS, KESSET	+
			1377.6	GEN OFF. TURNEDOF	E WACE ETC
	2/26	18:30	13 79.8	LEFT IN AUTOGEN	4
	2/27	1340	1379,8	Tested R.M. LPG 1/2.	T.L.
	3/2	1200	1384.7	Tested R.M.	
	3/3	0710	1386.0	Tuned equip on.	T.C
	3/4	4820	1406.7	Gen unto. R.M. Evaluation	T.L.
OIL SFILTER	3/5	0600	1413.5	R.M. Grahatron	7.6
1418 ->	3/5	1815.	1422.0	Tuned of equip	7.6
•	3/8	1800	1422.1	Tuned on early	T. L
	3/9	0620	1433.5	Meteron.	T.L.
	3/10	0980	1451.9	Melenon	72
	3/12	20:00	1425.1	GENOTE, LEDY GATT = 12,34 LP6 = 36+ Laborato alo	<b>~</b>  `
	3/14	lioo	1504,1	GEN OFF EQUIP. LIGHT	T.L
	3/17		1507.0	Gen off auto . iPG filled 3/	귅
_		0835		FATT -13,09 V 64K Rd. D	VY
	3/17	0910	1567.7	DOING RAMP THE BRING PADIOS. PREBLEM W/ ZONG	열. 리 08 개 💉
				METER WEAR SOUTHIT.	
	3/18	1630	1526.6	Gen on 13V Tuned egg	RH. TC.
	3/21	0925	1554.8	LPG <1/2 Turned gen off	man 12-81
				Added ~ 14 Rt sit. Ramp Lyche 12v.	
	3/24	1145	188.1	Repaired cut cuble (signal). Twited ox	丁. し
	3/25	0738	1562.9	Turned on examp. RM star	ted T.L.
12 610	3/26	1630	1585-9	R.M. Flash nigigen.	Call
LIMBAK	3/26	1600	1565.9	8ATT = 12,6. Alarm skepld	There our
PADIO INGTHUED	2/1	6730	1540 1041	BATT = 12.6. Alore signed BATT = 12.6. Alore signed OG. 9. LOT alarmon be 1. LED YELLOW. OIL OR LPG? V=12. L	<b>1</b> /2
		,	Rumo truler LED N	ED V=11.8 START gen . n.m.n V=1	3.4
	4/7	1445	16 AU 7	Gen Str yellow OPL DIS	7
	419	9:00	1/57 (	ED V=11.3 START gen in in N V=1 2 Lett gen as minimally changed Gen Sti yellow OPL DIN PG < 12 V=12 AR BATT = 13.24 LPG filled	<u>/a</u>
	<u>-1/7</u>	1.00	1657.6	NOTE; ALARM FAULT	

NOTE: ALARM FAULT OB GON LE BAD LINEAR RADIO WIRING J

# Tustin Ranch Road Surveillance Trailer Generator Use Log: Trailer # 114

Date	Time	Generator	Person Recording
Date	(To minute)	hours (To tenths)	(Print)
4/1-	8:45	1619.8	LATT- 12 17 LEDEY LPC = )
7//5	11	11	NOTE & ALMON FAULT CEGEN DO SHOWING AFTER MAN DOR O
	t (		GEN STARTED WHILE I WAS HE
-1	, .	, 1	ITSELF.
4/20	91.45	1629.7	
4/20	1700	1637.0	Redo radio wires To
4/28	1500	16513 14hrs	18496 215
5/11	1420	16768	1.0- /-/-
5/27	9:30	1698.0	LPG = 1/2 - 34T = 12.04. LED =
6/03/98	14:00	1711,100	BATURE 5-68 SYSTEM DEAD L
27 //10			THE SYS.  OIL OK.  LIFE = 1/2 - BATI = 12.09, LED =  TOPPED OFF ONL.  BATVOL = 5-68.5 YSTEM DEAD L  STURMED OF BOTH MANGERMANAMINE  PHONE : ALARM, AH SYSTEM OFF.  ADDED OIL VERY IOW ONDIL.
			T
1			
		1	
		<del> </del>	
-			

Jamboree Road Surveillance Trailer Logs

LOAD NO Change BANKING Change BANKING Change

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C. Tell

Jamboree Road

Surveillance Trailer Generator Use Log: Trailer #\_\_\_\_\_\_\_

Time Generator Person Recording Date (Print) (To minute) hours (To tenths) 12/23/97 4.40 869 4 REACION ANTENDA V= 1.7-7.9 LPG = 14, BAT = 12.2 OIL &KAY CK APERATION FRONTAL -OKAY 2/30 884.4 9:30-11:00 1 11 11 GET. PROPE OIL FOR REFILLING GEN TESTING FRON TMC LETT A/CON. ST BG4.4 12/30 12:50 15:45 8B7.0 TURNED OFF WARE LEADING - TO STA 12/20 1/6/98 07:30 OFF IN AUTC. TOSTED GEN-STARTED CKAY f4.146=34 1/8/98 81.30 WEED OIL SOPPLY INTRA-LER. PYPONE# TO TUFTIN 343-9732 JUITCHED CEL BAT = 1230 V BID BOZ OF CHG = \$18 , TURNED ON WALC & TIME ACT 1/13/98 4:00 914.3 TURNED OFF WALL 16:45 11 アレ. Antoswork 14 1445 921.2 L.E.D on Yellow, LEET Paper showing 12 V & 12 TESTED FROM THE WORLD THE Operator Moter image very pu Switch = 922 9130 10 TV Muitor image better LAG , . . LPG 1 o'clock.
Turned exist to standby

T. L.

12.5 hrs sta / d hrs operation on
LPG = 172 Full
TESTED LOCAL CONTROL OF CAPACITY (SURV) GOOD 630 1/19 931.4 943,9 170 6130 x -6:30 1/20 BUT REMOTE CONTROL HOPPONEM. COOLD NOT.
TURNED GFF WACC to checker Oil 11 54.0 TURNO WACK LEG BACK ON. 1/21 8:00 RONVING FOLL TIME LPG = 3/4+ SET ON BY BASS 06 ton Refuelly 1/22 +/ZZ 6:45 0:45 120 TURFED OFF WACC RANDERSON (Start 24 Testing Found sellow gets falled Parties Runnick in 273 10:15 1/23 1003. 1018.4 126 1545 hunito in anto Turn 2 21 2 2 2 2 2 4 19 1/27 0345 1018.5 BATT = 13.50/13.13 WITH GON ROUNING. 8:30t 1/29 1063.9 TURLED OFF WALL ONLY LUTO BED OU FR MI BATT = 1211 @ FIRST BATT = 1291 @ FIRST

APICE Swin BATT = 1274 U @ KAY.

LPG = 1/2 - Add ? coz ail Still (c.

AFICE Smore, BAT = 17-60/18.38 OKAY.

BUT ARIES PROTECTOR LED = RED .

Measured Voltage @ Backer Aries 15 11 11 11 11 4 Green - Red 10/12 V = 12.24 30KAY / 4 16 .

12 5 ch

BUT LED SHOWS RED.

PROBLEM WITH ARIES (
BOARD OR SETTINGS

1464.0 DUT BACK TO AUTO WALC

F	Date	Time	Generator	Person Recording
	Date	(To minute)	hours (To tenths)	(Print)
	1/29	16:45	1071.1	1247 - 12 4 A April 12 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
j	1	11	(1	DID FORCE STOP BATT = 13.0  BUT after lock Pin 2 Voltage kept dreping
	٠,	\	16	down to =0.9 V
MAINT 1	1/30		1075.6	GEN MINOT BILLETER
	2/3	10 marci	1100.4.	LED = SOUD RED, BATT = 12.65 CTANTED GEN BATT = 1360 CTANPED
	11	٠,	11	COULD NOT RESET RED LED. IN LEFT ON LOT LIBERT OF ALL CONTAINER OF ALL C
		r.	11	LEFT GAL COUTAINER OF OLO
	2/4	15 45-1645	1107.3	Replaced opto isolator. OFF IN AUTO. Tested RM. T.L.
Ghes/Edeyi	2/5	1300	1113.6	Tested R.M. T. L. SOLID RED
The standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing of the standing o	2/10	9:50	1143.1	1/26 = 3/4 = CAK = 7.8V 600cl
				TURBED ON DARC 13 GED STARTED UP.
2/12	2/11	1700 .	1151.6	OFF IN AUTO - RED. GGN OK. T.L.
ING INSTACLED		915	1155.7	GIL BELOW AATCH!
				GAK PADIO 1 = 7.6-7.7 SKAY
VOLT CONTROL	2/17	i a Tour	1155,7	BATT = 11.8 7. LED SOLID RED STARTED OF AFTER TORNING EN CARRIED
				GALRICHE V = 7.81 CODD
	2/17			(NOTE Vn = 13,2 VL = 1240 in TIME)
•	. ()	17.04	1158,4	STAPE CL. LEFT IN AUTE. STILL RULLING
	1 (		//	PID FIGURE SHUTPECE, OIL SFULL.
	2/19	8:25	1162.7	BATT = 1215, LED YELLOW LAKE 7.7
	2/19	16:00	1/62.7	BATT = 12.07 TURNED ON 64K=V 7.8
				THE ACTIVATED CAMERAS
•		16:30	1163.0	TOTAMBORER CHURY, BUT ONLY COLVER ATMS VOS DATA CKAY, TORREDOFF WACCE EQUIP
				PATT = 13.02 LEFT RULLING IN AUTO
2.5%	2/23	1005	1170.4	BATT = 13.02 LEFT RUBBING IN AUTO, SOLID YELLOW GEN OFF AUTO. THRNED EAVING ON.
Ran 15/23 hors	2/24	9:60.4-	1185,3	THRNED EALIP ON.  BEN RUNNING. BANT = 15 CAV  LPG = 5/R CAKREDIO = 7.7 V  Tested R.M.
	2/24	1100	1186.9	Tested R.M.  RED OPTO ISCLATOR DUT.  LEWERIED PART CLESSILED MAST. THEY
	2/26	10:50	1212.2	COUNTRIES TEST. Added 10-70.
			1213.0	
	2/26	18:30	1215.9	CEET IN AUTOGEN.
	2/27	1300	1215.9	Replaced RED OFTO ISOLATOR Tested RM. LPG 1/2

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### Jamboree Road

Surveillance Trailer Generator Use Log: Trailer # 110

			J	
	Date	Time	Generator	Person Recording
		(To minute)	hours (To tenths)	(Print)
	3/4	1750	1246.5	Gen of in auto Egrap on . T.L.
	=15	9',30	1253,3	
	1 v	· ·		OIL AT YE HATCH. Add oil, by over filled
	11			BEC BOT ROBINGS BATF = 12.02, WATE ETC.  106 = 3/9. (4/ Rublo = 7.7 V.  101 . 4T VZ HATCH. ADD 0.1, by over filled  by excident.  4TARTED UP ON CON WHILE I WAS  CHECKING RAMP METER MUST HAVE
	11	18:00	1253,4	NOW BATT = 12.89 and changing to 13,2
CITANGE	13	<i>paon</i>	1255.4	OIL & FICTERS) CHANGE be CHAN
	_ /1	17:30±	1258	GEN OFF, TURNED WARD, RAPIO'S EX.
	3/9	0800	1262.8	GEN OFF TURNED WHER , RAPIOISEN. LEFT IN SLEEP FOR INAUTO. LPG Filled HE Turned Equipon Started RM. TL
	3/10	1630	12828	Replaced RED pota-150 Rama melanice T.L.
	3/12	8:50	13 (1, 7	18500 RAMP tratering Gen Kunning
	3/12	7:40	1318,2	FOUND RAMP Metering - Gen Kunning CAK = 7.7 V. BAT = 13. Z GED OFF, LED V. CHEKED OIL BELOW HATCH . FILLED TO TOP OF HATCH . YE
	3/14	10:30 .	1342.4	Gen ON. LEDY. TURNED EARLY OFF. GEN SHMT OFF. LPG < 1/2 T.L.
	3/16	1870 -		
	3/16	1650	1343 9	Gen off, 476 < 1/2.
	3/17	0815	1344.0	Gen of soldred Tuned on 1 grup
	3/17	08:40	1344.6	Gen Running , 176 Appear to be me fering.
	a	*(	9 (	GAKIRANO = 7.65 ± . TAPED THE SERVING STAPTED ! STAPTED! GEN 91 Out of Turned comes off FER CAPPE
	3/21	0850	1400.2	V=12.8 Filled oil LPG 1/4
	•			Turned off alamos phone to preserve LPG. Left ares on. ILED - STEADY RED V=11.95
	3/24	0730	1400,3	LED-STEADY RED V=11.95 TURNED ON EQUP. GEN STARTS AT 11-YOV
			14005	TURNED OFF EQUIP
	3/25	1540	1409.2	TURNED EDY. POPF.
•	3/24	5.30	1409,2	THE FIRE BILL AT BORDE OF EMATE TENTED OFF OIL, TEST STALLED GEN
				BAT I JUMP OF TO 13,7-18,3 ALMOST
!			1409,7	INSTALLED NEW BATTERY WITH GEN ON BATT = 13.2 - 13.4 w/ola
				ししゃしゃ とっとこいい はんき マル こしりご ぐとしょ
LINEAD O	3/26	17:30	1410:3	TORNED OFF WILLS ERNE. BETTERY VILLE duce from Trac was son and social.
PADIO (1		<b>.</b>	//	twit in Audo Change . "Sloop"
WORK	4/7	j4 10	1431.4	Gen + 42 110 W. LFG7 1/2 V=12 44 OIL OK.
	4/2	E1.30	1431.5515	TURNED ON EAVID FOIL FAUA PERO.
•	4/9	8:30	49.15	LEFT ARIES ON OLL OKAY 4PG = 1/2
	<u> </u>			HRS SEEM TOO NIGH.

HRS SEEN TOO HIGH HOLT = 12.65 AF HOW EVER NEW BAT HOLT = 12.65 AF S-10 MINS.

NOTE: ALARM FAULTS 05 Gen for 15 FUEL 8 0 ??

Jamboree Road

Surveillance Trailer Generator Use Log: Trailer #\_\_\_\_//©\_

	Date	Time (To minute)	Generator hours (To tenths)	Person Recording (Print)	
	4/15	2:30	1457.8	BAT = 12.11, LED = 4, LPG = 4/2-	
5/2045		(,	11	Still BAOWS ALARM 15 FOOL SAD	
2.21m/dog	4/20	9:30	1469,2	BAT = 12.12.64k RADIO = 7.5-7.6	
	4/25	0800	1478.8-145	Rewired radios 7.L.	
	4/25	CEAC	1486.6	TUTHED EGGIPON, TESTED FROM ) LEFT ON FOR FLITHER TESTING, TO	74
	4/28	1415	1492.1	TURNED OFF FIRMIP	
	5/11	1400	1535.1	Trailer found dead in MAN. Re 7.1 Re 14.3V. Jump started. 126 5/8 7.1	3 e .A.
	5/22	09:15	1563.0	Trailer formed dearf in MAN. 4.3V. Jump started. IPG s/8 T.L in BATT = 12.10, LED YELLOW. TEMPORATION TO TRAILER FOR DOLLAR BAT VOCTAGE = 3 45V TRAILER FOR DOLLAR	, T.C.
	6/03	13.70	1574-9	BET VOITAGE = 3 45V TRAVER AFT VO DE A GEN BAT = 13-7 AV ITURENED OF PHEALAR TOLINED THE SYSTEM OFFTUNDED AND SPECIAL SYSTEM	D
				FF. TURNED BOTHMAN ROLLS OFF. LY.	ike. L
	6/10/98	a'cu	1575,0~1	GENERATER COMPART MENT  CENTERATER COMPART MENT  TEST SHAMED GEN. CK.	٠, د
		· · · · · · · · · · · · · · · · · · ·		Test Stanted Gen. CK	
		, in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second		196=1/2-	
		<del></del>			
		- 11 M Mariana			

**Culver Drive Surveillance Trailer Logs** 

**I-32** 

Surveillance Trailer Remote On/Off Command Log Trailer III

Generator Hour

Person Recording Date 348 2

	_#	(To minute) Time	(To minute)	(Print)
3/27/97			Mannelly 12:00	Leine in Anto T.L.
3/28/97	+++-	0835	355.2	VDC. Gen of BAF
14		0900		Gen started
4/,197		0940	391.0	Turned must/antenna - L.
4/1/97		1524	393.1	Generator off BMZ
4/2/97		1203	395.2	Generator on (remete on)
4/4/97		1507	403.8	Gamerator off. BOTE
4/5/97		0817	413.2	ist in manual to unserve hel.
4/8/97		1120	413.6	Moved to Sunkist TL.
4/8		1640	416-7	DFF in Auto Left in Man TL.
419		10:18	416.8	No Small of LPG. GEN ON AT 11.834 OFFAT 13. URD
419	ļ	1610	417.1	Tunned on gent TL Filled up tank
4/10		0810	425.0	OFF IN AUTO DUT IN Man.
440	<u> </u>	0920	4252	Moved to Calver Manott TL.
4/16/97		12/00	426.0	Lowersh Mask, Ropics bottons CED
4/21		1400	463.2	
4/23		1610	4924	Running in auto TC. Camera on 29 hrs Since 11 AM 4/22 TM. Turned offman. Left auto TC.
4/28		1640	538-5	OFF IN AUTO 71.
5/1		1115	567.4	OFF IN AUTO TL
5/6		1410	621.3	OFF IN AUTO TC
5/7		1530	635-4	Running in auto. CAM ON Shut Aff & Left it man TL.
9may97		1600	637.5	Removed REW STARTS WED
5/15		1100	637.5	Man tuned on gen TL.
5/15	<u> </u>	18:38 ±	644.9	Man tuned on gen TL. SwitchED ON GEN SENARGER
19 May 97		1300	662.5	Mast Retroct Panels URD PAPER
5/21/97		17:00+	667.5	CO CHARLE BATTEDIES - LED DID NO. 1
5/22/97		88.30±	687.8	THE 16 TANK LPG. HE MEAN! CHREER LED 95%:
5/27		0700	677.8	luned on gen in man Ti
5/27/97		1242	684.6	HISTAILE + SUZEMOD + CROSSOR STARTED GEN TO CHARGE
6/3/17		3931 x =	684.6	BEN SET (1/2+486TAWE)
6/3/97		15.30±	691.6	TURNED STEEN J. 6

Culver Drive

Surveillance Trailer Remote On/Off Command Log Trailer 111

	Date	Trlr #	On Command Time	Off Comm		Person Recording (Print)	
	rparto	111	16.00	10:45	692,0		are.
	9 Jun 97		9:40gm	9:40	692.8	LEFF GOVIO AUTO TURNED GEN EN IN AUTO BUT SHUTDOWN SOON APTER	DID THRE TIMES
	6/10	111	1505	6	17,3	10Hin auto	
	6/11		1000	71	11.3	Dead in auto. There	in man: Th
	4(12		1700	7/	8	TOBET GEN	J &
						1 OC TANK FULL (3/47)	uk)
	6/19		7 to Am	71		LPG TANK FULL (3/47A BATTERY BASICALLY DY	NG (8.1 V)
	-		2	TOPIED		AUTO START PANEL	
	1/22		BUY MODE OU!	SEN C	3 · U	SECURITY SYS =	
THE TANK	6/23		1030			Left in and auto AND DIODE LIGHTS NOT U BATERY STILL PUT CHARGED CHECKED BAT VOUTLE W/	DEKNEG, GEN O.
ELY DE THEK	6/24		a6:50		<u> </u>	PARERY STILL ANT CHARGED	ANALOG METELL
· i	11	D at 11	9:50	741	1,4	LADGE BAT = 125t SMALL	BAT = 12.0±V
-	67 V15T	37 4	06455:				1
	6/25		9:10Am	7/-1	a	L.BATT = 8.01 DID A	OT HOLD CHE
	ر در یا		t i - Mari	75/		AUTO BANEL NOT FU HIGH PITCH SOUND HEA ALARM SYS = OPEN CKT	1810 JA
	25.Du 97	111	izispm	753.	ሬ	17.7.2	WED)
	6/26		0845	760		Refueled Jump Started	1
•						SAT performed Left in man	てし.
	6/26		2100	773	0	Tuned off man	]T.L.
	6/30	ai	1213	773.	(	Deno AM	
İ	c/30	111	1630	776	.4 -	Left in AUTO - A	•
? Hughes LI	7/1	111	09:45	777	<u>Ö.</u>	RED LE.A FLASHING, T GEN BUT BATTERY TOO	3. E ! was
d <u>I</u>	7/3		P:30	781	, 0	CAN'T SET ALARIMA L.BAT = 8,25V S.BAT 8,00V RED L.E.D. FLASHING.	и ·
7 VISITBY	11			11		CELLULAR PHONES FLARM D	an't work
HUGHES CHANGE BAT	 					BAT = 10,29/1006V,	GEN AFE BUT H
	7/8	<b></b>	9:00AM	790.	5-6	LP6 2 5/8 FUL LED RE	DON LE
	( (		(1)			LPG & 5/8 FULL LED RE TURNED ON GEN WOMAN S VELLOW LED UNS FLASHIN MINUTES GREEN LED U WOLTAGE WAS 1234V	LENTON AND GEN
	1(	<u> </u>		/ (		II E D CAEL DACK TO RE	NIBRALLER AND AND AND AND AND AND AND AND AND AND
	7/9	<b></b>	MIS	792	<u>.4                                    </u>	Bat died in unto 10 changed battery, is	eft running in
	7/10	<u> </u>	0900	1 811	3	Tuned gen off min.	JT.L.

LAR USAGE APONDY & TART 20 Mg er 100 6 . I'M & SONY WITH GEN BY 24 ...

# Culver Drive Surveillance Trailer Remote On/Off Command Log Trailer !!!

	Date	Trlr #	On Command Time OF (To minute) Day	Off Command Time	Person Recording (Print)
_ ?	71.0	<del>-                                    </del>	1 71		Process Billedian T.L.
HOCKE -?	7/10	111	1200	816.3	Trianged eggins on Gas standard
	7/15		09.15	869.4	OIL IN GEN FULL PAPEL IN AUTOR TO LES
			)1	la	WHEN WAS LAST O'L FITTER THAT IS
			100 100	DATE:	3ATT = 4.43 V TOO CCL.
	7/17		14:00	14	BATT = 1.4 V Je
	7/4		14.00	V.	Bat = 3.57V
	7/22		9:38		BAT = 2.5 TURNED OFF Y
	7/29		9:00	SANE	BAT = 2.89
	8/5		1:100	11	CAS : 243 LPG 'L FULL TANK COOL
	9/4		0845	869.4	III. Wat II PRODUCE TO THE STORY
	9/:	-		, 08 1.4	TURNED EQUIP ON TILL  WATER TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE
			•		BICK IN TO BLANT ON THINET SOM
	9/14	1	9:30	71	BATT = 12.65 TORLIED - MARGE OFF LED ON AUTO START STOP PAREL WENT
	1		wacc an , GAL	RADIO ON	TO RED (LOW BATT) SOON, BATT MEANING
	<del>                                     </del>		170 POLING		CHARGE NOT ON BATTERY WEED
	7				REPLACING, PARETHAT BATERIES
	9/18	1	9615		BATT = 17.85 . Charge LED NOT GREEN
	1/2.5		8:50		TRYED STARTING GEN SIT EATER SEEMS SO DEAD EVEN THOUSEN CHARGE
	1				WAS OFF. ONLY OFF OR THE TURBS OF
	٠,			/ 1	Crisices att.
	10/2	<del>                                     </del>	1600 (	FOUND NO POWER T	O MAT EQUIP INCL. HARGER BACK ON. T.L.
	16/16		10:30	THE PARTY PARTY	SEEMS TO BE WELLING I THATE FERKE
	10/21	<b>†</b>	4:45		ACCIDENTLY GET OFF ALAKM
		+	1,		CITCLED THE AFTER DISCONNECTIN
	- 11	<del> </del>			KING INDICATED ALARM OCCURED. Y
	11/4		9:45	<b>_</b>	
	11/14		0800 - 1015		HAD THE ACTIVATE CAMERA
11/24?	11/17		9:15		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ew Bellery	12/2		9:0042		BATT = 13.36 V CAMERAS OFF
J	1214				8417 = 17,36 V (4me1245 eff. blec en 4/10 + 6 Hear dains
ericl Bank	12/16			€69.8	LOAD BANKING?
	12/17		11:30-12:30	<u> </u>	CAME TO ADJUST ANTENNA TO GET MAY SIGNAL STRENGT:
					ANTENNA ALIGNMENT

11/24? Den Beller Liviel Bank

ANTENNA ALIGNMENT
AFFECTED BY 40 MPA WINGS
so MPH WINDS
Adjusted to dead 7,65±
tested from TMC, OKAY

# 

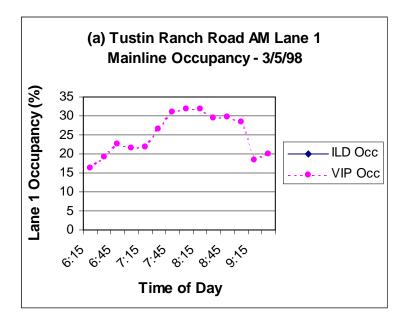
Date	Time	Generator	Person Recording
	(To minute)	hours (To tenths)	(Print) SIMPLES CONTROLLE HOW IT WILLDING
2/27	4:30 UN	870, C	TUPE SEVERAL TRES DEFAILE SIMITIME
12/23	6'00 pm	11	RECHING ANTENNE ASSET LAST STEPHEN MUST HAVE MILLED CHECK IF SMIETHM
. 1	' \	; 1	V= 76 + @ GAK Riches
12/30/97	9:25		WILLE CAMERAS AND. 64K REGION STREET 1-7.7
14 2/11			BATT = 13,4% V, STAICTIED GEN 191 HAVE CO.
1/8/98	8:15	970,0	FOIL MANY GECONDS  GTARTED GEN LEFT SWITHOU 5 SEC
		٥,٥٠	70 STAIL LPG=72
1/14	1500		GTARTED UP GEN. 1050 place charting
1/15	10:00	270,1	FOUND ALL SWITCHES FOR WACE SPERATIONS TURNED GED OFF. RATE-13.4 W/Equip
ic	1.	870.3	1
1/20	6:20 an	: •	JI TS LIGHT ON JZ LIGHT OFF ?
1/21	7:30 x cc	£70.3−5	Laws are a Coal To Bank Forth Tills & For
			STARTED GEN ONE TRY 10 SEC. BATT = 13.5/13.
1/29	8:00 An .	870.5-7	CICH MAINT AND WATER OF
1/30			VIS, T WITH RESEARCHERS BAT = 13, 7
2/5	9:00		1 1 1 4 0 0 0 1 2 0 1 20 1 20 1 20 1 1 1 2 1 2
1/2	No Noon		INVERTEL PLOGGED COMOS 100
			FOUND PROPLEM W/ DC-AL 1000 PROPLEM WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED AND WALL ACCOUNTED
2/18	9:40	@70.7~ E71,0	1974COU GEN, TEEK & SEET
1	, ,		From TMC. VI dos OH, TURE ED GEN OFF
3/11			Replaced blown 470 fire. T.L.
- 1	1640		14/2 Leadle V= 7. 70+ Good
2/,3	Cop		BATT V = 13.74V THE ACTIVATED CAMERA:
/1	11	871.0	Tested Gen - Stanted in about 10 sec Tros supertal con (singles in 9 sec.)
<i>i</i> •	• •	87/1/23	64K Rechto V = 7.6 1
2/19	9:15	871,3~	64k Rusio V = 7.6 1 To sted Suite shitetown realine (3min)c
1,	11	(1	But = 120 CAMBINS WE'RE OFF.
2/26?	91.00	811.3-6	BATI = 13.8 V. TEST STARTED GEN, STARTER
2/28 ?	9:30		LOWERET MAST. CHECKED CABGE COMPECTIONS
11	4 . 70	11	TOSH Rem Generator
			LEFT CLIP BOARDS, TEST STARTED
3/3	17:00	872.5	GEN WITHIN TENCIO) SEC OKAY
( )	/(	e72:6	BATT = 13.65, CAK REDIO = 7.84 GOOD.
3/5	91.00	872.6-873,1	TEST STARTED GEN WITHIN 10 SEC. YC
2'9	£136	€73.1 ~873.2	PATT 213.80, 641, REGULO = 7,7 6 000D TEST STARTED GEN WITHIN 10 SEC. YCC BATT = 13.81, 641, Redlo = 7,7-8 GOOD Test Starked Ge. 10-15 Sec & Start

Z/24 <u>Tue</u> Z/26

······································				•
Date	Time (To minute)	Generator hours (To tenths)	Person Recording (Print)	
3/12	E.30	873,2 ~4	(Print)  DATT = 13,73,64K Radio= Test Stantal Gen in 10500,  BATT = 13.8,64K Radio = 7.7  Test Stantal Gen in 10 5000.  BATT = 13.77 C4K Radio 7.7 E  Test Stantal Gen with BS	7.80 6000
3/17	8:30	873.4~5	BATT 213.8.64K Radlo = 7.7 Test should for in 10 sec.	1
3/26	<i>₹</i> 4₹	813,5 ~8	BATT = 13.77 tak Rate 7.7-5 Test Skerted Gen Little AS	8 *_
4/7	~UO	1 JT: U	1 15/11/1 - 13 - 1 - 14/1 - 1/14/1 - 1	<b></b>
4/20	€:.30	873,9-874.0	BAT = 13.0. 64KRedto = 7.7 Tost stated Gen by Mayou	lok.
5/22	9100	874. ~ 874.2	Tost Stanted Gen in 10 sec Let Run 10 minutes.	ok
16	11	11	BATT = 13. B. 64K Red to = 7. T TOST Shorted Gen to Mayou Tost Shorted Gen in 10 Sec Let Run 10 minutes. TMC Tasted. Video Cano N But. Moniton Hu trailer u BATTERY = 13.75. Generator Starting 64K Radio = 7.5 V	selean@7m(
6/10/98	8:45	\$ 74,2. ~ 674.3	BATTERY=13.75. Generator Stanted 64k Radio = 7.5V	10 9/455 4 444 10 Jac
			ž.,	
			·	
			,	
	•			
	,e <sup>-</sup>			
	<u> </u>			

#### Appendix J:

Quantitative Data Used to Evaluate Surveillance and Ramp Meter Trailer Performance on the I-5 Freeway



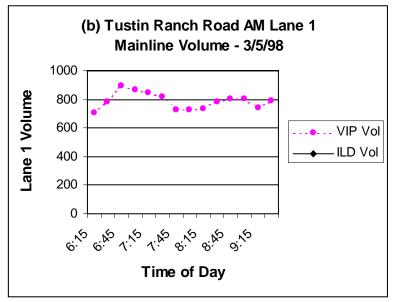
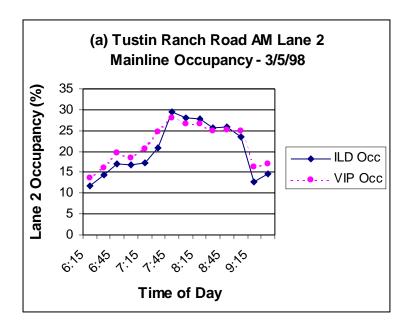


Figure J-1. Lane 1 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/5/98



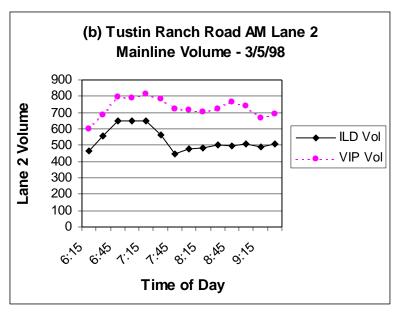
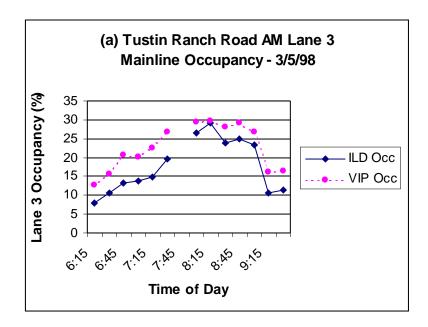


Figure J-2. Lane 2 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/5/98



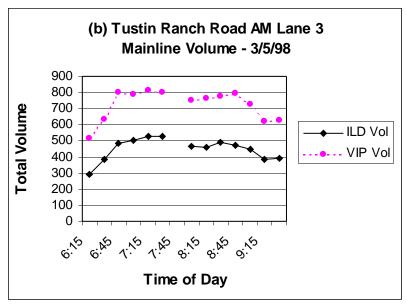
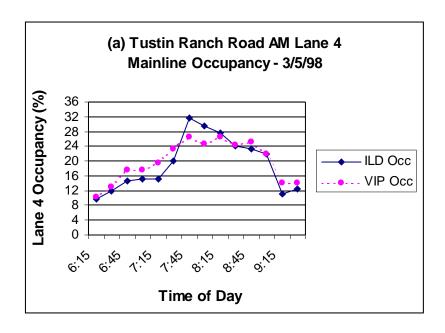


Figure J-3. Lane 3 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/5/98



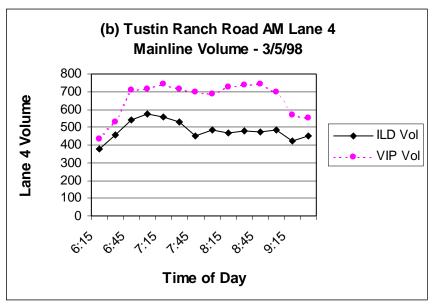
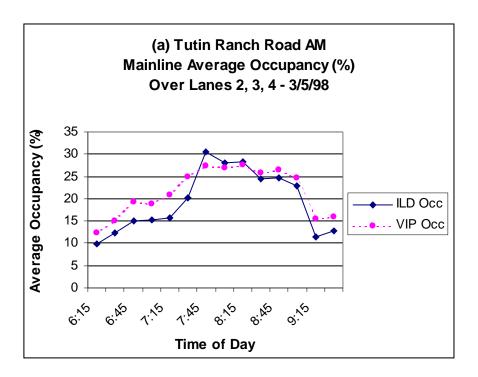


Figure J-4. Lane 4 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/5/98



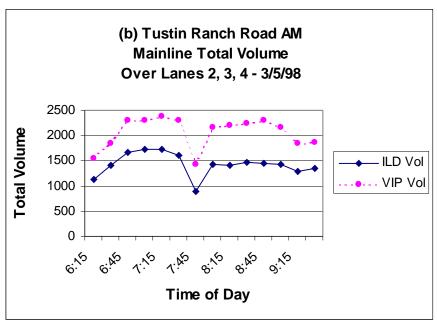
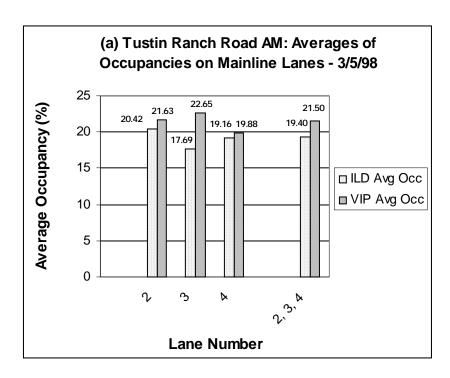


Figure J-5. Average lane (a) occupancy and total (b) volume measured by the ILDs and VIP over lanes 2, 3, and 4 at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/5/98



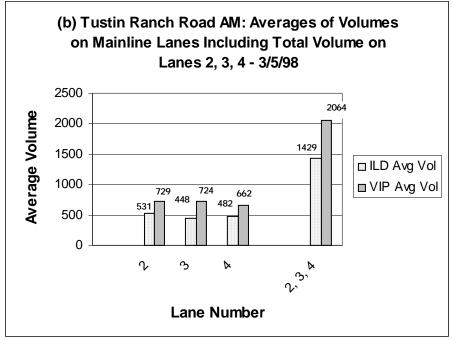


Figure J-6. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/5/98

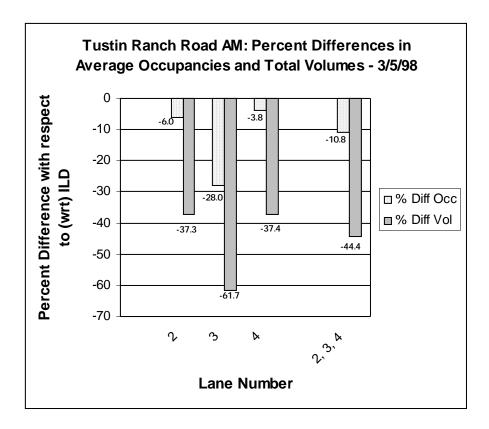
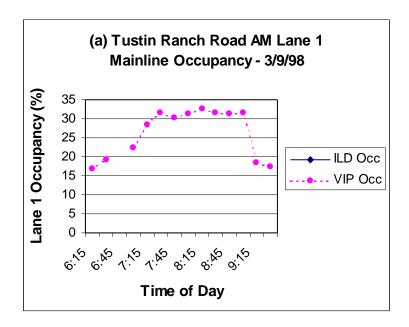


Figure J-7. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/5/98



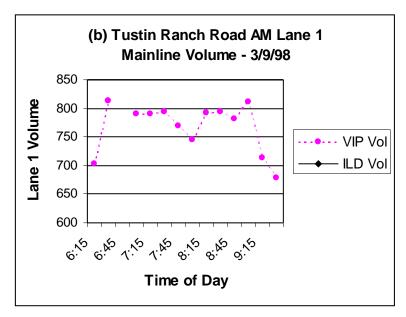
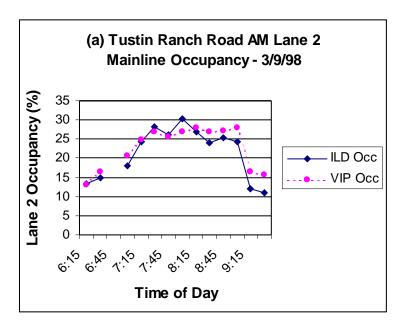


Figure J-8. Lane 1 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/9/98



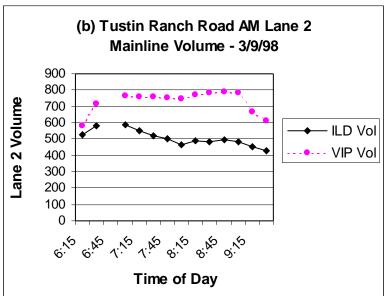
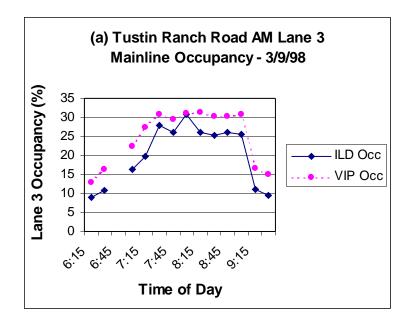


Figure J-9. Lane 2 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/9/98



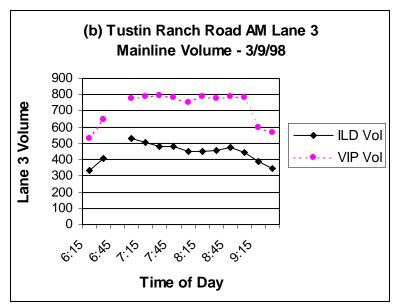
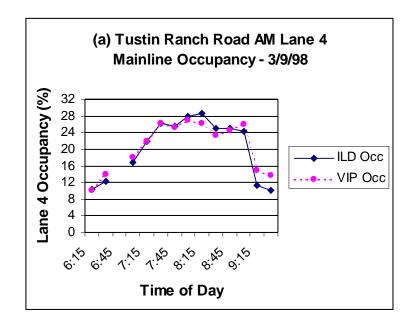


Figure J-10. Lane 10 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/9/98



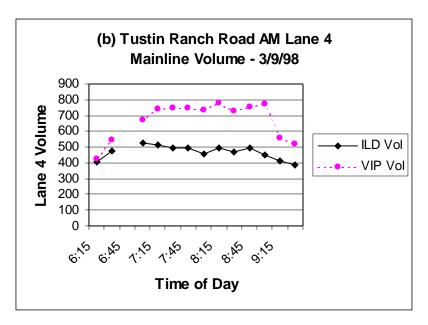
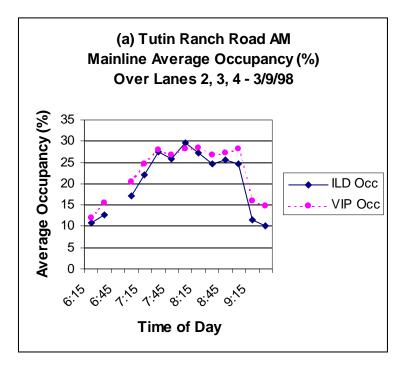


Figure J-11. Lane 4 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/9/98



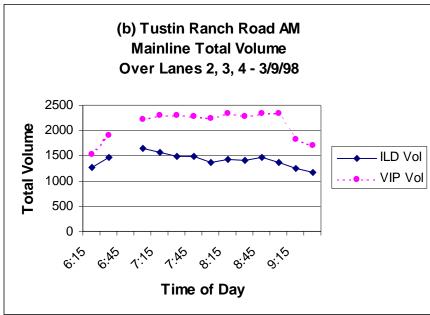
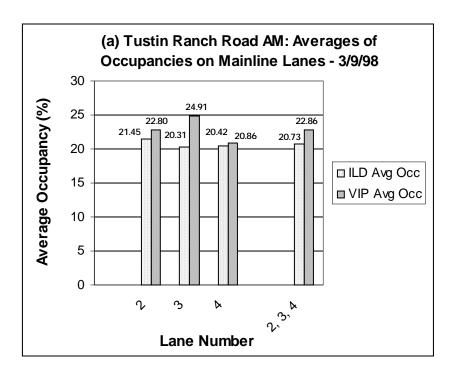


