



# Meeting Notice

1111 Broadway, Suite 800, Oakland, CA 94607

• 510.208.7400

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

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Arthur L. Dao

## I-680 Sunol Smart Carpool Lane Joint Powers Authority

**Monday, February 08, 2016, 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.

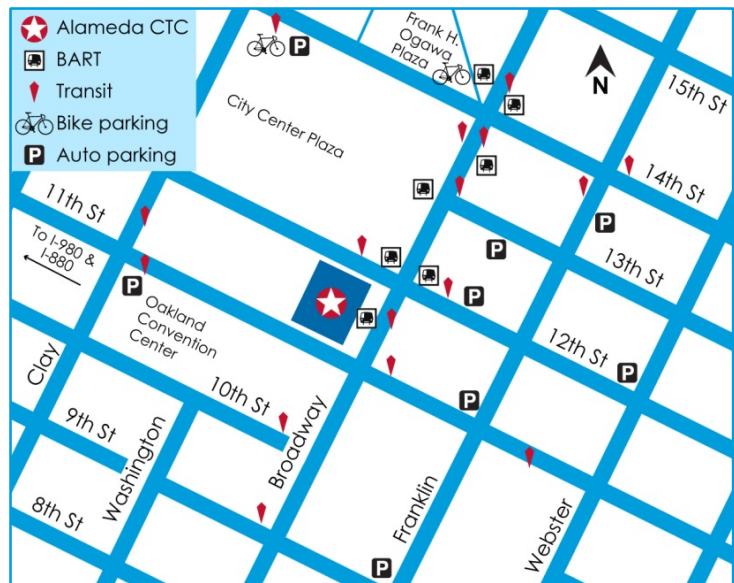
### Glossary of Acronyms

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](http://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

Public meetings at Alameda CTC are wheelchair accessible under the Americans with Disabilities Act. Guide and assistance dogs are welcome. Call 510-893-3347 (Voice) or 510-834-6754 (TTD) five days in advance to request a sign-language interpreter.



## 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, February 8, 2016, 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 January 11, 2016 Meeting Minutes](#)

1 A

## 5. Regular Matters

### 5.1. [Sunol Smart Carpool Lane Statement of Revenues and Expenses Approval of Statement of Revenues and Expenses as of December 31, 2015](#)

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### 5.2. [I-680 Southbound Express Lane \(PN 1364.005\): Monthly Operations Update](#)

9 I

### 5.3. [I-680 Northbound Express Lane \(PN 1369.000\): Monthly Status Update](#)

17 I

## 6. Committee Member Reports (Verbal)

## 7. Staff Reports (Verbal)

## 8. Adjournment

**Next Meeting:** March 14, 2016

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, January 11, 2016, 9:30 a.m.

4.1

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

A roll call was conducted. All members were present except Commissioner Baker and Commissioner Haggerty.

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 Joint Powers Authority November 9, 2015 Meeting Minutes

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

## 5. Regular Matters

### 5.1. I-680 Southbound Express Lane (PN 1364.005): Monthly Operations Update

Kanda Raj presented the I-680 Southbound Express Lane monthly operations update. He covered average daily High Occupancy Vehicle (HOV)/Express Lane volume compared to toll paying trips, and average travel speeds and average toll rates, during the peak period. He also provided detailed information about the peak hour HOV/Express Lane volume, toll paying trips and corresponding toll rates, and average travel speed within the most congested segment. Kanda also covered the lane operation with increased number of clean air vehicles (decal sticker vehicles) in HOV/Express Lane.

Commissioner Haggerty asked if toll revenue is higher this year versus last year, now that there is more usage in the lane. Kanda stated that staff would review the data and bring information back to the Authority.

*This item was for information only.*

## **5.2. I-680 Northbound Express Lane (PN 1369.000): Monthly Status Update**

Kanda Raj presented the I-680 Northbound Express Lane monthly status update. He stated that final design is underway and interviews to select a consultant/contractor to provide Toll System Integration services are tentatively scheduled for the week of January 17, 2016, with an anticipated date for contract execution in March 2016. Alameda CTC, in partnership with Caltrans, is the implementing agency for preliminary engineering, environmental studies, design, right-of-way acquisition, and utility relocation.

