



# Meeting Notice

1111 Broadway, Suite 800, Oakland, CA 94607

• 510.208.7400

• [www.AlamedaCTC.org](http://www.AlamedaCTC.org)

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## **Executive Director**

Arthur L. Dao

# I-680 Sunol Smart Carpool Lane Joint Powers Authority

**Monday, October 12, 2015, 9:30 a.m.**

**1111 Broadway, Suite 800  
Oakland, CA 94607**

## **Mission Statement**

The mission of the Alameda County Transportation Commission (Alameda CTC) is to plan, fund, and deliver transportation programs and projects that expand access and improve mobility to foster a vibrant and livable Alameda County.

## **Public Comments**

Public comments are limited to 3 minutes. Items not on the agenda are covered during the Public Comment section of the meeting, and items specific to an agenda item are covered during that agenda item discussion. If you wish to make a comment, fill out a speaker card, hand it to the clerk of the Commission, and wait until the chair calls your name. When you are summoned, come to the microphone and give your name and comment.

## **Recording of Public Meetings**

The executive director or designee may designate one or more locations from which members of the public may broadcast, photograph, video record, or tape record open and public meetings without causing a distraction. If the Commission or any committee reasonably finds that noise, illumination, or obstruction of view related to these activities would persistently disrupt the proceedings, these activities must be discontinued or restricted as determined by the Commission or such committee (CA Government Code Sections 54953.5-54953.6).

## **Reminder**

Please turn off your cell phones during the meeting. Please do not wear scented products so individuals with environmental sensitivities may attend the meeting.

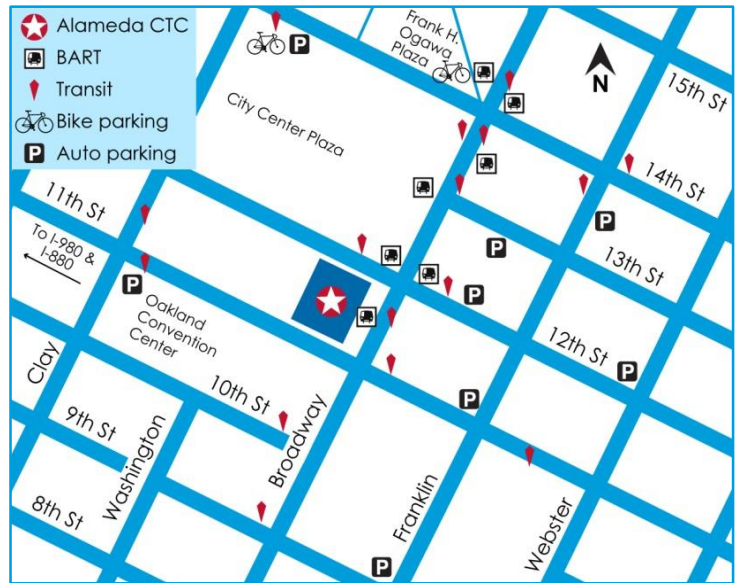
## **Glossary of Acronyms**

A glossary that includes frequently used acronyms is available on the Alameda CTC website at [www.AlamedaCTC.org/app\\_pages/view/8081](http://www.AlamedaCTC.org/app_pages/view/8081).

## Location Map

★ Alameda CTC  
1111 Broadway, Suite 800  
Oakland, CA 94607

Alameda CTC is accessible by multiple transportation modes. The office is conveniently located near the 12th Street/City Center BART station and many AC Transit bus lines. Bicycle parking is available on the street and in the BART station as well as in electronic lockers at 14th Street and Broadway near Frank Ogawa Plaza (requires purchase of key card from bikelink.org).



Garage parking is located beneath City Center, accessible via entrances on 14th Street between 1300 Clay Street and 505 14th Street buildings, or via 11th Street just past Clay Street. To plan your trip to Alameda CTC visit [www.511.org](http://www.511.org).

## Accessibility

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## Meeting Schedule

The Alameda CTC meeting calendar lists all public meetings and is available at [www.AlamedaCTC.org/events/upcoming/now](http://www.AlamedaCTC.org/events/upcoming/now).

## Paperless Policy

On March 28, 2013, the Alameda CTC Commission approved the implementation of paperless meeting packet distribution. Hard copies are available by request only. Agendas and all accompanying staff reports are available electronically on the Alameda CTC website at [www.AlamedaCTC.org/events/month/now](http://www.AlamedaCTC.org/events/month/now).