Figure J-12. Average lane (a) occupancy and total (b) volume measured by the ILDs and VIP over lanes 2, 3, and 4 at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/9/98



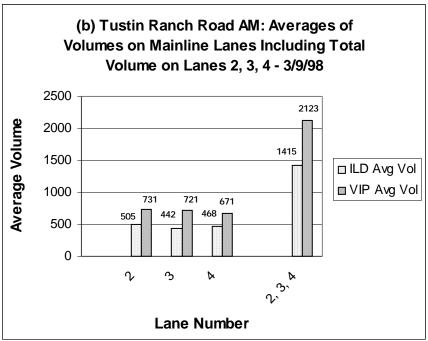


Figure J-13. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/9/98

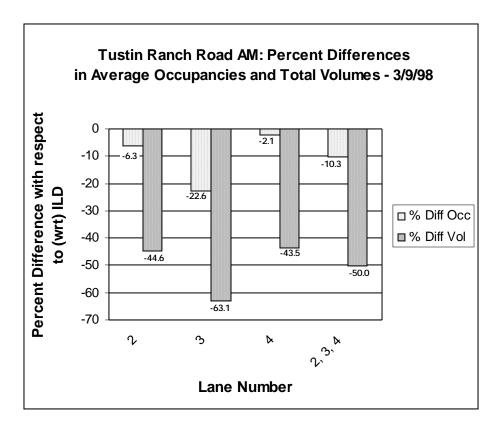
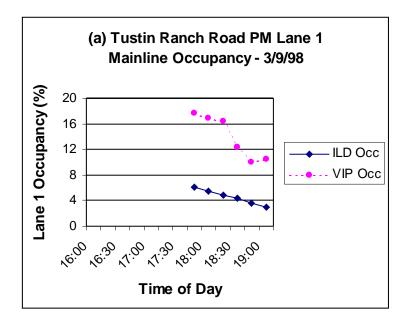


Figure J-14. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/9/98



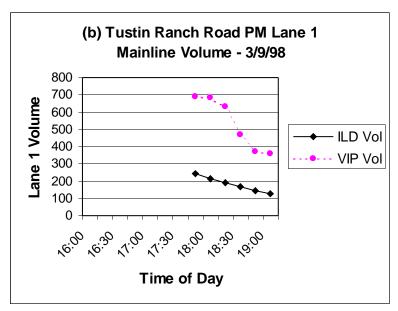
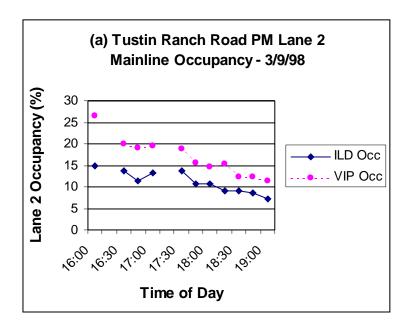


Figure J-15. Lane 1 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/9/98



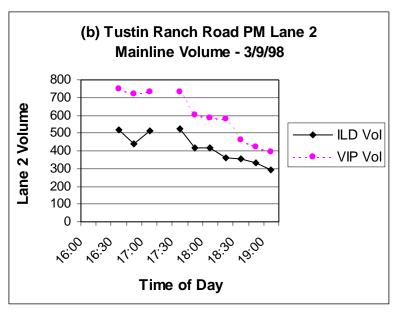
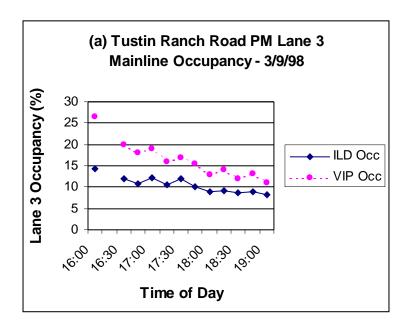


Figure J-16. Lane 2 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/9/98



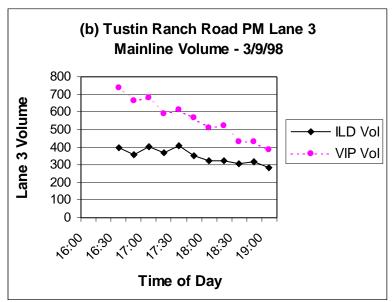
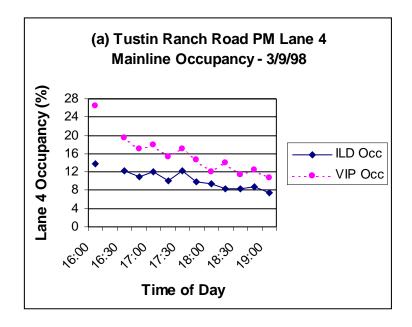


Figure J-17. Lane 3 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/9/98



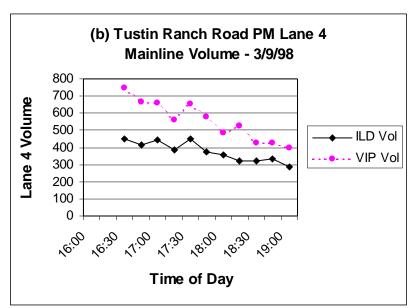
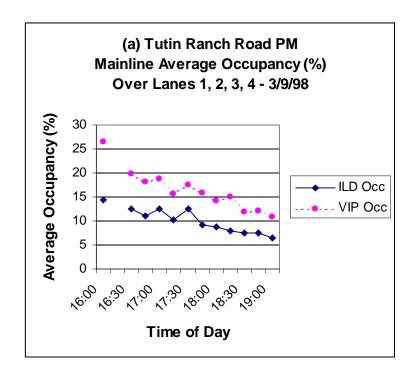


Figure J-18. Lane 4 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/9/98



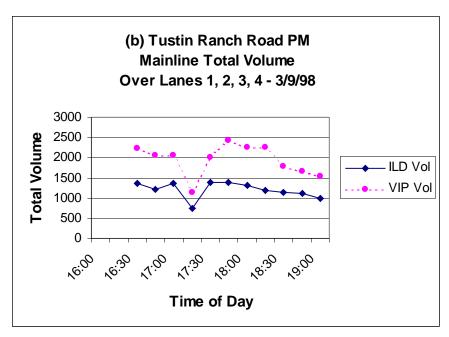
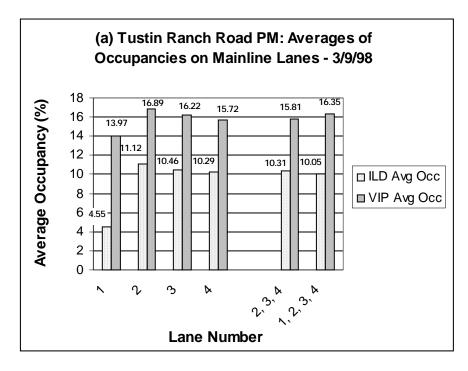


Figure J-19. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over all lanes at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/9/98



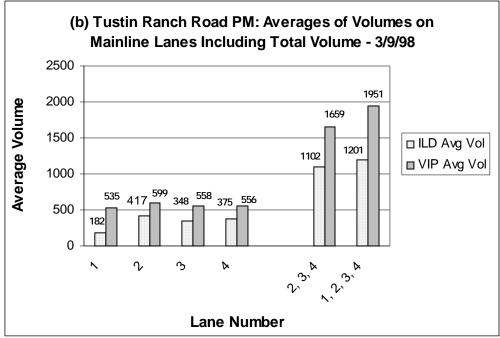


Figure J-20. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/9/98

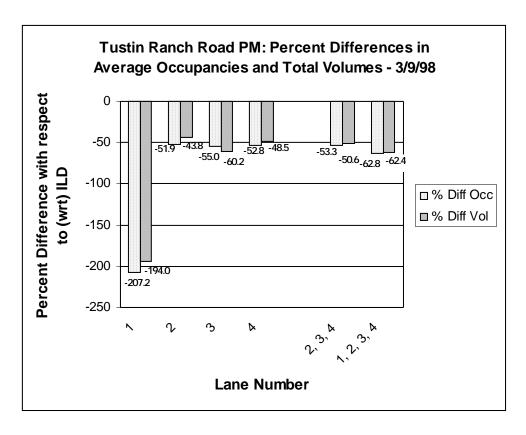
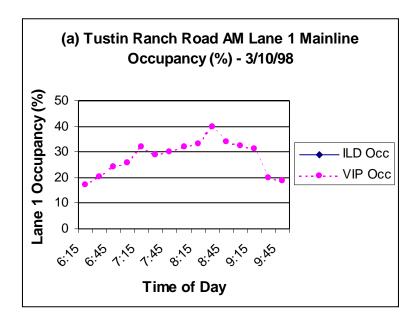


Figure J-21. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/9/98



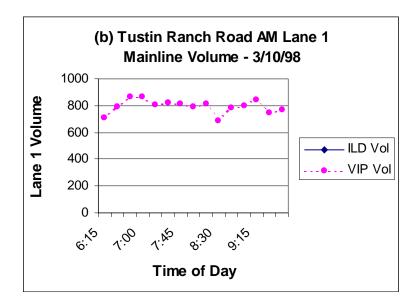
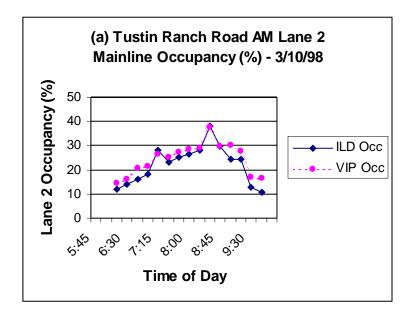


Figure J-22. Lane 1 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/10/98



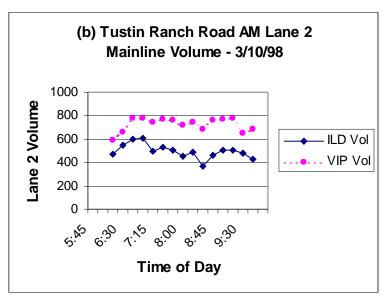
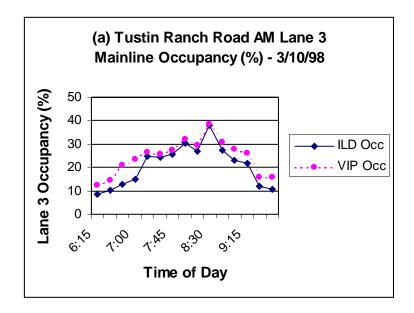


Figure J-23. Lane 2 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/10/98



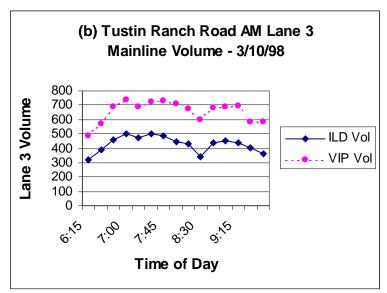
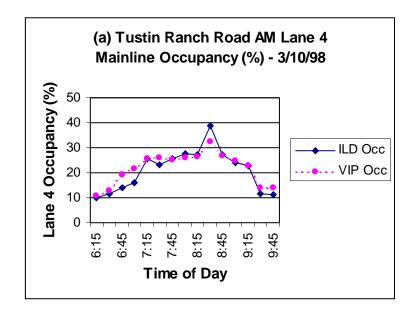


Figure J-24. Lane 3 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/10/98



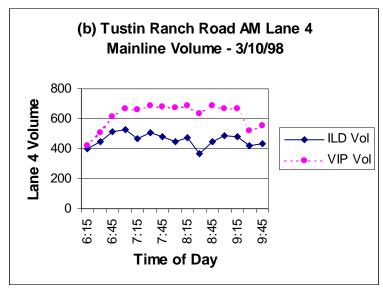
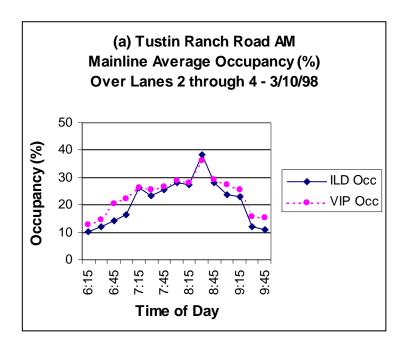


Figure J-25. Lane 4 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/10/98



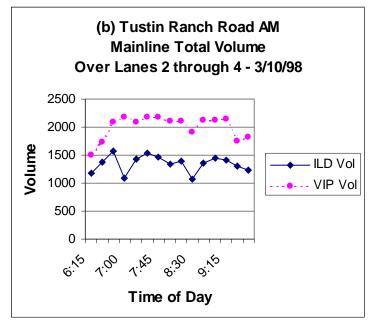
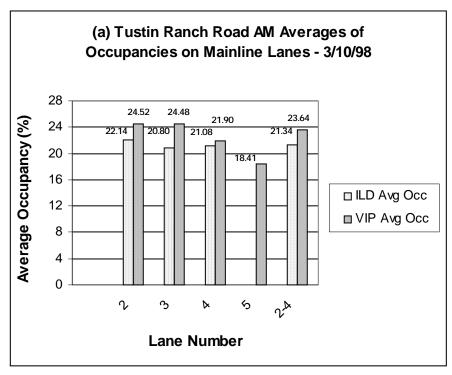


Figure J-26. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over lanes 1, 3, and 4 at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/10/98



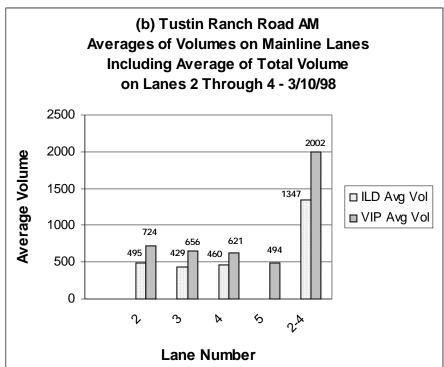


Figure J-27. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/10/98

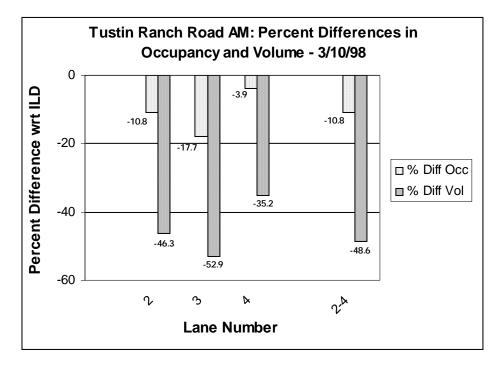
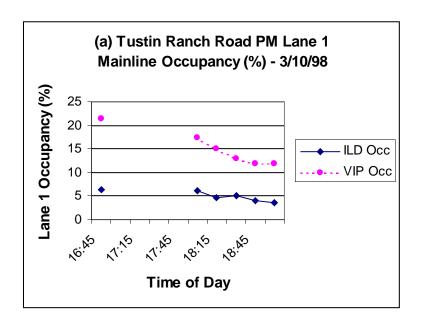


Figure J-28. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Tustin Ranch Road evaluation site during the morning rush-hour interval on 3/10/98



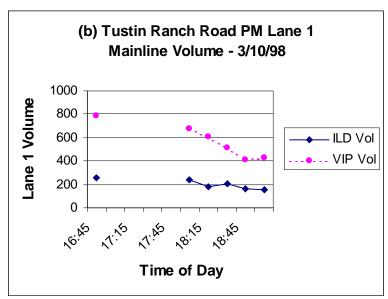
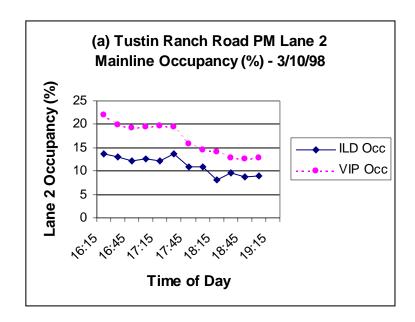


Figure J-29. Lane 1 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/10/98



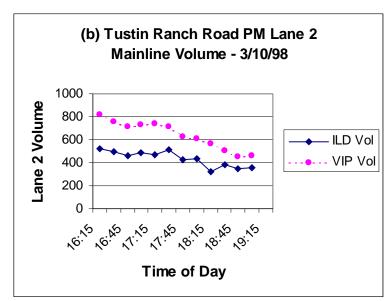
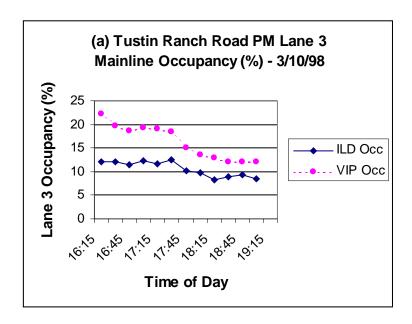


Figure J-30. Lane 2 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/10/98



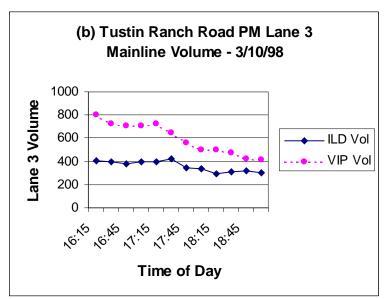
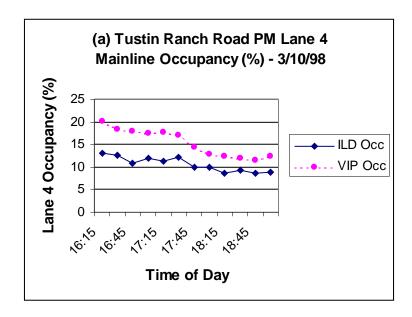


Figure J-31. Lane 3 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/10/98



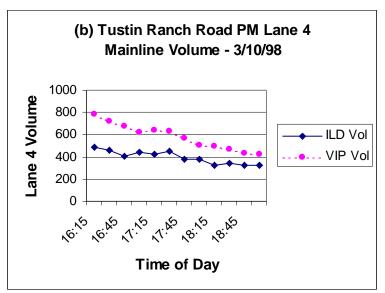
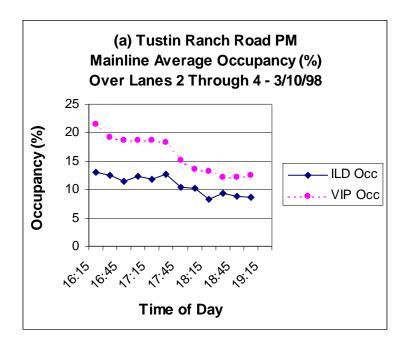


Figure J-32. Lane 4 (a) occupancy and (b) volume at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/10/98



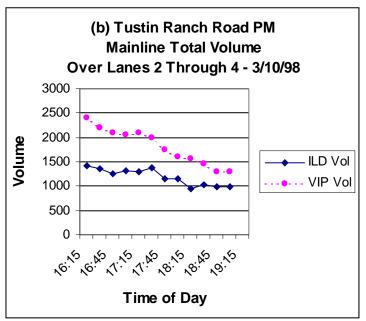
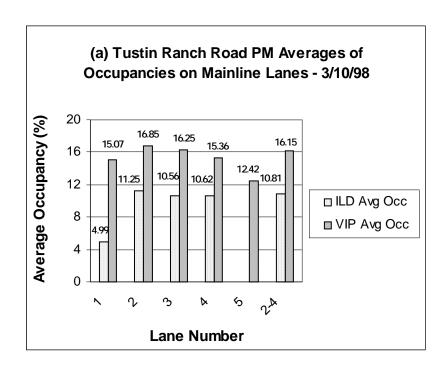


Figure J-33. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over all lanes at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/10/98



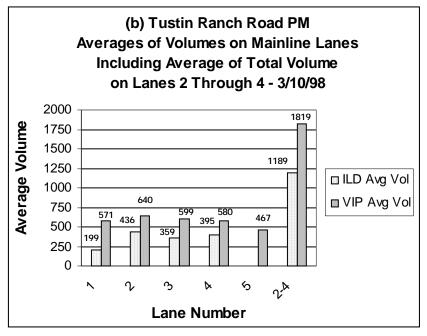


Figure J-34. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/10/98

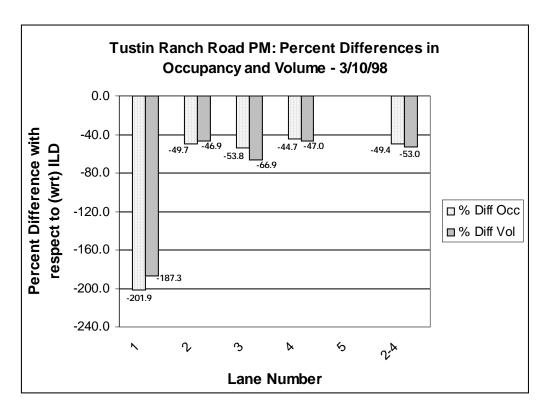
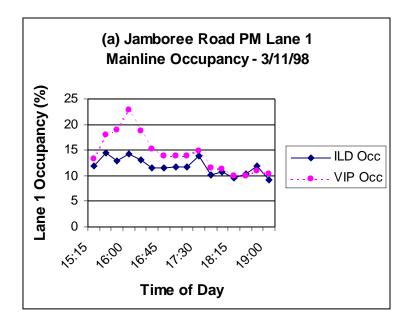


Figure J-35. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Tustin Ranch Road evaluation site during the afternoon rush-hour interval on 3/10/98



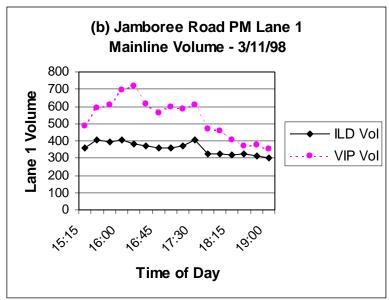
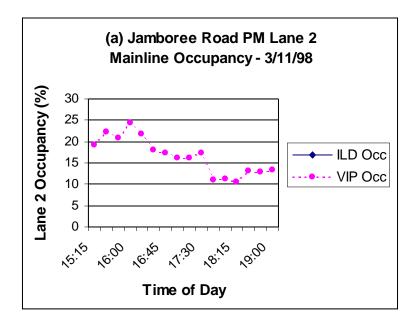


Figure J-36. Lane 1 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/11/98



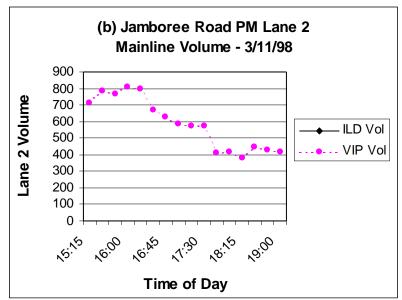
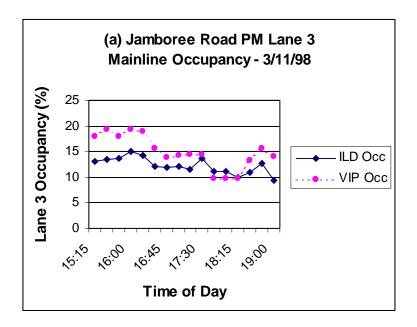


Figure J-37. Lane 2 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/11/98



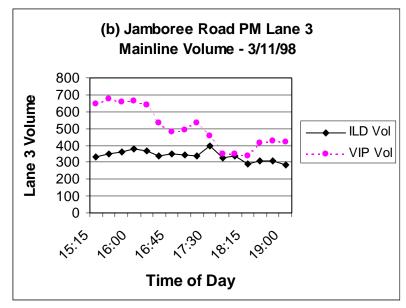
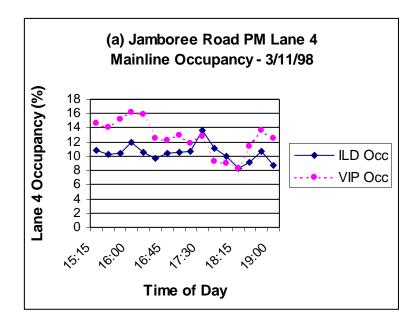


Figure J-38. Lane 3 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/11/98



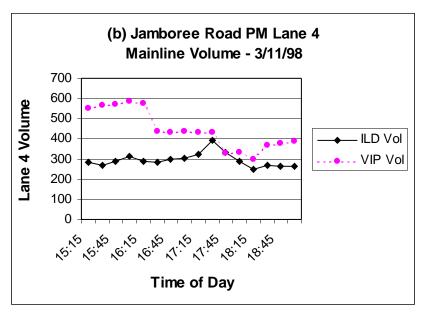
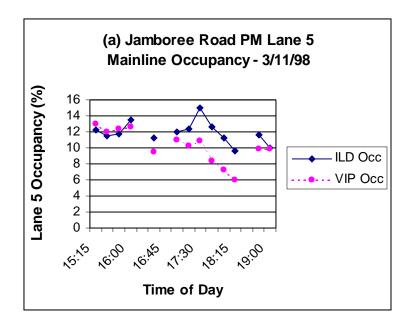


Figure J-39. Lane 4 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/11/98



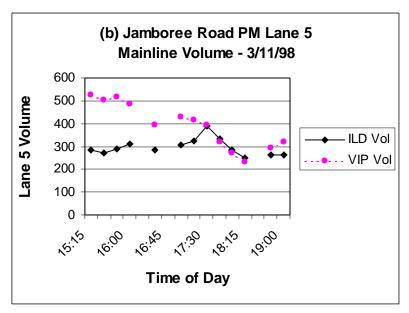
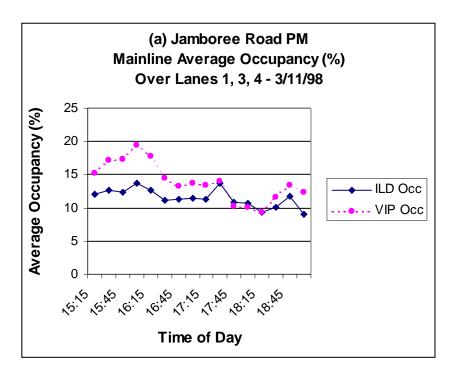


Figure J-40. Lane 5 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/11/98



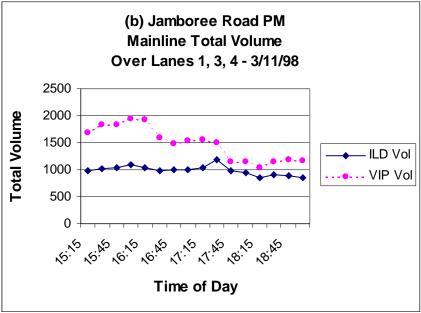
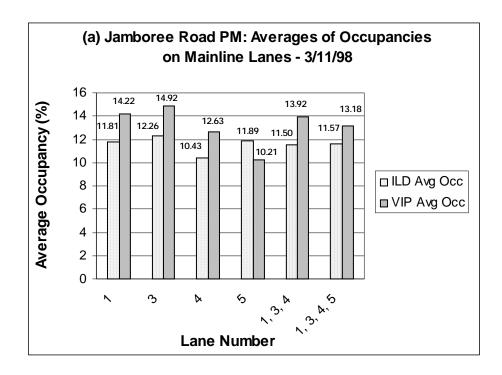


Figure J-41. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over all lanes at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/11/98



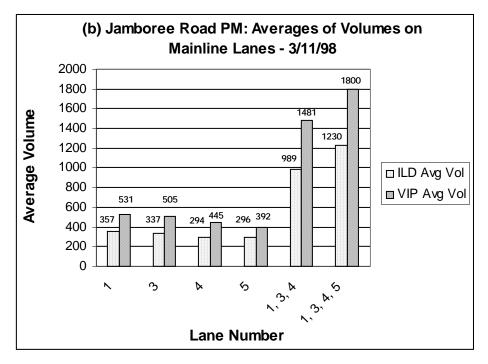


Figure J-42. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/11/98

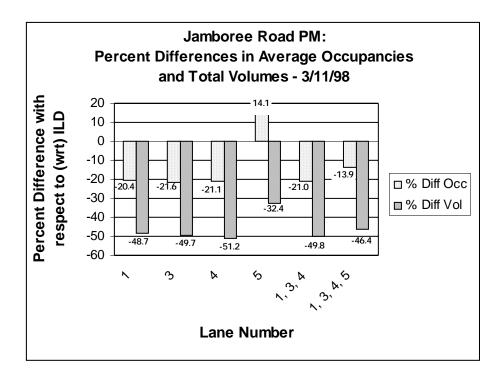
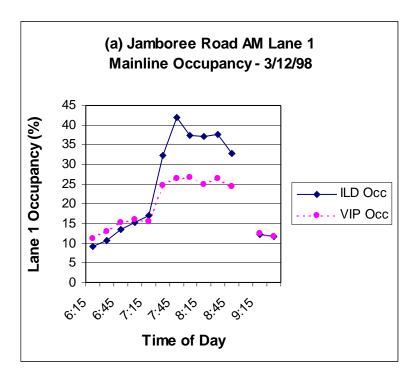


Figure J-43. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/11/98



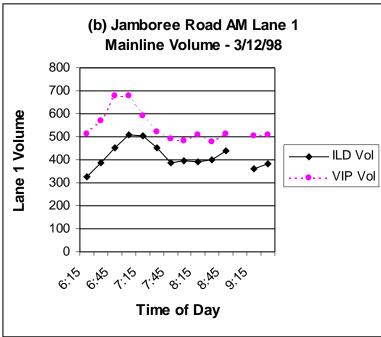
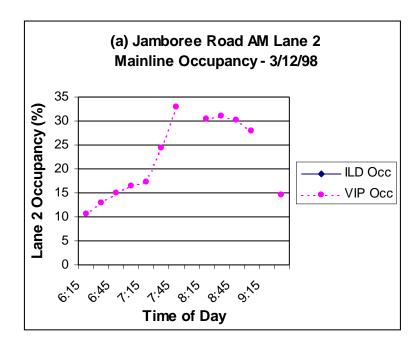


Figure J-44. Lane 1 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/12/98



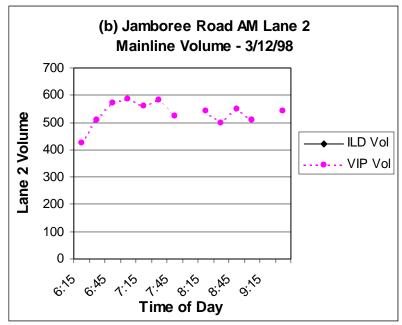
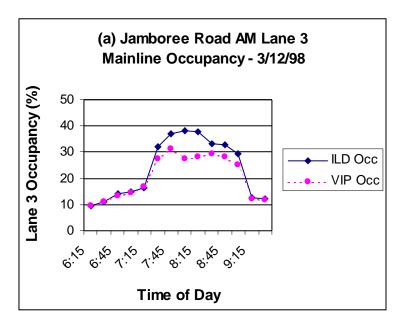


Figure J-45. Lane 2 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/12/98



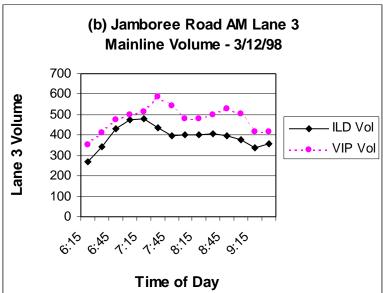
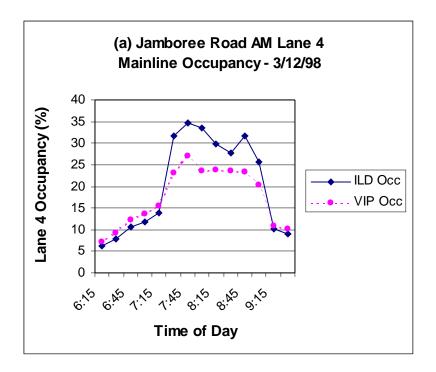


Figure J-46. Lane 3 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/12/98



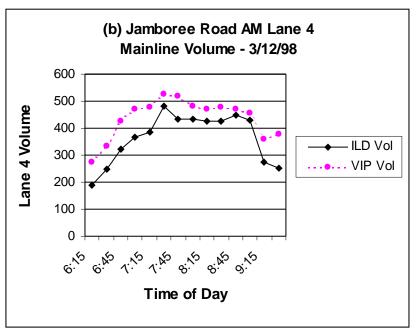
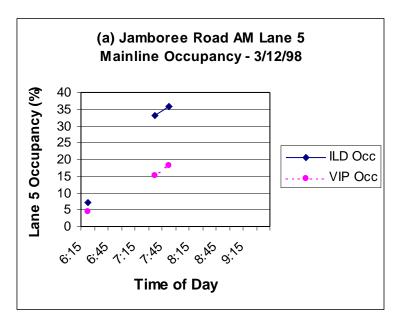


Figure J-47. Lane 4 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/12/98



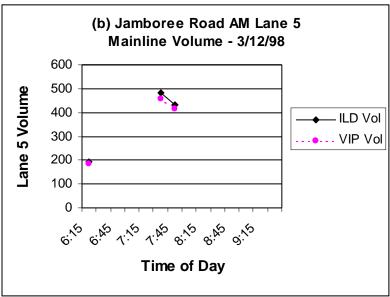
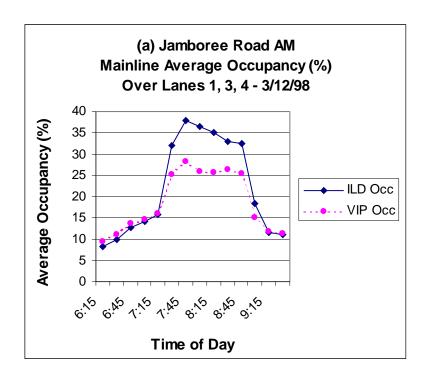


Figure J-48. Lane 5 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/12/98



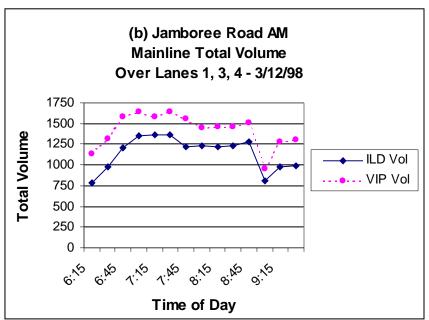
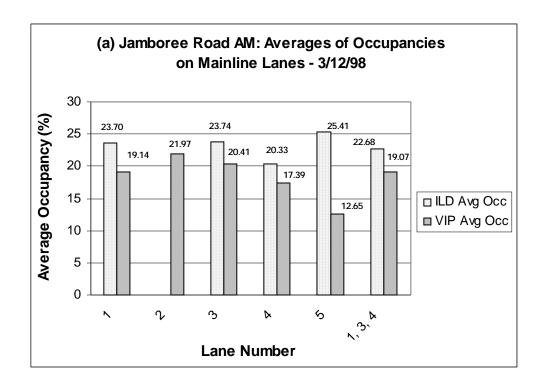


Figure J-49. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over lanes 1, 3, and 4 at the Jamboree Road evaluation site during the morning rush-hour interval on 3/12/98



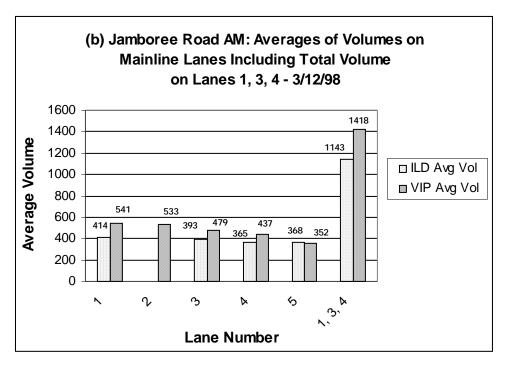


Figure J-50. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/12/98

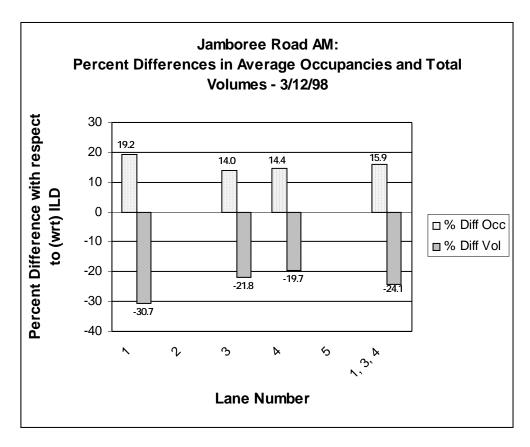
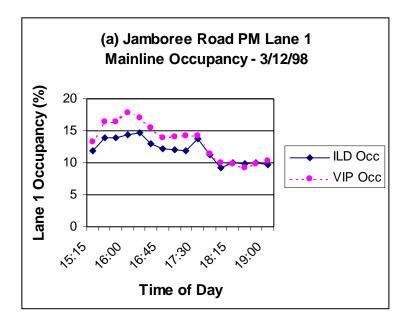


Figure J-51. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Jamboree Road evaluation site during the morning rush-hour interval on 3/12/98



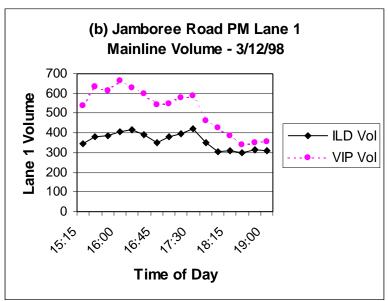
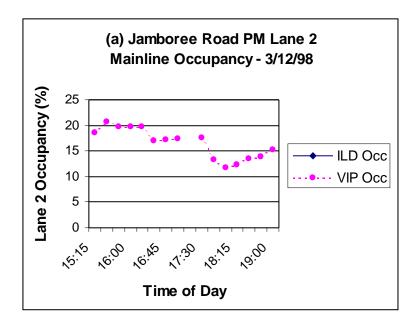


Figure J-52. Lane 1 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/12/98



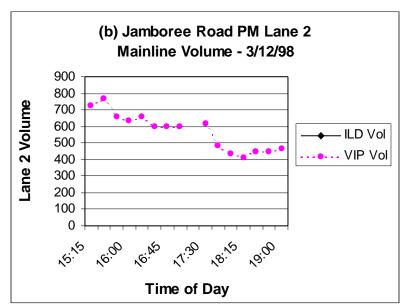
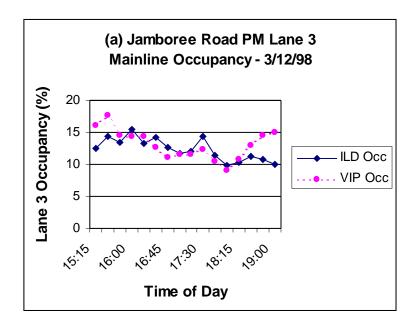


Figure J-53. Lane 2 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/12/98



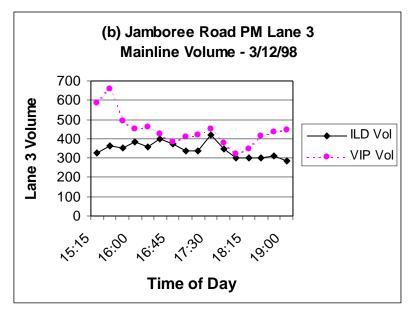
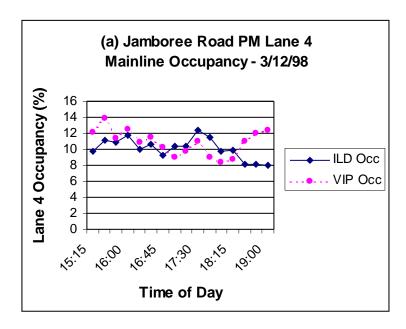


Figure J-54. Lane 3 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/12/98



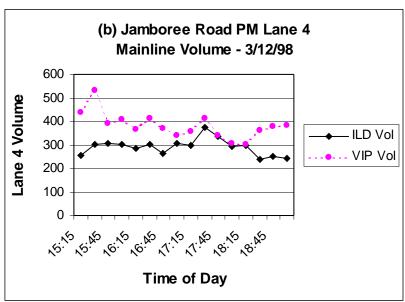
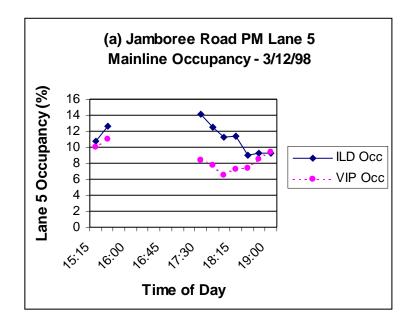


Figure J-55. Lane 4 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/12/98



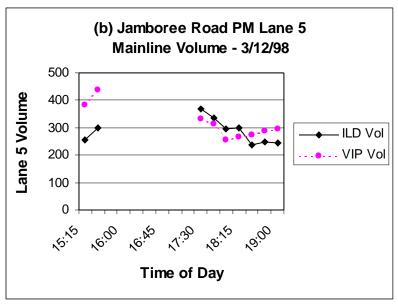
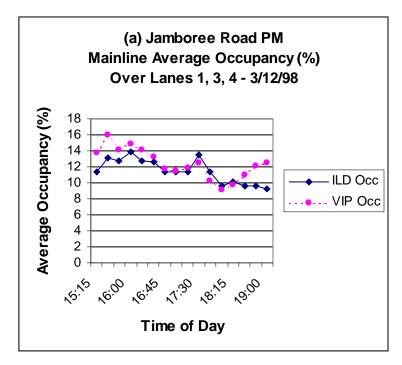