*This item was for information only.*

## **6. Committee Member Reports**

There were no committee member reports.

## **7. Staff Reports**

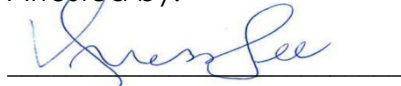
## **8. Adjournment/ Next Meeting**

The next meeting is:

Date/Time: Monday, February 8, 2016 @ 9:30 a.m.

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

Attested by:



Vanessa Lee,  
Clerk of the Commission



# Memorandum

5.1

1111 Broadway, Suite 800, Oakland, CA 94607

• PH: (510) 208-7400

• www.AlamedaCTC.org

**DATE:** February 1, 2016

**SUBJECT:** Sunol Smart Carpool Lane Statement of Revenues and Expenses as of December 31, 2015

**RECOMMENDATION:** Approve the Sunol Smart Carpool Lane Statement of Revenues and Expenses as of December 31, 2015

## Summary

This financial report summarizes revenues and expenses related to the Sunol Smart Carpool Lane through December 31, 2015. Net toll revenue was \$1,014,069 or 19.3 percent higher than projected toll revenue through the second quarter of FY2015-16. Expenses through the second quarter totaled \$933,534, or 27.1 percent less than budget, which results in an increase to net position of \$81,922. This surplus is due to a combination of actual toll revenues coming in higher and actual expenditures coming in lower than budgeted.

## Background

The Sunol Smart Carpool Lane JPA is in a strong position compared to budget after the second quarter of the fiscal year and remains sustainable. The FY2015-16 operating budget approved by the JPA Board in June 2015 includes \$1.70 million of toll revenues and \$0.61 million of grant revenues which is offset by \$2.56 million of operating expenses for an overall operating deficit of \$0.25 million. The FY2015-16 approved capital budget includes \$2.1 of both revenues and expenses for an automated toll violation enforcement system. The approved budget reflects the subsidy of operations that the Sunol Smart Carpool Lane JPA continues to receive from Alameda CTC Project grant funds. However, expenses will first be paid from available toll revenues before grant funds are utilized.

## Fiscal Impact

There is no fiscal impact.

## Attachments

- A. Sunol Smart Carpool Lane Statement of Operating Revenues and Expenses as of December 31, 2015
- B. Sunol Smart Carpool Lane Statement of Capital Revenues and Expenses as of December 31, 2015

## Staff Contact

[Patricia Reavey](#), Director of Finance

[Yoana Navarro](#), Senior Accountant



**SUNOL SMART CARPOOL LANE**  
**Statement of Operating Revenues and Expenses**  
**As of December 31, 2015**

<b><u>OPERATING REVENUES</u></b>	<b><u>YTD Actuals</u></b>	<b><u>YTD Budget</u></b>	<b><u>% Used</u></b>	<b><u>Variance</u></b>
Toll Revenue	1,014,069	850,000	119.3%	164,069
Measure B Grants	-	305,000	0.0%	(305,000)
Interest Income	1,387	-	-	1,387
Total Operating Revenues:	1,015,456	1,155,000	87.9%	(139,544)
<b><u>OPERATING EXPENSES</u></b>				
Operations & Maintenance Contract	388,202	500,000	77.6%	(111,798)
Revenue Collection Fees	135,589	175,000	77.5%	(39,411)
CHP Enforcement	100,000	112,500	88.9%	(12,500)
Alameda CTC Operations	34,808	50,000	69.6%	(15,192)
Express Lane Maintenance (Caltrans)	9,150	62,500	14.6%	(53,350)
Contingency	-	62,500	0.0%	(62,500)
Project Management/Controls	139,072	112,500	123.6%	26,572
Marketing/Public Outreach	11,945	50,000	23.9%	(38,055)
IT Support	10,800	37,500	28.8%	(26,700)
Computer Equipment	34,800	-	0.0%	34,800
Alameda CTC Administration	9,727	25,000	38.9%	(15,273)
Insurance	19,221	25,000	76.9%	(5,779)
System Manager/Operations Support	8,009	20,000	40.0%	(11,991)
Other Consultant Costs	-	10,000	0.0%	(10,000)
Legal Fees	10,768	12,500	86.1%	(1,732)
Miscellaneous	14,698	12,500	117.6%	2,198
Utilities	6,744	12,500	54.0%	(5,756)
Total Operating Expenses:	933,534	1,280,000	72.9%	(346,466)
Operating Surplus (Deficit)	81,922	(125,000)		
<b><u>Net Position</u></b>				
Beginning of year	4,267,989			
Net Position as of December 31, 2015	<u>\$ 4,349,911</u>			