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# I-680 Sunol Smart Carpool Lane Joint Powers Authority Meeting Agenda Monday, October 12, 2015, 9:30 a.m.

1111 Broadway, Suite 800, Oakland, CA 94607

• PH: (510) 208-7400

• [www.AlamedaCTC.org](http://www.AlamedaCTC.org)

## 1. Pledge of Allegiance

## 2. Roll Call

## 3. Public Comment

**Chair:** Mayor Jerry Thorne, City of Pleasanton

**Vice Chair:** Mayor David Haubert, City of Dublin

**Commissioners/Members:** Scott Haggerty, Bill Harrison, Jason Baker (Santa Clara Valley Transportation Authority),

**Staff Liaison:** Kanda Raj

**Executive Director:** Arthur L. Dao

**Clerk:** Vanessa Lee

## 4. Consent Calendar

Page A/I

### 4.1. [Approval of the I-680 Sunol Smart Carpool Lane Joint Powers Authority September 14, 2015 Meeting Minutes](#)

1 A

## 5. Regular Matters

### 5.1. [I-680 Southbound Express Lane \(PN 710.5\): Monthly Operations Update](#)

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### 5.2. [I-680 Northbound Express Lane \(PN 721.0\): Monthly Status Update](#)

13 I

## 6. Committee Member Reports (Verbal)

## 7. Staff Reports (Verbal)

## 8. Adjournment

**Next Meeting:** November 9, 2015

All items on the agenda are subject to action and/or change by the Commission.

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# I-680 Sunol Smart Carpool Lane Joint Powers Authority Meeting Minutes Monday, September 14, 2015, 9:30 a.m.

4.1

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## 1. Pledge of Allegiance

## 2. Roll Call

A roll call was conducted. All members were present with the exception of Commissioner Haggerty and Commissioner Baker.

### Subsequent to the roll call:

Commissioner Haggerty arrived during item 5.1.

## 3. Public Comment

There were no public comments.

## 4. Consent Calendar

### 4.1. Approval of the I-680 Sunol Smart Carpool Lane JPA July 13, 2015 Meeting Minutes

*Commissioner Harrison moved to approve the Consent Calendar. Commissioner Haubert seconded the motion. The motion passed unanimously (Haggerty and Baker absent).*

## 5. Regular Matters

### 5.1. I-680 Southbound Express Lane (PN 710.5): Monthly Operations Update

Kanda Raj presented the I-680 Southbound Express Lane operations update for the months of June 2015 and July 2015. He covered the corridor throughput, year over year comparison by month, lane usage by month, average travel speed, speed curves during peak commute period, and average daily toll trips. He concluded his presentation by providing information on projected versus actual revenues.

Commissioner Harrison asked if the agency planned to prepare any communication materials regarding the 5-year anniversary of the express lane operation. Heather Barber stated that the communications team is working on a flyer that covers the 5-year anniversary of the opening of the lane. She stated that this material will be distributed at the next Commission meeting.

*This item was for information only.*

## 6. Committee Member Reports

There were no committee member reports.

## 7. Staff Reports

Commissioner Haggerty requested that the Authority staff provides regular I-680 Northbound Express Lane project status updates at the I-680 JPA meetings. Art stated that staff will bring an update to the Committee at the next meeting.

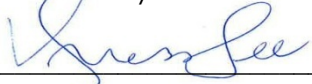
**8. Adjournment/ Next Meeting**

The next meeting is:

Date/Time: Monday, October 12, 2015 @ 9:30 a.m.

Location: Alameda CTC Offices, 1111 Broadway, Suite 800, Oakland, CA 94607

Attested by:



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Vanessa Lee,  
Clerk of the Commission



# Memorandum

5.1

1111 Broadway, Suite 800, Oakland, CA 94607

• PH: (510) 208-7400

• www.AlamedaCTC.org

**DATE:** October 5, 2015

**SUBJECT:** I-680 Southbound Express Lane (PN 710.5): Monthly Operations Update

**RECOMMENDATION:** Receive a status update on the operation of the I-680 Southbound Express Lane.

## Summary

The purpose of this item is to provide the I-680 Sunol Smart Carpool Lane Joint Powers Authority ("Sunol JPA") with Monthly Operation Update of the express lane facility for the month of August 2015, included as Attachment A.