Figure J-56. Lane 5 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/12/98



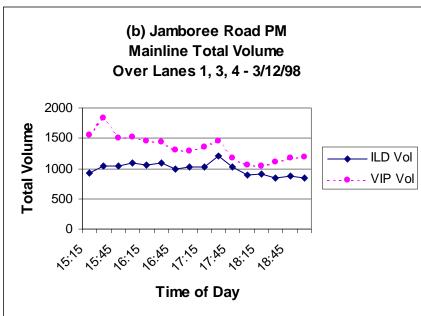
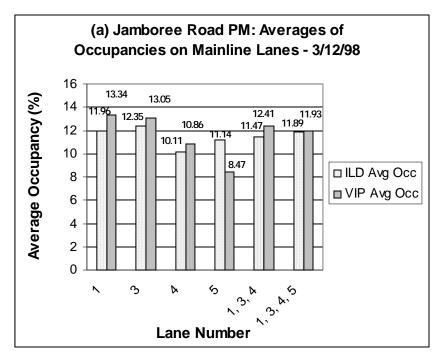


Figure J-57. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over all lanes at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/12/98



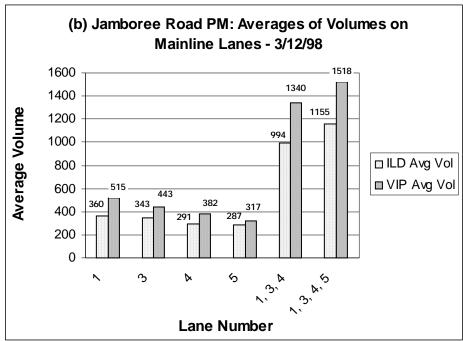


Figure J-58. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/12/98

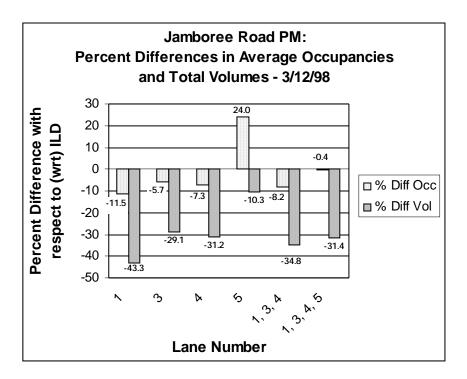
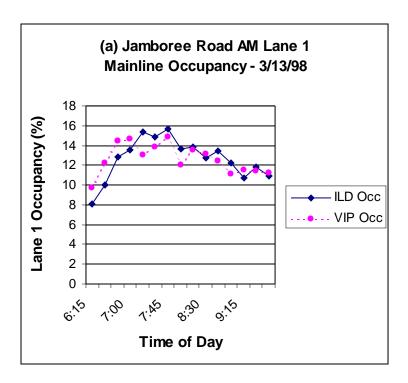


Figure J-59. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/12/98



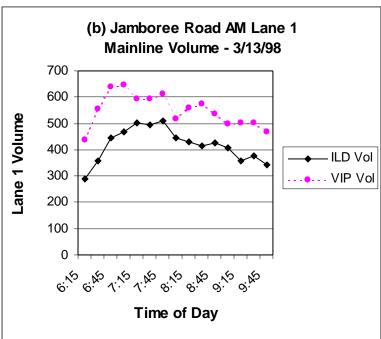
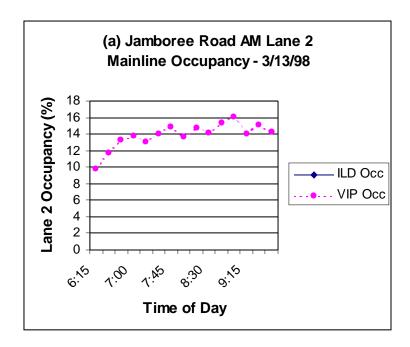


Figure J-60. Lane 1 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/13/98



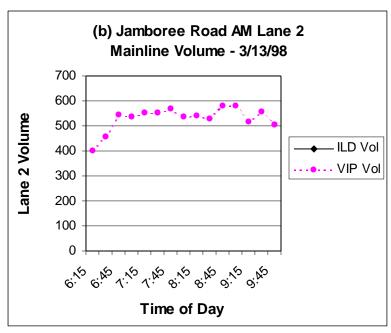
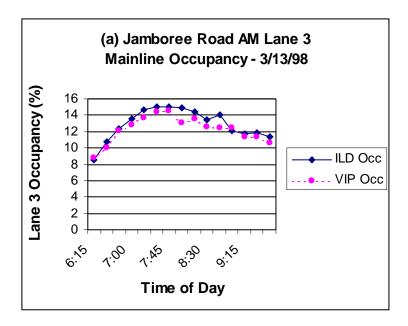


Figure J-61. Lane 2 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/13/98



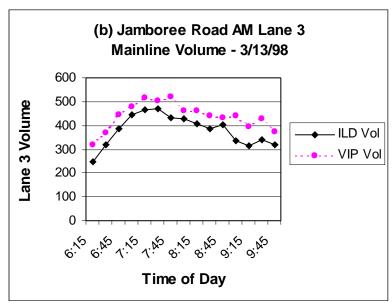
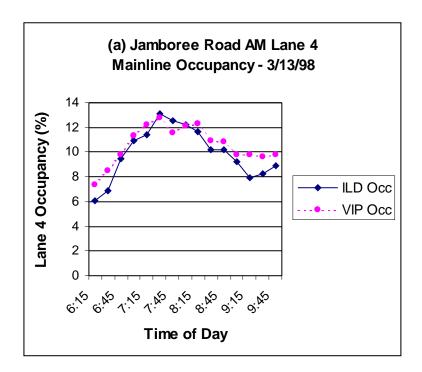


Figure J-62. Lane 3 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/13/98



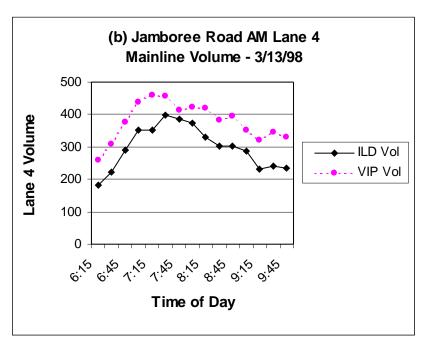
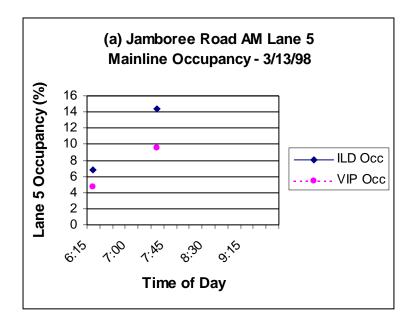


Figure J-63. Lane 4 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/13/98



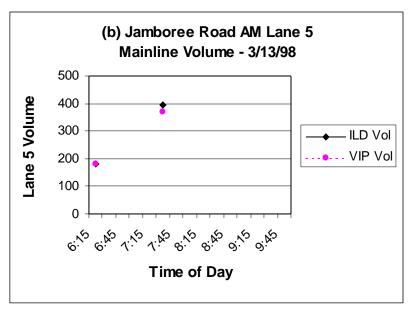
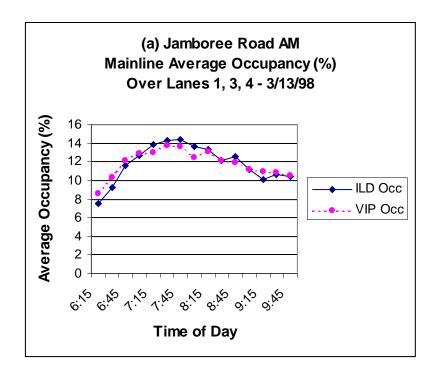


Figure J-64. Lane 5 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/13/98



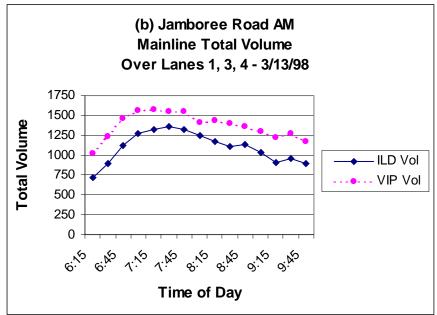
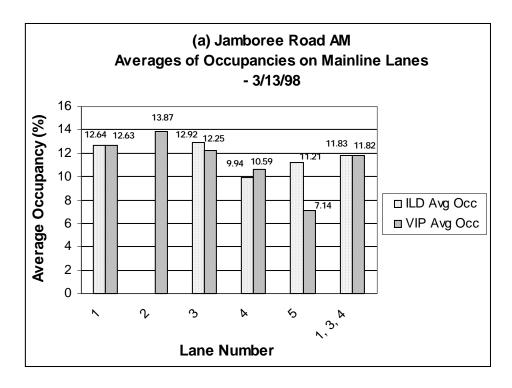


Figure J-65. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over lanes 1, 3, and 4 at the Jamboree Road evaluation site during the morning rush-hour interval on 3/13/98



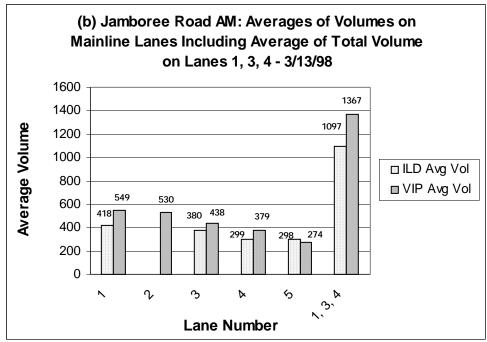


Figure J-66. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Jamboree Road evaluation site during the morning rush-hour interval on 3/13/98

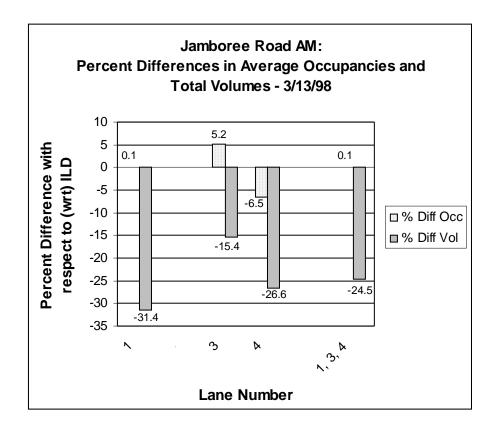
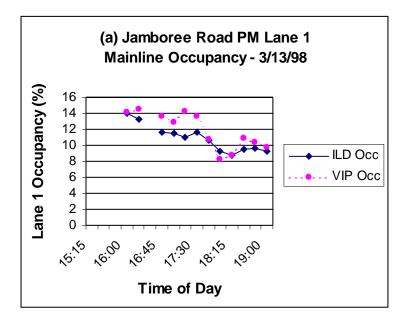


Figure J-67. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Jamboree Road evaluation site during the morning rush-hour interval on 3/13/98



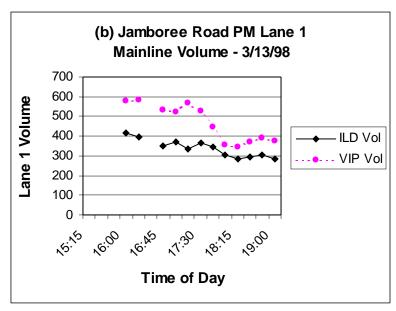
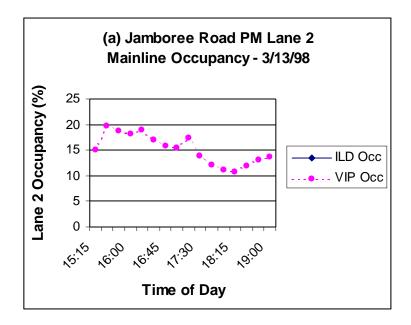


Figure J-68. Lane 1 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/13/98



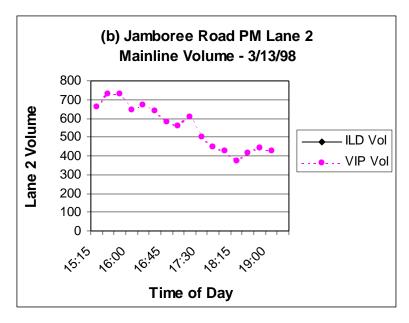
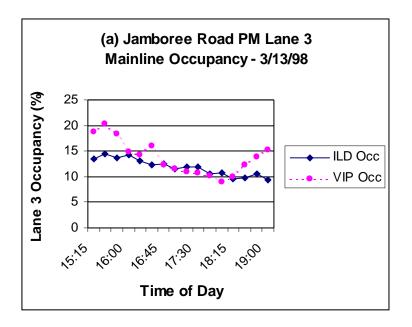


Figure J-69. Lane 2 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/13/98



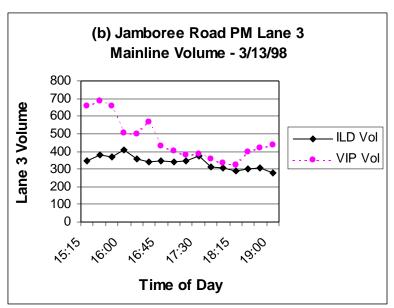
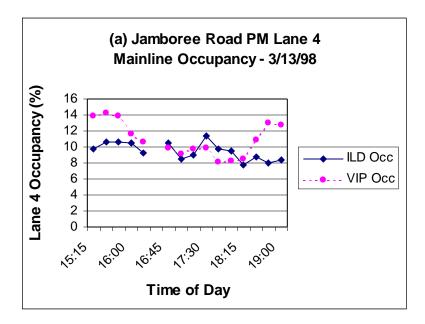


Figure J-70. Lane 3 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/13/98



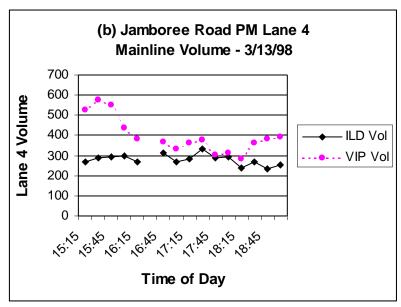
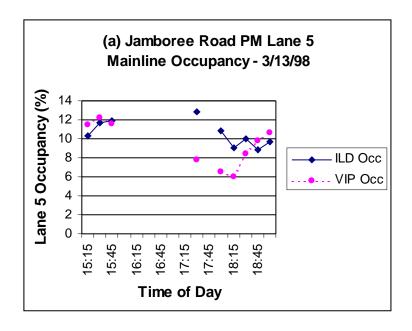


Figure J-71. Lane 4 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/13/98



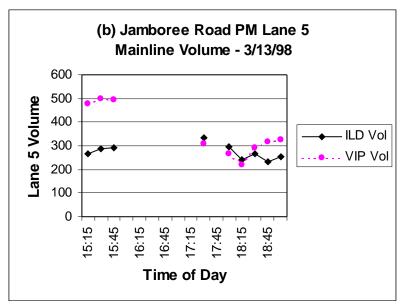
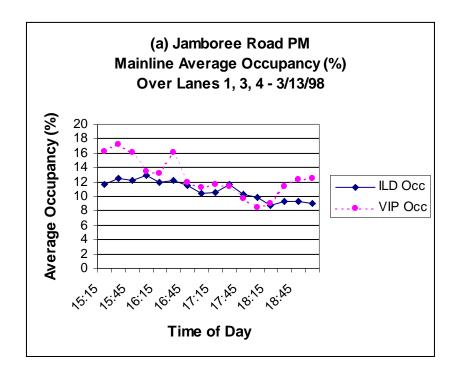


Figure J-72. Lane 5 (a) occupancy and (b) volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/13/98



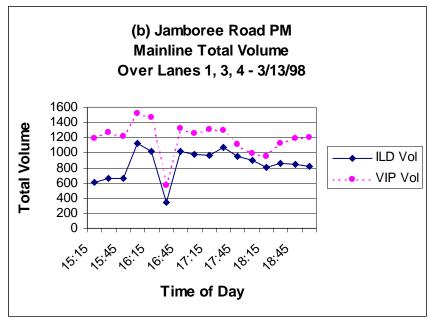
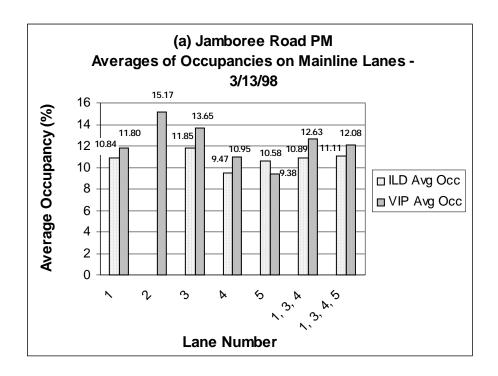


Figure J-73. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over all lanes at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/13/98



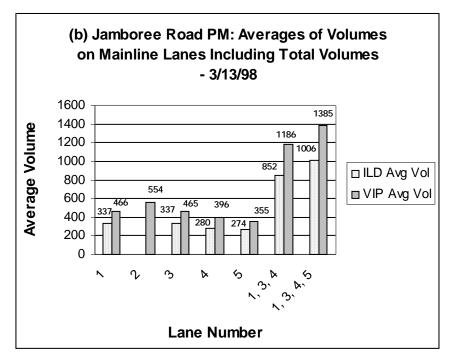


Figure J-74. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/13/98

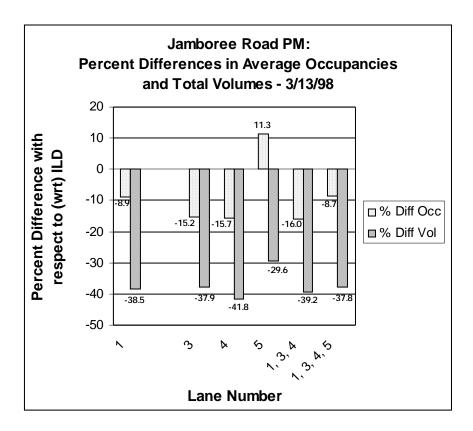
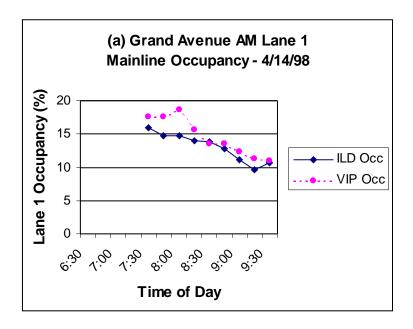


Figure J-75. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Jamboree Road evaluation site during the afternoon rush-hour interval on 3/13/98



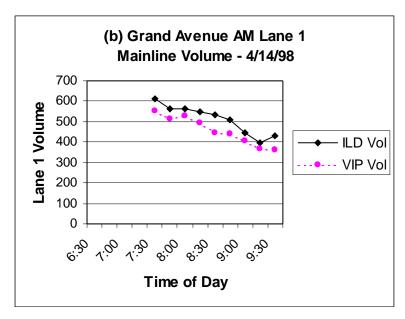
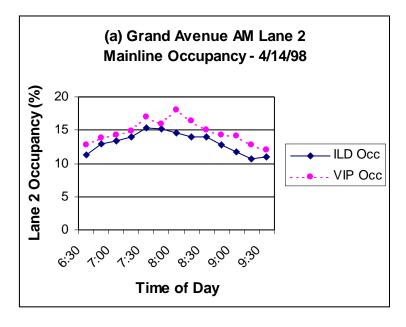


Figure J-76. Lane 1 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/14/98



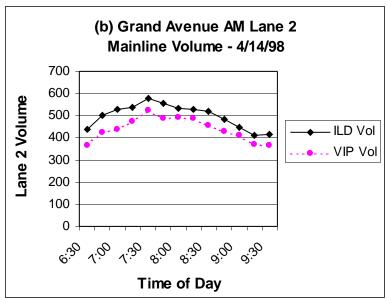
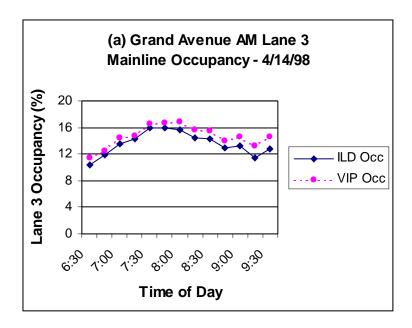


Figure J-77. Lane 2 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/14/98



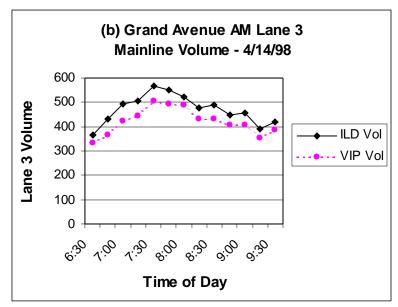
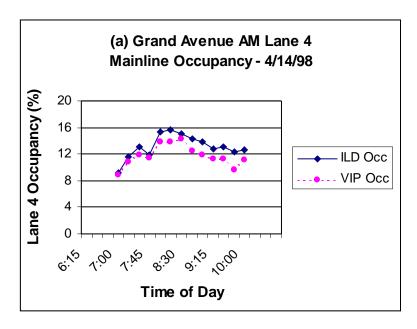


Figure J-78. Lane 3 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/14/98



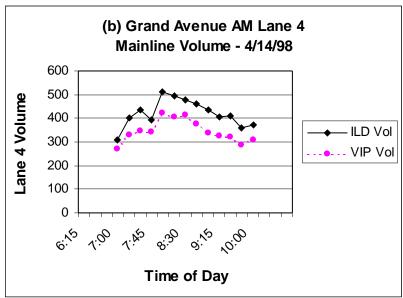
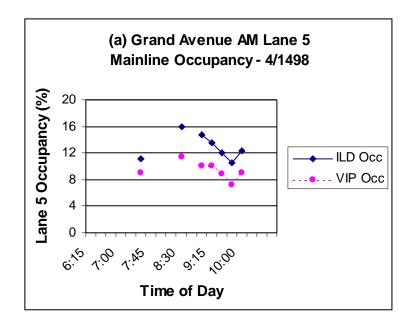


Figure J-79. Lane 4 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/14/98



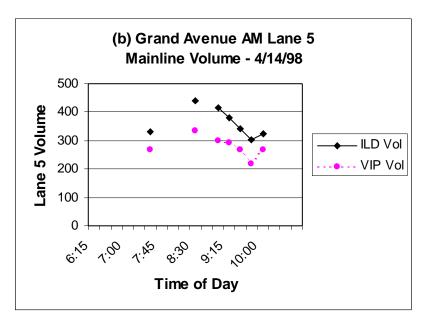
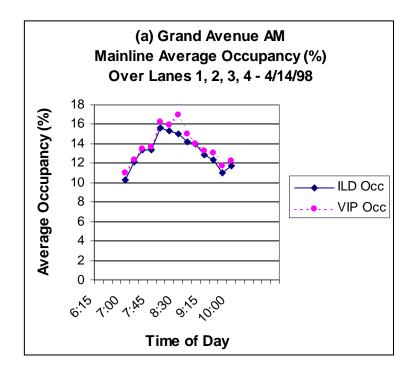


Figure J-80. Lane 5 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/14/98



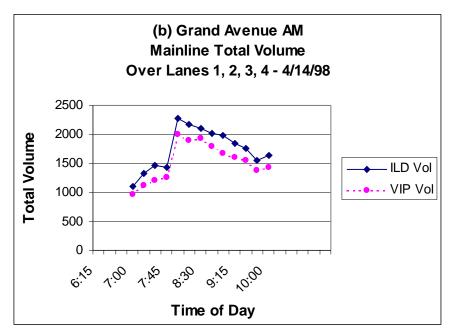
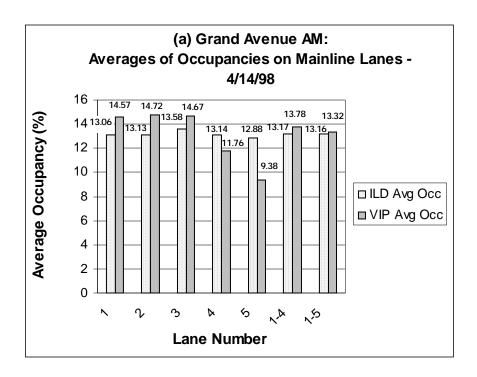


Figure J-81. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over lanes 1 through 4 at the Grand Avenue evaluation site during the morning rush-hour interval on 4/14/98



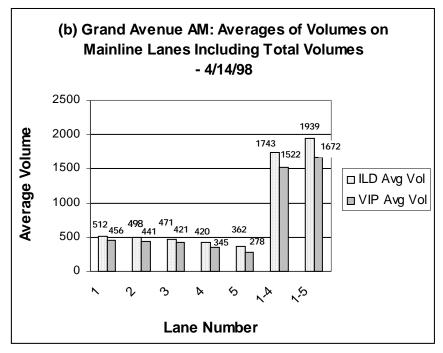


Figure J-82. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/14/98

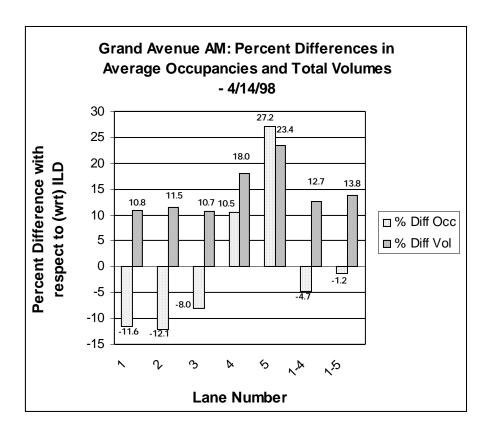
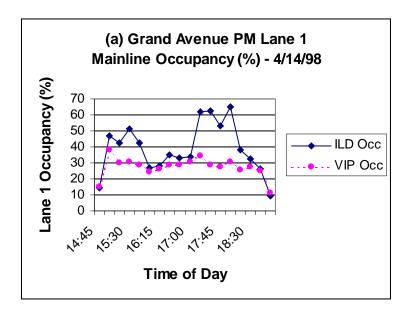


Figure J-83. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Grand Avenue evaluation site during the morning rush-hour interval on 4/14/98



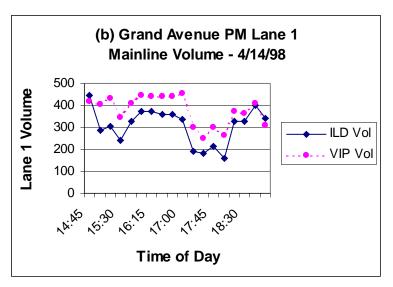
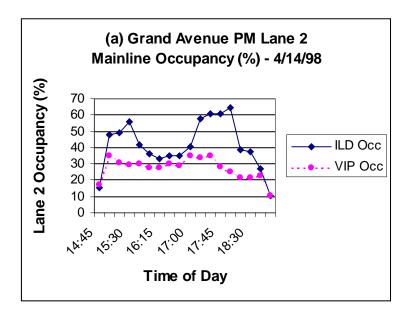


Figure J-84. Lane 1 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/14/98



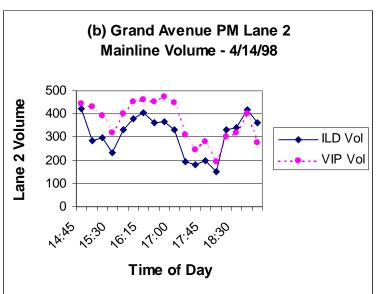
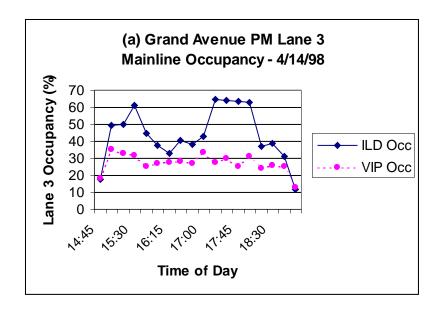


Figure J-85. Lane 2 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/14/98



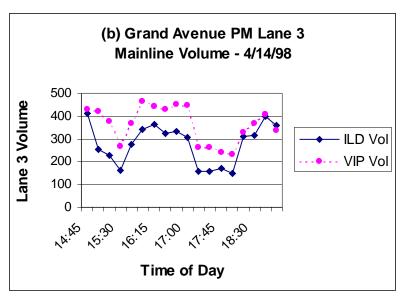
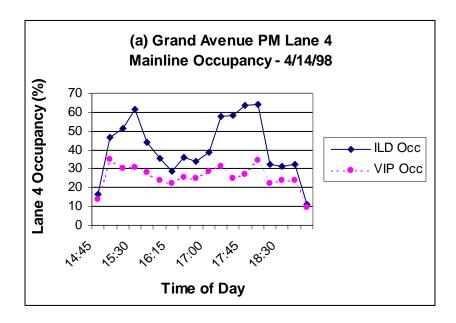


Figure J-86. Lane 3 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/14/98



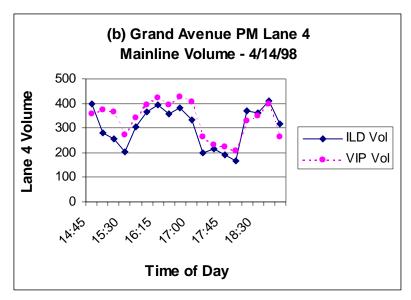
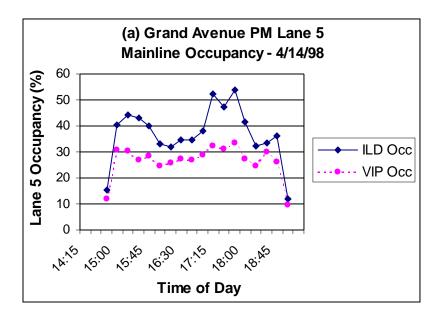


Figure J-87. Lane 4 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/14/98



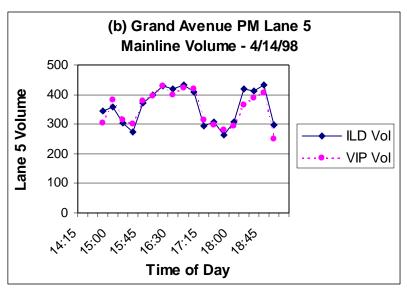
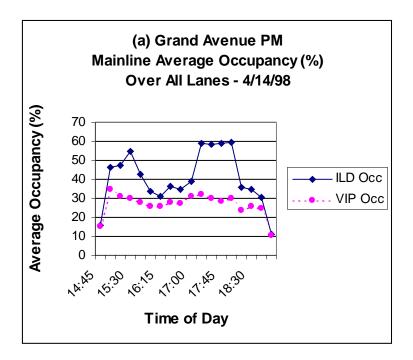


Figure J-88. Lane 5 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/14/98



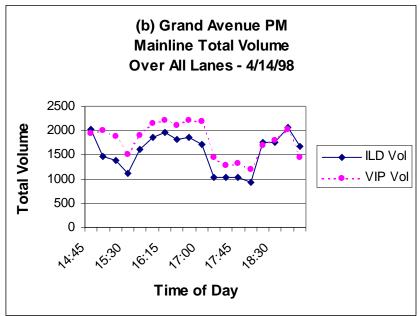
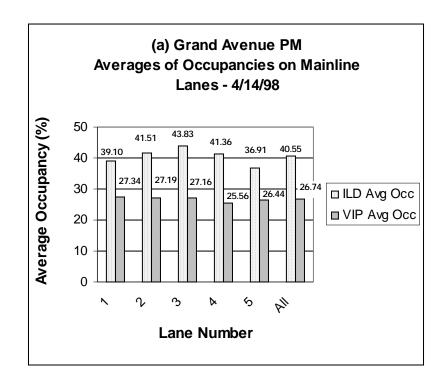


Figure J-89. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over all lanes at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/14/98



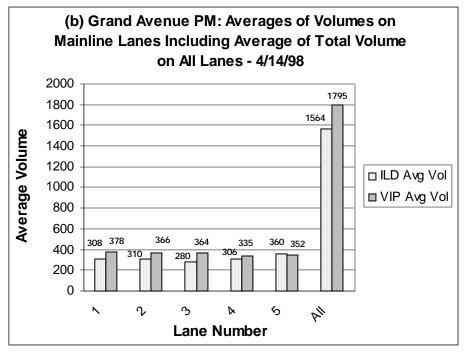


Figure J-90. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/14/98

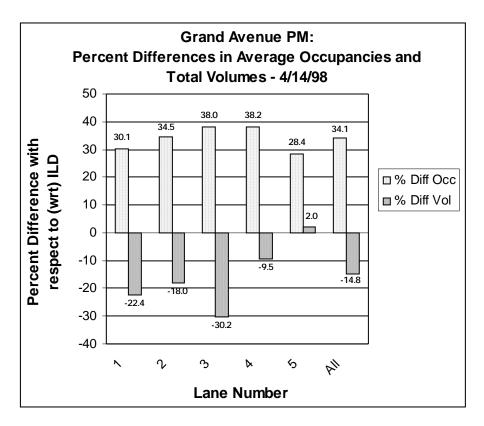
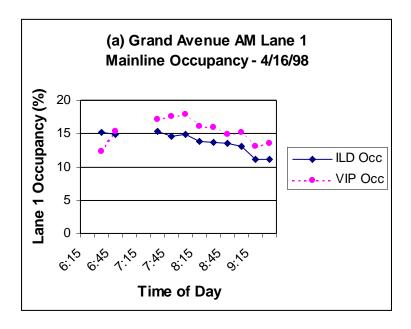


Figure J-91. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/14/98



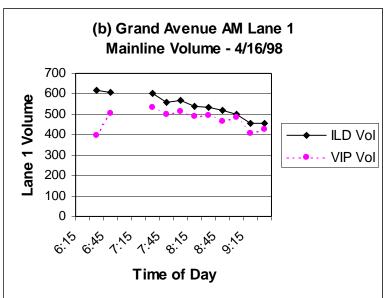
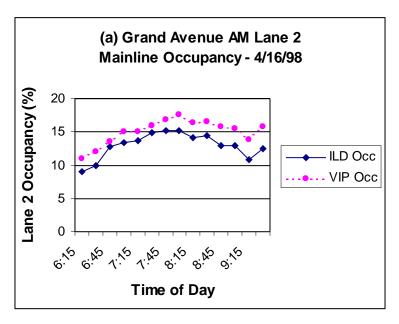


Figure J-92. Lane 1 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/16/98



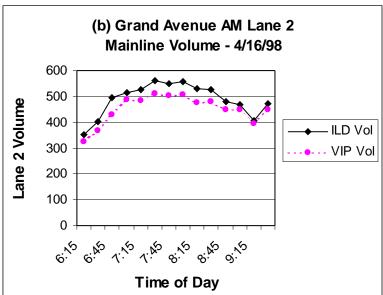
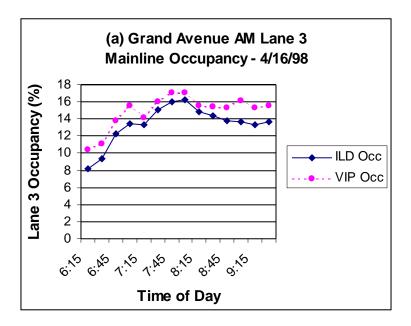


Figure J-93. Lane 2 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/16/98



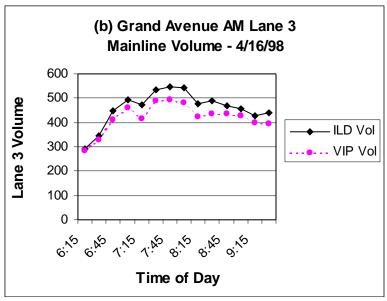
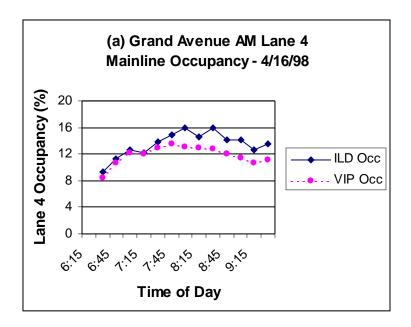


Figure J-94. Lane 3 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/16/98



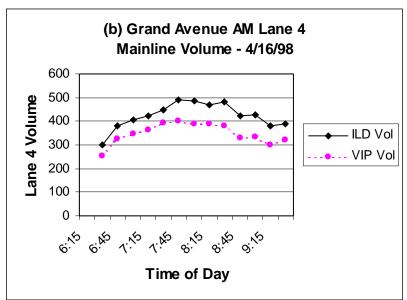
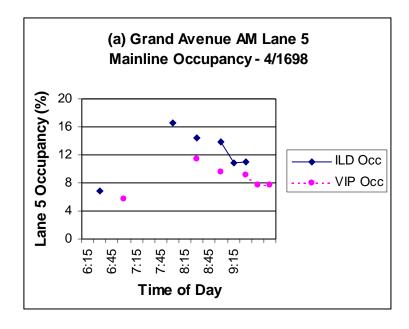


Figure J-95. Lane 4 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/16/98



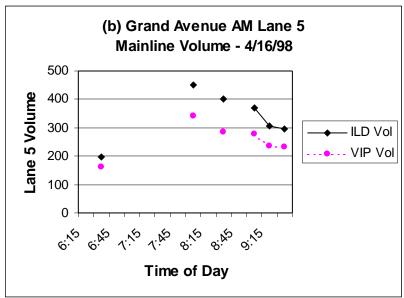
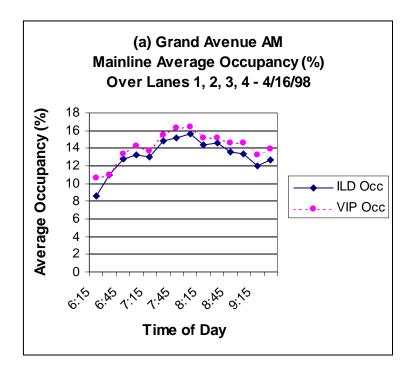


Figure J-96. Lane 5 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/16/98



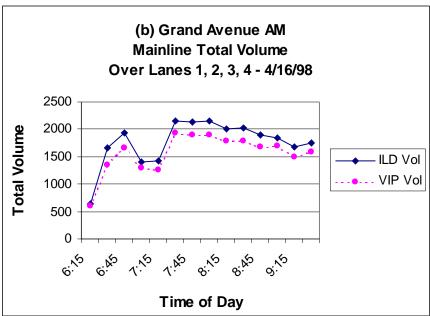
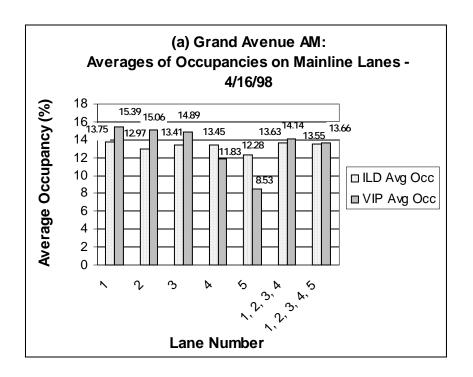


Figure J-97. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over lanes 1 through 4 at the Grand Avenue evaluation site during the morning rush-hour interval on 4/16/98



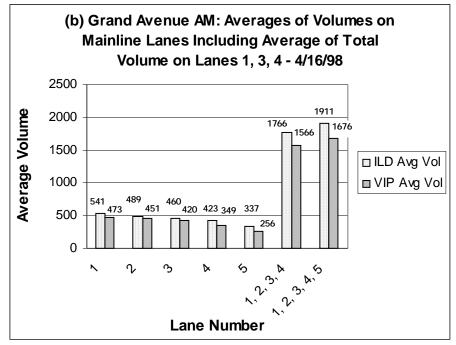


Figure J-98. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Grand Avenue evaluation site during the morning rush-hour interval on 4/16/98

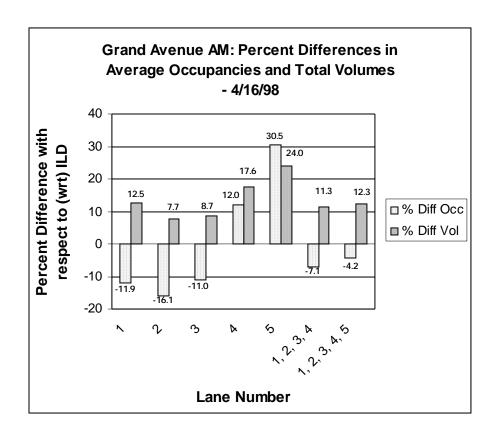
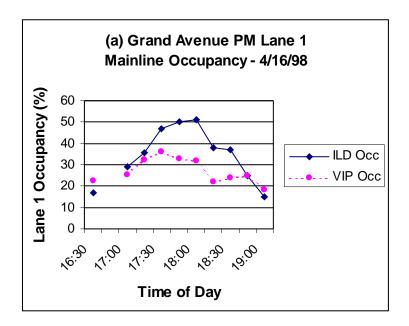


Figure J-99. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Grand Avenue evaluation site during the morning rush-hour interval on 4/16/98