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**SUNOL SMART CARPOOL LANE**  
**Statement of Capital Revenues and Expenses**  
**As of December 31, 2015**

	<b>YTD Capital Actuals</b>	<b>YTD Budget</b>	<b>% Used</b>	<b>Variance</b>
<b><u>CAPITAL REVENUES</u></b>				
Capital Grants	-	1,050,000	0.0%	(1,050,000)
Total Capital Revenues:	-	1,050,000	0.0%	(1,050,000)
<b><u>CAPITAL EXPENSES</u></b>				
Automated Toll Violation Enforcement System	-	1,050,000	0.0%	(1,050,000)
Total Capital Expenses:	-	1,050,000		(1,050,000)
Capital Surplus (Deficit)	-	-		
<b><u>Net Position</u></b>				
Beginning of year	-			
Net Position as of December 31, 2015	<u>\$ -</u>			

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# Memorandum

5.2

1111 Broadway, Suite 800, Oakland, CA 94607

• PH: (510) 208-7400

• www.AlamedaCTC.org

**DATE:** February 1, 2016

**SUBJECT:** I-680 Southbound Express Lane (PN 1364.005): 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 a Monthly Operation Update of the express lane facility for the month of December 2015. The update is included as Attachment A to this staff report.

The December 2015 operation reports indicate that the express lane facility continued to provide travel reliability during the peak period, as average hourly speeds in the express lane remained consistently 10-13 mph higher than the average hourly speeds in the general purposes lanes during the morning peak hour.

Comparison of performance metrics demonstrates that the average daily HOV/express lane usage continues to increase, including usage by toll paying motorists. This is an indication that more and more patrons continue to choose to utilize the express lane to experience travel reliability and time savings.

## 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 in Northern California. 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 fall 2010.

An All Electronic Toll (AET) collection method has been employed to collect tolls. Tolls are collected via FasTrak® transponders (also known as FasTrak® toll tags), issued by Bay Area Toll Authority and 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.

The facility is equipped to read the newly introduced FasTrak® flex toll tags. When the toll tag is set at 2 or 3, the toll readers located on I-680 Southbound will read them and allow the carpool users to continue to use the lane at no cost. Solo drivers can set their FasTrak® Flex to 1 to pay a toll to use the lane. FasTrak® flex toll tags are not yet required for carpoolers on I-680 Southbound Express Lane, but will be required on the forthcoming I-580 Express Lanes in the Tri-Valley, and on the new I-680 Express Lanes between Walnut Creek and San Ramon in Contra Cost County.

**December 2015 Operation Update:** The December update is included as Attachment A to this report. During the peak commute hour, the motorists in the express lane, including the carpool users, traveled with speeds approximately 10-13 mph faster than the motorists traveling in the general purpose lanes. In addition, vehicle speeds observed in the HOV/express Lane during the commute hours indicate that the use of the lane by solo toll paying and clean air vehicle drivers did not degrade the level of service in the lane and/or impede the benefits of carpooling.

The year over year comparison indicates a 20 percent increase in HOV/express Lane usage for the month of December. The December 2015 average toll rate to travel the length of the corridor from Andrade Road to Calaveras Boulevard was \$1.70 during all hours of operation (5:00 a.m. – 8:00 p.m.) and \$4.05 within the peak morning commute hours (7:00 am – 10:00 am), which are similar to the December 2014 average toll rates.