Review of August 2015 operation reports indicates that the express lane facility continued to provide travel reliability (speed and travel time savings) in the lane, and improved traffic operations within the corridor.

Comparison of performance metrics demonstrates that the average daily toll paying usage continues to increase. This is an indication that solo drivers continue to choose to utilize the express lane to experience travel reliability and time savings. The average travel speed in the express lane continues to remain steady on average; maintaining at or above the posted speed limit.

## Background

The I-680 Southbound Express Lane facility spans over 14 miles from SR 84 near Pleasanton to SR 237 in the City of Milpitas. The facility was opened in September 2010 and is the first operational express lane facility in Northern California; it is one of a few in the nation to have a shared toll and non-toll facility. In addition to carpoolers who use the lane at no cost, it allows toll-paying solo drivers to benefit from optimized capacity, reduced congestion and increased travel time reliability. Constructed within the restricted right-of-way, the facility has no physical barrier between the general purpose lanes and the express lane, but is separated by a double white stripe. The Alameda CTC, acting as the managing agency for the Sunol JPA, has been operating the express lane facility since it opened to traffic in September 2010.

All Electronic Toll (AET) collection method has been employed to collect tolls, i.e.) no need to stop to pay tolls. Tolls are collected via FasTrak® transponders, issued by Bay

Area Toll Authority that are automatically read by readers mounted on overhead gantries. Toll rates are calculated based on real-time traffic conditions (speed and volume) in HOV/express and general purposes lanes. The accounts of vehicles passing through with valid FasTrak® transponders are charged the appropriate toll for the length of their trip, based on the toll rates published via dynamic message signs. California Highway Patrol officers continued to provide enforcement services while Caltrans provides roadway maintenance services, through reimbursable service agreements.

**August 2015 Operation Update:** See Attachment A. During the peak commute hour, the motorists in the express lane, including the carpool users, travelled with speeds approximately 10-15 mph faster than the motorists travelling in the general purpose lanes. Vehicle speeds observed in HOV/Express Lane during the commute hours indicate that the use of the lane by solo drivers did not degrade the level of service in the lane and/or impede the benefits of carpooling.

Year over year comparison indicates that a 9% increase in corridor traffic during the peak commute hour since last year. The comparison also indicates a 23% increase in HOV/Express Lane usage.

The average daily and monthly toll paying trips were approximately 3,400 and 72,200, respectively.