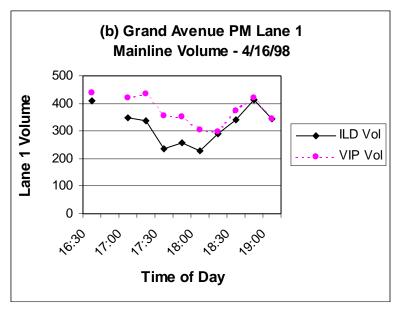
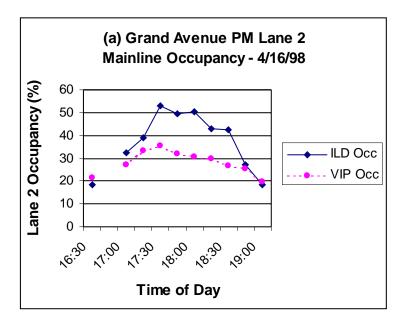


Figure J-100. Lane 1 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/16/98



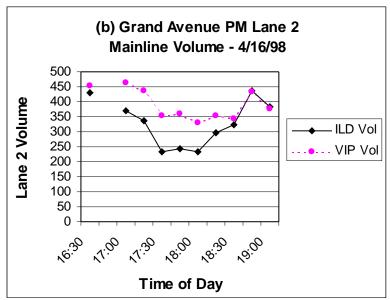
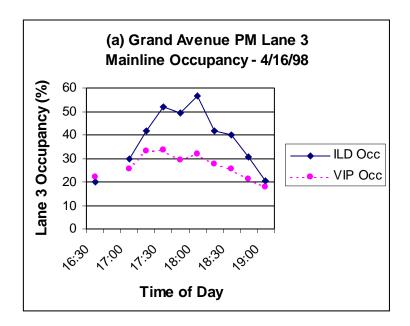


Figure J-101. Lane 2 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/16/98



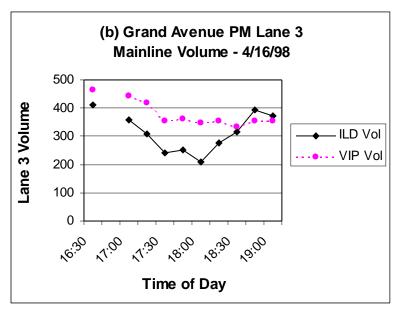
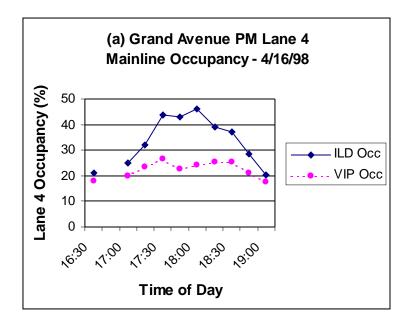


Figure J-102. Lane 3 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/16/98



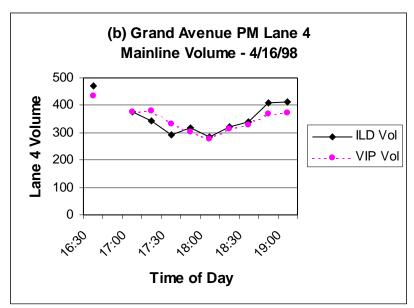
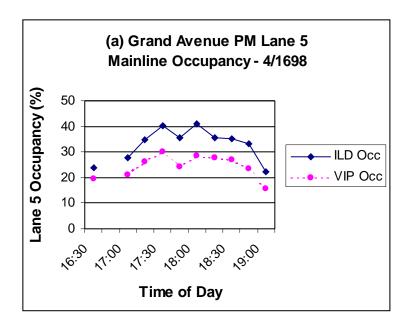


Figure J-103. Lane 4 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/16/98



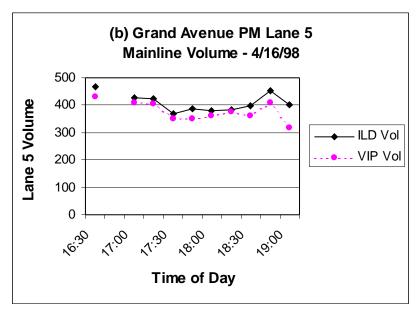
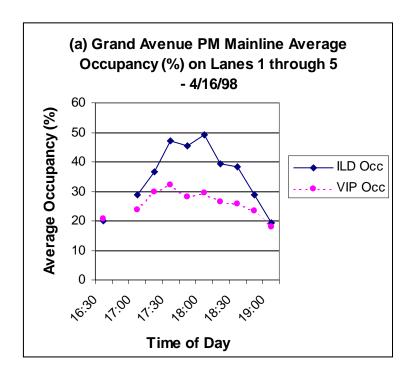


Figure J-104. Lane 5 (a) occupancy and (b) volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/16/98



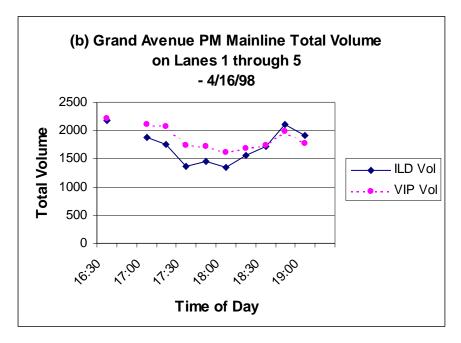
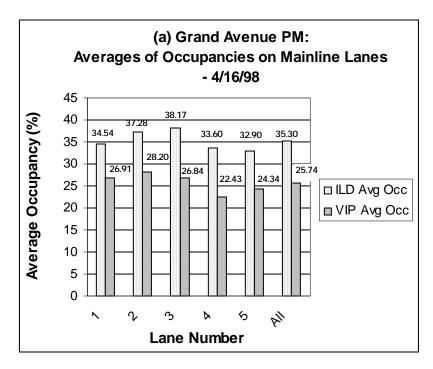


Figure J-105. Average (a) lane occupancy and (b) total volume measured by the ILDs and VIP over all lanes at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/16/98



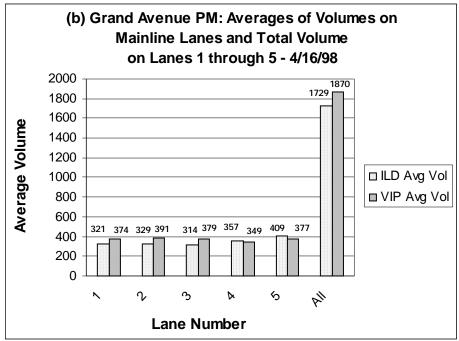


Figure J-106. Comparison of ILD and VIP lane-by-lane averages of (a) lane occupancy and (b) total volume at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/16/98

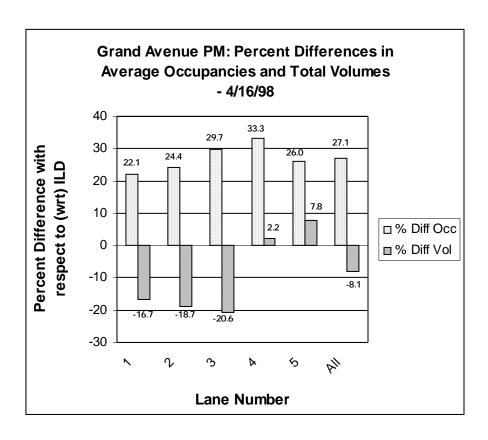
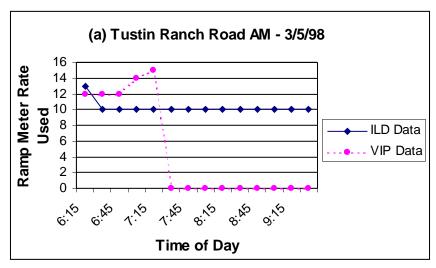
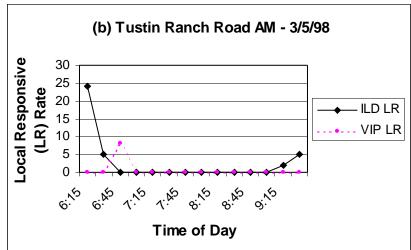


Figure J-107. Percent difference between the ILD and VIP averages of the average occupancy and total volume by lane at the Grand Avenue evaluation site during the afternoon rush-hour interval on 4/16/98





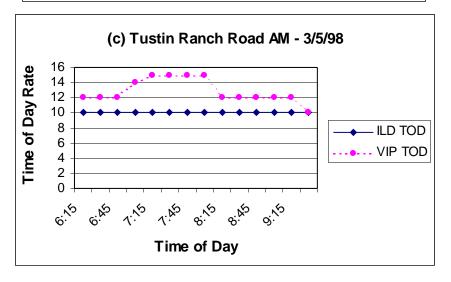
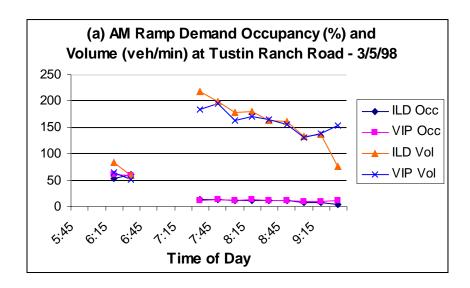


Figure J-108. Ramp meter rates (vehicles/minute) at Tustin Ranch Road for AM rush hours on 3/5/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



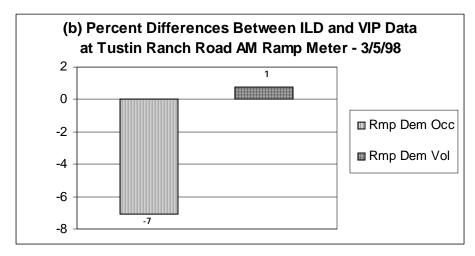
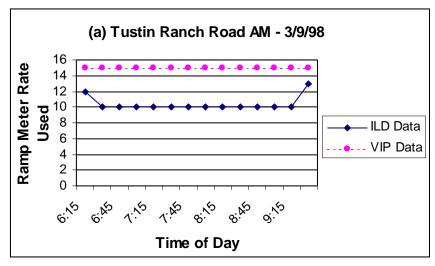
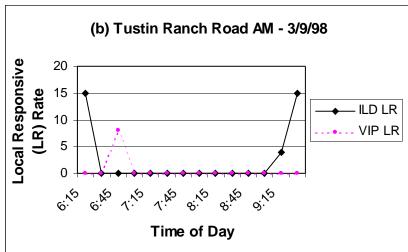


Figure J-109. ILD and VIP ramp and mainline data at Tustin Ranch Road ramp meter for AM rush hours on 3/5/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





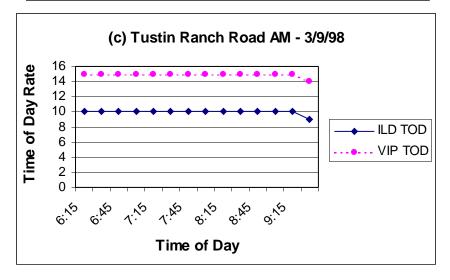
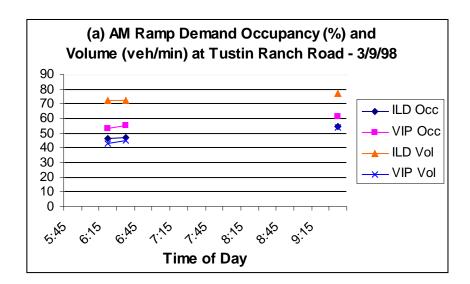


Figure J-110. Ramp meter rates (vehicles/minute) at Tustin Ranch Road for AM rush hours on 3/9/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



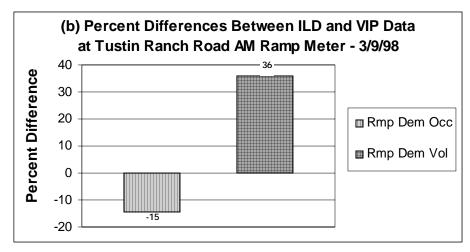
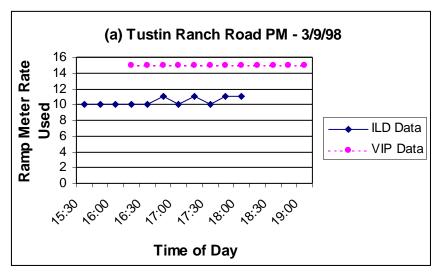
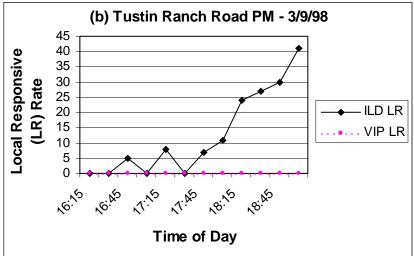


Figure J-111. ILD and VIP ramp and mainline data at Tustin Ranch Road ramp meter for AM rush hours on 3/9/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





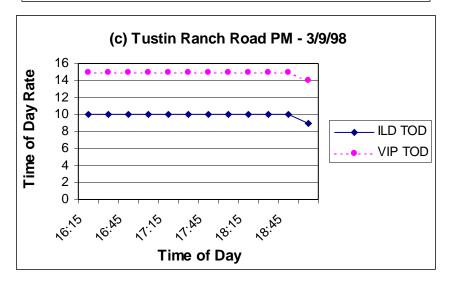
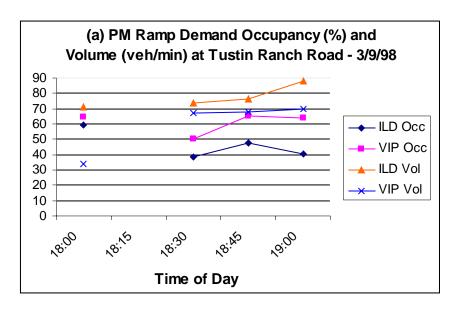


Figure J-112. Ramp meter rates (vehicles/minute) at Tustin Ranch Road for PM rush hours on 3/9/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



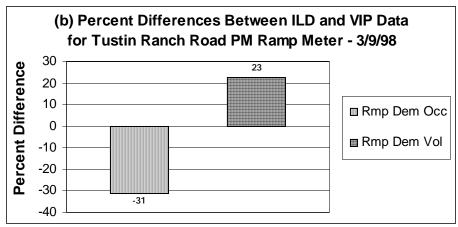
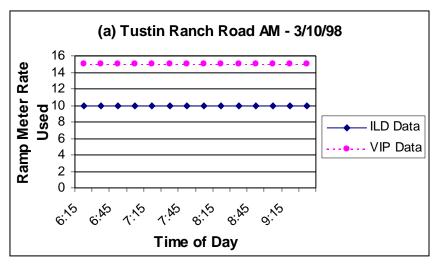
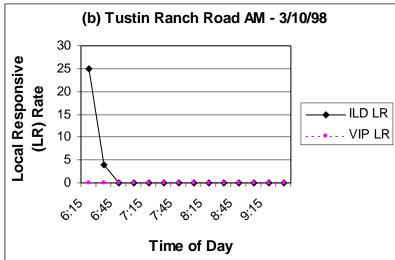


Figure J-113. ILD and VIP ramp and mainline data at Tustin Ranch Road ramp meter for PM rush hours on 3/9/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





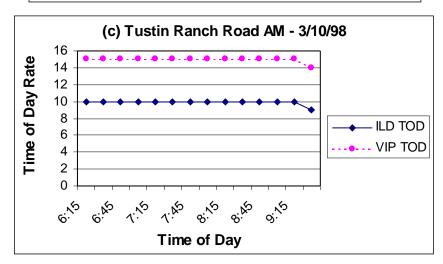
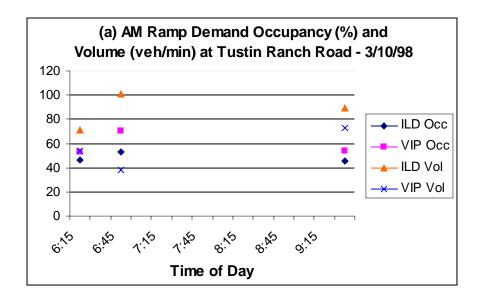


Figure J-114. Ramp meter rates (vehicles/minute) at Tustin Ranch Road for AM rush hours on 3/10/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



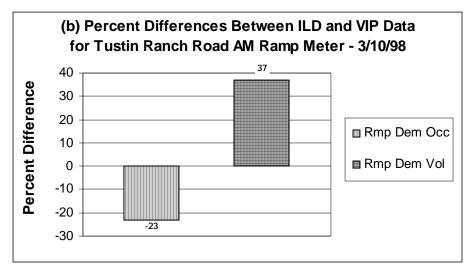
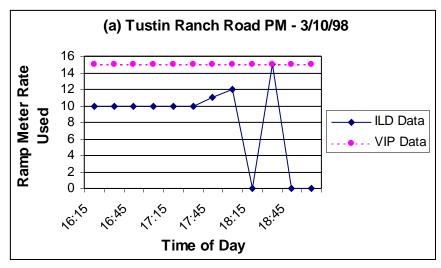
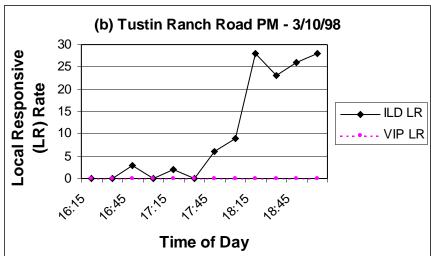


Figure J-115. ILD and VIP ramp and mainline data at Tustin Ranch Road ramp meter for AM rush hours on 3/10/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





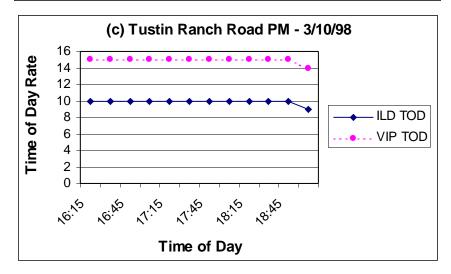
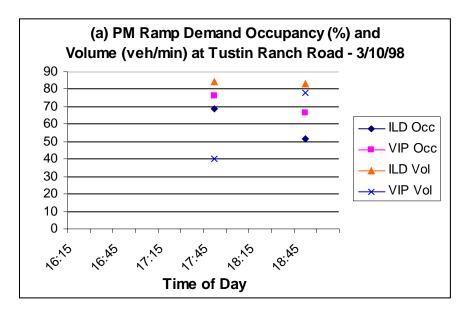


Figure J-116. Ramp meter rates (vehicles/minute) at Tustin Ranch Road for PM rush hours on 3/10/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



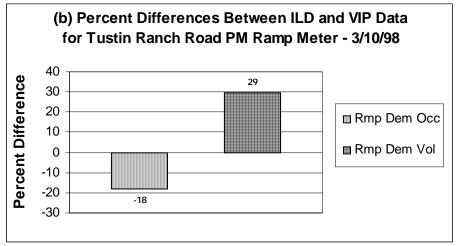
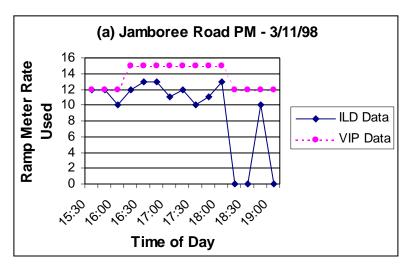
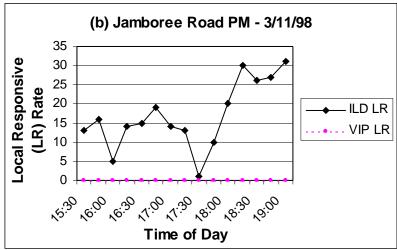


Figure J-117. ILD and VIP ramp and mainline data at Tustin Ranch Road ramp meter for PM rush hours on 3/10/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





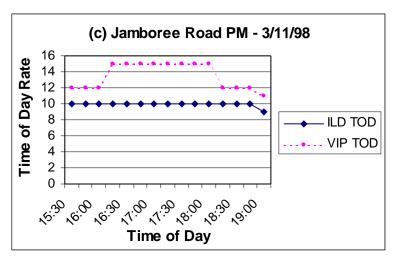
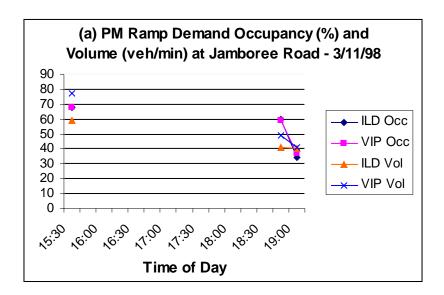


Figure J-118. Ramp meter rates (vehicles/minute) at Jamboree Road for PM rush hours on 3/11/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



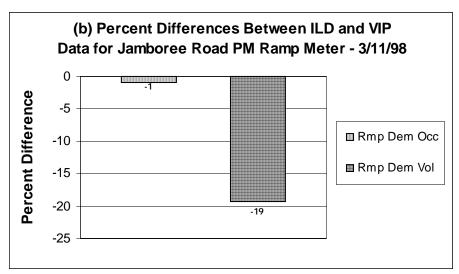
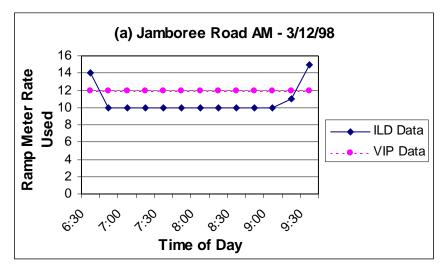
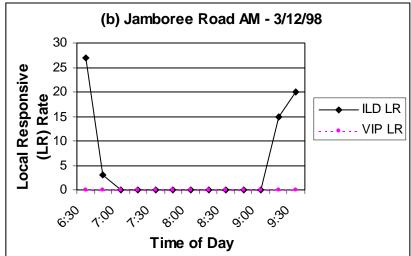


Figure J-119. ILD and VIP ramp and mainline data at Jamboree Road ramp meter for PM rush hours on 3/11/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





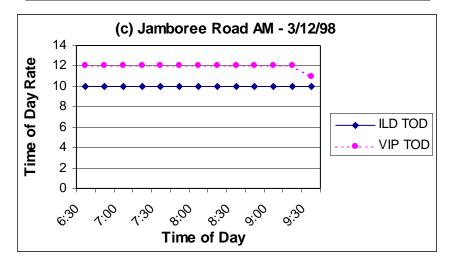
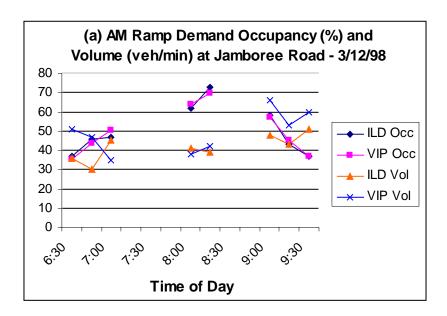


Figure J-120. Ramp meter rates (vehicles/minute) at Jamboree Road for AM rush hours on 3/12/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



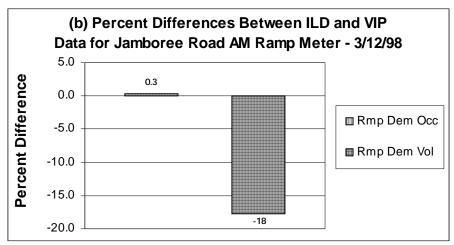
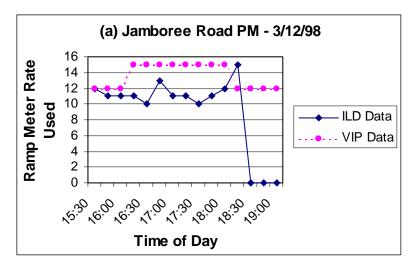
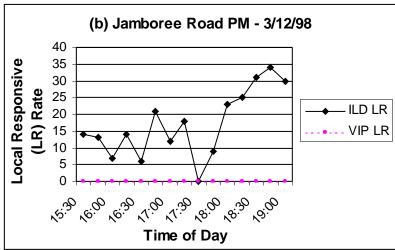


Figure J-121. ILD and VIP ramp and mainline data at Jamboree Road ramp meter for AM rush hours on 3/12/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





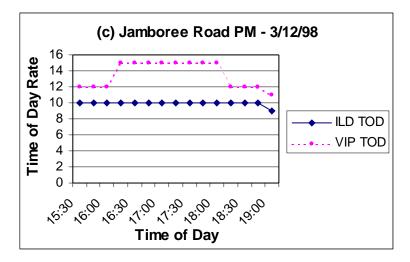
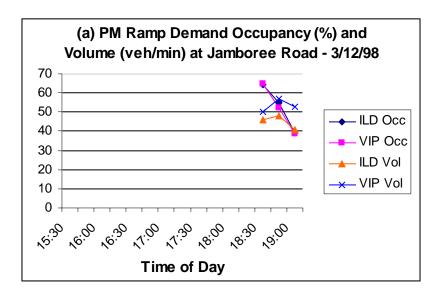


Figure J-122. Ramp meter rates (vehicles/minute) at Jamboree Road for PM rush hours on 3/12/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



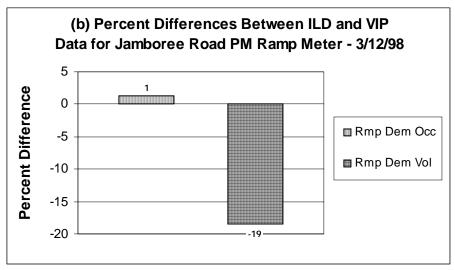
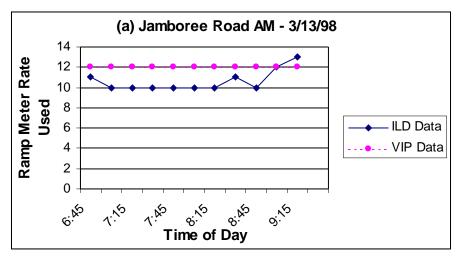
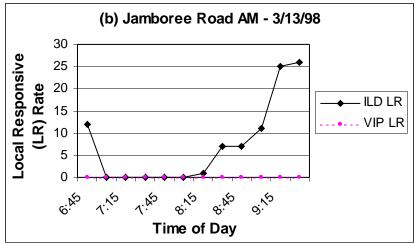


Figure J-123. ILD and VIP ramp and mainline data at Jamboree Road ramp meter for PM rush hours on 3/12/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





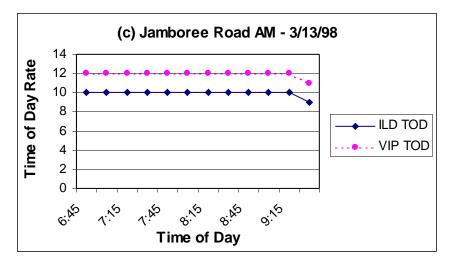
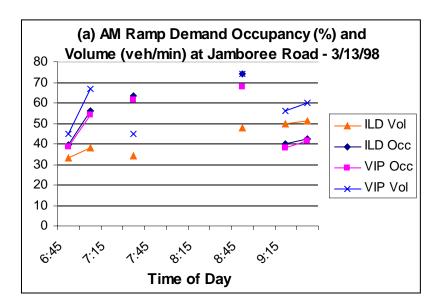


Figure J-124. Ramp meter rates (vehicles/minute) at Jamboree Road for AM rush hours on 3/13/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



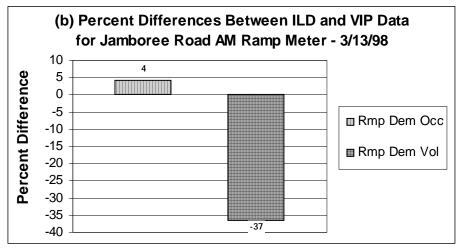
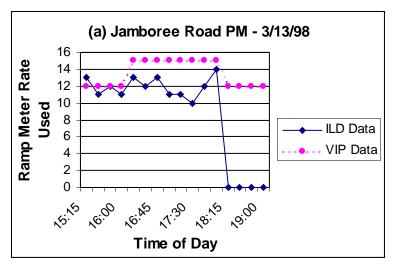
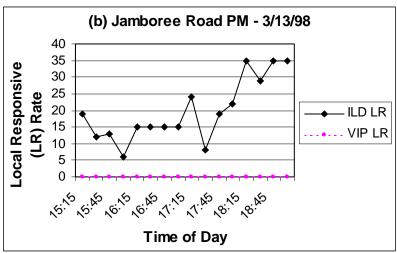


Figure J-125. ILD and VIP ramp and mainline data at Jamboree Road ramp meter for AM rush hours on 3/13/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





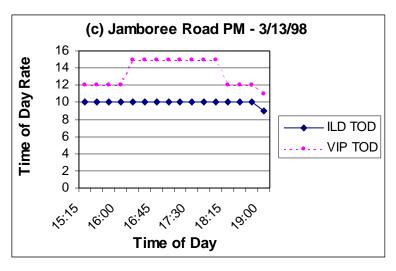
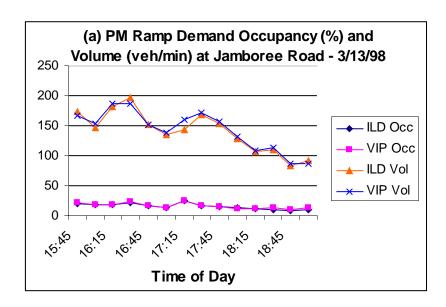


Figure J-126. Ramp meter rates (vehicles/minute) at Jamboree Road for PM rush hours on 3/13/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



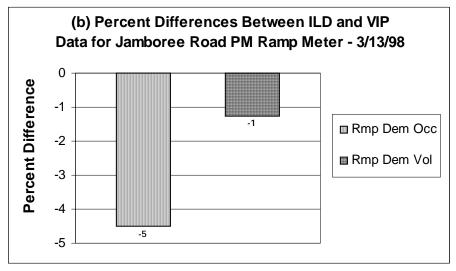
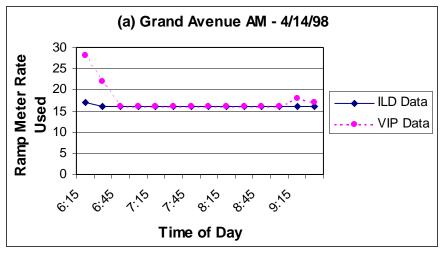
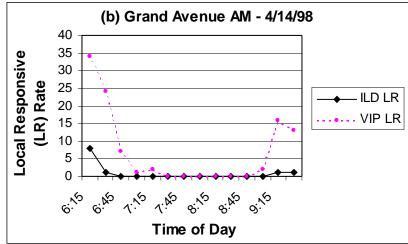


Figure J-127. ILD and VIP ramp and mainline data at Jamboree Road ramp meter for PM rush hours on 3/13/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





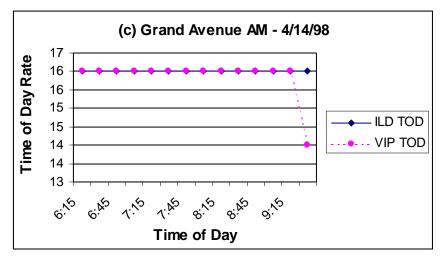
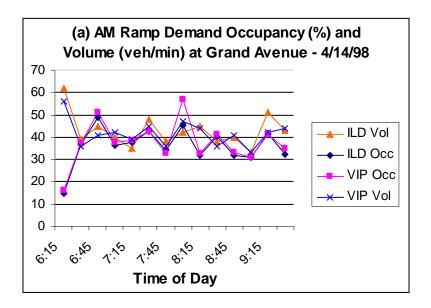


Figure J-128. Ramp meter rates (vehicles/minute) at Grand Avenue for AM rush hours on 4/14/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



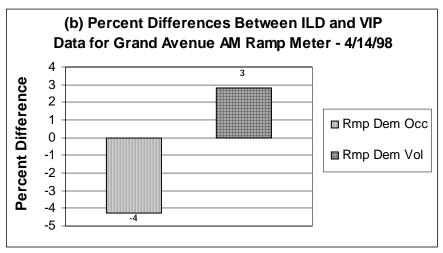
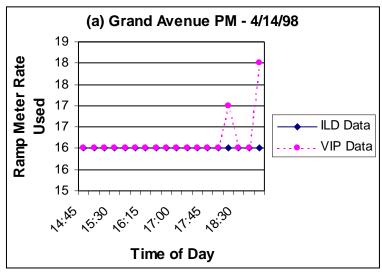
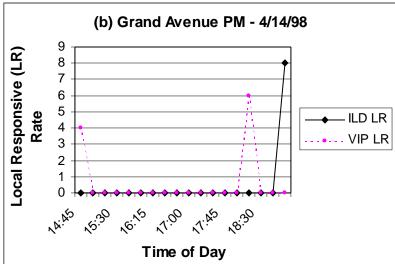


Figure J-129. ILD and VIP ramp and mainline data at Grand Avenue ramp meter for AM rush hours on 4/14/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





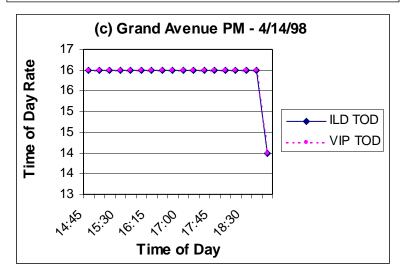
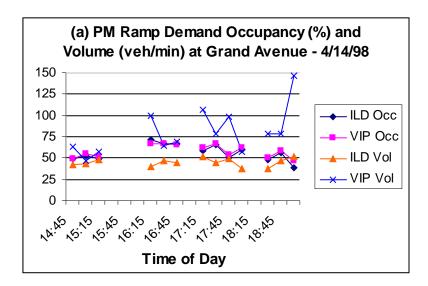


Figure J-130. Ramp meter rates (vehicles/minute) at Grand Avenue for PM rush hours on 4/14/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



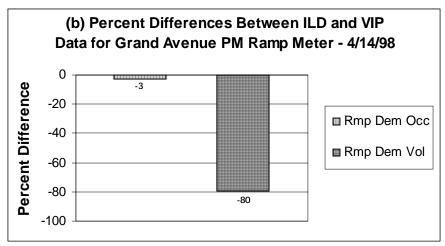
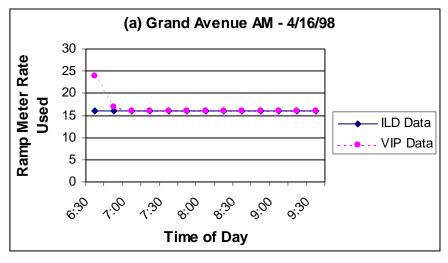
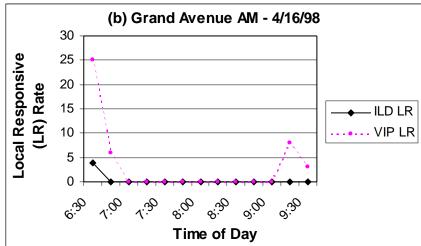


Figure J-131. ILD and VIP ramp and mainline data at Grand Avenue ramp meter for PM rush hours on 4/14/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





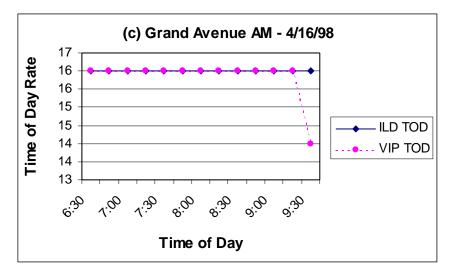
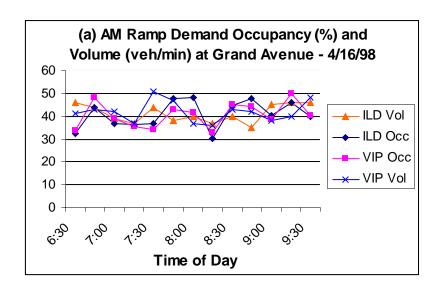


Figure J-132. Ramp meter rates (vehicles/minute) at Grand Avenue for AM rush hours on 4/16/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



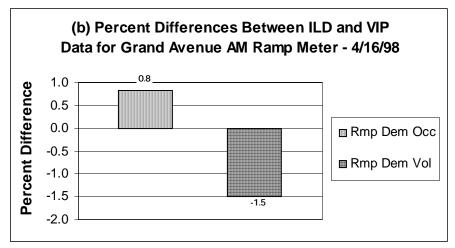
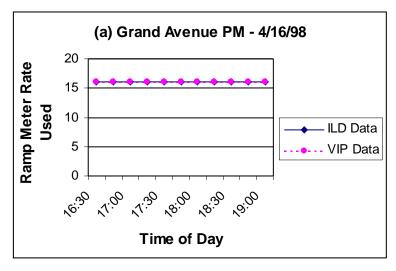
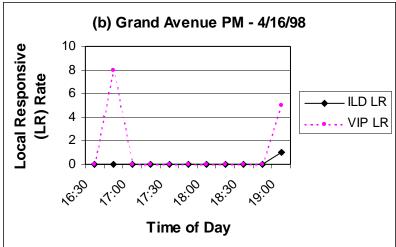


Figure J-133. ILD and VIP ramp and mainline data at Grand Avenue ramp meter for AM rush hours on 4/16/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data





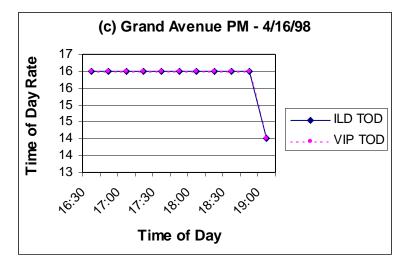
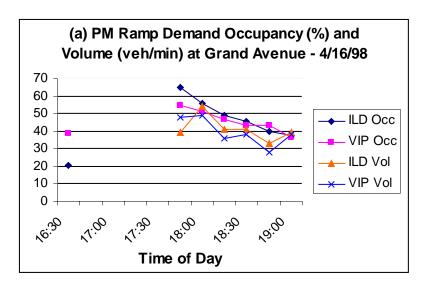


Figure J-134. Ramp meter rates (vehicles/minute) at Grand Avenue for PM rush hours on 4/16/98: (a) Ramp meter rate used, (b) Local responsive rate, (c) Time of day rate



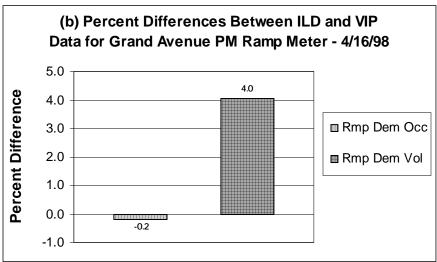


Figure J-135. ILD and VIP ramp and mainline data at Grand Avenue ramp meter for PM rush hours on 4/16/98: (a) Ramp demand occupancy and volume, (b) Percent differences between ILD and VIP data



15-Minute Averages of 170 Controller Output Data Based on VIP and ILD Measurements

Table J-1

----- ADJUSTED -----

CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/5/1998 AT 0530:00 TO 3/5/1998 AT 1000:00 PRINT DATE: 10/01/98 FREEWAY LOCATION: 5 N/B @ TUSTIN TRAILER POST MILE: 28.34

															ADUODIDD	
			142 TAT		MAIN		MAIN		MAIN		MAIN		LOCAT	TION	60 MIN	ESTMD
	MAIN		MAIN		LANE		LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
	LANE	-	LANE		OCC		OCC		OCC	VOL	OCC	VOL	OCC	VOL	TOTALS	(2.38)
TIME	OCC	VOL	OCC	VOL	occ	VO11	000									
			100.00*	Λ	100.00*	0	100.00*	0	100.00*	0			A00.0	A0		
0545:00			49.21*				47.04*			134			35.32A	A0		
0600:00	51.29*		13.75	603	12.81	518	10.21		5 99*	228			13.78A	2925A		71.34
0615:00	16.37	708	15.96	688	15.76		13.04	•	7.00*	284			16.29A	3349A		69.11
0630:00	19.29	783	19.59	795	20.79		17.48	712	9.46*				20.88A	4150A		66.81
0645:00	22.76	895	18.46		20.75		17.66		10.65*	429A			21.63A	4390A		68.23
0700:00	21.63	849	20.67	816	22.57	813	19.57		11.33*				20.99A	3998A		64.02
0715:00	21.96	817	24.72	782	26.76	799	23.29	715	14.76				23.22	3612	16150A	52.28
0730:00	26.59		28.07	724	31.40	772	26.50	697	16.71*	476			26.83A	3412A		42.75
0745:00	31.00	730	26.51	716	29.38	752	24.69	690	17.12*	500			31.89A	4156A		43.81
0800:00	31.79	728		707	29.63	761	26.51	725		498			26.42	3426		43.58
0815:00	31.76	735	26.71	707	28.00	774	24.25	740		499			24.61	3520	14515A	48.08
0830:00	29.55	782	24.91		29.24	795	25.04	746	17.66				25.40	3648		48.28
0845:00	29.79	806	25.27	765	26.66	729	22.05	700	15.67				23.54	3452		49.29
0900:00	28.29	803	25.04	743	16.16	618	13.97	569	9.57*				18.08A	3587A		66.70
0915:00	18.54	743	16.25	668 689	16.52	628	14.05	550	8.66*				18.19A	3558A	14245A	65.74
0930:00	20.11	790	16.96		49.27*		47.56*		43.37*				174.79A	0A		
0945:00	49.76*		48.42*		19.55*		17.81*						44.06A	0A		
1000:00	22.81*	779	19.94*	6/8	19.55	603	17.01	555								
AVERAGE	24.96	786	21.63	727	23.27	726	19.88	660	16.38	502			* = ST	JSPECT/M	ALFUNCTION DATA	A
VARIANCE		2663		2918		7454		8895	1.2	363			A = AI	JUSTED	DATA / =	INACTIVE DETECTOR
VARIANCE	. 41.3	2003	21.2		20.0								ALL VA	ALUES AR	E SUSPECT UNTI	L VERIFIED BY ENGINEER

CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/5/1998 AT 0530:00 TO 3/5/1998 AT 1000:00 PRINT DATE: 10/01/98
FREEWAY LOCATION: 5 N/B @ TUSTIN RANCH POST MILE: 28.35

----- ADJUSTED -----MAIN LOCATION 60 MIN ESTMD MAIN MAIN MAIN MAIN MAIN VOLUME SPEED LANE #1 LANE #2 LANE #3 LANE #4 LANE #5 LANE #6 AVE TOT TOTALS OCC VOL OCC VOL OCC VOL OCC VOL (2.38)TIME OCC VOL OCC VOL OCC VOL 0.00\* 0 5.22A 1024A 65.98 0545:00 0.94 41 6.65 271 5.78 215 7.49 292 \_\_\_ ~~~ 0600:00 7.06 262 8.53 334 0.00\* 6.95A 1349A 65.24 1.50 63 10.72 420 7.94A 1536A 65.06 0615:00 7.98 9.80 378 0.00\* 2.31 98 11.67 463 290 10.33A 1973A 5881A 64 18 0630:00 2.73\* 114 14.36 558 10.57 384 11.94 458 0.00\* 3.63\* 147 17.09 646 13.14 14.59 540 0.00\* 14.94A 2785A 62.65 0645:00 485 15.30A 2873A 63.13 0700:00 4.47\* 185 16.85 646 13.82 504 15.23 574 0.00\* 0715:00 4.50 \* 185 17.34 647 14.72 527 15.25 0.00\* 15.77A 2888A 61.56 19.65 525 20.07 527 0.00\* 20.75A 2797A 11343A 45.29 0730:00 7.71\* 288 20.81 562 41.17A 3044A 24.86 0745:00 7.92\* 278 29.54 445 30.08\* 447 31.63 448 0.00\* 26.63 467 29.52 485 0.00\* 27.61A 2344A 28.54 0800:00 7.77\* 276 28.09 480 n 28.08 29.22 459 27.67 0.00\* 28.19A 2355A 0815:00 7.21\* 252 27.69 485 469 33.62 0830:00 6.36\* 226 25.66 501 23.90 490 24.03 0.00\* 24.53A 2453A 10196A 24.69A 2405A 32.74 0845:00 7.19\* 252 25.84 496 25.04 474 23.19 473 0.00\* 0 0900:00 6.83\* 240 23.56 507 23.30 445 21.87 484 0.00\* 22.91A 2393A 35.12 4.10\* 162 12.73 490 10.68 383 11.03 420 0.00\* 12.16A 2295A 63.44 0915:00 0 6.53 263A 14.58 510A 11.31 390A 12.42 450A 0.00\* 11.21A 2016A 9109A 60.45 0930:00 \* = SUSPECT/MALFUNCTION DATA 59 18.95 480 16.19 397 17.76 436 0.00 AVERAGE 2.82 A = ADJUSTED DATA / --- = INACTIVE DETECTOR 609 46.9 19744 56.1 17353 56.5 14951 0.0 0 VARIANCE 4.8 ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-3

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/9/1998 AT 0530:00 TO 3/9/1998 AT 1000:00 PRINT DATE: 08/25/98 FREEWAY LOCATION: 5 N/B @ TUSTIN TRAILER POST MILE: 28.34

															ADJUSTED	
	MAIN		MAIN		MAIN		MAIN		MAIN		MAIN		LOCAT	CION	60 MIN	ESTMD
	LANE	#1	LANE		LANE		LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME		VOL	occ		OCC	VOL	occ`	VOL	OCC	VOL	OCC	VOL	occ	VOL	TOTALS	(2.38)
0545:00	100.00*	0A	100.00*	0A	100.00*	0A:	100.00*	A0	100.00*	0A			0.00A	AO		
0600:00	48.05*	368	46.44*	299	46.03*	274	44.09*	217	42.29*	121			30.55A	A0		
0615:00	16.84	703	13.11	584	12.92	529	10.14	422	5.29*	224			13.44A	2836A		70.91
0630:00	19.18	814	16.57	716	16.33	647	13.86	545	6.96*	292			17.04A	3519A		69.39
0645:00	29.61*	700	27.30*	624	27.87*	622	24.24*	514	18.31*	298			83.15A	0A		,
0700:00	22.37	791	20.61	766	22.43	774	17.95	673	10.28*	423			22.52A			61.26
0715:00	28.34	790	24.73	761	27.26	792	22.01	740	12.46*	472			27.21A			51.42
0730:00	31.68	794	27.03	762	30.69	793	26.30	748	15.63*	540			31.87A	4396A		46.35
0745:00	30.17	769	25.67	754	29.46	781	25.33	750	14.54*	506			30.09A	4268A		47.67
0800:00	31.21	745	26.93	747	30.98	754	26.91	735	17.51	555			26.71	3536		44.50
0815:00	32.61	792	27.97	769	31.20	789	26.31	779	16.11*	513			29.40A	3984A		45.55
0830:00	31.67	794	26.83	783	30.16	779	23.35	727	14.84*	472			28.73A	4031A	15819A	47.16
0845:00	31.35	782	27.11	791	30.17	789	24.58	752	15.81*	503			31.64A	4437A		47.13
0900:00	31.53	811	27.85	785	30.91	783	25.90	775	18.57	543			26.95	3697		46.11
0915:00	18.39	713	16.40	666	16.45	595	14.85	557	10.59*	372			17.86A	3398A		63.96
0930:00	17.44	679	15.60	615	14.88	568	13.72	520	7.61*	286			15.90A	3076A	14608A	65.01
0945:00	91.02*	99A	90.76*	81A	90.19*	66A	90.12*	59A	89.87*	42A			232.22A	OΑ		
1000:00	***	NO D	ATA ***													
																_
AVERAGE	26.37	767	22.80	731	24.91	721	20.86	671	18.04	549					ALFUNCTION DAT	
VARIANCE	37.7	1754	28.0	4158	47.9	8908	32.5 12	2837	0.3	36						INACTIVE DETECTOR
											,		ALL VA	LUES AR	E SUSPECT UNTI	L VERIFIED BY ENGINEER

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Table J-4

CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/9/1998 AT 0530:00 TO 3/9/1998 AT 1000:00 PRINT DATE: 08/25/98 FREEWAY LOCATION: 5 N/B @ TUSTIN RANCH POST MILE: 28.35

															ADJUSTED	
	MAIN	ī	MAIN	1	MAIN	Ī	MAIN	I	MAIN		MAIN		LOCA	TION	60 MIN	ESTMD
	LANE	#1	LANE	E #2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	occ	VOL	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	occ	VOL	OCC	VOL	TOTALS	(2.38)
0545:00	1.17	50	7.81	320	5.82	221	7.20	282	0.00*	0			5.50A	1091A		66.67
0600:00	1.74	72	10.90	442	8.27	293	8.92	349	0.00*	0			7.46A	1445A		65.13
0615:00	2.60	108	13.36	528	8.91	333	10.33	405	0.00*	0			8.80A	1718A		65.59
0630:00	2.46*	106	14.83	579	10.72	408	12.26	476	0.00*	0			12.23A	2369A	6623A	65.10
0645:00	4.16*	167	16.05	613	13.36	500	14.14	527	0.00*	0			14.54A	2738A		63.29
0700:00	3.78*	154	18.15	586	16.24	532	16.81	524	0.00*	0			17.07A	2737A		53.89
0715:00	5.77*	215	24.38	554	19.83	507	21.96	513	0.00*	0			22.05A	2623A		39.99
0730:00	7.12	257	28.29	520	27.84	481	26.13	494	0.00*	0			27.42A	2492A	10590A	30.54
0745:00	8.06	292	26.20	503	26.04	483	25.59	493	0.00*	0			26.15A	2503A		32.18
0800:00	7.75	274	30.31	466	30.81	448	27.95	459	0.00*	0			29.69A	2288A		25.91
0815:00	7.57*	265	26.84	488	26.18	451	28.57	497	0.00*	0			27.20A	2393A		29.58
0830:00	7.16	242	23.98	484	25.36	454	24.99	472	0.00*	0			24.78A	2350A	9535A	31.88
0845:00	8.01	274	25.27	493	26.18	475	25.10	493	0.00*	0			25.58A	2448A		32.17
0900:00	6.29	220	24.25	482	25.42	443	24.34	450	0.00*	0			24.67A	2292A		31.22
0915:00	3.74	150	12.04	455	11.17	388	11.36	415	0.00*	0			12.19A	2235A		61.65
0930:00	3.42	143	10.89	431	9.39	343	10.02	387	0.00*	0			8.43A	1630A	8605A	65.00
0945:00	4.07	165	11.76	467	10.84	376	10.52	403	0.00*	0			9.30A	1764A		63.77
1000:00	3.87	160	12.07	473	9.94	347	10.64	406	0.00*	0			9.13A	1733A		63.79
AVERAGE	2.81	116	18.74	494	17.35	416	17.60	447	0.00	0			* = S	USPECT/M	ALFUNCTION DA	TA
VARIANCE	1.2	1904	50.6	4226	66.9	6555	56.2	4115	0.0	0			A = A	DJUSTED	DATA /	= INACTIVE DETECTOR
													ALL V	ALUES AR	E SUSPECT UNT	IL VERIFIED BY ENGINEER

Table J-5

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/9/1998 AT 1400:00 TO 3/9/1998 AT 1915:00 PRINT DATE: 08/25/98 FREEWAY LOCATION: 5 N/B @ TUSTIN TRAILER POST MILE: 28.34

															- ADJUSTED		
TIME	MAIN LANE OCC	#1	MAIN LANE OCC		MAIN LANE OCC	#3	MAIN LANE OCC	#4	MAIN LANE OCC	**	MAIN LANE OCC		LOCA' AVE OCC	TION TOT VOL	60 MIN VOLUME TOTALS	ESTMD SPEED (2.38)	
1415:00 1430:00 1445:00 1500:00 1515:00 1530:00	*** ***	NO DO NO DO NO DO	ATA *** ATA *** ATA *** ATA *** ATA ***														
1545:00 1600:00 1615:00	*** 26.52	NO D	ATA *** 26.52 26.23*	653A		616A	26.52 24.89* 19.55	605A	26.52 20.16* 13.37*	466A	26.52 28.79*	0A	26.52A 86.03A 20.28A	A0	240A	0.63  63.43	
1645:00 1700:00 1715:00	20.74 21.81 19.19*	792 825 747	19.07 19.58 17.21*	719 730 659	18.10 18.94 15.89 16.87	666 679 590	17.09 17.96 15.28 16.97	657 561	11.93 12.62 10.96 12.17	497 495 422 456			17.38 18.18 21.17A 17.20	3386 4031A		64.60 62.60 63.99 64.15	
1745:00 1800:00 1815:00	16.34	686 629	15.60 14.64 15.46	604 586 583	14.53 12.91 14.10	566 510 524	14.74 11.99 14.06	576 484 525	10.31 8.99 9.96	392 346 343 390			14.57 13.09 13.98 11.63	2830 2612 2604 2181	12756A	65.28 67.07 62.60 63.06	í
1845:00	12.33 10.05 10.51 98.15*	362	12.37 12.33 11.42 98.19*	425 396	11.91 13.14 10.97 98.14*	434 388	11.30 12.56 10.61 98.12*		10.21 12.45 10.93 98.11*	390 418 397 3A			12.11	2071 1941	8797	57.51 59.92	
AVERAGE VARIANCE							15.72 17.8 3		12.46 21.0 1		26.52 0.0	1 0	A = A	DJUSTED	•	TA : INACTIVE DETECTOR :L VERIFIED BY ENGI	

Fâle grape - Jefori Hâle S

- F-45

Table J-6

CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/9/1998 AT 1400:00 TO 3/9/1998 AT 1915:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ TUSTIN RANCH POST MILE: 28.35

----- ADJUSTED -----LOCATION 60 MIN **ESTMD** MAIN MAIN MAIN MAIN MAIN MAIN LANE #5 LANE #6 TOT VOLUME SPEED LANE #1 LANE #2 LANE #3 LANE #4 AVE TIME OCC VOL OCC VOL OCC VOL OCC VOL OCC VOL OCC VOL OCC VOL TOTALS (2.38)0.00\* 8.19A 1515A 62.16 1415:00 2.98 121 9.83 384 10.58 354 9.38 353 --- ---0.00\* 8.88A 1626A 61.54 10.24 1430:00 3.31 135 10.94 425 11.04 360 381 ---9.68A 1781A 61.83 1445:00 11.88 466 11.39 372 11.09 414 0.00\* ---4.37 173 13.16 513 12.51 406 11.71 0.00\* 13.13A 2409A 7331A 61.67 1500:00 6.05\* 244 433 9.68A 1775A 61.63 1515:00 4.80 195 11.44 451 11.68 372 10.81 402 0.00\* 1530:00 12.98 12.51 421 12,31 452 0.00\* 0 13.88A 2548A 61.69 6.75\* 267 498 7.33\* 287 13.01 507 13.74 432 12.63 463 0.00\* 13.70A 2475A 60.71 1545:00 14.90 15.21A 2671A 9468A 59.02 1600:00 8.27\* 320 550 14.24 446 13.74 0.00\* 12.28 475 11.73 391 11.56 0.00\* 12.25A 2270A 62.29 1615:00 6.87\* 278 11.94 396 12.21 0.00\* 14.51A 2638A 61.11 1630:00 7.52\* 288 13.61 517 447 10.97 0.00\* 12.74A 2343A 61.84 1645:00 5.90\* 223 11.40 441 10.69 357 414 1700:00 13.34 515 12.26 403 12.08 442 0.00\* 12.83A 2337A 9589A 61.25 6,20\* 245 9.39A 1788A 64.01 1715:00 5.53 222 11.44 454 10.46 369 10.12 385 0.00\* 1730:00 7.51\* 300 13.70 526 11.90 12.20 451 0.00\* 13.74A 2553A 62.45 410 0.00\* 9.16A 1730A 63.45 1745:00 6.16 244 10.63 415 10.07 351 9.81 374 7703A 9.47 355 0.00\* 8.65A 1633A 63.40 1800:00 5.40 214 10.75 416 8.99 321 63.70 8.38 0.00\* 7.88A 1493A 1815:00 4.85 192 9.02 359 9.25 323 320 63.69 8.64 304 8.27 319 0.00\* 7.57A 1434A 1830:00 4.30 170 9.05 354 7.50A 1404A 62.94 1845:00 3.61 146 8.59 330 8.99 315 8.81 332 0.00\* 7.39 284 0.00\* 6.45A 1233A 5563A 64,23 1900:00 2.97 125 7.32 295 8.13 282 6.80 259 0.00\* 5.85A 1104A 63.39 256 7.53 256 0 1915:00 2.80 112 6.28 --- ---\* = SUSPECT/MALFUNCTION DATA 0.00 0 AVERAGE 4.26 171 11.22 436 10.87 364 10.48 390 A = ADJUSTED DATA / --- = INACTIVE DETECTOR VARIANCE 1.2 1735 4.8 6264 3.1 2388 3.3 3700 0.0 0

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

J-144 Table J-7

CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/10/1998 AT 0530:00 TO 3/10/1998 AT 1000:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ TUSTIN TRAILER POST MILE: 28.34

															ADJUSTED	
	MAIN		MAIN		MAIN		MAIN		MAIN		MAIN		LOCAT	rion	60 MIN	ESTMD
	LANE	#1	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	occ	VOL	OCC	VOL	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	occ	VOL	TOTALS	(2.38)
0545:00	100.00*	0A:	100.00*	0A	100.00*	0A:	100.00*	0A:	100.00*	OΑ			A00.0	0A		~====
0600:00	47.32*	357	45.56*	313	45.00*	285	44.07*	236	41.56*	116			31.24A	ΑO		~~-~-
0615:00	17.30	712	14.53	588	12.54	486	10.86	418	5.53*	213			14.01A	2795A		67.04
0630:00	20.36	793	16.06	660	14.48	571	12.90	504	7.20*	280			16.42A	3250A		66.53
0645:00	24.19	867	20.71	781	21.14	686	19.03	614	9.46*	354			21.94A	3811A		58.39
0700:00	25.60	869	21.55	774	23.49	737	21.74	667	10.97*	436	-~-		24.65A	4125A		56.25
0715:00	32.21	808	26.50	741	26.43	691	25.60	658	13.90*	449			30.23A	4025A		44.75
0730:00	29.04	824	25.29	766	25.84	724	25.91	687	15.16*	482			29.76A	4265A	16227A	48.18
0745:00	30.04	814	27.10	761	27.33	730	25.16	680	16.41	493			25.21	3478		46.38
0800:00	31.96	791	28.65	721	31.99	713	26.15	672	18.05	483			27.36	3380		41.52
0815:00	33.22	814	28.97	746	29.32	676	26.22	689	18.84	512			27.31	3437		42.30
0830:00	39.75	688	37.73	680	38.48	599	32.39	634	22.99	493			34.27	3094	13389	30.35
0845:00	33.94	787	29.76	760	30.77	681	26.93	684	18.90*	477			30.91A	3734A		40.61
0900:00	32.54	796	30.05	767	27.70	689	24.70	668	17.29	491			26.46	3411		43.34
0915:00	31.07	844	27.49	777	26.23	694	22.62	668	16.87	493			24.85	3476		47.01
0930:00	19.80	745	16.84	648	15.81	584	14.11	522	8.99*	323			17.11A	3208A	13829A	63.04
0945:00	18.74	766A	16.60	685A	15.71	586A	14.18	556A	9.11*	335A			18.02A	3568A		66.55
1000:00	***	NO D	*** ATA													
AVERAGE	27.98	766	24.52	698	24.48	634	21.90	600	18.41	494			* = SI	JSPECT/M	ALFUNCTION DAT	'A
VARIANCE	41.0 1	808	40.4 14	4530	50.0 1	4981	36.8 19	5326	4.8	76			A = AI	OJUSTED	DATA / =	INACTIVE DETECTOR
													ALL V	ALUES AR	E SUSPECT UNTI	L VERIFIED BY ENGINEER

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/10/1998 AT 0530:00 TO 3/10/1998 AT 1000:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ TUSTIN RANCH POST MILE: 28.35

															ADJUSTED	
	MAIN		MAIN		MAIN		MAIN	Ī	MAIN		MAIN		LOCAT	TION	60 MIN	ESTMD
	LANE	#1	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	occ	VOL	OCC	VOL	TOTALS	(2.38)
0545:00	1.07	46	7.36	302	5.94	217	6.58	264	0.00*	0			5.24A	1036A		66.52
0600:00	1.69	69	9.59	396	7.11	269	7.94	319	0.00*	0			6.58A	1316A		67.22
0615:00	2.58	108	11.78	466	8.56	320	10.19	398	0.00*	0			8.28A	1615A		65.59
0630:00	2.91*	123	14.08	547	10.42	388	11.62	445	0.00*	0			10.69A	2044A	6012A	64.29
0645:00	3.94*	163	16.07	600	12.98	456	13.95	512	0.00*	0			14.35A	2618A		61.32
0700:00	4.95*	204	18.25	606	14.99	503	15.88	528	0.00*	0			16.43A	2740A		56.07
0715:00	5.40*	205	28.00	493	24.92	475	25.54	468	0.00*	0			26.16A	2393A		30.76
0730:00	7.64*	292	22.94	532	24.17	503	23.23	509	0.00*	0			23.78A	2637A	10388A	37.27
0745:00	8.41*	297	25.20	501	25.76	490	25.70	482	0.00*	0			25.79A	2495A		32.52
0800:00	9.06*	308	26.65	450	30.36	442	27.78	444	0.00*	0			28.26A	2227A		26.48
0815:00	7.29*	254	28.13	488	26.92	429	27.06	472	0.00*	0			27.44A	2328A		28.52
0830:00	6.97*	239	38.11	371	38.11	336	38.82	370	0.00*	0			40.07A	2092A	9142A	17.54
0845:00	8.51*	275	29.87	460	27.27	440	27.29	450	0.00*	0			27.00A	2190A		27.27
0900:00	6.76*	238	24.52	502	22.87	455	23.84	486	0.00*	0			23.75A	2405A		34.04
0915:00	7.70*	269	24.57	501	21.97	435	22.66	481	0.00*	0			23.07A	2362A		34.41
0930:00	4.26*	167	12.96	476	11.93	404	11.42	417	0.00*	0			12.33A	2205A	9162A	60.13
0945:00	4.17*	177A	10.90	429A	10.70	363A	11.29	432A	0.00*	0A			11.90A	2240A		63.25
1000:00	***	NO D	ATA ***													
AVERAGE	1.78	74	20.53	461	19.12	393	19.46	423	0.00	0			* = St	JSPECT/M	ALFUNCTION DAT	'A
VARIANCE	0.4	655	70.2 1	1678	83.7 1	0875	76.7	9450	0.0	0			A = AI	JUSTED :	DATA / =	INACTIVE DETECTOR
													ALL VA	ALUES AR	E SUSPECT UNTI	L VERIFIED BY ENGINEER

Table J-9

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/10/1998 AT 1400:00 TO 3/10/1998 AT 1915:00 PRINT DATE: 07/28/98 POST MILE: 28.34 FREEWAY LOCATION: 5 N/B @ TUSTIN TRAILER

							ADJ	USTED		
TIME	MAIN MAIN LANE #1 LANE OCC VOL OCC		#3 LANE		E #5 L	MAIN ANE #6 DCC VOL	AVE TOT	60 MIN Volume Totals	ESTMD SPEED (2.38)	
	•••		-				Lanes 2-4			
1415:00	*** NO DATA ***									
1430:00	*** NO DATA ***									
1445:00	*** NO DATA ***									
1500:00	*** NO DATA ***									
1515:00	*** NO DATA ***									
1530:00	*** NO DATA ***		•							
1545:00	*** NO DATA ***									
1600:00	*** NO DATA ***		2044 20 40	70/4 1/ 20	EE44 -	21,44	<del>20:60</del> a <del>3852</del> a 2400		62.86	
1615:00		815A 22.20		784A 14.20 719 13.10		19,24	18-81- 3555 2195		63.54	
1630:00	23.20 849 19.80	755 19.67	721 18.26 709 18.01	679 12.99		19.6.4	18:06 3395 2103		63.20	
1645:00	21.38 786 19.23 21.84 823 19.37	715 18.67 734 19.30	705 17.37	626 12.76		344 4 63	18 <del>.13</del> 3395 2065	14197A	62.95	Enter in Workshoot 8
1700:00		739 18.97	723 17.69	640 13.92	50.	18,75 .	18-49 3445 7 in 17.		62.64	
1715:00	22.24 831 19.60 21.69 817 19.37	714 18.44	650 17.14	628 14.08		18.32	18.14 3302 1942		61.17	
1730:00 1745:00	17.65 705 15.87	624 15.03	559 14.45	566 10.27		15.12	15-38A 2989A 1744		65.31	
1800:00	17.33 678 14.63	605 13.49	502 12.81				13.49 2634 1613	12370A	65.63	
1815:00	14.99 609 14.13	564 12.89	499 12.49			12.1/	15-03A 2954A 1557		66.05	
1830:00	13.00 512 12.75	507 12.09	474 11.86	471 9.76		1420	11.89 -2344 1452		66.25	
1845:00	11.86 412 12.57	449 12.17	426 11.56	429 11.97		12,10	12:03 -2145 1304		59.95	
1900:00	11.86 431 12.91	457 12.07	•	420 12.23	428 -	12.48	12.30 2153 1294	9596A	58.83	
1915:00	97.91* 3A 97.93*				* 5A -	!	54 <del>.2</del> 9A OA			
.,										•

AVERAGE 11.08 398 10.11 366 9.75 342 11.08 331 10.49 246 15.21 0 \* = SUSPECT/MALFUNCTION DATA VARIANCE 93.5 \*\*\*\*\* 74.3 97379 70.7 86291 93.5 79058 100.3 51143 431.0

21 Table 15-2

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O A = ADJUSTED DATA / --- = INACTIVE DETECTOR ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/10/1998 AT 1400:00 TO 3/10/1998 AT 1915:00 PRINT DATE: 07/28/98
FREEWAY LOCATION: 5 N/B @ TUSTIN RANCH POST MILE: 28.35

															- ADJUS	STED		
	MAII	1	MAIN		MAIN		MAIN		MAIN		MAIN		LOCA	TION	60	MIN C	ESTMD	
	LAN	#1	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	V	DLUME	SPEED	
TIME	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	TO	DTALS	(2.38)	
													Long	12-4				
1415:00	**1	NO D	ATA ***											•				
1430:00	**	NO D	ATA ***															
1445:00	**	NO D	ATA ***			•												
1500:00	**1	NO D	ATA ***															
1515:00	***	NO D	ATA ***															
1530:00	**1	NO D	ATA ***															
1545:00	**	NO D	ATA ***															
1600:00	**	NO D	ATA ***									1296						
1615:00	7.54	303A	13.73	522A	12.02	408A	13.13	488A	0.00*	OA			11.45A	2207A	418		62.20	
1630:00	6.51	257	13.09	499	12.03	399	12.54	458	0.00*	0		14177	14 <del>:1</del> 8A	2585A	1356		61.27	
1645:00	6.46	256	12.14	464	11.43	381	10.95	409	0.00*	0		46.0	1 <del>0.2</del> 4A	1 <del>885</del> A	1254		61.93	
1700:00	6.78	267A	12.68	488A	12.33	395A	12.03	439A	0.00*	0A		1,4,27	11 <del>.92</del> A	1888A 2158A	1322	8838A	60.88	
1715:00	6.20	241	12.25	471	11.66	398	11.30	424	0.00*	0		U1.77	1373A	25434	202		62.26	
1730:00	7.23	283	13.70	514	12.40	419	12.19	451	0.00*	0		12/6	14 414	2636A	1384		61.47	
1745:00	6.19	241	10.94	427	10.25	345	9.96	374	0.00*	0		(0) 20	1 <del>2.0</del> 6A	2 <del>23</del> 8A	1146		62.38	
1800:00	6.13	242	11.00	436	9.69	332	10.04	375	0.00*	0		10:24	9-21A	1731A	1143	9148A	63.17	
1815:00	4.69	183	8.10	320	8.26	297	8.52	320	0.00*	0		8,29	7 <del>.3</del> 9A	1400A	937		63.66	
1830:00	5.06	203	9.72	379	8.92	312	9.40	346	0.00*	0		9,35 8,88	8 <del>.27</del> A	1550A	10.57		62.98	
1845:00	3.94	159	8.72	350	9.37	322	8.55	323	0.00*	0		\$ 20	7-64A	1443A	1913		63.44	
1900:00	3.67	150	8.96	357	8.39	298	8.77	328	0.00*	0		8:71	7 <del>:45</del> A	1416A	183	5809A	63.93	
1915:00	3.62	146A	6.72	272A	7.06	260A	7.23	282A	0.00*	OA		<u>√6</u> 0	<del>6.1</del> 6A	1.198A	814		65.41	
AVERAGE	2.24	86	6.75	249	6.37	207	3.52	227	0.00	0	3.52	0	* = \$1	JSPECT/	MALFUN	CTION D	DATA	
VARIANCE	6.2	9670	31.0 4		26.8 2		8.7 3		0.0	0	8.7	Ô		JUSTED			= INACTIVE DETE	CTOR
TANTANGE	0.2	,510	3110 7		20,0 L		0.1 5	<del>-</del>	0.0	•	<b></b> .	-	-			•	VERIFIED BY ENGI	

## Table J-11

CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/11/1998 AT 1400:00 TO 3/11/1998 AT 1915:00 PRINT DATE: 10/01/98
FREEWAY LOCATION: 5 N/B @ JAMBOREE TRAILER POST MILE: 27.54

															ADJUSTED	
	MAIN	ŗ	MAIN	ī	MAIN		MAIN		MAIN	!	MAIN		LOCA	TION	60 MIN	ESTMD
	LANE	#1	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	occ	VOL	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	occ	VOL	occ	VOL	TOTALS	(2.38)
1415.00	***	NO I	OATA ***													
1430:00			DATA ***													
1445:00			100.00*		A100.00*	0.2	A100.00*	ΩZ	100.00*	0A			0.00A	0A		
1500:00	35.27*		39.78*	-					35.03*				53.33A			
1515:00	13.29	489	19.11	711		648	14.57	551	12.94	524			15.57	2923		63.09
1530:00	17.89	592	22.30	783	19.33	673	14.08	564	12.00	502			17.12	3114		61.14
1545:00	19.00	606	20.96	766	17.97	655	15.19	570	12.34	515			17.09	3112		61.21
1600:00	22.87	693	24.26	810	19.43	661	16.13	585	12.59	488			19.06	3237	12386	57.10
1615:00	18.76	717	21.74	795	18.85	640	15.90	575	11.34*				19.52A			61.69
1630:00	15.29	617	18.13	670	15.63	536	12.58	436	9.54	394				2653		62.65
1645:00	13.81	561	17.30	629	13.92	482	12.17	434	9.64*	354			15.67A	2886A		61.89
1700:00	13.91	598	16.21	583	14.33	492	12.87	439	10.99	428			13.67	2540	11660A	62.48
1715:00	13.80	587	16.10	575	14.47	536	11.86	434	10.23	418			13.29	2550		64.49
1730:00	14.83	607	17.37	573	14.46	458	12.80	433	10.89	396			14.07	2467		58.94
1745:00	11.52	468	10.91	411	9.81	347	9.27	330	8.33	321			9.97	1877		63.29
1800:00	11.32	459	11.15	419	9.77	348	8.97	334	7.24	271			9.69	1831	8725	63.51
1815:00	10.00	407	10.47	380	9.74	336	8.29	300	6.00	231			8.90	1654		62.47
1830:00	9.95	369	13.10	445	13.34	417	11.33	369	7.99*	286			12.44A	2119A		57.25
1845:00	10.88	376	12.87	426	15.55	429	13.67	375	9.84	293			12.56	1899		50.81
1900:00	10.33	355	13.25	416	14.12	423	12.47	389	9.85	320			12.00	1903	7575A	53.29
1915:00	98.96*	4	98.89*	3	98.87*	2	98.87*	2	98.87*	2			39.68A	0A		

AVERAGE 14.22 531 16.58 587 14.92 505 12.63 445 10.21 392 --- \*= SUSPECT/MALFUNCTION DATA

VARIANCE 13.3 12464 17.7 22826 9.9 13561 5.2 8650 4.1 8957 --- A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

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Table J-12

#### CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/11/1998 AT 1400:00 TO 3/11/1998 AT 1915:00 PRINT DATE: 10/01/98
FREEWAY LOCATION: 5 N/B @ JAMBOREE 1 POST MILE: 27.55

														- ADJUSTED	
	MAIN		MAIN		MAIN		MAIN		MAIN		MAIN		LOCATION	60 MIN	ESTMD
	LANE		LANE		LANE		LANE		LANE		LANE		AVE TOT	VOLUME	SPEED
TIME	OCC	AOL	occ	VOL	occ	VOL	occ	AOL	occ	VOL	OCC	VOL	OCC VOL	TOTALS	(2.38)
1415:00	***	NO DA	T7 ***												
1430:00		NO DA													
1445:00	13.43	411A	0.00*	ΩΔ	14.01	3604	9.74	2827	11.00	282A			12.05A 1669A		46.56
1500:00	12.50	356	0.00*		12.53	337	9.51		10.67	264		~	11.30A 1528A	6393A	45.42
1515:00	11.98	361	0.00*		13.11	334	10.89	283	12.19	283			12.04A 1576A	0373	43.99
1530:00	14.43	408	0.00*	0	13.39	347	10.24	270	11.50	271			12.39A 1620A		43 95
1545:00	12.93	394	0.00*		13.71	359	10.37	289	11.80	288			12.20A 1663A		45.80
1600:00	14.23	408	0.00*	0	15.00		11.93		13.52	313			13.67A 1765A	6624A	43.40
1615:00	12.99	380	0.00*		14.32		10.53	287	11.87	287			12.43A 1649A	55255	44.60
1630:00	11.61	369	0.00*		12.14	335	9.75	284	11.19	284			11.18A 1590A		47.83
1645:00	11.51	359	0.00*	0	11.90	348	10.47	297	11.77	296			11.41A 1625A		47.86
1700:00	11.66	359	0.00*		12.11	342	10.50		11.94	305			11.55A 1638A	6501A	47.64
1715:00	11.75	372	0.00*		11.60	340	10.69		12.32	323			11.59A 1698A	00021.	49.23
1730:00	13.94	404	0.00*	0	13.67	398	13.71	390	15.06	389			14.10A 1976A		47.12
1745:00	10.14	325	0.00*		11.19	325	11.06	333	12.58	332			11.24A 1644A		49.15
1800:00	10.81	323	0.00*	0	11.22	336	9.94	287	11.29	286			10.81A 1540A	6858A	47.86
1815:00	9.51	319	0.00*	0	10.01	289	8.36	250	9.65	250			9.38A 1385A		49.61
1830:00	10.29	322	0.00*		10.91	310	9.21	269	10.34	269			10.19A 1463A		48.26
1845:00	11.97	312	0.00*	0	12.62	311	10.63	264	11.58	264			11.70A 1439A		41.33
1900:00	9.17	303	0.00*	0	9.31	282	8.65	264	10.00	264			9.28A 1391A	5678A	50.38
1915:00	8.52	276	0.00*	0	8.46	271	6.58	216	7.55	215			7.78A 1223A		52.84
2520.00			•••	_	•			_							
AVERAGE	11.76	341	0.00	0	12.17	322	10.15	278	11.46	278			* = SUSPECT	MALFUNCTION DAT	A
VARIANCE	2.8	3676	0.0	0	2.8	3224	2.0	3126	2.3	3114			A = ADJUSTEI	DATA / =	INACTIVE DETECTOR
													ALL VALUES A	ARE SUSPECT UNTI	L VERIFIED BY ENGINEER

Table J-13

CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/12/1998 AT 0530:00 TO 3/12/1998 AT 1000:00 PRINT DATE: 08/25/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE TRAILER POST MILE: 27.54

														<del>-</del>	ADJUSTED	
	MAIN		MAIN		MAIN		MAIN		MAIN		MAIN		LOCAT	rion	60 MIN	ESTMD
	LANE	#1	LANE		LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	OCC	•		VOL	occ	VOL	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	TOTALS	(2.38)
		0.7	4 0 0 0 0 <del>+</del>	0.73	100.00*	021	100.00*	0.4.0	100.00*	0.A			0.00A	A0		
0545:00			100.00* 43.14*		42.52*		41.87*		40.06*	90			20.67A	0A		
0600:00	44.90*			424	9.46	352	7.27	274	4.58	185			8.63	1746		68.00
0615:00	11.31	511	10.54		10.89	409	9.20	333	5.82*				11.37A	2238A		66.16
0630:00	12.87	569	13.00	509 570	13.29	475	12.14	426	7.97*				15.01A	2909A		65.14
0645:00	15.18	678	14.91	588	14.44	498	13.67	472	9.15*				16.90A	3145A		62.54
0700:00	15.93	677	16.36	562	16.98		15.43	476	10.43*				18.66A	3103A		55.90
0715:00	15.46	593	17.38 24.46	582	27.30	588	23.17	526	15.14				22.97	2674	11830A	39.14
0730:00	24.76	522	32.91	525	31.33	541	27.02	519	18.23				27.21	2493		30.80
0745:00	26.55	493	32.91		27.42	480	23.54	482	16.33*				38.73A	3542A		30.74
0800:00	26.70	481	30.44	541	28.13	478	23.70	472	15.29*				27.25A	2602A		32.10
0815:00	24.89	508		500	29.35	500	23.48	476	15.81*				30.31A	2848A	11485A	31.59
0830:00	26.38	480	31.05	549	28.20	527	23.29		18.57*				30.76A	3059A		33.42
0845:00	24.41	511	30.23	510	25.10	503	20.41	455	14.77*		<b>-</b>		32.70A	3562A		36.62
0900:00	22.87*		27.92		12.09		10.91	360	8.11*				14.14A	2521A		59.94
0915:00	12.58		15.16*		. 11.75		10.26		6.22*				11.43A	2167A	11309A	63.72
0930:00	11.78		14.49		. 11.75 . 98.19*								53.24A	0A		
0945:00	98.22*		98.27*		. 96.19	TIM	20.20		,0,22							
1000:00	***	NO D	ATA ***													
				E 3.0	20 47	170	17 30	436	12.65	352			* = S1	USPECT/M	ALFUNCTION DAT	ATA .
	19.14	540	21.97			3664		5166	34.2 1				A = A	DJUSTED	DATA / =	= INACTIVE DETECTOR
VARIANCE	38.0	4420	62.7	1848	63.6	2004	46.3	2100	J 2 1				ALL V	ALUES AF	E SUSPECT UNTI	L VERIFIED BY ENGINEER

and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

# Table J-14

CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/12/1998 AT 0530:00 TO 3/12/1998 AT 1000:00 PRINT DATE: 08/25/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE 1 (11) POST MILE: 27.55

															ADJUSTED	
	MAIN		MAIN		MAIN		MAIN		MAIN		MAIN		LOCA.	rion	60 MIN	ESTMD
	LANE	#1	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	occ	VOL	OCC	VOL	OCC	VOL	TOTALS	(2.38)
0545:00	6.18	225A	0.00*	0A	7.61	237A	4.66	111A	5.09	111A			5.88A	855A		48.85
0600:00	7.04	253	0.00*	0	7.43	231	5.05	161	5.86	161			6.34A	1008A		53.38
0615:00	9.03	324	0.00*	0	9.71	268	6.22	190	7.13	191			8.02A	1216A		50.96
0630:00	10.63	386	0.00*	0	11.25	341	7.81	249	9.07	248			9.69A	1530A	4609A	53.07
0645:00	13.44	452	0.00*	0	14.01	431	10.73	322	11.97	322			12.54A	1909A		51.17
0700:00	15.27	507	0.00*	0	14.86	473	11.89	366	13.69	367			13.93A	2141A		51.68
0715:00	16.99	505	0.00*	0	16.59	478	13.76	386	15.39	384			15.68A	2191A		46.97
0730:00	32.21	452	0.00*	0	32.16	435	31.64	481	33.15	481			32.29A	2311A	8553A	24.06
0745:00	41 91	387	0.00*	0	37.10	396	34.74	433	35.94	433			37.42A	2061A		18.51
0800:00	37.36	396	0.00*	0	38.30	399	33.57	432	35.54	433			36.19A	2075A		19.27
0815:00	37.23	391	0.00*	٥	37.80	402	29.94	426	31.49	426			34.12A	2056A		20.26
0830:00	37.54	399	0.00*	0	33.34	405	27.75	427	29.05	426			31.92A	2071A	8264A	21.81
0845:00	32.67	440	0.00*	0	32.93	398	31.74	447	32.72	446			32.52A	2164A		22.37
0900:00	30.74	409	0.00*	0	29.47	377	25.55	428	27.39	427			28.29A	2051A		24.37
0915:00	12.11	363	0.00*	0	12.56	340	10.20	275	11.48	274			11.59A	1565A		45.39
0930:00	11.68	381	0.00*	0	12.30	356	9.03	251	10.40	249			10.85A	1546A	7326A	47.90
0945:00	10.87	363A	0.00*	0A	11.09	303A	8.30	224A	9.19	224A		<b>-</b>	9.87A	1391A		47.40
1000:00	***	NO DA	*** AT.													
AVERAGE	21.35	374	0.00	0	21.09	354	17.80	321	19.09	321			* = SI	JSPECT/M	ALFUNCTION DAT	'A
VARIANCE	155.1 1	0497	0.0	0	133.5 1	0283 1	124.9 1	5971	129.4 1	5950			A = AI	DJUSTED	DATA / =	INACTIVE DETECTOR
													ALL V	ALUES AR	E SUSPECT UNTI	L VERIFIED BY ENGINEER

Table J-15

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/12/1998 AT 1400:00 TO 3/12/1998 AT 1915:00 PRINT DATE: 08/25/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE TRAILER POST MILE: 27.54

															ADJUSTED		
	MAIN		MAIN		MAIN		MAIN		MAIN		NIAM		LOCA'	TION	60 MIN	ESTMD	
	LANE	#1	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED	
TIME	occ			VOL	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	TOTALS	(2.38)	
11112	000																
1415:00	***	NO D	ATA ***														
1430:00	***	NO D	ATA ***														
1445:00	100.00*	0A	100.00*	07	100.00*	0.A	100.00*	0.A	100.00*	0A		- <b>-</b> -	0.00A	0A			
	47.90*	344	50.34*	442	48.75*	364	46.79*	291	45.53*	272			44.03A	A0			
1515:00	13.21	538	18.65	724	16.05	584	12.15	438	10.00	385			14.01	2669		64.02	
1530:00	16.42	634	20.79	765	17.67	660	13.91	534	11.03	439			15.96	3032		63.84	
1545:00	16.38	614	19.75	660	14.57	495	11.43	391	8.34*	317			16.02A	2812A		59 00	
1600:00	17.89	662	19.81	635	14.34	453	12.44	410	8.20*	285			17.60A	2955A	11468A	56.44	
1615:00	17.03	627	19.75	660	14.33	461	10.89	367	6.90*	262			16.33A	2809A		57.80	
1630:00	15.50	597	17.06	599	12.66	424	11.54	413	7.83*	292			15.62A	2806A		60.38	
1645:00	13.95	543	17.10	601	11.07	386	10.23	370	6.22*	225			13.71A	2493A		61.11	•
1700:00	14.00	548	17.44	600	11.50	410	8.97	339	7.11*	279			13.86A	2555A	10663A	61.99	
1715:00	14.19	576	16.46*	591	11.49	422	9.77	356	7.17*	268			16.43A	3069A		62.78	
1730:00	14.28	586	17.56	618	12.42	449	10.94	412	8.35	332			12.71	2397		63.38	
1745:00	11.44	462	13.27	482	10.47	378	9.01	341	7.79	315			10.40	1978		63.95	
1800:00	10.06	425	11.71	437	9.01	324	8.33	307	6.50	255			9.12	1748	9192A	64.40	
1815:00	9.78	386	12.30	413	10.75	348	8.77	303	7.24	268			9.77	1718		59.11	
1830:00	9.18	340	13.39	447	12.90	414	10.97	361	7.41	272			10.77	1834		57.23	
1845:00	9.78	352	13.81	446	14.51	437	11.99	379	8.49	287			11.72	1901		54.54	
1900:00	10.28	354	15.31	464	15.03	444	12.35	385	9.38	296			12.47	1943	7396	52.38	
1915:00	98.75*		98.76*	3	98.79*	3	98.80*	2	98.73*	2			16.22A	0A			
1313.00	,,,,																
AVERAGE	13.34	515	16.51	570	13.05	443	10.86	382	8.47	317			* = S	USPECT/M	ALFUNCTION DAT	ΓA	₹*
VARIANCE			8.5 1			5473	2.3	2866	1.9	3261			A = A	DJUSTED	DATA / =	= INACTIVE	DETECTOR
			_										ALL V	ALUES AF	RE SUSPECT UNT	L VERIFIED	BY ENGINEER