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

## **Attachments**

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

## **Staff Contact**

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

[Liz Rutman](#), Express Lanes Operation and Maintenance Manager



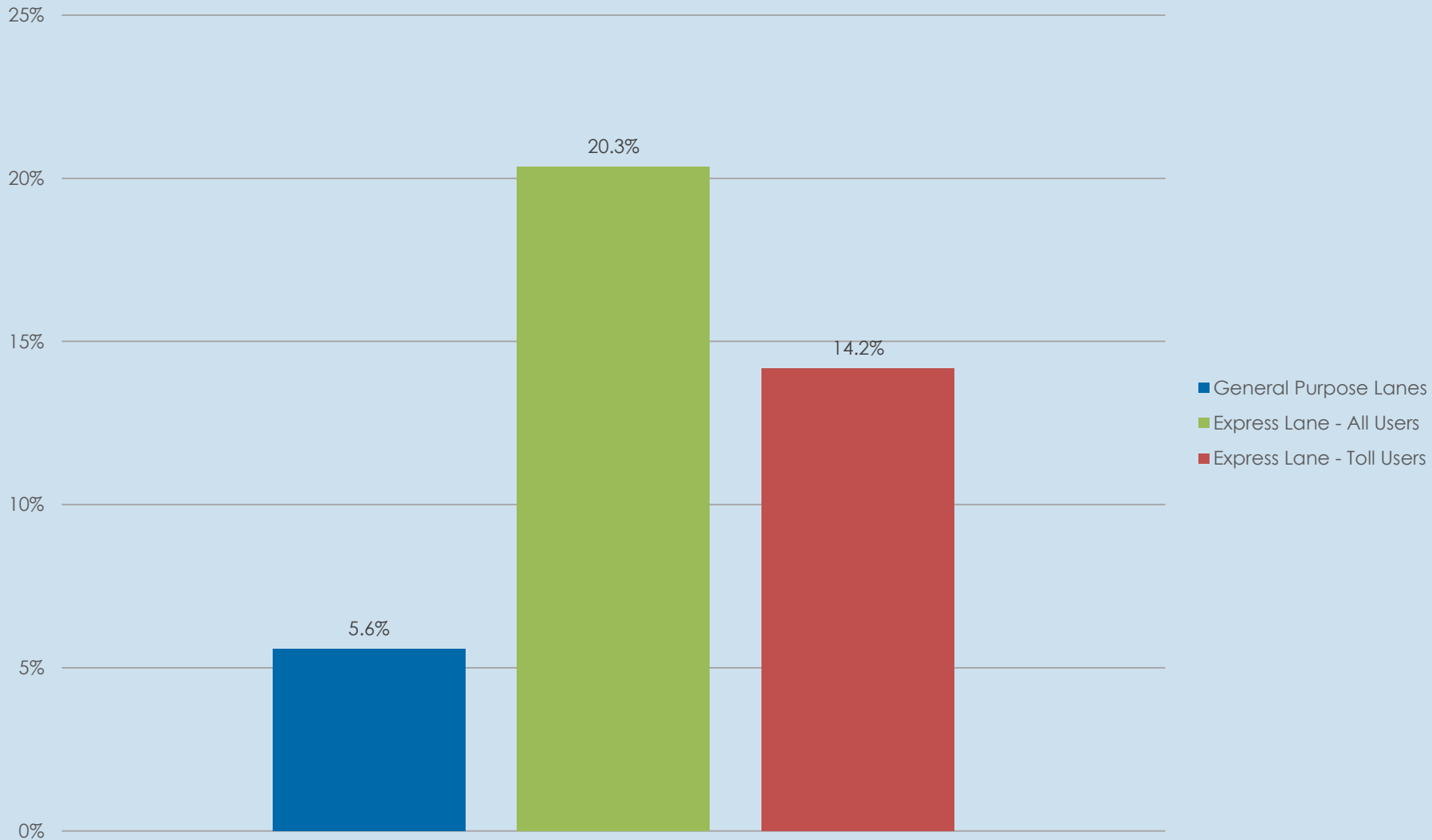
# I-680 SB Express Lane Monthly Operations December 2015 Update

A Presentation for the  
I-680 Sunol Smart Carpool Lane Joint Powers Authority (SSCLJPA)  
**February 8, 2016**