**Fiscal Impact:** There is no fiscal impact.

## **Attachments**

A. I-680 Southbound Express Lane August 2015 Operation Update

## **Staff Contact**

[Kanda Raj](#), Express Lanes Program Manager

[Taylor Rutsch](#), Express Lane Operation Staff



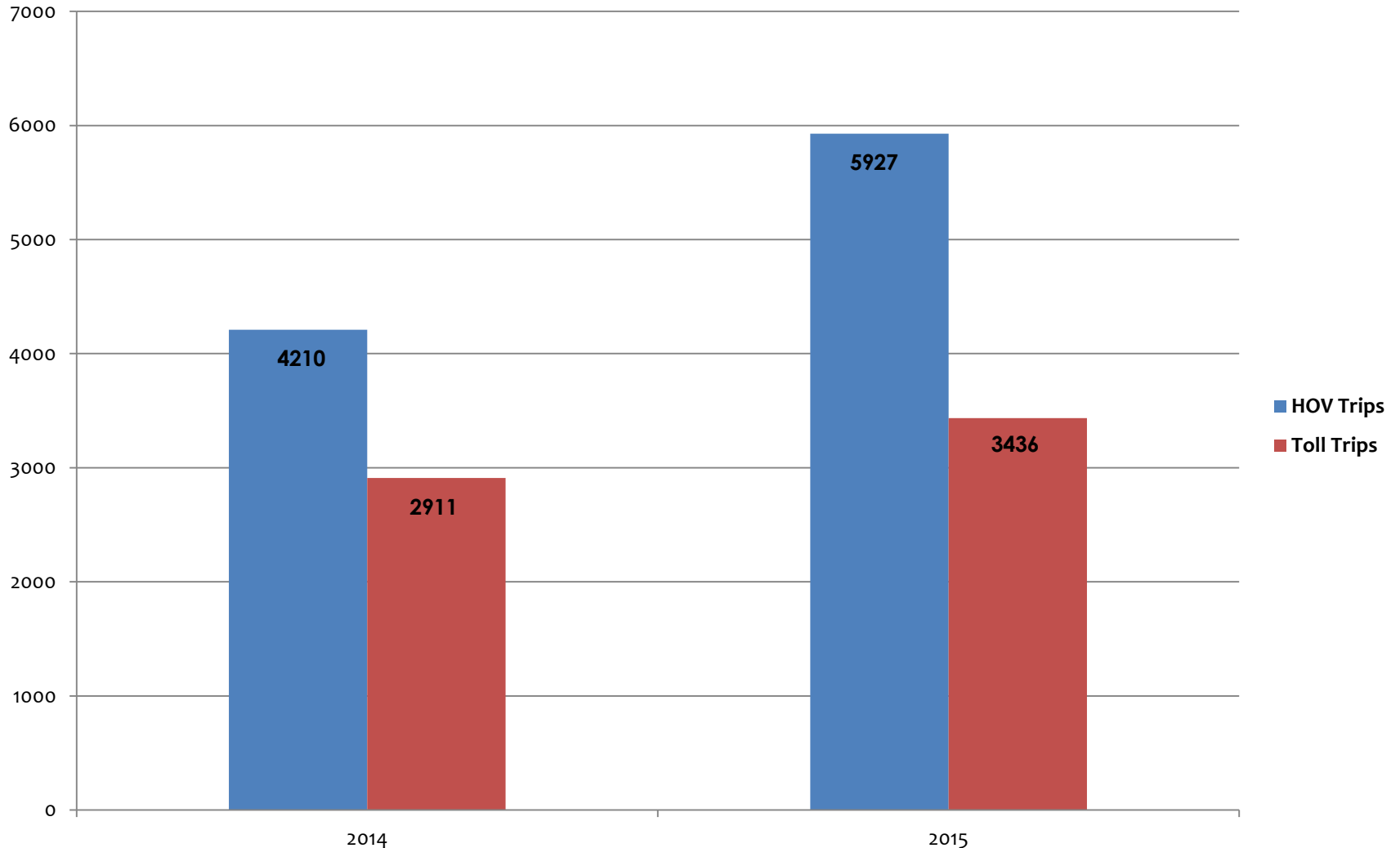


# I-680 SB Express Lane Monthly Operations August 2015 Update

A Presentation for the  
I-680 Sunol Smart Carpool Lane Joint Powers Authority (SSCLJPA)  
**October, 2015**