+\* +<sub>\*</sub> +<sub>\*</sub>

Table J-16

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/12/1998 AT 1400:00 TO 3/12/1998 AT 1915:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ JAMBOREE 1 POST MILE: 27.55

													- ADJUSTED	~~~~~
	MAIN		MAIN		MAIN	r	MAIN		MAIN		MAIN	LOCATION	60 MIN	ESTMD
	LANE		LANE	#2	LANE		LANE		LANE		LANE	AVE TOT	VOLUME	SPEED
TIME	OCC	•	occ			VOL	OCC		OCC	•	occ	OCC VOL	TOTALS	(2.38)
1415:00	***	NO DA'	TA ***											
1430:00	***	NO DA	TA ***											
1445:00	17.49	492A	0.00*	0A	17.86	453A	14.57	357A	15.90	351A		 16.45A 2066A		42.21
1500:00	12.81	374	0.00*	0	13.63	354	10.44	271	11.51	272		 12.10A 1589A	7310A	44.14
1515:00	11.80	345	0.00*	0	12.47	328	9.78	256	10.80	256		 11.21A 1481A		44.41
1530:00	13.86	381	0.00*	0	14.34	361	11.10	301	12.61	300		 12.98A 1679A		43.48
1545:00	13.95	387	0.00*	0	13.45	351	10.89	307	12.19	305		 12.62A 1688A		44 95
1600:00	14.32	405	0.00*	0	15.54	384	11.72	302	13.02	301		 13.65A 1740A	6588A	42.85
1615:00	14.74	415	0.00*	0	13.33	358	10.01	287	11.44	287		 12.38A 1684A		45.72
1630:00	12.91	390	0.00*	0	14.21	400	10.67	302	11.96	301		 12.44A 1741A		47.05
1645:00	12.11	351	0.00*	0	12.71	372	9.22	262	10.47	261		 11.13A 1558A		47.04
1700:00	12.00	382	0.00*	0	11.67	336	10.32	308	11.75	306		 11.44A 1665A	6648A	48.94
1715:00	11.93	396	0.00*	0	11.96	338	10.36	296	11.84	297		 11.52A 1659A		48.39
1730:00	13.82	421	0.00*	0	14.37	418	12.37	373	14.16	370		 13.68A 1978A		48.58
1745:00	11.21	350	0.00*	0	11.34	346	11.53	335	12.55	335		 11.66A 1708A		49.23
1800:00	9.21	302	0.00*	0	9.91	299	9.81	295	11.31	295		 10.06A 1489A	6833A	49.73
1815:00	10.06	308	0.00*	0	10.24	302	9.92	298	11.38	298		 10.40A 1508A		48.73
1830:00	9.80	301	0.00*	0	11.18	303	8.08	239	8.94	238		 9.50A 1351A		47.81
1845:00	10.05	312	0.00*	0	10.78	312	8.08	249	9.30	248		 9.55A 1401A		49.32
1900:00	9.63	308	0.00*	0	10.04	285	7.97	244	9.21	244		 9.21A 1351A	5611A	49.31
1915:00	7.19	243	0.00*	0	7.62	244	6.65	217	7.59	217		 7.26A 1151A		53.29
AVERAGE	12.05	344	0.00	0	12.46	329	10.18	277	11.47	276		 * = SUSPECT/I	MALFUNCTION DAT	'A
VARIANCE	5.5	3947	0.0	0	5.2	3403	3.0	2636	3.4	2629		 A = ADJUSTED	DATA / =	INACTIVE DETECTOR
												ALL VALUES A	RE SUSPECT UNTI	L VERIFIED BY ENGINEER

Table J-17

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/13/1998 AT 0530:00 TO 3/13/1998 AT 1000:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ JAMBOREE TRAILER POST MILE: 27.54

															ADJUSTED	
	MAIN		MAIN		MAIN	r	MAIN		MAIN	Ī	MAIN		LOCA	TION	60 MIN	ESTMD
	LANE	#1	LANE		LANE		LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	OCC		OCC			VOL	occ	VOL	occ	VOL	occ	VOL	OCC	VOL	TOTALS	(2.38)
TIME	000	102	• • • • • • • • • • • • • • • • • • • •													
0545:00	100.00*	0A	100.00*	0A	100.00*	0.A	100.00*	0A1	100.00*	ΑO			0.00A	ΑO		
0600:00	44.73*		44.56*		44.31*		43.27*	137	41.90*	100			23.00A	ΑO		
0615:00	9.70	439	9.79		8.74	317	7.39	259	4.73	180			8.07	1595		66.42
0630:00	12.28	557	11.77	458	10.04	369	8.52	310	5.10*	210			10.10A	2010A		66.88
0645:00	14.43	639	13.24	544	12.11	443	9.79	377	6.61*	274			13.78A	2790A		68.07
0700:00	14.66	646	13.82	536	12.83	478	11.31	437	8.10*	333			13.97A	2799A		67.33
0715:00	13.02	595	13.07	553	13.66	514	12.19	460	7.93*	327			12.85A	2619A		68.52
0730:00	13.90	594	14.06	554	14.40	502	12.82	456	9.54	368			12.94	2474	10682A	64.25
0745:00	14.84	613	14.88	570	14.53	519	11.54	415	8.67*	348			15.32A	2930A		64.27
0800:00	12.05	519	13.67	535	13.10	463	12.16	424	8.53*	347			14.35A	2772A		64.92
0815:00	13.53	560	14.69	539	13.53	462	12.30	419	8.13*	307			14.06A	2582A		61.75
0830:00	13.12	574	14.19	528	12.53	439	10.89	382	7.07*	279			13.05A	2486A	10769A	64.06
0845:00	12.43	535	15.39	579	12.50	434	10.86	394	6.98*	274			14.07A	2672A		63.82
0900:00	11.15	500	16.07	582	12.47	442	9.79	351	6.26*	256			13.35A	2542A		63.98
0915:00	11.57	501	14.04	515	11.37	394	9.79	321	5.83*	217			12.15A	2244A		62.08
0930:00	11.47	502	15.13	555	11.40	426	9.60	347	5.74*	216	<b></b> -		11.97A	2305A	9762A	64.71
0945:00	11.27	467A	14.21	506A	10.61	374A	9.83	329A	5.68*	203A			12.54A	2280A		61.10
1000:00	***	NO D	ATA ***													
																*
AVERAGE	12.63	539	13.87	519	12.26	430	10.59	371	7.14	274				•	ALFUNCTION DATA	
VARIANCE		6787	2.2	4435	2.4	5037	2.2	4672	5.8	8836					•	INACTIVE DETECTOR
** 71/11/11/11/11													ALL V	ALUES ARE	E SUSPECT UNTI	L VERIFIED BY ENGINEER

J-155

Table J-18

#### CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/13/1998 AT 0530:00 TO 3/13/1998 AT 1000:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ JAMBOREE 1 POST MILE: 27.55

														ADJ	USTED	
	MAIN		MAIN		MAIN		MAIN		MAIN	ſ	MAIN		LOCAT	CION	60 MIN	ESTMD
	LANE	#1	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	occ	VOL	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	TOTALS	(2.38)
0545:00	7.80	255A	0.00*	ΑO	6.76	204A	4.11	120A	4.69	120A			5.84A	874A		50.30
0600:00	7.32	264	0.00*	0	7.84	223	4.96	157	5.61	155			6.43A	999A		52.20
0615:00	8.10	291	0.00*	0	8.49	249	6.10	181	6.81	181			7.37A	1128A		51.40
0630:00	10.00	358	0.00*	0	10.73	318	6.88	222	7.83	221			8.86A	1399A	4399A	53.05
0645:00	12.86	445	0.00*	0	12.39	388	9.50	291	10.67	292			11.35A	1770A		52.40
0700:00	13.56	469	0.00*	0	13.57	446	10.91	353	12.45	350			12.62A	2023A		53.86
0715:00	15.36	503	0.00*	0	14.71	465	11.44	353	12.80	352			13.58A	2091A		51.76
0730:00	14.82	496	0.00*	0	15.02	468	13.08	397	14.39	396			14.33A	2196A	A0808	51.53
0745:00	15.66	509	0.00*	0	15.03	432	12.53	386	14.50	384			14.43A	2139A		49.82
0800:00	13.61	444	0.00*	0	14.91	427	12.26	375	14.06	373			13.71A	2024A		49.62
0815:00	13.84	429	0.00*	0	14.39	407	11.66	331	12.85	332			13.18A	1874A		47.77
0830:00	12.72	416	0.00*	0	13.40	387	10.23	304	11.58	303			11.98A	1763A	7799A	49.44
0845:00	13.43	425	0.00*	0	14.08	404	10.20	303	11.60	302			12.32A	1793A		48.89
0900:00	12.20	408	0.00*	0	12.14	335	9.23	286	10.87	285			11.11A	1643A		49.69
0915:00	10.68	359	0.00*	0	11.77	315	7.91	231	8.75	232			9.78A	1421A		48.86
0930:00	11.84	378	0.00*	0	11.83	339	8.25	240	9.32	238			10.31A	1494A	6350A	48.70
0945:00	10.89	342A	0.00*	A0	11.38	318A	8.92	236A	9.66	234A			10.21A	1412A		46.47
1000:00	***	NO DA	TA ***													
AVERAGE	12.04	383	0.00	0	12.26	346	9.30	271	10.49	270			* = St	JSPECT/MALFU	NCTION DAT	A
VARIANCE	6.2 1	1781	0.0	0	6.3 1	0896	6.6	8948	8.5	8893			A = AI	DJUSTED DATA	/ =	INACTIVE DETECTOR
													ALL V	ALUES ARE SU	SPECT UNTI	L VERIFIED BY ENGINEER

Table J-19

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/13/1998 AT 1400:00 TO 3/13/1998 AT 1915:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ JAMBOREE TRAILER POST MILE: 27.54

														ADJUSTED		
	MAIN	MAIN		MAIN		MAIN		MAIN		MAIN		LOCA:	rion	60 MIN	ESTMD	
	LANE #1		#2	LANE	ΗЗ	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED	
TIME	OCC VC			OCC		OCC		occ		occ	VOL	OCC	VOL	TOTALS	(2.38)	
IIME	OCC VC	ль осс	VOL	000	.02	000										
1415:00	*** NC	DATA ***														
1430:00	*** NC	DATA ***														
1445:00 10	0.00*	0A100.00*	0A.	100.00*	0A	100.00*	0A	100.00*	ΑO			0.00A	0A		~	
		1 48.57*	415	49.23*	386	46.01*	318	45.36*	288			41.82A	0A			
	0.61* 43	3 15.06	660	18.70	657	13.91	528	11.45	476			16.25A	3206A		66.31	
1530:00 1	9.69* 55	2 19.73	731	20.22	686	14.24	577	12.22	498			18.00A	3173A		59.26	
1545:00 2	1.46 57	4 18.76	731	18.38	657	13.86	553	11.56	493			16.80	3008		60.17	
1600:00 1	4.10 57	8 18.09	647	14.87	507	11.63	436	7.51*	318			14.95A	2791A	12178A	62.74	
1615:00 1	4.55 58	18.90	671	14.30	497	10.59	383	7.63*	281			15.91A	2909A		61.47	
1630:00 1	5.62* 51	.0 16.92	642	16.06	567	10.14*	393	10.44*	347			25.61A	4626A		60.70	
	3.62 53	1 15.78	581	12.36	430	9.90	365	7.81*	296			13.93A	2569A		62.01	
1700:00 1	2.84 52	3 15.44	558	11 60	401	9.13	334	6.10*	233			12.63A	2360A	12464A	62.79	
1715:00 1	4.31 57	0 17.32	608	10.93	378	9.73	361	6.70*	272			13.47A	2498A		62.32	
	3.61 52	7 13.87	503	10.83	387	9.91	376	7.83	307			11.21	2100		62.95	
	0.78 44	4 12.13	450	10.09	360	8.11	303	6.59*	261			11.35A	2165A		64.13	
	8.21 35	4 11.10	426	8.97	333	8.20	311	6.52	266			8.60	1690	8453A	66.06	,
	8.69 34	3 10.67	371	9.91	324	8.50	284	5.98	219			8.75	1541		59.20	
<del>-</del>	9.89 36	8 12.01	416	12.32	397	10.87	364	8.40	292			10.70	1837		57.71	
2000.	0.87 39	3 13.15	441	13.79	422	12.97	380	9.79	315			12.11	1951		54.14	
	0.33 37	6 13.74	425	15.14	435	12.72	390	10.64	325			12.51	1951	7280	52.40	34 °
	8.93*	3 98.92*	3	98.91*	2	98.86*	2	98.85*	2			53.02A	0A			
																No.
AVERAGE 1	2.56 47	4 15.17	554	13.65	465	10.95	396	9.38	355				•	ALFUNCTION DAT		
VARIANCE 1	1.0 851	3 8.0 13	3711	10.8 13	152	4.3 7	518	4.7	9925					DATA / =		
												ALL V	ALUES AR	E SUSPECT UNTI	L VERIFIED 1	BY ENGINEER

and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o

Table J-20

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 3/13/1998 AT 1400:00 TO 3/13/1998 AT 1915:00 PRINT DATE: 08/25/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE 1 POST MILE: 27.55

													ADJUSTED	
	MAIN		MAIN		MAIN	ſ	MAIN	r	MAIN	ī	MAIN	LOCATION	60 MIN	ESTMD
	LANE		LANE	#2	LANE		LANE		LANE		LANE	AVE TOT	VOLUME	SPEED
TIME	occ		OCC			VOL		VOL	OCC		OCC	OCC VOL	TOTALS	(2.38)
														(2.20,
1415:00	***	NO DA	TA ***											
1430:00	***	NO DA	*** AT											
1445:00	15.04	462A	0.00*	0A	15.33	402A	12.61	348A	13.98	348A		 14.24A 1950A		46.02
1500:00	13.00	387	0.00*	0	12.87	358	10.10	285	11.21	285		 11.80A 1644A	7188A	46.84
1515:00	12.36	385	0.00*	0	13.50	347	9.73	267	10.36	265		 11.48A 1580A		46.25
153/0:00	13.26	398	0.00*	0	14.45	380	10.60	287	11.67	287		 12.49A 1690A		45.47
1545:00	12.89	394	0.00*	0	13.71	366	10.68	291	11.87	291		 12.29A 1678A		45.88
1600:00	13.96	414	0.00*	0	14.33	407	10.49	300	11.63	298		 12.60A 1774A	6721A	47.31
1615:00	13.31	394	0.00*	0	13.14	356	9.25	270	10.64	269		 11.59A 1611A		46.74
1630:00	11.94	369	0.00*	0	12.27	341	10.26	295	11.34	295		 11.45A 1625A		47.69
1645:00	11.68	352	0.00*	0	12.51	348	10.44	314	12.00	313		 11.66A 1659A		47.84
1700:00	11.44	369	0.00*	0	11.45	341	8.49	269	9.54	269		 10.23A 1560A	6455A	51.25
1715:00	11.04	334	0.00*	0	11.87	345	8.94	284	10.61	284		 10.62A 1559A		49.35
1730:00	11.66	364	0.00*	0	11.99	372	11.33	334	12.80	333		 11.94A 1754A		49.35
1745:00	10.68	344	0.00*	0	10.50	314	9.77	288	10.81	288		 10.44A 1543A		49.66
1800:00	9.24	305	0.00*	0	10.76	305	9.47	294	10.88	294		 10.09A 1498A	6353A	49.90
1815:00	8.81	282	0.00*	0	9.57	289	7.72	240	9.10	239		 8.80A 1313A		50.13
1830:00	9.45	293	0.00*	0	9.77	303	8.70	268	9.98	268		 9.48A 1415A		50.19
1845:00	9.60	303	0.00*	0	10.50	304	8.02	235	8 82	234		 9.24A 1345A		48.95
1900:00	9.22	285	0.00*	0	9.33	277	8.41	252	9.70	252		 9.16A 1333A	5405A	48.87
1915:00	8 33	268	0.00*	0	8.66	253	7.57	228	8.64	228		 8.30A 1221A		49.45
AVERAGE	11.42	337	0.00	0	11.92	323	9.61	269	10.82	269		 * = SUSPECT	/MALFUNCTION DAT	ΓA
VARIANCE	3.5	3795	0.0	0	3.4	3382	1.6	1976	1.8	1966		 A = ADJUSTE	D DATA / =	= INACTIVE DETECTOR
												ALL VALUES	ARE SUSPECT UNTI	IL VERIFIED BY ENGINEER

Table J-21

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 4/14/1998 AT 0530:00 TO 4/14/1998 AT 1000:00 PRINT DATE: 08/25/98 FREEWAY LOCATION: 5 N/B @ GRAND TRAILER POST MILE: 31.66

															ADJUSTED -			
	MAIN		MAIN		MAIN		MAIN		MAIN		MAIN		LOCA	TION	60 MIN	ESTMD		
	LANE		LANE		LANE	#3	LANE		LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED		
71.T.M.T.		AOT AT	OCC			VOL	OCC		occ	VOL	OCC	VOL	occ	VOL	TOTALS	(2.38)		
TIME	OCC	иОп	occ	VOL	000													
0545:00	100 00*	0.20	100.00*	07.	100.00*	0A	100.00*	0.A	100.00*	0A			0.00A	0A				
0545:00	51.24*		51.18*		51.37*		48.40*		46.91*	101			38.53A	0A				
0600:00	12.35			346	10.31	274	7.98	217	4.98	145			9.56	1356		47.69		
0630:00	13.63	434	12.82	368	11.46	333	8.83	271	5.01	152			10.35	1558		50.60		
0645:00	14.81	472	13.87	426	12.46	364	10.80	328	6.30	183			11.65	1773		51.15		
0700:00	14.79	487	14.26	436	14.37	425	11.93	345	8.98	266			12.86	1959		51.19		
0705.00	15.69	497	14.84	474	14.76	445	11.37	341	8.54*	265			14.95A	2320A		52.16		
0730:00	17.59	551	17.06	523	16.58	505	13.84	422	9.94*	299			17.75A	2718A	8770A	51.45		
0745:00	17.54	515	15.90	488	16.63	492	13.84	405	9.54*	298		<del>-</del>	16.02A	2396A		50.27		
0800:00	18,68	528	18.08	494	16.91	488	14.35	415	11.43	335			15.89	2260		47.80		
0815:00	15.64	492	16.32	486	15.63	433	12.54	378	8.93*	268			16.70A	2489A		50.08		
0830:00	13.53	444	15.06	455	15.53	430	11.93	336	10.03	298			13.22	1963	9108A	49.93		
0845:00	13.51	443	14.24	431	14.01	405	11.30	327	10.11	292	<b>-</b>		12.64	1898		50.49		
0900:00	12.37	408	14.09	412	14.58	407	11.26	320	8.90	266			12.24	1813		49.79		
0915:00	11.35	367	12.82	370	13.17	353	9.68	286	7.17	220			10.84	1596		49.49	•	
0930:00	10.96	360	12.06	368	14.61	388	11.18	310	9.01	267			11.56	1693	7000	49.22		
0945:00	99.80*	4		1	99.81*	1	99.73*	1	99.73*	1			16.44A	A0			1	
1000:00	95.29*		95,29*		95.29*	0A	95.29*	0.A	95.29*	0A			0.00A	A0			<i>3</i>	,
1000.00	55.25			•														
AVERAGE	14.46	455	14.54	434	14.36	410	11.49	336	8.19	242			* = S1	USPECT/MA	LFUNCTION	DATA	<b>.</b>	
VARIANCE		3488		2878		3894	3.1	3016	4.4	3753			A = A	DJUSTED D	ATA /	- = INACTIVE D	ETECTOR ***	
AWKTWIGH	. 2.2	J 100	~										ALL V	ALUES ARE	SUSPECT U	NTIL VERIFIED 1	BY ENGINEER	

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Table J-22

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 4/14/1998 AT 0530:00 TO 4/14/1998 AT 1000:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ GRAND 2 POST MILE: 31.73

															ADJUSTED	
	MAIN		MAIN		MAIN		MAIN		MAIN		MAIN		LOCA		60 MIN	ESTMD
	LANE	•	LANE		LANE		LANE		LANE		LANE		AVE	TOT	VOLUME	SPEED
TIME	OCC	VOL	occ	VOL	OCC	VOL	OCC	VOL	occ	VOL	occ	VOL	OCC	VOL	TOTALS	(2.38)
0545.00	24 60	CC07	7 70	2077	0 50	2017	6 70	2047	4.60	1757			10 400	15077		40.04
0545:00	34.60		7.70			291A							12.43A			42.91
0600:00	23.81*		8.15	318	7.31	266	7.28*		5.13*				17.12A			58.03
0615:00	29.06*		9.41*		8.60*		7.29*		5.81*				36.06A	ΑO		
0630:00	16.07*		11.28	436	10.34			308	6.11*				16.76A			60.84
0645:00	25.02*		12.93	503	11.84	430	11.53	402	7.65*				18.68A			62.65
0700:00	25.03*	894	13.43	528	13.51	495	13.14	437	11.12	331			15.82A	2770A		58.86
0715:00	19.05*	712	13.91	537	14.26	507	11.88	392	11.26	342			15.83A	2789A		59.24
0730:00	16.01	613	15.37	578	16.00	568	15.32	510	13.36	381			15.21	2650	11690A	58.55
0745:00	14.80	563	15.14	555	15.87	552	15.60	495	14.32	397			15.15	2562		56.85
0800:00	14.75	564	14.63	532	15.60	521	15.08	478	15.91	441			15.19	2536		56.10
0815:00	13.97	547	14.06	528	14.43	476	14.35	462	13.22	382			14.00	2395		57.48
0830:00	13.77	535	13.96	521	14.36	488	13.86	435	14.67	414			14.12	2393	9886	56.95
0845:00	12.82	511	12.71	485	12.97	449	12.79	405	13.55	380			12.97	2230		57.80
0900:00	11.16	446	11.69	445	13.29	458	13.11	408	12.05	343			12.26	2100		57.58
0915:00	9.62	397	10.64	409	11.36	389	12.30	360	10.52	303			10.89	1858		57.35
0930:00	10.65	429	10.96	417	12.71	420	12.68	373	12.31	325			11.86	1964	8152	55.65
0945:00	11.84	475	11.35	438	12.71	439	12.60	382	11.91	320			12.08	2054		57.14
1000:00	10.87	444A	11.02	417A	10.58	390A	12.60	366A	10.40	279A			11.09A	1896A		57.45
AVERAGE	14.57	454	12.29	439	12.69	415	12.67	377	12.09	321			* = SI	JSPECT/M	ALFUNCTION DAT	A
VARIANCI	3 40.0 18	3374	471	7734	5.7 1	6982	4.8 1	4012	6.7 13	2082			A = AI	DJUSTED I	DATA / =	INACTIVE DETECTOR
													ALL V	ALUES ARI	E SUSPECT UNTI	L VERIFIED BY ENGINEER

Table J-23

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 4/14/1998 AT 1400:00 TO 4/14/1998 AT 1915:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ GRAND TRAILER POST MILE: 31.66

														A	DJUSTED	
	MAIN		MAIN		MAIN		MAIN		MAIN		MAIN		LOCAT	TION	60 MIN	ESTMD
	LANE	ĦП	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME		VOL	OCC			VOL	occ	VOL	occ	AOL	OCC	VOL	OCC	VOL	TOTALS	(2.38)
1415:00 1	on 00*	0.20	100.00*	0 <i>I</i> A	100.00*	0A	100.00*	0A	100.00*	0A		<b></b>	0.00A	ΑO		
		235	50.22*	247	50.73*	252	49.10*	217	47.92*	188			38.91A	0A		
		419	17.32	442	18.21	430	13.82	358	11.88	303			15.22	1952		43.12
		403	34.87	433	35.39	423	34.97	372	30.66	383			34.79	2014		19.46
		434	30.94	394	33.01	376	30.02	366	30.21	315			30.82	1885		20.56
		345	29.31	318	31.87	269	30.89	271	26.77	302			29.85	1505		16.95
	• • • • •	409	29.84	399	25.13	370	28.27	341	28.59	380			28.14	1899		22.68
		444	27.44	451	27.16	463	23.71	394	24.80	394			25.55	2146	7435	28.24
		442	27.74	460	27.53	445	22.15	424	25.77	430			25.93	2201		28.53
		439	30.33	452	28.01	430	25.25	395	27.18	400			27.89	2116		25.51
		441	28.80	476	26.81	452	25.02	428	26.94	423			27.30	2220		27.34
		456	35.01	447	33.24	449	28.46	408	28.86	420			31.19	2180	8717	23.49
		301	33.55	310	27.71	262	31.54	265	32.21	313			31.94	1451		15.27
		248	34.94	247	30.24	265	24.88	233	31.19	297			30.02	1290		14.44
		300	28.50	279	25.54	241	26.86	224	33.47	279			28.43	1323		15.64
		262	25.08	193	31.31	231	34.60	209	27.30	294			29.79	1189	5253	13.42
		372	21.41	302	23.93	329	22.03	329	24.51	365			23.45	1697		24.33
		365	21.48	317	25.65	369	23.87	349	29.94	389			25.72	1789		23.38
		410	22.67	399	25.25	409	23.93	398	25.98	404			24.52	2020		27.69
		308	10.17	277	12.88	338	9.72	266	9.69	250			10.74	1439	6945	45.04
	99.73*	3	99.67*	2	99.75*	3	99.71*	2	99.69*	2			16.37A	A0		
AVERAGE	27.34	378	27.19	366	27.16	364	25.56	335	26.44	352					FUNCTION DAT	
VARIANCE		345		7048		5095	38.6	4913	36.7	3095						: INACTIVE DE'

e Saar Sali

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

· Table J-24

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 4/14/1998 AT 1400:00 TO 4/14/1998 AT 1915:00 PRINT DATE: 08/25/98 FREEWAY LOCATION: 5 N/B @ GRAND 2 POST MILE: 31.73

															ADJUSTED	
	MAIN	ī	MAIN	I	MAIN	ī	MAIN		MAIN	Ī	MAIN		LOCA	TION	60 MIN	ESTMD
	LANE	#1	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	OCC	VOL	occ	VOL	OCC	VOL	OCC	VOL	occ	VOL	occ	VOL	OCC	VOL	TOTALS	(2.38)
1415:00	10.92	423A	11.46	408A	15.42	438A	12.86	405A	14.51	375A			13.03A	2049A		52.84
1430:00	10.13	398	10.86	412	12.59	391	12.45	363	12.07	332			11.62	1896		54.85
1445:00	14.27	445	15.39	423	17.56	414	16.31	399	15.37	343			15.78	2024		43.12
1500:00	47.13	288	47.68	283	49.26	254	46.50	282	40.42	359			46.20	1466	7435A	10.67
1515:00	42.56	305	49.10	297	49.86	230	51.28	255	44.39	304			47.44	1391		9.86
1530:00	51.29	239	55.83	233	61.47	161	61.77	202	42.93	273			54.66	1108		6.81
1545:00	42.56	329	41.99	331	44.89	278	44.27	306	40.14	370			42.77	1614		12.68
1600:00	27.16	374	35.99	381	37.66	341	35.76	366	33.13	399			33.94	1861	5974	18.43
1615:00	27.96	375	33.00	404	33.09	365	28.68	394	31.77	430			30.90	1968		21.41
1630:00	35.05	360	34.74	362	40.69	324	36.10	359	34.60	419			36.24	1824		16.92
1645:00	33.03	358	34.75	366	38.01	332	34.18	381	34.59	431			34.91	1868		17.99
1700:00	33.81	338	40.77	332	43.00	308	38.74	332	38.24	409			38.91	1719	7379	14.85
1715:00	61.85	190	57.88	194	64.75	156	58.04	200	52.33	293			58.97	1033		5.89
1730:00	62.60	180	61.02	181	64.04	160	58.25	215	47.49	307			58.68	1043		5.97
1745:00	53.25	215	60.60	198	63.57	173	63.41	191	54.02	265			58.97	1042		5.94
1800:00	64.90	161	64.71	150	62.73	151	64.33	166	41.60	309			59.66	937	4055	5.28
1815:00	38.09	327	38.72	333	37.01	313	32.30	369	32.28	419			35.68	1761		16.59
1830:00	32 64	326	37.69	342	38.91	314	31.52	362	33.30	411			34.81	1755		16.94
1845:00	26.13	400	27.08	416	31.00	399	32.09	412	35.98	434			30.46	2061		22.75
1900:00	9 54	342	10.23	362	11.51	359	11.01	318	11.85	298			10.83	1679	7256	52.12
1915:00	8.71	347	9.16	347	10.63	357	10.17	314	8.83	257			9.50	1622		57.40
AVERAGE	34.93	307	37.08	309	39 41	282	37.15	301	33.33	342			* = S	USPECT/M	ALFUNCTION DAT	'A
VARIANCE	305.4	7032	305.5	7904	315.0	8014	307.9	6950	171.3	5846			A = A	DJUSTED 1	DATA / =	INACTIVE DETECTOR
													ALL V	ALUES AR	E SUSPECT UNTI	L VERIFIED BY ENGINEER

·Table J-25

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 4/16/1998 AT 0530:00 TO 4/16/1998 AT 1000:00 PRINT DATE: 08/25/98 FREEWAY LOCATION: 5 N/B @ GRAND TRAILER POST MILE: 31.66

	NIAM		MAIN		MAIN		MAIN		MAIN		NIAM		LOCAT	TION	60 MIN	ESTMD
	LANE	#1	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	OCC	VOL	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	TOTALS	(2.38)
0545:00	100.00*	0A	100.00*	0A	100.00*	0A:	100.00*	0A:	100.00*	0A			A00.0	ΑO		
0600:00	48.56*	212	48.25*	192	49.45*	186	47.66*	148	44.12*	79			34.72A	A0		
0615:00	11.57	368	10.94	327	10.37	283	7.69	216	4.73	146			9.06	1340		49.73
0630:00	12.37	397	12.08	368	11.13	327	8.49	255	5.67	163			9.95	1510		51.03
0645:00	15.31	503	13.49	428	13.80	413	10.65	325	6.90	208			12.03	1877		52.45
0700:00	15.90	526	15.03	489	15.60	461	12.15	348	8.69*	261			13.55A	2096A		52.00
0715:00	15.47	503	15.10	483	14.11	415	11.97	365	8.77	270			13.09	2036		52.30
0730:00	17.20	533	15.92	511	16.00	488	12.93	395	9.08*	285			15.63A	2426A	8435A	52.19
0745:00	17.62	497	16.89	505	17.08	492	13.52	402	10.19*	302			17.40A	2530A		48.89
0800:00	17.92	512	17.66	509	17.11	482	13.15	390	11.37	340			15.44	2233		48.60
0815:00	16.14	491	16.33	477	15.53	423	12.89	390	9.30*	270			15.14A	2212A		49.11
0830:00	15.91	496	16.55	481	15.44	435	12.81	381	9.54	286			14.05	2079	9055A	49.73
0845:00	14.96	463	15.79	449	15.36	434	12.09	331	7.82*	234			15.72A	2273A		48.59
0900:00	15.26	485	15.42	448	16.09	427	11.42	333	9.17	277			13.47	1970		49.15
0915:00	13.06	406	13.83	393	15.26	400	10.67	299	7.71	237			12.11	1735		48.17
0930:00	13.49	424	15.77	448	15.59	393	11.07	320	7.70	233			12.72	1818	7796A	48.03
0945:00	95.04*	17	94.93*	12	95.15*	19	95.02*	16	94.86*	11			8.33A	A0		
1000:00	95.62*	ΑO	95.62*	0A	95.62*	0A	95.62*	0A	95.62*	OΑ			A00.0	A0		
AVERAGE	15.16	472	15.06	451	14.89	420	11.54	339	7.95	240			* = \$t	JSPECT/M	ALFUNCTION DAT	'A

--- A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

--- and many 1---\* = -6x = 5 \* 32

VARIANCE 3.4 2505 3.3 2865 3.6 3174 2.8 2805 3.7 3359

----- ADJUSTED -----

Table J-26

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 4/16/1998 AT 0530:00 TO 4/16/1998 AT 1000:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ GRAND 2 POST MILE: 31.73

															ADJUSTED	
	MAIN		MAIN		MAIN		MAIN		MAIN		MAIN		LOCA'	rion	60 MIN	ESTMD
	LANE	#1	LANE	#2	LANE	#3	LANE	#4	LANE	#5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	OCC	AOT	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	occ	VOL	TOTALS	(2.38)
0545:00	21.92	897A	5.71	240A	6.94	258A	7.04	216A	5.56	162A			9.44A	1773A		63.16
0600:00	42.84	888	7.30	286	7.64	265	6.93	232	5.09	151			13.96	1822		43.87
0615:00	26.34*	809	8.97	352	8.13	292	7.27*	240	5.91*	167			25.27A	4157A		55.31
0630:00	15.15	615	10.00	401	9.39	346	9.26	301	6.92	198			10.14	1861	9613A	61.67
0645:00	14.83	605	12.74	497	12.28	448	11.26	379	8.82*	259			12.61A	2305A		61.45
0700:00	19.97*	737	13.45	513	13.49	495	12.66	404	10.69	314			13.26A	2345A		59.44
0715:00	18.15*	709	13.63	526	13.30	474	12.24	423	11.38*	336			20.76A	3721A		60.25
0730:00	15.41	601	14.87	560	15.13	534	13.79	450	13.71	388			14.58	2533	10903A	58.39
0745:00	14.53	557	15.13	549	16.06	546	14.90	489	15.04	426			15.13	2567		57.02
00:0080	14.91	567	15.26	558	16.21	542	15.90	485	16.60	449			15.78	2601		55.42
0815:00	13.85	538	14.14	531	14.86	476	14.65	468	13.68	379			14.24	2392		56.47
0830:00	13.74	534	14.39	526	14.34	489	15.95	482	14.50	401			14.58	2432	9992	56.05
0845:00	13.50	521	12.86	480	13.84	470	14.14	424	12.57	342			13.38	2237		56.19
0900:00	13.03	500	12.89	470	13.64	455	14.10	427	13.80	370			13.49	2222		55.36
0915:00	11.20	456	10.81	408	13.38	429	12.56	381	10.79	307			11.75	1981		56.68
0930:00	11.13	456	12.42	471	13.71	438	13.46	390	11.04	295			12.35	2050	8490	55.79
0945:00	11.61	455	11.70	444	14.03	433	13.74	389	11.00	307			12.42	2028		54.90
1000:00	12.84	522A	11.72	444A	14.40	477A	12.79	390A	11.61	318A		<del>-</del>	12.67A	2151A		57.05
AVERAGE	16 03	518	12.11	433	12.82	410	12.67	372	11.51	299			* = SI	USPECT/M	ALFUNCTION DAT	TA .
VARIANCE	57.5 2	2909	6.8 1	7967	7.6 1	6054	6.8 1	3951	10.8 1	3333			A = A	DJUSTED	DATA / =	INACTIVE DETECTOR
													ALL V	ALUES AR	E SUSPECT UNTI	L VERIFIED BY ENGINEER

Table J-27

----- ADJUSTED -----

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

CALIFORNIA DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 4/16/1998 AT 1400:00 TO 4/16/1998 AT 1915:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ GRAND TRAILER POST MILE: 31.66

							120		
	MAIN	MAIN	MAIN	MAIN	MAIN	MAIN	LOCATION	60 MIN	ESTMD
	LANE #1	LANE #2	LANE #3	LANE #4	LANE #5	LANE #6	AVE TOT	VOLUME	SPEED
TIME	OCC VOL	OCC VOL		OCC VOL	OCC VOL	OCC VOL	OCC VOL	TOTALS	(2.38)
11110	000 701								
1415:00	*** NO I	ATA ***							
1430:00	*** NO I	ATA ***							
1445:00	*** NO I	ATA ***							
1500:00	*** NO I	ATA ***							
1515:00	*** NO I	*** ATA							
1530:00	*** NO I	ATA ***							
1545:00	*** NO I	ATA ***							
1600:00	*** NO I	ATA ***							
1615:00	53.13* 279	53.01* 282	A 51.28* 258A	A 50.21* 273A	49.89* 255A		55.99A OA		
1630:00	22.44 439	21.44 455	22.26 464	17.94 436	19.43 429		20.70 2223		36.09
1645:00	39.24* 372	39.66* 393	37.36* 369	31.69* 345	33.22* 362		74.23A 0A		
1700:00	25.14 419	27.08 465	25 55 443	20.01 377	21.17 410		23.79 2114		29.87
1715:00	32.21 436	33.49 436	33.19 419	23.60 380	26.17 404		29.73 2075		23.46
1730:00	35.90 354	35 46 355	33.76 354	26.47 333	30.12 350		32.34 1746		18.15
1745:00	32.82 350	32.08 361	29.27 361	22.67 302	24.26 352		28.22 1726		20.56
1800:00	32.01 306	30.84 329	31.71 348	24.27 279	28.59 360		29.48 1622	7169	18.49
1815:00 '	21.88 297	29.74 352	27.74 353	25 26 313	27.57 377		26.44 1692		21.51
1830:00	23.68 374	26.69 345	25.40 335	25.39 329	27.00 361		25.63 1744		22.87
1845:00	24.87 422	25.56 432	21.46 355	20.91 367	23.56 410		23.27 1986		28.68
1900:00	18.11 344	19.62 377	18.02 355	17.76 372	15.57 319		17.82 1767	7189	33.34
1915:00	98.40* 3	98.37* 2	98.40* 3	98.36* 2	98.38* 2		16.18A OA		
AVERAGE	26.91 374	28.20 391	26.84 379	22.43 349	24.34 377		* = SUSPECT/MALFUN	CTION DAT	A
VARIANCE	31.0 2483	23.5 2315	25.0 1859	8.8 1923	18.4 1087		A = ADJUSTED DATA	/ =	INACTIVE DETECTOR

1925 - L. - L. - L. - 1980

Table J-28

15-MINUTE MAIN LANE OCCUPANCY AND VOLUME REPORT FROM 4/16/1998 AT 1400:00 TO 4/16/1998 AT 1915:00 PRINT DATE: 08/25/98
FREEWAY LOCATION: 5 N/B @ GRAND 2 POST MILE: 31.73

															ADJUSTED	
	MAIN		MAIN	ſ	MAIN	i	MAIN	I	MAI	N	MAIN		LOCA	TION	60 MIN	ESTMD
	LANE	#1	LANE	#2	LANE	#3	LANE	#4	LAN	E #5	LANE	#6	AVE	TOT	VOLUME	SPEED
TIME	occ			VOL	occ	VOL		VOL	occ	VOL	OCC		occ	VOL	TOTALS	(2.38)
1415:00	11.62	459A	13.56	486A	16.72	4412	14.69	4207	A 13.94	357A			14.11A	2163A		51.54
1430:00	11.71	456	12.56	444	13.80	410	14.25	401	13.10	330			13.08	2041		52.44
1445:00	13.57	517	12.92	439	14.66	432	14.04	403	13.45	343			13.73	2134		52.25
1500:00	14.28	522	14.21	495	14.88	432	15.21	417	15.23	395			14.76	2261	8599A	51.48
1515:00	13.60	517	12.56	447	15.32	440	14.50	417	13.98	341			13.99	2162		51.94
1530:00	13.88	509	14.15	484	15.78	475	14.12	400	13.44	352			14.27	2220		52.28
1545:00	14.39	529	13,56		15.67	436	14.24	418	14.07	360			14.38	2214		51.74
1600:00	23.84	424	24.42	437	27.02	397	22.03	407	26.59	462			24.78	2127	8723	28.85
1615:00	16.46	414	17.59	433	20.43	430	18.13	411	21.96	456			18.91	2144		38.10
1630:00	17.09	408	18.52	431	19.97	411	21.24	472	23.79	466			20.12	2188		36.55
1645:00	26.29	384	24.64	406	26.97	376	22.20	416	26.11	459			25.24	2041		27.18
1700:00	29.14	349	32.22	370	29.66	357	24.90	375	27.57	428			28.70	1879	8252	22.01
1715:00	35.77	336	38.81	338	41.80	308	32.07	344	34.77	425			36.64	1751		16.06
1730:00	46.88	236	53.01	235	51.89	242	43.75	292	40.21	369			47.15	1374		9.80
1745:00	50.22	257	49.52	244	49.47	251	43.06	317	35.53	387			45.56	1456		10.74
1800:00	51.26	230	50.34	235	56.61	210	45.97	283	40.98	381			49.03	1339	5920	9.18
,1815:00	38.13	291	42.85	296	41.58	276	39.01	320	35.54	382			39.42	1565		13.34
1830:00	36.94	340	42.28	323	39.97	317	37.21	341	35.05	397			38.29	1718		15.08
1845:00	24.72	414	27.03	436	30.56	394	28.45	408	33.14	454			28.78	2106		24.60
1900:00	15.23	345	18.23	383	20.22	374	20.37	413	22.40	402			19.29	1917	7306	33.40
1915:00	9.07	353	8.89	347	9.41	341	10.27	322	8.49	248			9.23	1611		58.70
AVERAGE	24.48	380	25.80	374	27.26	355	24.27	367	24.25	379			* = 5	USPECT/M	ALFUNCTION DAT	ቦል
VARIANCE																= INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