# Average Daily Volumes

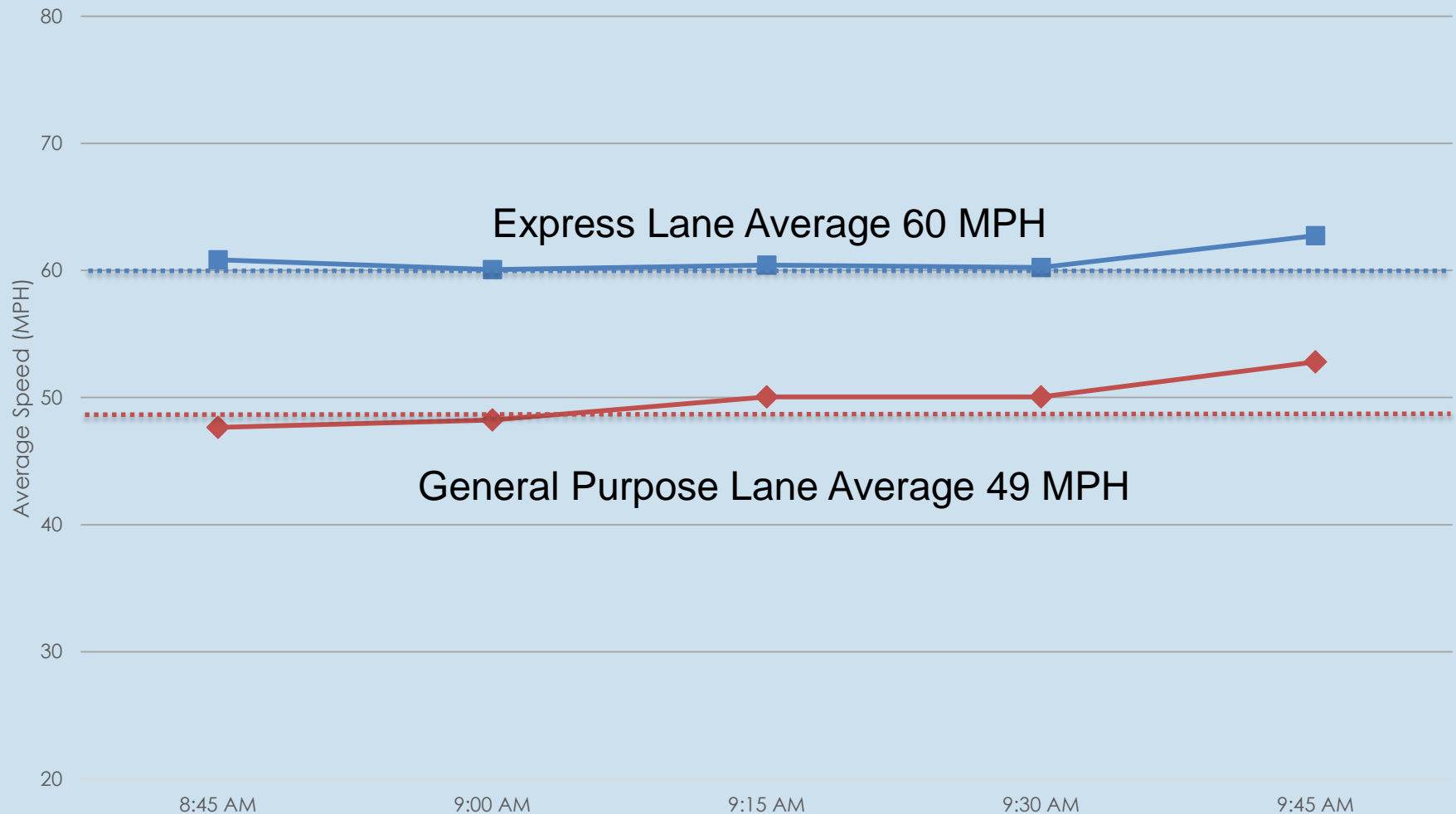
Percent Change – December 2014 vs. 2015





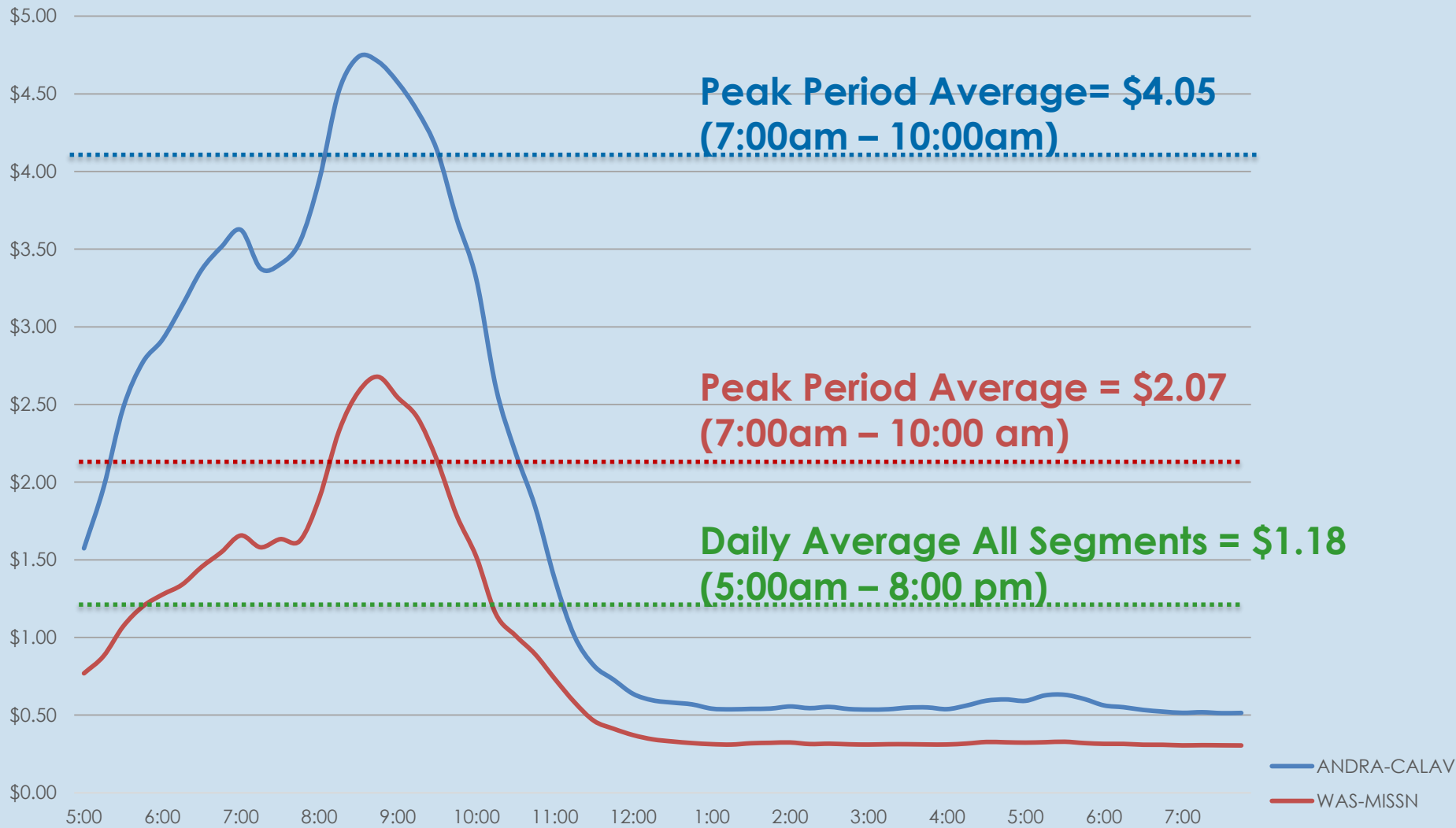
# Average Travel Speed - During Peak Hour

Central Segment (8:45 – 9:45am, Mon - Thurs)



# Average Toll Rates

By Segment – December 2015



# Revenue - Estimated Gross vs. Forecasted

Cumulative Revenue in FY 2015/16  
(July - December 2015)