# Average Daily HOV Trips vs. Toll Trips - August Year over Year Comparison



# Hourly Traffic Volume During Peak Period

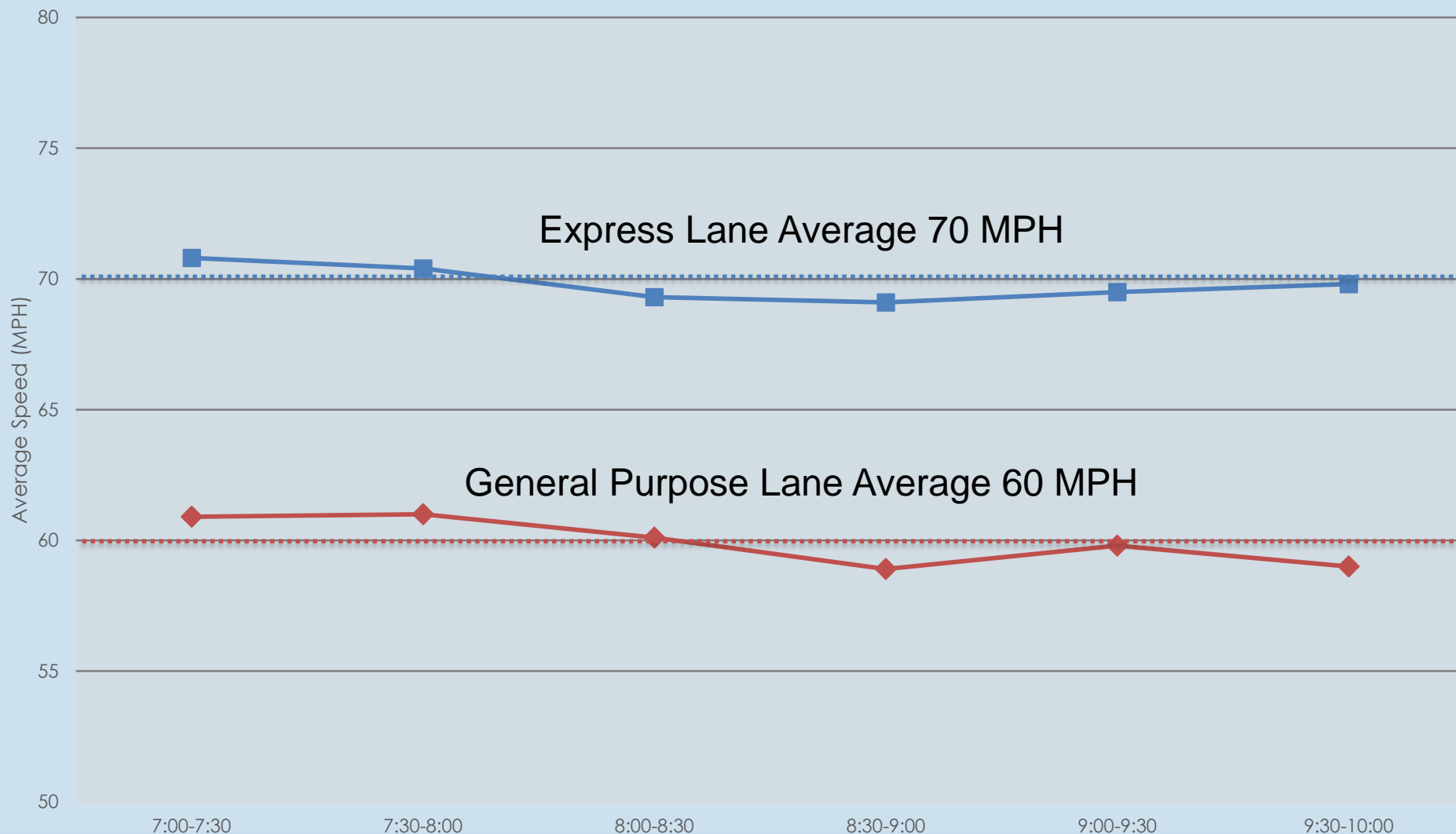
(7:00 – 10:00 a.m., Mon - Fri)

	August 2014	August 2015	2014 vs. 2015
Corridor	6,510 vph	7,113 vph	 9%
HOV/Express Lane	928 vph	1,139 vph	 23%
Toll-Paying Users	453 vph	489 vph	 8%