. Table J-29,

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/05/1998 FROM 0530:00 TO 1000:00 PRINTED: 10/01/98 FREEWAY LOCATION: 5 N/B @ TUSTIN RANCH POST MILE: 28 35

		•											T 17 G			(%) ]	RATE	LR	TOD	GRN BALL	ML
	RM	ON	RH	OV	RI	PAS	RD	MD	RÇ	)UE	[ M E										VOL
TIME	OCC	VOL	OCC	VOL	OCC	VOL	OCC	AOT	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	
0545:00	0.00	0	0 47	13	1.85	54	3.02	55			0	0	0	0	0	100	0	61	0	0	819
0600:00	0.00	0	0 43	14	2.64	73	4.34	73			0	0	0	0	0	100	0	36	0	2	1079
	0.00	0	0.62	16	12,43	116	53.66	84			0	0	0	0	100	0	13	24	10	29	1229
0615:00			0.02	19	13,18	108	60.04	58		<b>-</b>	0	0	0	0	17	83	10	5	10	0	1514
0630:00	0.00	0				131	81.61*				0	0	0	0	0	100	10	0	10	0	1818
0645:00	0.00	0	0.73	18	15.94		91 83*				0	0	0	0	0	100	10	0	10	0	1909
0700:00	0.00	0	0.78	20	18.85	156					0	0	0	0	0	100	10	0	10	0	1918
0715:00	0.00	0	1.68	39	17.80	158	89 43*				0	•	0	0	0	100	10	0	10	0	1902
0730:00	0.00	0	1.43	42	8.07	216	13.80	217			0	0			0	100	10	0	10	0	1618
0745:00	0.00	0	1.44	44	7.91	199	13.13	198			0	0	0	0				0	10	0	1708
0800:00	0.00	0	1.17	33	7.02	183	11.77	178			0	0	0	0	0	100	10	=			1665
0815:00	0.00	0	1.29	34	6.99	180	11.80	180			0	0	0	0	0	100	10	0	10	0	
0830:00	0.00	0	0.93	27	6.31	161	10.53	162			0	0	0	0	0	100	10	0	10	0	1698
0845:00	0.00	0	0.77	23	6.37	162	10.64	161			0	0	0	0	0	100	10	0	10	0	1695
0900:00	0.00	0	0.66	19	5.17	133	8.49	132			0	0	0	0	0	100	10	0	10	0	1676
	0.00	0	0.96	30	5.02	137	8.26	136			0	0	0	0	0	100	10	2	10	0	1455
0915:00				30A		75A		75A			0	0	0	0	0	100	10	5	10	0	1613A
0930:00	0.00	0A	0.89	3 U P	2.75	735		,													
AVERAGE	0.00	0	0.93	25	8.64	136	16.47	126			0	0	0	0	8	92	10		TOTALS	31	23918
VARIANCE	0.0	0	0.1	122	27.2	2780	308.7	3803													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

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A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-30

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/05/1998 FROM 0530:00 TO 1000:00 PRINTED: 10/01/98 FREEWAY LOCATION: 5 N/B @ TUSTIN TRAILER POST MILE: 28.34

	RMC	N	RHO	OV	RP	AS	RD	MD	RQ	UE	[ M ]	ETER	I N G	МО	DE	(%)]	RATE	LR	TOD	GRN BALL	ML
TIME	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
0545:00	100.00*	0	100.00*	0	100.00*	0	100.00*	0			0	0	0	0	0	100	0	125	0	0	0
0600:00	43.65*	49	40.99*	13	42.68*	46	50.16*	40			0	0	0	0	0	100	12	58	1	18	1276
0615:00	6.84	131	1.72	24	13.27	155	60.77	64			0	0	0	0	0	100	12	0	12	0	2492
0630:00	5.93	105	2.28	29	11.78	132	59.37	51			0	0	0	0	0	100	12	0	12	0	2916
0645:00	7.54	135	1.89	27	13.54	158	75.03*	84			0	0	0	0	0	100	12	0	12	0	3578
0700:00	7.16	140	A 3.13	372	A 13.52	1762	A 81.74	83A			0	0	0	0	0	100	14	0	14	0	3593A
0715:00	8.45	174	4.02	51	12.19	175	75.49	113			13	0	0	0	0	87	15	0	15	4	3681
0730:00	4.07	126	1.27	39	4.07	131	10.56	183			100	0	0	0	0	0	0	0	15	30	3612
0745:00	5.04	145	1.83	49	4.68	131	13.12	195			100	0	0	0	0	0	0	0	15	30	3398
0800:00	3.64	115	1.30	35	3.23	112	11.65	162			100	0	0	0	0	0	0	0	15	30	3386
0815:00	3.46	113	1.30	37	3.37	110	12.64	171			100	0	0	0	0	0	0	0	12	30	3426
0830:00	3.56	114	1.34	35	3.73	132	12.09	165			100	0	0	0	0	0	0	0	12	30	3520
0845:00	3.56	112	1.08	27	3.67	117	11.74	155			100	0	0	0	0	0	0	0	12	30	3648
0900:00	3.41	103	1.01	27	3.49	111	8.77	130			100	0	0	0	0	0	0	0	12	30	3452
0915:00	3.04	110	1.26	39	3.17	114	10.16	139			100	0	0	0	0	0	0	0	12	30	2956
0930:00	3.67	129	1.43	40	3.66	134	10.47	154			100	0	0	0	0	0	0	0	10	28	2980
0945:00	42.17*	97	39.42	28	41.60*	86	57.60*	99			1.00	0	0	0	0	0	0	21	0	0	1974
1000:00	7.90	118	5.58	38	8.59	98	35.60	111			33	0	0	0	3	63	15	4	9	4	2940
AVERAGE	5.15	124	4.37	35	7.06	132	29.58	134			58	0	0	0	0	42	13		TOTALS	294	52708
VARIANCE	3.5	316	83.3	58	18.5	502	697.5	1842													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

Table J-31

CALIFORNIA, DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/09/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ TUSTIN RANCH POST MILE: 28.35

	RM	ON	pu	VO:	R	PAS	RD	MD	RQ	UE	[ M E	TER	ING	мо	DΕ	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	occ		occ	VOL	occ	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
0545:00	0.00	0	0.30	11	2.52	67	4.01	66			0	0	0	0	0	100	0	56	0	0	873
	•	0	0.59	18	3.29	87	5.40	86			0	0	0	0	0	100	0	31	0	2	1156
0600:00	0.00	0	0.34	9	11.74	102	46.21	72			0	0	0	0	73	27	12	15	10	14	1374
0615:00	0.00	-		13	11.50	101	46.94	72			0	0	0	0	0	100	10	0	10	0	1569
0630:00	0.00	0	0.47	13 16	15.62		61.37	98			0	0	0	0	0	100	10	0	10	0	1807
0645:00	0.00	0	0.61		_	147	62.82	94			0	0	0	0	0	100	10	0	10	0	1796
0700:00	0.00	0	1.01	28	16.20		62.63*				0	n	0	0	0	100	10	0	10	0	1789
0715:00	0.00	0	1.24	31	15.54		91.40*				0	0	0	0	0	100	10	0	10	0	1752
0730:00	0.00	0	1.64	40	20.83	181					0	0	0	0	0	100	10	0	10	0	1771
0745:00	0.00	0	1.79	46	21.51	184	87.54*				0	0	0	0	0	100	10	0	10	0	1647
0800:00	0.00	0	1.37	33	22.11	187	90.35*				0	0	0	0	n	100	10	0	10	0	1701
0815:00	0.00	0	2.36	52	21.32	180	93.21*				•	-	0	0	0	100	10	0	10	0	1652
0830:00	0.00	0	1.76	40	21.78	186	93.29*				0	0			0	100	10	0	10	0	1735
0845:00	0.00	0	1.00	24	17.80	150	74.42	83			0	0	0	0	-	100	10	0	10	0	1595
0900:00	0.00	0	1.60	32	17.67	141	70.62	86			0	0	0	0	0			_	10	0	1408
0915:00	0.00	0	1.17	27	15.30	134	61.23	84			0	0	0	0	13	87	10	4		•	1304
0930:00	0.00	0	0.96	22	14.17	125	54.61	77			0	0	0	0	87	13	13	15	9	11	
0945:00	0.00	0	0.69	22	4.73	126	7.69	126			0	0	0	0	0	100	0	9	0	0	1411
1000:00	0.00	0	0.76	23	4.04	118	6.71	115			0	, 0	0	0	0	100	0	6	0	0	1386
AVERAGE	0.00	0	1.09	27	14.31	140	41.84	88			0	0	0	0	10	90	10		TOTALS	27	27726
VARIANCE	0.0	0	0.3	136	42.4	1226	704.6	290													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

CALIFORNIA, DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/09/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98
FREEWAY LOCATION: 5 N/B @ TUSTIN TRAILER POST MILE: 28.34

	RM	ON	RH	VC	RP	AS	RDI	MD	RQ	UE	[ M E	TER	ING	мо	DE	(%)]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
0545:00	100.00*	02	A100.00*	0.2	A100.00*	0.7	A100.00*	0A			0	0	0	0	0	100	0	125	0	0	0A
0600:00	41.10*	55	40.07*	21	41.11*	50	49.16*	50			0	0	0	0	0	100	0	58	1	20	1279
0615:00	4.46	89	0.67	11	9.79	119	52.87	43			0	0	0	0	0	100	15	0	15	0	2462
0630:00	4.69	91	1.09	14	9.04	110	55.08	45			0	0	0	0	0	100	15	0	15	0	3014
0645:00	19.43	118	12.64	15	25.54*	139	81.61*	36			20	0	0	0	0	80	15	8	15	6	2758
0700:00	7.13	124	1.32	26	11.69	154	80.50*	33			0	0	0	0	0	100	15	0	15	0	3427
0715:00	8.11	141	1.17	20	10.73	144	71.83*	33			0	0	0	0	0	100	15	0	15	0	3555
0730:00	10.07	170	1.07	24	12.93	181	97.90*	14			0	0	0	0	0	100	15	0	15	0	3637
0745:00	11.05	178	2.14	33	12.36	190	96.53*	22			0	0	0	0	0	100	15	0	15	0	3560
0800:00	9.68	174	1.23	16	10.83	196	99.10*	14			0	0	0	0	0	100	15	0	15	0	3518
0815:00	9.96	185	1.72	35	9.88	177	99.30*	11			0	0	0	0	0	100	15	0	15	0	3642
0830:00	12.20	222	1.29	30	12.61	256	99.12*	21			0	0	0	0	0	100	15	0	15	0	3555
0845:00	9.70	169	1.70	19	9.42	171	81.56*	29			0	0	0	0	0	100	15	0	15	0	3617
0900:00	10.11	187	2.32	30	9.47	181	80.30*	34			0	0	0	0	0	100.	15	0	15	0	3697
0915:00	8.90	163	1.21	20	9.44	179	73.21*	36			0	0	0	0	0	100	15	0	15	0	2903
0930:00	8.26	153	1.98	29	8.67	153	61.25	54			0	0	0	0	0	100	15	0	14	2	2668
0945:00	96.99*	97	A 97.11*	37	A 88.82*	127	4 97.33*	9A			0	0	0	0	0	100	0	56	0	0	347A
1000:00	***	NO I	*** ATAC																		
AVERAGE	9.55	155	2.25	23	10.53	170	56.40	47			1	0	0	0	0	99	15		TOTALS	28	47523
VARIANC	E 11.9	1341	8.5	54	1.9	1251	12.6	23													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/09/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ TUSTIN RANCH POST MILE: 28.35

	ĐΜ	ION	RH	ΙΟV	RP	PAS	RD	MD	RQ	UE	[ M E	TER	I N G	мо	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	OCC	VOL	occ	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
		O L	1.30	40	6.06	164	10.00	166			0	0	0	0	0	100	0	26	0	0	1212
1415:00	0.00	•	1.09	33	4.71	138	7.88	134			0	0	0	0	0	100	0	15	0	0	1301
1430:00	0.00	0			6.68	185	10.93	183			0	0	0	0	0	100	0	11	0	0	1425
1445:00	0.00	0	2.70	80		133	7.93	133			0	0	0	0	0	100	0	0	0	2	1596
1500:00	0.00	0	0.94	30	4.81		76.07*				0	0	0	0	33	67	10	7	10	0	1420
1515:00	0.00	0	2.06	46	19.01	160	63.54	75			0	0	0	0	0	100	10	0	10	0	1638
1530:00	0.00	0	2.07	44	16.09	133					0	0	ō	0	0	100	10	0	10	0	1689
1545:00	0.00	0	2.07	47	19.40	168	77.90*				0	0	0	0	0	100	10	0	10	0	1801
1600:00	0.00	0	1.54	36	15.33	129	62.22	88			0	0	0	0	0	100	10	0	10	0	1579
1615:00	0.00	0	3.01	79	13.06	184	44.80	143			_	-	0	0	0	100	10	0	10	0	1648
1630:00	0.00	0	1.50	35	15.51	129	60.93	70			0	0		0	23	77	11	5	10	0	1435
1645:00	0.00	0	2.41	58	20.23	174	81.20*				0	0	0	_			10	0	10	0	1605
1700:00	0.00	0	1.83	45	17.73	149	71.69	68			0	0	0	0	0	100		-			1430
1715:00	0.00	0	3.21	83	20.07	179	84.66*	81			0	0	0	0	47	53	11	8	10	4	
1730:00	0.00	0	1.94	48	19.90	172	81.68*	75			0	0	0	0	0	100	10	0	10	0	1687
1745:00	0.00	0	2.71	57	18.78	158	75.71	82			0	0	0	0	40	60	11	7	10	4	1384
1800:00	0 00	0	1.46	40	14.07	122	59.14	71			0	0	0	0	60	40	11	11	10	9	1306
1815:00	0.00	0	1.93	49	17.22	148	68.57*	71			0	0	0	0	100	0	0	24	10	30	1194
1830:00	0.00	0	1.56	38	10.78	98	38.63	74			0	0	0	0	100	0	0	27	10	30	1147
1845:00	0.00	0	1 53	39	12 91	120	47.44	76			0	0	0	0	100	0	0	30	10	30	1123
1900:00	0.00	0	1.21	31	12.06	119	40.74	88			0	0	0	0	93	7	0	41	9	30	986
1915:00	0.00	0	0.87	30	3.74	114	6.26	115			0	0	0	0	0	100	0	48	0	0	883
AVERAGE	0.00	0	1.85	47	13.72	146	40.52	104			0	0	0	0	28	72	10		TOTALS	139	29489
VARIANCE	0.0	0	0.4	247	29.9		610.2	1369													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/09/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ TUSTIN TRAILER POST MILE: 28.34

	RMON	RHOV	R	.PAS	RD	MD	RQ	UE	[ M ]	ETER	ING	МО	DΕ	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC VOL	occ vo	L occ	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	*** NO DA	*** AT																	
1430:00	*** NO DA	*** AT																	
1445:00	*** NO DA	\TA ***																	
1500:00	*** NO DA	*** ATA																	
1515:00	*** NO DA	*** AT																	
1530:00	*** NO DA	\TA ***																	
1545:00	*** NO DA	ATA ***																	
1600:00	26.52 10A	0.00	0A 26.52	1.0 <i>P</i>	A 26.52	10A	0.00	A0	33	0	0	0	0	0	0	170	0	1	60A
1615:00	20.96* 188A	5.18* 6	8A 21.84	* 170 <i>P</i>	A 72.92*	64A	0.00*	0A	32	0	0	0	0	64	15	0	9	12	3099A
1630:00	10.29 153	2.43 3	7 9.74	121	66.94*	41			0	0	0	0	0	100	15	0	15	0	3647
1645:00	14.39 214	3.41 6	5 13.78	168	88.36*	30			0	0	0	0	0	100	15	0	15	0	3341
1700:00	12.18 181	2.57 4	6 12.03	153	77.45*	34			0	0	0	0	0	100	15	0	15	0	3386
1715:00	14.93 243	3.79 8	6 13.97	177	88.20*	23			0	0	0	0	0	100	15	0	15	0	2979
1730:00	13.49 198	2.56 5	2 13.19	171	86.88*	16			0	0	0	0	0	100	15	0	15	0	3283
1745:00	13.25 200	3.89 5	8 13.16	155	82.15*	30			0	0	0	0	0	100	15	0	15	0	2830
1800:00	9.79 160	2.31 4	2 9.42	127	64.80	34			0	0	0	0	0	100	15	0	15	0	2612
1815:00	12.16 184	2.55 5	1 12.40	172	76.45*	32			0	0	0	0	0	100	15	0	15	0	2605
1830:00	7.14 141	1.55 3	5 6.61	97	50.24	67			0	0	0	0	0	100	15	0	15	0	2181
1845:00	8.05 192	1.53	6 7.67	136	65.02	68			0	0	0	0	0	100	15	0	15	0	2071
1900:00	7.47 184	1.30 3	2 7.31	129	63.67	70			0	0	0	0	0	100	15	0	14	2	1941
1915:00	98.08* 2A	98.11*	3A 98.08	* 27	98.30*	3A			0	0	0	0	0	100	0	100	0	0	17A
AVERAGE	12.47 171	2.33 4	5 12.15	134	54.05	48	0.00	0	3	0	0	0	0	97	15		TOTALS	15	33785
VARIANCE	24.5 3311	1.1 39	9 25.2	2160	220.2	730	0.0	0											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-35

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/10/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98
FREEWAY LOCATION: 5 N/B @ TUSTIN TRAILER POST MILE: 28.34

	RM	ON	RHO	ov	RF	AS	RDI	MD	RQ	UE	[ M E	TER	ING	МО	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	occ	VOL	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
0545:00	100.00*	0.7	100.00*	0.7	A100.00*	0 <i>P</i>	100.00*	A0			0	0	0	0	0	100	0	125	0	0	0A
0600:00	40.00*	50	38.48*	11	39.56*	46	46.28*	43			0	0	0	0	0	100	0	57	1	19	1307
0615:00	8.47	118	1.09	18	11.40	129	52.94	54			0	0	0	0	0	100	15	0	15	0	2417
0630:00	11.13	146	1.79	23	14.01	156	72.36*	44			0	0	0	0	0	100	15	0	15	0	2808
0645:00	11.24	153	1.48	27	13.89	148	70.62	38			0	0	0	0	0	100	15	0	15	0	3302
0700:00	13.42	242	2.45	33	15.42	201	89.74*	20			0	0	0	0	0	100	15	0	15	0	3483
0715:00	14.07	277	2.44	33	12.83	173	87.63*	23			0	0	0	0	0	100	15	0	15	0	3345
0730:00	14.91	241	2.16	40	14.29	205	94.35*	18			0	0	0	0	0	100	15	0	15	0	3483
0745:00	14.84	244	2.74	43	12.88	217	99.65*	9			0	0	0	0	0	100	15	0	15	0	3478
0800:00	13.00	224	2.67	45	12.11	218	99.30*	15			0	0	0	0	0	100	15	0	15	0	3380
0815:00	11.89	227	1.44	26	10.46	183	90.17*	29			0	0	0	0	0	100	15	0	15	0	3437
0830:00	11.14	216	2.15	38	10.73	196	81.97*	34			0	0	0	0	0	100	15	0	15	0	3094
0845:00	12.15	227	2.34	29	11.74	212	91.08*	23			0	0	0	0	0	100	15	0	15	0	3389
0900:00	10.57	188	3.37	30	10.88	195	76.27*	37			0	0	0	0	0	100	15	0	15	0	3411
0915:00		176	1.83	27	9.56*	161	68.09*	64			0	0	0	0	0	100	15	0	15	0	3478
0930:00	8.38	153	1.57	28	7.66	137	53.86	73			0	0	0	0	0	100	15	0	14	2	2822
0945:00	5.46	166A	0.85	25	A 3.27	1.04 <i>F</i>	19.69	210A			0	0	0	0	0	100	0	0	0	0	2928A
1000:00			ATA ***																		
1000.00																					
AVERAGE	11.39	194	2.03	30	11.54	173	49.28	64			0	0	0	0	0	100	15		TOTALS	21	47903
VARIANCI		2943	0.4	78	8.8	2066	341.3	397													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-36

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/10/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98
FREEWAY LOCATION: 5 N/B @ TUSTIN RANCH POST MILE: 28.35

	RM	ON	RH	IOV	RI	PAS	RD	MD	RQ	UE	[ M E	TER	I N G	МО	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
0545:00	0.00	0	0.53	18	2.47	64	3.90	63			0	0	0	0	0	100	0	60	0	0	829
0600:00	0.00	0	0.47	15	2.41	68	3.93	68			0	0	0	0	0	100	0	36	0	2	1053
0615:00	0.00	0	0.61	14	11.40	102	46.09	71			0	0	0	0	93	7	10	25	10	27	1292
0630:00	0.00	0	0.57	16	15.61	131	60.62	87			0	0	0	0	27	73	10	4	10	0	1503
0645:00	0.00	0	0.80	21	14.88	134	52.63	101			0	0	0	0	0	100	10	0	10	0	1731
0700:00	0.00	0	1.04	25	19.44	165	73.74	104			0	0	0	0	0	100	10	0	10	0	1841
0715:00	0.00	0	1.23	30	19.70	166	78.50*	74			0	0	0	0	0	100	10	0	10	0	1641
0730:00	0.00	0	2.09	44	20.66	178	85.72*	86			0	0	0	0	0	100	10	0	10	0	1836
0745:00	0.00	0	1.83	45	22.26	195	90.81*	99			0	0	0	0	0	100	10	0	10	0	1770
0800:00	0.00	0	1.84	42	22.03	184	92.69*	82			0	0	0	0	0	100	10	0	10	0	1644
0815:00	0.00	0	1.64	38	20.32	176	85.20*	76			0	0	0	0	0	100	10	0	10	0	1643
0830:00	0.00	0	1.21	28	19.71	162	73.26	97			0	0	0	0	0	100	10	0	10	0	1316
0845:00	0.00	0	0.88	19	21.18	166	81.51*	90			0	0	0	0	0	100	10	0	10	0	1625
0900:00	0.00	0	0.87	22	17.81	140	68.68	80			0	0	0	0	0	100	10	0	10	0	1681
0915:00	0.00	0	1.09	25	15.47	124	59.88	76			0	0	0	0	0	100	10	0	10	0	1686
0930:00	0.00	0	0.93	24	12.55	115	45.62	89			0	0	0	0	0	100	10	0	9	2	1464
0945:00	0.00	ΑO	0.88	27A	5.76	141A	8.99	138A			0	0	0	0	0	100	0	6	0	0	1401A
1000:00	***	NO DA	*** ATA																		
AVERAGE	0.00	0	1.09	26	15.51	136	45.21	80			0	0	0	0	7	93	10		TOTALS	31	25022
VARIANCE	0 0	0	0.2	113	40.5	1881	671.2	284													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-37

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/10/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ TUSTIN RANCH POST MILE: 28.35

	RMON	RHO	ov	RP	AS	RD	MD	RQ	UE	[ M E	T E R	ING	мс	DE	(%) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC VOL		VOL	occ	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	*** NO DA'		•																	
1415:00	*** NO DA'																			
1430:00	*** NO DA																			
	*** NO DA'																			
1500:00	*** NO DA																			
1515:00	*** NO DA'																			
1530:00	*** NO DA'																			
1545:00	*** NO DA																			
1600:00	<del>-</del>	3.49	86A 2	20 92	180A	85.49	90A			0	0	0	0	0	100	10	0	10	0	1721A
1615:00	• • • •	1.65		15.64		58.88*	77			0	0	0	0	0	100	10	0	10	0	1613
1630:00	0.00 0	3.31		19.86		82.45*	71			0	0	0	0	0	100	10	3	10	0	1510
1645:00	0.00 0		40A 1			79.98*	61A			0	0	0	0	0	100	10	0	10	0	1589A
1700:00	A0 00.0	1.69		21.31		89.44*	83			0	0	0	0	3	97	10	2	10	0	1534
1715:00	0.00 0	2.69				86.14*	78			0	0	0	0	0	100	10	0	10	0	1667
1730:00	0.00 0	2.63		20.98		68.73	84			0	0	0	0	20	80	11	6	10	0	1387
1745:00	0.00 0	1.90		17.58			84			0	0	0	0	57	43	12	9	10	4	1385
1800:00	0.00 0	1.47		16.93		62.79*				0	0	0	0	100	0	0	28	10	30	1120
1815:00	0.00 0	1.83		17.49		68.65	91			0	0	0	0	100	0	15	23	10	29	1240
1830:00	0.00 0	1.71		L4.93		52.30	82			0	0	0	0	100	0	0	26	10	30	1154
1845:00	0.00 0	2.24		14.64		51.87	83				•			93	7	0	28	9	30	1133
1900:00	0.00 0	1.46		11.57		36.96	94			0	0	0	0		•	-	40	0	0	959A
1915:00	A0 00.0	1.13	35A	3.46	102A	5.86	102A			0	0	0	0	0	100	0	4.0	U	U	JUJA
										_				2.0	<b>60</b>	2.0		COMPAT O	100	19177
AVERAGE	0.00 0	2.09		16.53		52.83	81			0	0	0	0	38	62	10		TOTALS	123	17127
VARIANCE	0.0	0.5	171 2	22.0	876 5	75.6	97													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

CALIFORNIA, DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/10/1998 FROM 1400:00 TO 1915:00 PRINTED: 10/01/98 FREEWAY LOCATION: 5 N/B @ TUSTIN TRAILER POST MILE: 28.34

	RMC	N	RHO	vc	RP	AS	RD	MD	RÇ	UE	[ M E	TER	ING	мо	DE	(%) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	occ	VOL	occ	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	***	NO DA	***																		
1430:00	***	NO DA	*** ATA																		
1445:00	***	NO DA	*** ATA																		
1500:00	***	NO DA	*** ATA							•											
1515:00	***	NO DA	*** ATA																		
1530:00	***	NO DA	*** ATA																		
1545:00	***	NO DA	*** ATA																		
1600:00	***	NO DA	*** ATA																		
1615:00	17.18	266A	3.90	90A	15.29	191A	93.61*	26A			0	0	0	0	0	100	15	0	15	0	3852A
1630:00	11.46	163	4.07	51	10.16	127	65.08*	56			0	0	0	0	0	100	15	0	15	0	3555
1645:00	15.58	224	4.58	74	14.50	181	88.26*	23			0	0	0	0	0	100	15	0	15	0	3395
1700:00	14.16	205	2.59	47	13.64	167	85.60*	29			0	0	0	0	0	100	15	0	15	0	3395
1715:00	16.26	243	3.69	70	14.92	191	94.17*	22			0	0	0	0	0	100	15	0	15	0	3445
1730:00	14.96	224	3.62	63	14.07	186	92.09*	24			0	0	0	0	0	100	15	0	15	0	3302
1745:00	12.09	178	2.84	55	12.56	146	76.07	40			0	0	0	0	0	100	15	0	15	0	2835
1800:00	11.16	165	2.29	42	10.83	141	72.45	38			0	0	0	0	0	100	15	0	15	0	2634
1815:00	11.57	192	2.40	48	12.42	172	74.82*	38			0	0	0	0	0	100	15	0	15	0	2499
1830:00	9.44	182	1.83	42	8.23	125	64.96*	46			0	0	0	0	0	100	15	0	15	0	2344
1845:00	8.48	210	2.36	52	7.86	133	66.27	78			0	0	0	0	0	100	15	0	15	0	2145
1900:00	7.63	185	1.74	38	6.97	119	66.41*	65			0	0	0	0	0	100	15	0	14	2	2153
1915:00	97.89*	2A	97.89*	2A	97.89*	2A	98.64*	A0			0	0	0	0	0	100	0	106	0	0	18A
AVERAGE	12.50	194	2.99	53	11.79	150	71.60	52			0	0	0	0	0	100	15		TOTALS	2	33897
VARIANCE	9.0	726	0.8	114	7.8	748	16.4	339													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-39

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/11/1998 FROM 1400:00 TO 1915:00 PRINTED: 10/01/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE 1 POST MILE: 27.55

	RMC	ИС	RHC	V	RI	PAS	RDI	MD	R	QUE	[ M E	T E R	I N G	мо	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME		VOL	occ	VOL	OCC	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	AOP
1415:00	***	NO DA	TA ***																		
1430:00	***	NO DA	TA ***																		
1445:00	12.06	177A	0 80	12A	12.61	174A	20.20	162A	12.23	168A	0	0	0	0	0	100	0	20	0	0	1335A
1500:00	8.11	126	0.31	4	8.56	125	13.59	120	9.29	128	0	0	0	0	0	100	0	18	1	20	1222
1515:00	11.45	143	1.61	21	19 57	125	70.53*	57	10.18	141	0	0	0	0	93	7	13	24	10	21	1261
1530:00		137	1.59	20	19.51	121	68.14	59	10.18	133	0	0	0	0	70	30	12	13	10	7	1296
1545:00	14.01	186	2.44	34	23.48	156	90.47*	55	38.53	181	0	0	0	0	93	7	12	16	10	16	1330
1600:00	11.97	159	1.75	22	20.68	139	82.86*	38	16.07	138	0	0	0	0	10	90	10	5	10	0	1412
1615:00	11.84	185	2.28	32	20.57	158	82.67*	49	12.70	188	0	0	0	0	83	17	12	14	10	12	1319
1630:00	12.61	203	2.37	29	21.67	174	96.57*	46	51.24	169	0	0	0	0	97	3	13	15	10	14	1272
1645:00	11.91	182	2.18	29	20.08	156	83.37*	56	11.21	179	0	0	0	0	97	3	13	19	10	20	1300
1700:00	11.81	169	1.64	22	20.20	149	73.20*	57	10.62	161	0	0	0	0	73	27	11	14	10	13	1310
1715:00	12.20	193	1.99	27	21.44	169	92.81*	51	38.70	188	0	0	0	0	77	23	12	13	10	9	1358
1730:00	12.34	196	2.49	32	21.33	167	96.74*	34	49.52	160	0	0	0	0	0	100	10	1	10	0	1581
1745:00	10.26	168	2.16	22	17.59	145	76.83*	56	8.87	165	0	0	0	0	50	50	11	10	10	9	1315
1800:00	10.86	175	1.85	25	18.93	151	87.59*	38	9.79	172	0	0	0	0	100	0	13	20	10	25	1232
1815:00	9.85	156	1.61	23	17.20	137	79.83*	37	8.83	154	0	0	0	0	100	0	0	30	10	30	1108
1830:00	8.88	146	2.36	32	14.37	116	63.91*	47	7.86	143	0	0	0	0	100	0	0	26	10	30	1170
1845:00	8.39	131	1.51	22	14.90	111	59.47	41	6.69	123	0	0	0	0	93	7	10	27	10	28	1151
1900:00	5.00	83	0.59	8	8.65	75	34.38	40	4.41	83	0	0	0	0	93	7	0	31	9	30	1113
1915:00	4.44	82	0.31	6	4.43	79	7.39	77	4.63	81	0	0	0	0	0	100	0	38	1	20	978
										•											02172
AVERAGE	10.49	152	1.68	22	17.15	132	33.86	65	16.92	144	0	0	0	0	67	33	11		TOTALS	304	23173
VARIANCE	6.1	1593	0.5	88	26.0	1028	521.6	754	216.8	1329											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-40

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/11/1998 FROM 1400:00 TO 1915:00 PRINTED: 10/01/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE TRAILER POST MILE: 27.54

	RMON	J	RHC	V	RE	PAS	RD	MD	RQ	UE	[ M E	TER	I N G	мо	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	occ v	/OL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	*** V	10 D	*** ATA																		
1430:00	*** V	10 D	ATA ***																		
1445:00			100.00*	ΟA	100.00*	0.7	A100.00*	0A			0	0	0	0	0	100	0	0	0	0	0A
1500:00			68.84*	1	32.96*	91	36.05*	83			0	0	0	0	0	100	0	0	1	20	2052
1515:00			2.17	23	28.18	135	64.51	80			0	0	0	0	0	100	12	0	12	0	2923
1530:00			1.86	20	26.21	136	67.80	77			0	0	0	0	0	100	12	0	12	0	3114
1545:00			3.28	36	31.81	186	85.88	93			0	0	0	0	0	100	12	0	12	0	3112
1600:00			2.44	23	29.03	189	81 94*	77			0	0	0	0	0	100	12	0	12	0	3237
1615:00			2.73	31	29.80	210	78.26*	69			0	0	0	0	0	100	15	0	15	0	3178
1630:00			3.47	30	31.37	265	93.40*	80			0	0	0	0	0	100	15	0	15	0	2653
1645:00			3.08	29	28.87	262	82.73*	77			0	0	0	0	0	100	15	0	15	0	2460
1700:00			2.70	26	28.81	260	77.35*	54			0	0	0	0	0	100	15	0	15	0	2540
1715:00			2.69	37	26.33	190	87.59*	85			0	0	0	0	0	100	15	0	15	0	2545
1730:00			3.16	41	25.51	169	89.39	103		<del>-</del>	0	0	0	0	0	100	15	0	15	0	2467
1745:00			2.34	22	21.72	150	73.27	97			0	0	0	0	0	100	15	0	15	0	1877
1800:00			1.99	25	22.20	156	79.01	97			0	0	0	0	0	100	15	0	15	0	1831
1815:00			1.92	26	21.52	147	75.08	68			0	0	0	0	0	100	12	0	12	0	1643
1830:00			6.37	54	24.30	162	63.46	58			0	0	0	0	0	100	12	0	12	0	1886
1845:00			8.91	67	23.95	196	59.02	49	<del>-</del>		0	0	0	0	0	100	12	0	12	0	1899
1900:00			4.20	41	14.83	124	36.71	41			0	0	0	0	0	100	12	0	11	4	1903
1915:00			98.84*	1	98.84*	1	98.84*	1			0	0	0	0	0	100	0	0	0	0	13
AVERAGE			3.33	33	25.90	184	69.41	76			0	0	0	0	0	100	14		TOTALS	24	41333
VARIANCE		- <b>-</b> -	3.2	152	18.3	1977	204.9	426													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-44

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/12/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE 1 POST MILE: 27.55

					ים	PAS	חם	MD	RC	QUE	[ M E	TER	ING	мс	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
		ION		OV		VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	AOT
TIME	occ	VOL	OCC	VOL	OCC		3.59	45A	1.64	36A	0	0	0	0	0	100	0	73	0	0	684A
0545:00	2.00	39A	0.00	A0	2.23	42A			3.88	55	0	0	0	0	0	100	0	58	1	20	806
0600:00	3.75	56	0.00	0	3.77	57	5.85	53	4.27	63	0	0	0	0	100	0	0	46	10	30	973
0615:00	5.27	64	0.56	7	9.01	58	31.56	37 26	4.57	75	0	0	0	0	100	0	14	27	10	28	1224
0630:00	5.33	73	0.71	9	9.19	64	36.87	36		84	0	0	0	0	13	87	10	3	10	1	1527
0645:00	6.19	86	0.86	11	10.94	77	45.89	30	5.13 6.35	99	0	0	0	0	0	100	10	0	10	0	1713
0700:00	7.10	102	0.53	8	12.88	95	46.79	45		130	0	0	Õ	0	0	100	10	0	10	0	1753
0715:00	9.29	134	0.68	10	17.96	124	72.56*		11.89	151	0	0	0	0	0	100	10	0	10	0	1849
0730:00	10.70	153	0.84		19.19	144	76.64*		12.52		0	0	0	0	0	100	10	0	10	O	1649
0745:00	10.91	145	1.16	15	19.12	131	72.55*		9.25	137		0	0	0	0	100	10	0	10	0	1660
0800:00	9.84	127	1.19	15	16.72	113	62.03	41	8.32	124	0	-	0	0	0	100	10	0	10	0	1645
0815:00	10.48	140	1.23	13	18.39	127	72.89	39	8.34	130	0	0	0	0	0	100	10	0	10	0	1657
0830:00	9.81	148	1.45	19	17.02	132	70.94*		10.09	150	0	0	-	_	0	100	10	0	10	0	1731
0845:00	9.31	122	0.50	7	16.78	115	64.06*	42	7.48	112	0	0	0	0	-		10	0	10	0	1641
0900:00	10.27	118	2.34	18	16.26	103	58.37	48	10.11	122	0	0	0	0	0	100		15	10	18	1252
0915:00	7.09	94	1.13	14	11.66	80	43.02	43	5.54	84	0	0	0	0	70	30	11		9	25	1237
0930:00	5.62	78	0.46	7	9.84	76	36.70	51	5.05	80	0	0	0	0	93	,	15	20		20	1113A
0945:00	5.60	92A	0.67	9A	6.01	81A	10.86	78A	5.89	84A	0	0	0	0	0	100	0	30	1	20	IIIJA
1000:00	***	NO DA	*** AT																		
													_		0.4	m.c	1.0		ጥር ጥ እ ፣ ሮ	142	23287
AVERAGE	7.56	101	0.84	10	12.76	92	37.87	41	7.08	98	0	0	0	0	- 24	76	10		TOTALS	142	23201
VARIANCE	7.0	1482	0.3	28	28.2	1205	447.8	106	8.5	1412											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-42

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/12/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE TRAILER POST MILE: 27.54

	RM	ION	RHO	VC	RP	AS	RDN	4D	RQ	UE	[ M E	TER	I N G	МО	DΕ	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
0545:00			100.00*	0.7	100.00*	0.2	A100.00*	0A			0	0	0	0	0	100	0	0	0	0	0A
0600:00			45.04*	0	46.44*	39	49.02*	35			0	0	0	0	0	100	0	0	1	20	849
0615:00			0.62	7	11.58	66	31.22	48			0	0	0	0	0	100	12	0	12	0	1746
0630:00			0.82	9	11.37	73	35.37	51			0	0	0	0	0	100	12	0	12	0	2050
0645:00			1.31	17	13.23	80	43.38	47			0	0	0	0	0	100	12	0	12	0	2452
0700:00			0.86	9	21.74	148	50.24	35			0	0	0	0	0	100	12	0	12	0	2588
0715:00			1.36	14	43.00	223	70.99	43			0	0	0	0	0	100	12	0	12	0	2529
0730:00			1.69	15	39.62	215	74.42	57	~ ~ -		0	0	0	0	0	100	12	0	12	0	2674
0745:00			1.56	15	33.10	174	72.47	53			0	0	0	0	0	100	12	0	12	0	2493
0800:00			5.32	20	27.64	141	63.78	38			0	0	0	0	0	100	12	0	12	0	2345
0815:00			1.76	15	27.27	141	69.64	42			0	0	0	0	0	100	12	0	12	0	2371
0830:00			1.74	18	24.42	141	69.09*	54			0	0	0	0	0	100	12	0	12	0	2345
0845:00			0.90	9	24.47	125	64.15	58			0	0	0	0	0	100	12	0	12	0	2488
0900:00			2.32	19	22.31	110	57.00	66			0	0	0	0	0	100	12	0	12	0	2319
0915:00			1.21	13	16.36	89	45.10	53			0	0	0	0	0	100	12	0	12	0	2077
0930:00			0.56	77	13.47	791	A 36.87	60A			0	0	0	0	0	100	12	0	11	3	2070A
0945:00			97.94*	27	98.18*	57	4 98.29*	5A			0	0	0	0	0	100	0	0	0	0	60A
1000:00	***	NO I	DATA ***										•								
AVERAGE			1.57	13	23.54	129	54.97	50			0	0	0	0	0	100	12		TOTALS	23	33367
VARIANCE			1.3	18			219.4	73			•	Ť	•	ū	Ŭ	200			10111110	45	23307

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-43

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/12/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98