**Estimated Gross Revenue**

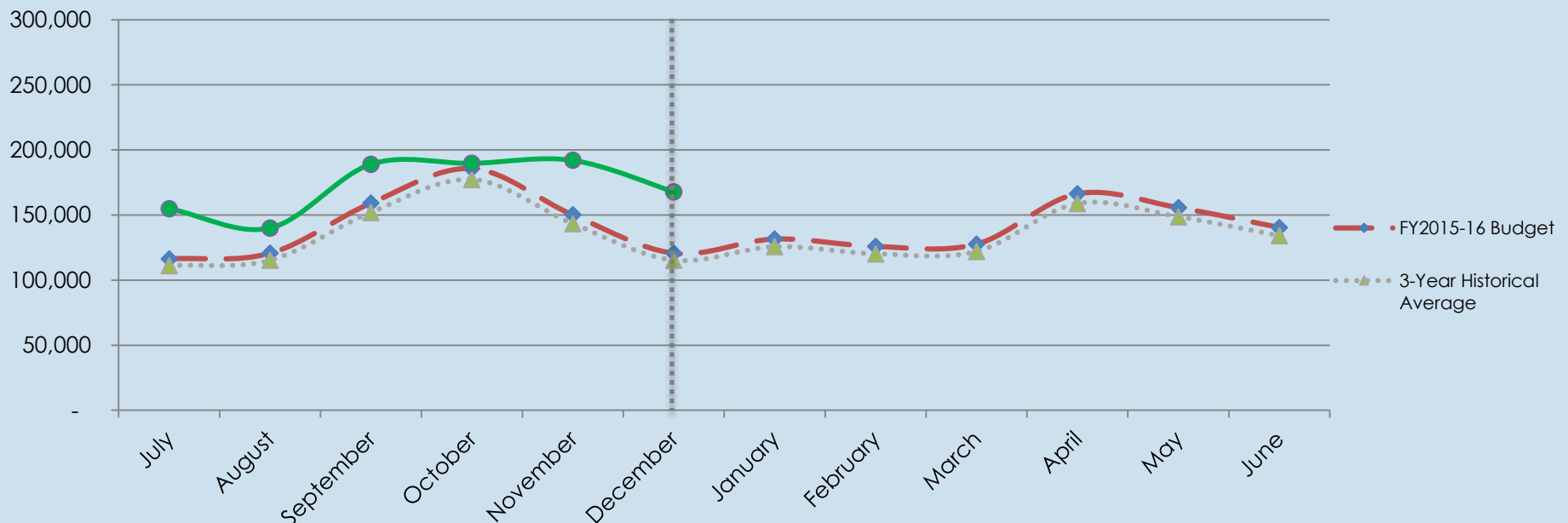
**\$1,033,361**

 **21%**

**Forecasted\***

**\$852,505**

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









# Memorandum

5.3

1111 Broadway, Suite 800, Oakland, CA 94607

PH: (510) 208-7400

www.AlamedaCTC.org

**DATE:** February 1, 2016

**SUBJECT:** I-680 Northbound Express Lane (PN 1369.000): 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. The civil detailed design work is underway. The interviews to

select a consultant/contractor to provide Toll System Integration services were conducted on January 20, 2016. Best and Final Offer negotiations have begun. Upon completing negotiations, staff will present a contract with a toll system integrator for approval in March/April 2016 Commission meeting. The following is a detailed discussion of work in progress and/or upcoming major tasks.

### ***Environmental Document & Project Approval***

The PA&ED was completed and approved 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 construction of both the full project limits (SR 237 to SR 84) and an initial Phase 1 Modified project (south of Auto Mall Parkway to SR 84). Staff has developed a project delivery strategy to design and construct the Phase 1 Modified project 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.

### **Project activities anticipated over the next three months:**

- Select the Toll System Integrator and execute contract
- Begin preliminary toll system design and coordinate it with civil designers
- Complete right of way engineering work to initiate right of way appraisal activities
- Final approval of geometric design features and associated design exceptions
- Complete field work to complete foundation reports for various structures, retaining walls and pavement structural section recommendations
- Develop draft configuration of tolling zones and related sign locations
- Complete field survey work and update the topographic mapping
- Initiate environmental revalidation process to reflect Phase 1 implementation
- Prepare and submit 35% Plans, Specification & Estimate package to Caltrans
- Execute a cooperative agreement for the I-680 SB Express Lane Access Configuration Conversion

### **The Phase 1 schedule is as follows:**

- Complete Final Design (PS&E): December 2016
- Construction advertisement: February 2017
- Construction: mid 2017 - late 2018
- System Integration: mid 2018 - late 2018
- Lane opening: late 2018/early 2019

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

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