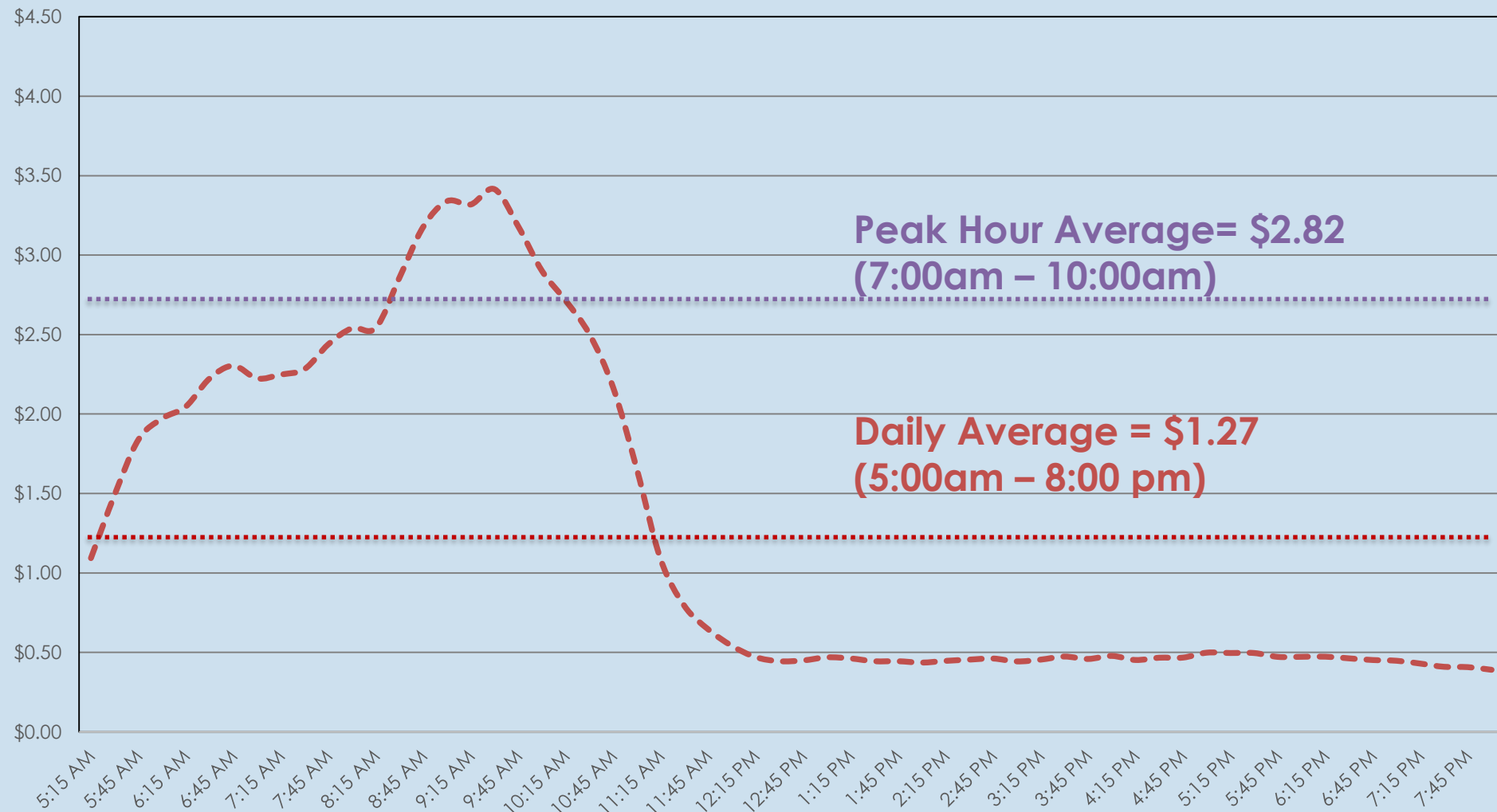
VPH = Vehicles Per Hour

# August 2015 - Average Travel Speed During Peak Period (7:00 – 10:00am, Mon - Fri)

(Within 14-mile Express Lane Facility)