FREEWAY LOCATION: 5 N/B @ JAMBOREE 1

POST MILE: 27.55

	RM	ION	RH	ov	RI	AS	RD	MD	RQ	QUE	[ M E	TER	I N G	мо		(왕) ]	RATE	LR	TOD	GRN BALL	ML VOL
TIME	occ	VOL	occ	VOL	OCC	VOL	OCC	AOT	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	***	NO DA	*** ATA																		
1430:00	***	NO DA	TA ***												_					0	1653A
1445:00	12.51	207A	0.36	6A	13.24	204A	21.20	195A	14.81	222A	0	0	0	0	0	100	0	14	0	0	1053A 1271
1500:00	7.49	114	0.27	4	8.01	112	12.49	109	8.53	115	0	0	0	0	0	100	0	12	1	20	
1515:00	10.97	146	1.45	20	19.02	129	75.36*	57	11.59	148	0	0	0	0	100	0	0	26	10	30	1185
1530:00	12.20	138	2.17	27	19.25	112	78.08*	39	14.89	136	0	0	0	0	83	1.7	12	14	10	10	1343
1545:00	14.35	193	2.46	35	23.44	162	97.01*	31	24.43	187	0	0	0	0	83	17	11	1.3	10	10	1350
1600:00	14.99	197	3.37	43	24.01	156	94.17*	42	48.69	167	0	0	0	0	33	67	11	7	10	2	1392
1615:00	12.32	183	1.98	28	21.17	157	87.78*	39	23.84	169	0	0	0	0	77	23	11	14	10	15	1347
1630:00	14.01	202	2.86	36	23.46	171	96.07*	36	47.38	161	0	0	0	0	23	77	10	6	10	3	1393
1645:00	13.16	197	2.51	32	21.77	167	93.09*	35	30.46	194	0	0	0	0	100	0	13	21	10	26	1246
1700:00	12.10	188	1.16	17	21.97	171	97.02*	24	53.23	171	0	0	0	0	60	40	11	12	10	13	1332
1715:00	13.84	203	2.61	34	23.29	174	97.12*	35	29.78	195	0	0	0	0	87	13	11	18	10	23	1327
	14.17	203	2.56	37	23.34	168	94.16*	32	42.29	175	0	0	0	0	0	100	10	0	10	0	1582
1730:00		203 197	2.38	30	21.16	167	92.12*	29	21.76	186	0	0	0	0	40	60	11	9	10	2	1366
1745:00	12.19		1.41	19	15.51	121	67.05*		7.60	132	0	0	0	0	100	0	12	23	10	27	1191
1800:00	9.06	139	3.32	39	16.71	127	71.32*		9.46	162	0	0	0	0	100	0	15	25	10	28	1206
1815:00	10.28	161		23	15.41	124	64.39	46	7.80	138	0	O	0	0	100	0	0	31	10	30	1081
1830:00	8.89	145	1.58		13.39	108	54.61	48	7.04	125	0	0	0	0	100	. 0	0	34	10	30	1121
1845:00	7.70	126	1.32	17		80	39.07	41	5.26	90	0	0	0	0	93	. 7	0	30	9	30	1081
1900:00	5.65	90	0.95	12	10.36			74	4.56	82	0	0	0	0	0	100	0	44	1	20	921
1915:00	4.37	82	0.27	4	4.47	78	7.26	/4	4.50	02	Ü	Ü	J	ŭ	<del>-</del>					-	
AVERAGE	11.07	156	1.84	24	17.84	134	33.17	64	21.76	148	0	0	0	0	64	36	11		TOTALS	319	23286
VARTANCE		1875	0.9	148		1151		539	244.7	1317											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-44

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/12/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE TRAILER POST MILE: 27.54

	RM	ON	RHC	v	RP.	AS	RD	MD	RQ	UE	[ M E	TER	I N G	МО	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	OCC	VOL	occ	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	***	NO D	ATA ***																		
1430:00	***	NO D	ATA ***																		
1445:00			100.00*	0 <i>P</i>	100.00*	0.7	A100.00*	ΑO			0	0	0	0	0	100	0	0	0	0	0A
1500:00			44.31*	2	45.48*	77	48.24*	71			0	0	0	0	0	100	0	0	1	20	1713
1515:00			1.65	20	24.41	140	72.30	88			0	0	0	0	0	100	12	0	12	0	2669
1530:00			2.48	26	24.19	133	61.76	78			0	0	0	0	0	100	12	0	12	0	3032
1545:00			2.88	35	28.05	172	89.23	89			0	0	0	0	0	100	12	0	12	0	2477
1600:00			3.69	44	27.94	175	87.98	88			0	0	0	0	0	100	12	0	12	0	2445
1615:00			1.97	27	26.00	169	81.51	88			0	0	0	0	0	100	15	0	15	0	2377
1630:00			2.93	37	27.92	185	89.53	92			0	0	0	0	0	100	15	0	15	0	2325
1645:00			2.64	32	26.80	183	86.47	97			0	0	0	0	0	100	15	0	15	0	2125
1700:00			1.27	18	26.43	179	89.19	98			0	0	0	0	0	100	15	0	15	0	2176
1715:00			2.65	34	28.40	188	89.66*	103			0	0	0	0	0	100	15	0	15	0	2213
1730:00			2.58	35	28.16	184	87.27	87			0	0	0	0	0	100	15	0	15	0	2397
1745:00			2.62	32	26.56	178	86.76	92			0	0	0	0	0	100	15	0	15	0	1978
1800:00			1.51	19	19.37	128	63.46	84			0	0	0	0	0	100	15	0	15	0	1748
1815:00			3.50	42	21.94	135	67.16	52			0	0	0	0	0	100	12	0	12	0	1718
1830:00			5.56	46	23.25	181	64.84	50			0	0	0	0	0	100	12	0	12	0	1834
1845:00			6.88	51	20.02	174	52.26	57			0	0	0	0	0	100	12	0	12	0	1901
1900:00			5.60	36	16.89	135	38.81	53			0	0	0	0	0	100	12	0	11	4	1943
1915:00			98.70*	1	98.70*	1	98.70*	1			0	0	0	0	0	100	0	0	0	0	13
AVERAGE			3.15	33	24.77	165	74.57	80			0	0	0	0	0	100	14		TOTALS	24	37084
VARIANCE			2.4	88	12.0	456	236.7	279													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

VARIANCE 6.6 1640 0.2 30 27.8 1283 488.6 124 5.2 1478

Table J-45

CALIFORNIA, DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/13/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98 POST MILE: 27.55

FREEWAY LOCATION: 5 N/B @ JAMBOREE 1

						_ =	nn:	MD	DC.	UE	[ M E	TER	ING	мо	DΕ	(%) ]	RATE	LR	TOD	GRN BALL	ML
	RM	ON	RH			AS	RDI		OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
TIME	OCC	VOL	OCC	VOL	OCC	VOL	occ	VOL		33A	0	0	0	0	0	100	0	71	0	0	699A
0545:00	2.11	33A	0.00	0A	2.21	33A	3.46	33A	2.22		0	0	0	0	0	100	0	60	1	20	799
0600:00	3.02	43	0.07	1	3.09	45	4.75	44	3.19	44	0	0	0	0	100	0	0	51	10	30	902
0615:00	5.03	66	0.50	7	8.83	60	34.39	35	4.10	66	0	0	0	0	100	0	0	34	10	30	1119
0630:00	4.16	52	0.06	1	8.26	52	30.07	36	3.53	55 35	0	0	0	0	53	47	11	12	10	11	1416
0645:00	5.69	77	0.62	8	10.40	68	39.62	33	4.25	75 106	0	0	0	0	0	100	10	0	10	0	1618
0700:00	7.14	107	0.67	9	13.52	98	56.06	38	6.35	106	0	0	0	0	0	100	10	0	10	0	1673
0715:00	8.55	120	0.77	10	15.38	111	61.77*		7.18	118 121	0	0	0	0	0	100	10	0	10	0	1757
0730:00	8.62	122	1.23	12	15.47	111	63.19	34	7.90 8.54	141	0	0	0	0	0	100	10	0	10	0	1711
0745:00	10.15	148	0.71	11	19.06	139	77.44*	31	8.13	126	0	0	0	0	0	100	10	0	10	0	1619
0800:00	9.50	134	1.26	15	16.96	121	69.29*	41	10.01	144	0	0	0	0	0	100	10	1	10	0	1499
0815:00	9.97	145	1.33	16	18.39	130	74.96*	27	9.53	142	0	0	0	0	33	67	11	7	10	1	1410
0830:00	10.68	150	1.19	17	19.29	133	80.21*	38	8.89	134	0	0	0	0	30	70	10	7	10	1	1434
0845:00	10.31	135	0.76	11	18.97	125	74.03	48		98	0	0	0	0	67	33	12	11	10	6	1314
0900:00	6.97	100	1.17	1.5	12.11	86	46.93*	48	6.14	96 82	0	0	0	0	100	0	13	25	10	28	1137
0915:00	5.96	76	0.16		11.81	75	39.87	50	5.18		0	0	0	0	93	7	0	26	9	30	1195
0930:00	6.94	91	0.36	5	13.18	86	42.28	51	5.39	82	_		0	0	0	100	0	29	1	20	1130A
0945:00	5.32	A08	0.31	5A	6.36	77A	10.58	75A	5.69	A08	0	0	U	U	U	200	J		_	-	
1000:00	***	NO DA	TA ***																		
AVERAGE	7.06	96	0.66	8	12.55	88	36.21	39	6.25	94	0	0	0	0	36	64	10		TOTALS	177	21589

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-46

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/13/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98
FREEWAY LOCATION: 5 N/B @ JAMBOREE TRAILER POST MILE: 27.54

	RM	ION	RHO	V	RF	AS	RD	MD	RQ	UE	[ M E	TER	I N G	МО	D E	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	OCC	VOL	occ	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
0545:00			100.00*	0.7	100.00*	0.7	100.00*	0A			0	0	0	0	0	100	0	0	0	0	A0
0600:00			39.60*	2	42.00*	35	43.35*	32			0	0	0	0	0	100	0	0	1	20	858
0615:00			0.57	7	11.98	67	33.40	51			0	0	0	0	0	100	12	0	12	0	1595
0630:00			0.07	1	10.62	53	28.90	41			0	0	0	0	0	100	12	0	12	0	1904
0645:00			0.68	8	13.47	79	38.76	45			0	0	0	0	0	100	12	0	12	0	2277
0700:00			0.76	9	16.83	102	54.18	67			0	0	0	0	0	100	12	0	12	0	2430
0715:00			0.95	10	18.19	117	58.27	56			0	0	0	0	0	100	12	0	12	0	2448
0730:00			1.56	13	19.00	130	61.45	45			0	0	0	0	0	100	12	0	12	0	2474
0745:00			0.84	11	22.23	140	74.77*	61			0	0	0	0	0	100	12	0	12	0	2465
0800:00			1.51	16	21.60	145	68.83*	64			0	0	0	0	0	100	12	0	12	0	2288
0815:00		<del>-</del>	1.69	15	22.19	140	67.99*	68			0	0	0	0	0	100	12	0	12	0	2287
0830:00			1.39	17	23.77	140	74.90	94			0	0	0	0	0	100	12	0	12	O	2202
0845:00			0.84	11	21.26	139	67.93	74			0	0	0	0	0	100	12	0	12	0	2216
0900:00			1.35	15	15.52	94	45.49	64			0	0	0	0	0	100	12	0	12	0	2131
0915:00			0.16	2	15.19	80	37.93	56			0	0	0	0	0	100	12	0	12	0	1948
0930:00			0.41	5	17.69	95	41.51	60			0	0	0	0	0	100	12	0	11	4	2046
0945:00			0.32	5 <i>I</i>	4 6.55	787	10.51	74A			0	0	0	0	0	100	0	0	0	0	1877A
1000:00	***	OM	DATA ***																		
MARTINGE			0 07	1.0	17.07	105	46.10	59			0	0	0	0	0	100	12		TOTALS	24	32820
AVERAGE			0.87	10					- <b></b>		U	U	U	U	U	100	12		TOTALO	27	12020
VARIANCE			0.3	25	22.6	1046	301.7	203													

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

J-184

Table J-47

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/13/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE 1 POST MILE: 27.55

	D.N.	ON	RHO	W	RI	PAS	RD	MD	RÇ	QUE	[ M E	TER	I N G	мо	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
				VOL	OCC		occ	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	AOL
TIME	OCC	VOL		VOL	000	V 🗸 🗠	000														
1415:00		NO DA																			
1430:00		NO DA		0.7	25 27	2107	24.53	2012	14.89	195A	0	0	0	0	0	100	0	7	0	0	1560A
1445:00	13.60	207A	0.00		15 17		14.83	139	10.04	149	0	0	0	0	0	100	0	11	1	20	1315
1500:00	8.94	141	0.50	8	9.29	143	71.31*		10.76		0	0	0	0	87	13	13	19	10	20	1264
1515:00	9.63	148	1.45	20	16.95	129	81.79*		9.85	157	0	0	0	0	53	47	11	12	10	9	1352
1530:00	11.07	169	1.76	23	18.96	149	19.37	173	12.46	183	0	0	0	0	77	23	12	13	10	9	1342
1545:00	11.53	185	1.08	14	11.91	178		147	11.10	171	0	0	0	0	37	63	11	6	10	0	1419
1600:00	10.14	167	1.45	22	10.84	153	17.94	181	11.79	200	0	0	0	0	100	0	13	15	10	11	1289
1615:00	11.28	199	0.98	17	11.22	189	19.08			203	0	0	0	0	93	7	12	15	10	16	1300
1630:00	12.06	215	0.95	13	13.09	206	21.78	197	13.27	163	0	0	0	0	83	17	13	15	10	15	1327
1645:00	9.28	161	0.59	10	9.41	156	16.14	151	10.29		-	0	0	0	80	20	11	15	10	16	1248
1700:00	8.00	151	0.78	13	8.06	140	13.60	135	8.60	147	0	0	0	0	93	7	11	24	10	23	1247
1715:00	9.78	175	0.76	12	12.03	169	25.30	144	10.77	176	0	-	0	0	40	60	10	8	10	1	1403
1730:00	10.42	188	0.80	14	10.21	177	16.94	168	10.57	180	0	0	-	_	87	13	12	19	10	21	1234
1745:00	8.97	170	1.07	19	8.81	157	14.93	154	9.55	166	0	0	0	0	-		14	22	10	26	1198
1800:00	7.36	141	0.50	8	7.42	131	12.51	129	7.39	132	0	0	0	0	100	0		35	10	30	1050
1815:00	6.91	122	1.24	15	6.68	110	11.51	106	7.20	126	0	0	0	0	100	0	0				1132
1830:00	6.32	116	0.47	9	6.29	110	10.65	110	6.65	115	0	0	0	0	100	0	0	29	10	30	
1845:00	5.02	94	0.50	9	4.87	86	8.20	83	5.63	98	0	0	0	0	100	0	0	35	10	30	1076
1900:00	5.63	103	0.39	7	5 69	99	9.50	91	5.50	97	0	0	0	0	93	7	0	35	9	30	1066
1915:00	4.52	83	0.37	6	4.66	80	7.77	75	4.70	80	0	0	0	0	0	100	0	41	1	20	977
AVERAGE	8.97	147	0.82	13	10.08	139	15.56	132	9.53	145	0	0	0	0	72	28	12		TOTALS	327	22759
VARIANCE	6.0	1550	0.2	33	15.0	1383	26.8	1388	7.3	1486											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-48.

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 03/13/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ JAMBOREE TRAILER POST MILE: 27.54

	RM	ION	RHO	V	RP.	AS	RI	OMD	RQ	UE	[ M E	TER	ING	мо	DΕ	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	***	NO I	OATA ***																		
1430:00	***	NO I	*** ATA																		
1445:00			100.00*	0.A	100.00*	0.7	00.004	A0			0	0	0	0	0	100	0	0	0	0	0A
1500:00			42.17*	4	45.67*	98	53.20	78			0	0	0	0	0	100	0	0	1	20	1678
1515:00			1.60	19	23.48	140	69.43	87			0	0	0	0	0	100	12	0	12	0	2754
1530:00			2.09	24	26.20	160	78.74	83			0	0	0	0	0	100	12	0	12	0	3044
1545:00			1.23	14	14.01	191	21.33	166			0	0	0	0	0	100	12	0	12	0	3008
1600:00			1.53	20	11.09	163	18.11	153			0	0	0	0	0	100	12	0	12	0	2486
1615:00			1.23	17	11.61	195	19.11	186			0	0	0	0	0	100	15	0	15	0	2417
1630:00			0.94	11	13.99	210	23.68	186			0	0	0	0	0	100	15	0	15	0	2459
1645:00			0.64	10	9.76	157	16.03	152			0	0	0	0	0	100	15	0	15	0	2203
1700:00			0.77	12	8.20	146	13.69	138			0	0	0	0	0	100	15	0	15	0	2049
1715:00			0.76	12	13.10	181	24.70	160			0	0	0	0	0	100	15	0	15	0	2189
1730:00			0.89	12	10.22	175	16.27	171			0	0	0	0	0	100	15	0	15	0	2100
1745:00			1.12	17	8.76	159	14.49	157			0	0	0	0	0	100	15	0	15	0	1818
1800:00			0.51	8	7.56	135	12.23	132			0	0	0	0	0	100	15	0	15	0	1690
1815:00			1.31	20	6.98	112	11.47	108			0	0	0	0	0	100	12	0	12	0	1541
1830:00			1.30	23	7.63	125	13.03	113			0	0	0	0	0	100	12	0	12	0	1837
1845:00			2.13	39	6.01	94	10.56	86			0	0	0	0	0	100	12	0	12	0	1951
1900:00			1.90	37	7.21	117	12.54	86			0	0	0	0	0	100	12	0	11	4	1951
1915:00			98.83*	1	98.83*	1	98.83*	1			0	0	0	0	0	100	0	0	0	0	12
AVERAGE			1.25	18	11.61	154	19.78	139			0	0	0	0	0	100	14		momat d	2.4	27107
VARIANCE			0.2	75	31.1			1154			U	U	U	U	U	100	14		TOTALS	24	37187

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-49

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 04/14/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ GRAND 2 POST MILE: 31.73

	RM	ON	RH	OV	RP.	AS	RE	MD	RQ	UE	[ M E	TER	I N G	МО	DE	(%) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC.	VOL	OCC	VOL	occ	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
0545:00	4.22	90A			5.10	81A	7.71	75A	5.56	75A	0	0	0	0	0	100	0	23	0	0	1587A
0600:00	4.42	86			5.82	85	8.54	76	6.38	82	0	0	0	0	0	100	0	11	0	4	1838
0615:00	3.96	77			7.23	68	14.90	62	5.75	70	0	0	0	0	23	77	17	8	16	1	2004
0630:00	4.71	89			12.44	72	36.94	39	6.47	83	0	0	0	0	3	97	16	1	16	0	1918
0645:00	5.31	99			14.64	79	49.11	45	7.01	88	0	0	0	0	0	100	16	0	16	0	2553
0700:00	4.01	73			13,11	57	36.34	40	5.10	65	0	0	0	0	0	100	16	0	16	0	2685
0700:00	5.04	84			13.07	63	37.58	35	7.83	77	0	0	0	0	0	100	16	0	16	0	2490
0713:00	4.70	86			15.26	74	42.74	48	5.97	71	0	0	0	0	0	100	16	0	16	0	2650
0745:00	3.63	74			10.03	60	34.03	38	5.34	68	0	0	0	0	0	100	16	0	16	0	2562
0800:00	5.31	94			13.80	72	45.12	42	6.87	72	0	0	0	0	0	100	16	0	16	0	2536
0815:00	3.96	75			11.93	63	32.05	45	4.72	60	0	0	0	0	0	100	16	0	16	0	2395
0815:00	4.08	75 76			12 69	69	40.33	38	5.14	64	0	0	0	0	0	100	16	0	16	0	2393
0845:00	3.50	66			9.98	60	31.71	40	4.11	53	0	0	0	0	0	100	16	0	16	0	2230
0900:00	4.08	71			12.70	58	30.95	33	5.78	67	0	0	0	0	0	100	16	0	16	0	2100
0900:00	4.99	87			15.89	80	41.63	51	6.30	75	0	0	0	0	0	100	16	1	16	0	1858
	3.98	76			11.64	69	32 34	43	5.04	67	0	0	0	0	0	100	16	1	16	0	1964
0930:00	3.86	80			6.11	76	9.66	71	5.09	64	0	0	0	0	0	100	22	0	22	0	2054
0945:00		78A			5.48	75A	8.73	66A	4.91	63A	0	0	0	0	0	100	22	1	22	0	1896A
1000:00	4.01	/ 0A			5.10	, 5.1	• • • •														
AVERAGE	4,32	75		<b>-</b>	10.94′	64	30.02	44	5.74	65	0	0	0	0	2	98	17		TOTALS	5	37391
VARIANCE	0.3	342			11.8	243	179.2	185	8.0	290											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-50,

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 04/14/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ GRAND TRAILER POST MILE: 31.66

	RMC	N	RH	ov	RPA	AS	RDI	MD	RQ	UE	[ M E	TER	ING	мо	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	occ	VOL	OCC	VOL	occ	VOL	OCC	VOL	occ	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
0545:00	100.00*	0A			100.00*	0.7	100.00*	0 <i>P</i>	100.00*	0A	0	0	0	0	0	100	0	125	0	0	0A
0600:00	58.87*	38			44.93*	41	60.69*	31	48.93*	50	0	0	0	0	0	100	0	69	1	20	904
0615:00	12.37	62			6.77	69	16.33	56	6.83	66	0	0	0	0	100	0	28	34	16	22	1356
0630:00	14.58	79			12.83	86	37.06	36	7.90	88	0	0	0	0	97	3	22	24	16	4	1558
0645:00	18.43	92			16.87	93	50.97	41	6.93	86	0	0	0	0	7	93	16	7	16	0	1773
0700:00	14.33	70			17.09	77	37.80	42	7.76	75	0	0	0	0	0	100	16	1	16	0	1959
0715:00	20.99	88			13.91	80	38.57	39	7.62	89	0	0	0	0	0	100	16	2	、16	0	2022
0730:00	22.45	86			12.23	85	42.55	45	6.35	87	0	0	0	0	0	100	16	0	16	0	2300
0745:00	15.36	70			7.29	60	32.67	36	6.21	74	0	0	0	0	0	100	16	0	16	0	2198
0800:00	32.70	90			11.88	99	56.84	47	4.91	72	0	0	0	0	0	100	16	0	16	0	2260
0815:00	16.12	68			8.05	73	32.83	44	0.23	5	0	0	0	0	0	100	16	0	16	0	2057
0830:00	29.10	63			10.80	83	41.27	36	2.50	24	0	0	0	0	0	100	16	0	16	0	1963
0845:00	14.35	57			8.75	75	33.35	41	1.11	14	0	0	0	0	0	100	16	0	16	0	1898
0900:00	16.24	60			6.38	56	31.05	33	1.67	10	0	0	0	0	0	100	16	2	16	0	1809
0915:00	17.03	84			10.25	81	41.27	42	0.40	4	0	0	0	0	47	53	18	16	16	0	1596
0930:00	15.79	72			8.39	69	34.91	44	1.29	16	0	0	0	0	30	70	17	13	14	4	1693
0945:00	99.87*	2			99.73*	1	99.73*	1	99.76*	2	0	0	0	0	0	100	0	105	0	0	8
1000:00	95.29*	ΑO			95.29*	0.7	A 95.29*	0.7	95.29*	A0	0	0	0	0	0	100	0	125	0	0	A0
AVERAGE	18.56	74			10.82	78	37.68	42	4.41	51	0	0	0	0	17	83	17		TOTALS	50	27354
VARIANCI	E 32.4	133			11.4	130	83.5	31	8.5	1174											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-51

CALIFORNIA, DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 04/14/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ GRAND 2 POST MILE: 31.73

	RM	ION	RH	ov	RP	AS	RD	MD	RQ	UE	[ M E	TER	I N G	мо	DE	(%)]	RATE	LR	TOD	GRN BALL	ML
TIME	occ	VOL	occ	VOL	occ	VOL	OCC	VOL	occ	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	6.13	135A			7.67	120A	11.50	108A	8.58	117A	0	0	0	0	0	100	22	0	22	0	2049A
1430:00	6.09	125			8.16	118	11.89	115	8.60	113	0	0	0	0	0	100	22	0	22	0	1896
1445:00	5.21	96			17.42	81	49.14	42	7.00	91	0	0	0	0	0	100	16	0	16	0	2024
1500:00	10.33	164			17.76	87	52.44	43	6.83	95	0	0	0	0	0	100	16	0	16	0	1466
1515:00	11.20	162			15.47	82	49.11	48	6.77	90	0	0	0	0	0	100	16	0	16	0	1391
1530:00	19.09	167			18.64	93	62.25*	42	8.25	106	0	0	0	0	0	100	16	0	16	0	1108
1545:00	12.63	199			21.84	107	66.56*	41	9.90	135	0	0	0	0	0	100	16	0	16	0	1614
1600:00	11.34	194			19.41	101	60.94	45	10.00	126	0	0	0	0	0	100	16	0	16	0	1861
1615:00	10.39	182			21.02	109	71.90	40	8.96	123	0	0	0	0	0	100	16	0	16	0	1968
1630:00	13.90	198			20.30	104	67.01	47	7.82	105	0	0	0	0	0	100	16	0	16	0	1824
1645:00	11.21	202			23.71	104	66.73	44	8.60	126	0	0	0	0	0	100	16	0	16	0	1868
1700:00	12.10	197			21.22	97	61.30	43	7.76	101	0	0	0	0	0	100	16	0	16	0	1719
1715:00	15.07	221			18.84	100	59.00	52	7.22	112	0	0	0	0	0	100	16	0	16	0	1033
1730:00	15.05	236			26.10	106	65.94	44	7.29	112	0	0	0	0	0	100	16	0	16	0	1043
1745:00	13.15	193			18.79	81	49.95	49	5.85	84	0	0	0	0	0	100	16	0	16	0	1042
1800:00	14.79	230			15.85	90	59.46	38	7.23	100	0	0	0	0	0	100	16	0	16	0	937
1815:00	8.46	171			13.04	78	53.67*	43	5.43	82	0	0	0	0	0	100	16	0	16	0	1761
1830:00	8.19	158			13.22	78	48.13	37	5.27	75	0	0	0	0	0	100	16	0	16	0	1755
1845:00	9.47	173			16.69	90	55.87	47	7.66	102	0	0	0	0	0	100	16	0	16	0	2061
1900:00	4.73	101			12.36	87	39.11	51	5.32	79	0	0	0	0	13	87	16	8	14	4	1679
1915:00	3.38	74			5.17	68	8.18	58	4.29	61	0	0	0	0	0	100	0	18	0	0	1622
													_	_		2.0	3.6		momat c	4	32355
AVERAGE	10.57	166			16.79	91	49.31	49	7.36	98	0	0	0	0	1	99	16		TOTALS	4	32333
VARIANCE	15.3	2487			27.2	280	364.4	287	2.2	506											,

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-52

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 04/14/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98
FREEWAY LOCATION: 5 N/B @ GRAND TRAILER POST MILE: 31.66

	RMO	NC	RH	vc	RPA	AS	RDI	MD	RQI	IJΕ	[ M E	TER	ING	МО	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	100.00*	0A			100.00*	0.A	100.00*	0.2	100.00*	A0	0	0	0	0	0	100	0	125	0	0	0A
1430:00	64.55*	67			46.40*	68	65.41*	263	48.71*	87	0	0	Q	0	0	100	0	60	1	20	1139
1445:00	24.51	138			19.69	103	48.90	63	16.64	154	0	0	0	0	0	100	16	4	16	0	1952
1500:00	27.42	179			21.70	106	55.00	47	15.89	158	0	0	0	0	0	100	16	0	16	0	2014
1515:00	26.71	147			20.79	91	51.98	57	13.76	149	0	0	0	0	0	100	16	0	16	0	1885
1530:00	28.35	158			21.32*	108	61.92*	70	15.35	213	0	0	0	0	0	100	16	0	16	0	1505
1545:00	34.62	164			29.64	130	68.79*	50	18.27	182	0	0	0	0	0	100	16	0	16	0	1899
1600:00	32.82	156			24.26	131	63.96*	50	18.05	194	0	0	0	0	0	100	16	0	16	0	2146
1615:00	36.21	191			23.71*	124	66.24	100	20.85	224	0	0	0	0	0	100	16	0	16	0	2201
1630:00	27.55	130			21.35	130	66.39	64	17.01	176	0	0	0	0	0	100	16	0	16	0	2116
1645:00	26.76	130			23.67	120	66.15	69	15.27	168	0	0	0	0	0	100	16	0	16	0	2220
1700:00	29.10	164			18.39	129	66.70*	65	20.84	197	0	0	0	0	0	100	16	0	16	0	2180
1715:00	28.84	149			21.81*	121	62.29	107	16.20	167	0	0	0	0	0	100	16	0	16	0	1451
1730:00	29.23	134			26.81*	125	66.49	79	14.40	161	0	0	0	0	0	100	16	0	16	0	1290
1745:00	23.81	130			16.79	105	54.38	98	12.94	149	0	0	0	0	0	100	16	0	16	0	1323
1800:00	23.76	122			17.27	101	61.86	58	11.37	129	0	0	0	0	0	100	16	0	16	0	1189
1815:00	22.91	124			14.43*	90	50.78	111	11.47	121	0	0	0	0	13	87	1.7	6	16	1	1697
1830:00	22.24	102			14.55*	87	50.18	79	14.75	156	0	0	0	0	0	100	16	0	16	0	1789
1845:00	25.54	129			18.42	105	58.50	78	15.58	153	0	0	0	0	0	100	1.6	0	16	0	2020
1900:00	19.93	121			12.39*	99	46.63	146	11.74	139	0	0	0	0	40	60	18	20	14	11	1435
1915:00	99.73*	1			99.66*	1	99.74*	3	99.66*	1	0	0	0	0	0	100	0	106	0	0	12
AVERAGE	27.24	143			21.09	114	57.56	83	15.58	166	0	0	0	0	3	97	16		TOTALS	32	33463
VARIANCE	17.2	483			12.7	191	49.4	675	7.5	716											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

Table J-53

CALIFORNIA, DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 04/16/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ GRAND 2 POST MILE: 31.73

	RM	ION	RH	OV	RF	AS	RD	MD	RQ	UE	[ M E	ETER	I N G	мо	DE	(%) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	occ	VOL	occ	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	AOL
0545:00	5.04	108A			6.61	105A	10.28	84A	6.32	93A	0	0	0	0	0	100	0	31	0	0	1773A
0600:00	3.43	70			4.54	66	6.66	60	5.10	67	0	0	0	0	0	100	0	7	0	4	1822
0615:00	3.89	76			5.20	74	7.44	67	5.90	74	0	0	0	0	17	83	16	8	16	4	1860
0630:00	4.88	90			11.87	_	32.47	46	7.42	89	0	0	0	0	0	100	16	4	16	0	1861
	5.22	95			13.92	72	43.87	44	7.10	86	0	0	0	0	0	100	16	0	16	0	2188
0645:00	4.73	80			13.58	65	36.61	39	6.77	72	0	0	0	0	0	100	16	0	16	0	2463
0700:00					12.80	58	36.37	37	5.54	67	0	0	0	0	0	100	16	0	16	0	2468
0715:00	4.06	73			14.17	69	36.61	44	5.49	69	0	0	0	0	0	100	16	0	16	0	2533
0730:00	4.12	80					47.59	38	7.52	78	0	0	0	0	0	100	16	0	16	0	2567
0745:00	5.61	90			14.48	71					0	0	0	0	0	100	16	0	16	0	2601
0800:00	5.16	106			16.82	82	48.00	40	6.51	85	_	=	-	0	0	100	16	0	16	0	2392
0815:00	4.04	73			10.09	57	30.11	37	4.69	55	0	0	0	-				0	16	0	2432
0830:00	4.81	90			14.94		44.68	40	6.62	81	0	0	0	0	0	100	16			•	2432
0845:00	5.14	94			14.64	72	47.52	35	6.24	80	0	0	0	0	0	100	16	0	16	0	
0900:00	4.29	89			15.49	66	40.09	45	5.43	69	0	0	0	0	0	100	16	0	16	0	2222
0915:00	5.43	91			16.36	80	46.07	46	6.93	81	0	0	0	0	0	100	16	0	16	0	1981
0930:00	5.13	90			17.01	77	39.89	46	6.42	72	0	0	0	0	0	100	16	0	16	0	2050
0945:00	4.61	85			5.99	79	8.43	75	6.26	71	0	0	0	0	0	100	22	0	22	0	2028
1000:00	4.94	99A			7.60	99A	10.44	93A	7.59	96A	0	0	0	0	0	100	22	0	22	0	2151A
AVERAGE	4.70	80			12.01	67	31.84	44	6.33	70	0	0	0	0	1	99	17		TOTALS	8	37013
VARIANCE	0.3	338			16.8	178 2	231.6	136	0.7	249											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

'15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 04/16/1998 FROM 0530:00 TO 1000:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ GRAND TRAILER POST MILE: 31.66

	RMO	ON	RH	OV	RP2	AS	RDI	ΔD	RQI	UE	[ M E	TER	ING	мс	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC	VOL	OCC	VOL	occ	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
0545:00	100.00*	0A			100.00*	0.2	100.00*	0.A	100.00*	0A	0	0	0	0	0	100	0	125	0	0	0A
0600:00	46.90*	35	<b>-</b>		43.38*	33	59.75*	21	44.38*	32	0	0	0	0	0	100	0	73	1	20	817
0615:00	9.63	64			4.67	70	9.04	63	4.07	68	0	0	0	0	100	0	0	36	16	30	1340
0630:00	14.17	77			13.13	86	33.67	41	6.39	84	0	0	0	0	97	3	24	25	16	4	1510
0645:00	17.09	91			14.40	97	48.11	43	3.98	72	0	0	0	0	10	90	17	6	16	0	1877
0700:00	17.58	84			13.44	94	38.91	42	6.70	84	0	0	0	0	0	100	16	0	16	0	2085
0715:00	18.43	76			10.91	76	35.37	37	4.78	60	0	0	0	0	0	100	16	0	16	0	2036
0730:00	16.39	80			10.33	76	34.21	51	4.49	64	0	0	0	0	0	100	16	0	16	0	2212
0745:00	19.85	81			11.41	74	42.91	47	5.14	71	0	0	0	0	0	100	16	0	16	0	2198
0800:00	16.41	91			10.53	94	41.73	37	4.31	74	0	0	0	0	0	100	16	0	16	0	2233
0815:00	11.75	65			8.24	66	32.71	36	2.76	50	0	0	0	0	0	100	16	0	16	0	2051
0830:00	26.09	84	<b>-</b>		10.91	82	44.93	43	1.89	20	0	0	0	0	0	100	16	0	16	0	2079
0845:00	17.18	93			11.94	85	44.23	42	1.79	7	0	0	0	0	0	100	16	0	16	0	1911
0900:00	22.05	107			12.28	86	38.63	38	0.46	7	0	0	0	0	0	100	16	0	16	0	1970
0915:00	27.12	76			12.85	98	49.82	40	2.49	7	0	0	0	0	0	100	16	8	16	0	1735
0930:00	19.36	103			11.94	92	40.30	48	0.34	7	0	0	0	0	0	100	16	3	14	4	1818
0945:00	95.33*	6			94.75*	4	94.97*	5	94.55*	1	0	0	0	0	0	100	0	109	0	1	75
1000:00	95.62*	0A			95.62*	0.74	95.62*	0 <i>P</i>	95.62*	ΑO	0	0	0	0	0	100	0	125	0	0	A0
AVERAGE	18.08	84			11.21	84	38.18	43	3.54	48	0	0	0	0	12	88	17		TOTALS	59	27947
VARIANO		145			5.5	99	91.4	47	3.7	906	J	J		·	14	50	<b>1</b> /		101710	. 55	21211

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

# Table J-55

#### CALIFORNIA, DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 04/16/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ GRAND 2 POST MILE: 31.73

	RM	ION	RH	VO	RP	2AS	RD	MD	RÇ	UE	[ M E	TER	I N G	мо	D E	(%)]	RATE	LR	TOD	GRN BALL	ML
TIME	occ	VOL	occ	VOL	occ	VOL	OCC	VOL	OCC	VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	4.81	111A			6.76	108A	10.02	105A	6.04	87A	0	0	0	0	0	100	22	0	22	0	2163A
1430:00	6.26	<b>1</b> 37			8.58	129	12.28	122	8.25	113	0	0	0	0	0	100	22	0	22	0	2041
1445:00	4.98	110			7.15	105	10.00	97	6.07	89	0	0	0	0	0	100	16	0	16	0	2134
1500:00	7.33	151			10.45	140	14.59	131	10.85	134	0	O	0	0	0	100	16	0	16	0	2261
1515:00	6.70	146			9.15	135	12.82	123	9.10	122	0	0	0	0	0	100	16	0	16	0	2162
1530:00	6.23	128			8.31	121	11.65	104	7.27	100	0	0	0	0	0	100	16	0	16	0	2220
1545:00	6.90	149			9.66	145	14.02	130	9.20	125	0	0	0	0	0	100	16	0	16	0	2214
1600:00	6.80	135			7.25	97	10.61	91	5.98	85	0	0	0	0	0	100	16	0	16	0	2127
1615:00	6.03	135			7.82	118	11.51	111	7.21	106	0	0	0	0	0	100	16	0	16	0	2144
1630:00	7.16	145			10.78	106	20.64	86	7.62	102	0	0	0	0	0	100	16	0	16	0	2188
1645:00	8.03	160			14.01	99	44.98	59	8.05	114	0	0	0	0	0	100	16	0	16	0	2041
1700:00	10.15	188			21.49	104	69.75*	40	7.13	105	0	0	0	0	0	100	16	0	16	0	1879
1715:00	12.06	216			20.58	102	69.34*	32	9.64	146	0	0	0	0	0	100	16	0	16	0	1751
1730:00	13.56	220			17.77	90	73.66*	40	7.07	100	0	0	0	0	0	100	16	0	16	0	1374
1745:00	10.00	180			19.47	92	64.60	39	6.49	95	0	0	0	0	0	100	16	0	16	0	1456
1800:00	11.02	190			15.35	89	55.93	54	5.75	90	0	0	0	0	0	100	16	0	16	0	1339
1815:00	9.66	168			17.21	82	49.20	41	5.83	79	0	0	0	0	0	100	16	0	16	0	1565
1830:00	9.80	160			13.41	76	45.73	41	5.32	80	0	0	0	0	0	100	16	0	16	0	1718
1845:00	6.64	137			13.46	69	39.95	33	5.45	77	0	0	0	0	0	100	16	0	16	0	2106
1900:00	4.89	99			15.42	65	37.68	39	4.77	62	0	0	0	0	0	100	16	1	14	4	1917
1915:00	4.48	96			5.40	87	7.67	81	5.96	83	0	0	0	0	0	100	0	16	0	0	1611
AVERAGE	7.79	147			12.36	99	26.33	79	7.10	97	0	0	0	0	0	100	16		TOTALS	4	38969
VARIANCE	6.1	1654			23.1	675	342.6	1246	2.4	630											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

ALL VALUES ARE SUSPECT UNTIL VERIFIED BY ENGINEER

CALIFORNIA, DEPARTMENT OF TRANSPORTATION - CALTRANS DISTRICT 12 - SATMS DATA COLLECTED IN FIELD

15-MINUTE DETECTOR OCCUPANCY AND VOLUME COUNTS ON 04/16/1998 FROM 1400:00 TO 1915:00 PRINTED: 08/25/98 FREEWAY LOCATION: 5 N/B @ GRAND TRAILER POST MILE: 31.66

	RMON	RHOV	RPAS	RDMD	RQUE	[ M E	TER	I N G	мо	DE	(왕) ]	RATE	LR	TOD	GRN BALL	ML
TIME	OCC VOL	OCC VOL	OCC VOL	OCC VOL	OCC VOL	FM	TOC	PSO	CORM	LR	TOD	USED	RATE	RATE	CYCLES	VOL
1415:00	*** NO DAT	ΓA ***														
1430:00	*** NO DAT	ra ***														
1445:00	*** NO DAT	ra ***														
1500:00	*** NO DAT	ra ***														
1515:00	*** NO DAT	ra ***														
1530:00	*** NO DAT	[A ***														
1545:00	*** NO DAT	"A ***														
1600:00	*** NO DAT	TA ***														
1615:00	55.93* 69A		44.91* 78	A 58.16* 156A	51.29* 84A	80	0	0	0	0	0	0	63	13	8	1347A
1630:00	35.66* 86		13.14* 127	38.86 239	26.66 105	70	0	0	0	0	30	16	0	16	21	2223
1645:00	47.94* 93		34.44* 94	67.05* 132	25.27* 106	23	0	0	0	0	77	16	8	16	7	1841
1700:00	27.54 191		23.12 109	61.63 59	12.11 137	0	0	0	0	0	100	16	0	16	0	2114
1715:00	35.83 232		28.60 131	64.98 38	15.35 172	0	0	0	0	0	100	16	0	16	0	2075
1730:00	32.76 196		21.93 115	52.16 54	12.52 133	0	0	0	0	0	100	16	0	16	0	1746
1745:00	24.15 156		21.66 120	54.69 48	10.92 121	0	0	0	0	0	100	16	0	16	0	1726
1800:00	24.81 192		18.37 109	51.20 49	9.85 132	0	0	0	0	0	100	1.6	0	16	0	1622
1815:00	23.50 162		20.03 103	46.47 36	10.18 112	0	0	0	0	0	100	16	0	16	0	1688
1830:00	21.84 137		16.51 94	43.29 38	11.71 125	0	0	0	0	0	100	16	0	16	0	1744
1845:00	19.02 92		15.29 79	43.19 28	8.16 91	0	0	0	0	0	100	16	0	16	0	1986
1900:00	15.46 100		21.26 80	36.64 38	11.31 76	0	0	0	0	7	93	16	5	14	4	1767
1915:00	98.33* 1		98.33* 1	98.33* 1	98.42* 2	0	0	0	0	0	100	0	105	0	0	12
AVERAGE	24.99 162		20.75 104	49.31 63	12.88 120	10	0	0	0	1	89	16		TOTALS	40	20993
VARIANCE	36.0 1911		13.8 273	79.0 3532	24.3 640											

<sup>\* =</sup> SUSPECT/MALFUNCTION DATA

A = ADJUSTED DATA / --- = INACTIVE DETECTOR

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For more information, please contact:

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