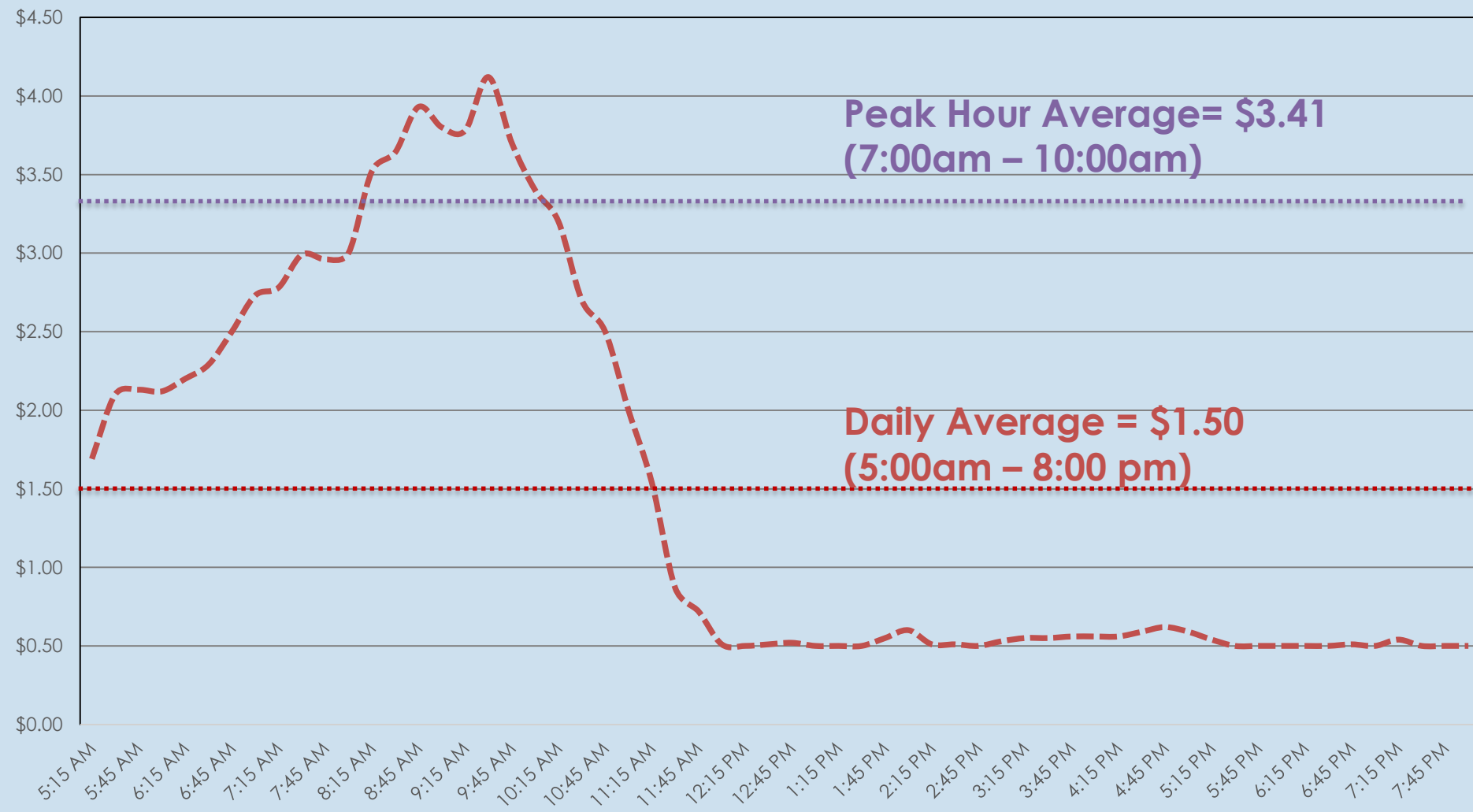


# Average Toll Rate (Mon-Fri) Throughout the Corridor



# Average Toll Rate (Mon-Fri)

## Andrade - Calaveras



# Revenue (Estimated Gross vs. Forecasted)

Revenue in FY 2015/16  
(August 2015)

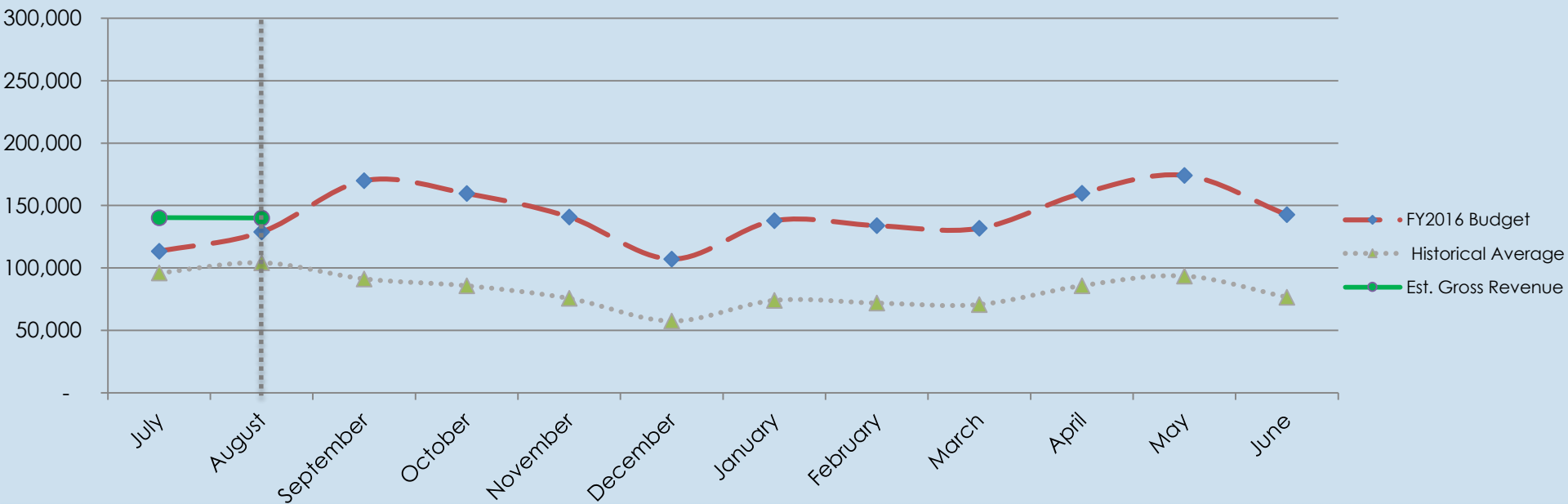
**Estimated Gross Revenue**

**\$280,301**

 **16%**

**Forecasted\*** **\$242,189**

\* Forecasted revenue for the full FY 15/16 is \$1,700,000







Questions ?





# Memorandum

5.2

1111 Broadway, Suite 800, Oakland, CA 94607

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www.AlamedaCTC.org

**DATE:** October 5, 2015

**SUBJECT:** I-680 Northbound Express Lane (PN 721.0): Monthly Status Update

**RECOMMENDATION:** Receive a monthly status update of the I-680 Northbound Express Lane Project.

## Summary

The I-680 Northbound Express Lane Project will widen I-680 from SR 237 in Santa Clara County to SR 84 in Alameda County and construct a northbound High Occupancy Vehicle (HOV)/Express Lane in the corridor. This overall project will be implemented with a phased approach. The initial phase, Phase 1 Modified, of the project will complete design and construction of a 9-mile segment between south of Auto Mall Parkway and SR84. The purpose of this item is to provide the Commission with a monthly status update of project development activities which are either completed or planned for the project.

## Background

The I-680 Northbound Express Lane Project will widen I-680 from SR 237 in Santa Clara County to SR 84 in Alameda County to construct a 14 mile long northbound HOV/Express Lane in the corridor. The project is intended to provide a number of benefits including: 1) enhanced mobility by reducing traffic congestion; 2) reduced travel time and improved travel reliability; and 3) reduced congestion related accidents, thereby enhancing safety. The Express Lane facility will maximize available HOV lane capacity by offering solo drivers the choice to pay an electronic toll to access the lane, while regular carpool/carpool eligible users continue to use the lane at no cost.

Currently, there is heavy afternoon congestion on I-680 Northbound from Scotts Creek Boulevard to Andrade Road. Traffic studies have confirmed that this heavy congestion is caused by two bottleneck locations affecting northbound I-680 between SR 237 and SR 84 on weekday evening commutes between 2pm and 7pm. These bottleneck locations are: near Washington Boulevard and at the lane drop at the truck scales which is located between Sheridan Road and Andrade Road. The initial phase of construction, Phase 1 Modified, proposes to add a new HOV/Express Lane from south of Auto Mall Parkway to SR 84 to eliminate these bottleneck locations and alleviate much of the daily traffic congestion.

The Environmental Document and Project Approval (PA&ED) for the overall project was completed in July 2015. A design consultant team for final civil design has been procured and final design is underway. A Request for Proposals to procure a consultant/contractor to provide Toll System Integration services was issued on September 21, 2015, with an anticipated date for contract execution in January 2016. The following is a detailed discussion of work in progress and/or upcoming major tasks.

### **Environmental Document & Project Approval (PA&ED)**

Completed in July 2015 for the overall project between SR237 and SR84.

### **Project Implementation Approach**

The approved Environmental Document and Project Report include studies and analysis for both the full project limits (SR 237 to SR 84) and an initial Phase 1 Modified of construction (south of Auto Mall Parkway to SR 84). The limits for Phase 1 Modified of construction are based on immediate operational benefits and projected funding availability. In the interest of expediting important improvements for the public, Alameda CTC and Caltrans have agreed to incorporate a pavement rehabilitation project into the I-680 Northbound Express Lane Project - Phase 1 Modified Project.

This initial Phase 1 Modified Project, is anticipated to save approximately \$80 million in capital cost, and would be achieved as follows:

- Lane and shoulder width reductions, at levels acceptable to Caltrans, intend to reduce the amount of highway and structure widening necessary, with capital cost savings estimated at approximately \$65 million; and
- Minimize right of way acquisitions, utility relocation work, and environmental impacts to further reduce capital cost up to \$15 million and accelerate the right of way, design and construction schedule by about six months.

The Phase 1 schedule is as follows:

- Complete Final Design (PS&E): December 2016
- Construction: early 2017 - late 2018
- System Integration: mid 2018 – late 2018

Alameda CTC, in partnership with Caltrans, is the implementing agency for preliminary engineering, environmental studies, design, right-of-way acquisition, and utility relocation.

**Fiscal Impact:** There is no significant fiscal impact. This is for information only.

### **Staff Contact**

[Kanda Raj](#), Express Lanes Program Manager

[Gary Sidhu](#), Highway Program Manager