



I-680 SUNOL SMART CARPOOL LANE
JOINT POWERS AUTHORITY

MEETING NOTICE

Monday, February 11, 2013, 9:00 AM
1333 Broadway, Suite 300, Oakland, California 94612
(see map on last page of agenda)

Commission Chair
Scott Haggerty, Supervisor – District 1

Commission Vice Chair
Rebecca Kaplan, Councilmember

AC Transit
Greg Harper, Director

Alameda County
Supervisors
Richard Valle – District 2
Wilma Chan – District 3
Nate Miley – District 4
Keith Carson – District 5

BART
Thomas Blalock, Director

City of Alameda
Marilyn Ezzy Ashcraft, Vice Mayor

City of Albany
Peggy Thomsen, Mayor

City of Berkeley
Laurie Capitelli, Councilmember

City of Dublin
Tim Sbranti, Mayor

City of Emeryville
Ruth Atkin, Councilmember

City of Fremont
Suzanne Chan, Councilmember

City of Hayward
Marvin Peixoto, Councilmember

City of Livermore
John Marchand, Mayor

City of Newark
Luis Freitas, Councilmember

City of Oakland
Larry Reid, Councilmember

City of Piedmont
John Chiang, Mayor

City of Pleasanton
Jerry Thorne, Mayor

City of San Leandro
Michael Gregory, Vice Mayor

City Of Union City
Carol Dutra-Vernaci, Mayor

Executive Director
Arthur L. Dao

Chair: Bill Harrison -- Alameda CTC
Vice Chair: Jerry Thorne -- Alameda CTC
Members: Gail Price -- Santa Clara VTA
Tim Sbranti – Alameda CTC
Scott Haggerty – Alameda CTC

Staff Liaison: Stewart D. Ng
Executive Director: Arthur L. Dao
Clerk of the Commission: Vanessa Lee

AGENDA

*Copies of Individual Agenda Items are Available on the:
Alameda CTC Website -- www.AlamedaCTC.org*

1 PLEDGE OF ALLEGIANCE

2 ROLL CALL

3 PUBLIC COMMENT

Members of the public may address the Board during “Public Comment” on any item not on the agenda. Public comment on an agenda item will be heard when that item is before the Board. Only matters within the Board’s jurisdictions may be addressed. Anyone wishing to comment should make their desire known by filling out a speaker card and handing it to the Secretary. Please wait until the Chair calls your name. Walk to the microphone when called; give your name, and your comments. Please be brief and limit comments to the specific subject under discussion. Please limit your comment to three minutes.

4 CONSENT CALENDAR

4A. [Approval of the Minutes of January 14, 2013 – Page 1](#) **A**

5 REGULAR MATTERS

5A. [Acceptance of the Sunol Smart Carpool Lane Year-to-Date Statement of Operating Revenues and Expenses as of December 31, 2012– Page 3](#) **A**

5B. [I-680 Southbound Express Lane \(ACTIA No. 8A\) Monthly Operations Update – Page 9](#) **I**

5C. [I-680 Northbound Express Lane \(ACTIA No. 8B\) Monthly Status Update – Page 19](#) **I**

6 COMMITTEE MEMBER REPORTS (Verbal)

7 STAFF REPORTS (Verbal)

8 ADJOURNMENT/NEXT MEETING: March 11, 2013

Key: A- Action Item; I – Information Item

- (*) Materials will be distributed at the meeting.
- (#) All items on the agenda are subject to action and/or change by the Board.

PLEASE DO NOT WEAR SCENTED PRODUCTS SO INDIVIDUALS WITH ENVIRONMENTAL SENSITIVITIES MAY ATTEND

*Alameda County Transportation Commission
1333 Broadway, Suites 220 & 300, Oakland, CA 94612
(510) 208-7400 (New Phone Number)
(510) 836-2185 Fax (Suite 220)
(510) 893-6489 Fax (Suite 300)
www.alamedactc.org*



I-680 Sunol Smart Carpool Lane JPA Meeting
MINUTES OF JANUARY 14, 2013
OAKLAND, CALIFORNIA

The meeting was convened by the Chair, Supervisor Haggerty, at 9:30am

1 PLEDGE OF ALLEGIANCE

Jerry Thorne led the pledge of allegiance.

2 ROLL CALL

A quorum was confirmed.

3 PUBLIC COMMENT

There were no public comments.

4 CONSENT CALENDAR

4A. Approval of the Minutes of November 19 , 2012

Councilmember Harrison motioned to approve this Item. Mayor Thorne seconded the motion. The motion passed 3-0.

5 REGULAR MATTERS

5A. I-680 Southbound Express Lane (ACTIA No. 8A) – Approval of Contract Amendment No. 1 for the Southbound I-680 Express Lane Evaluation “After” Study”

Saravana Suthanthira recommended that the Authority approve Contract Amendment No. 1 for the Southbound I-680 Express Lane Evaluation “After” Study. Ms. Suthanthira stated that the after study will be presented in spring 2013, and the results and recommendations from the study will be included in the report to the legislature in summer 2013. The amendment is needed to perform additional simulation associated with the geometric operational improvements task for the study, for an amount not to exceed \$21,000.

Councilmember Harrison appreciated the effort to study current access configuration and motioned to approve this Item. Mayor Thorne seconded the motion. The motion passed 3-0.

5B. I-680 Southbound Express Lane (ACTIA No. 8A) Monthly Operations Update

Kanda Raj presented an update on the I-680 Southbound Express Lane monthly operations. Mr. Raj reviewed the year over year statistical comparison, average travel speed during morning commute hours, actual gross versus forecasted revenue, average daily express lane revenue & toll trip comparison, average daily express lane toll trips and average daily express lane revenue comparison for the past 6 months.

Councilmember Harrison inquired on how the direction of travel where the speeds for the general purposes lanes were measured. Mr. Raj stated that the statistics presented was an average for the southbound lanes.

Mayor Thorne wanted to know how the speeds are measured. Mr. Raj stated there were

sensors throughout the corridor that collected speed and volume information.

This Item was for information only.

5C. I-680 Northbound Express Lane (ACTIA No. 8B) Monthly Operations Update

Kanda Raj presented a project status update on the I-680 Northbound Express Lane project. Mr. Raj presented upcoming PA & ED activities in 2013 and scheduling of current phase activities.

Councilmember Harrison wanted to know the hurdles that may prevent us from meeting the project milestones. Mr. Raj stated that some obstacles may be encountered with the geometric and the open access/operational analysis approval processes.

This Item was for information only.

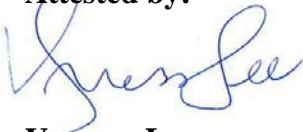
6 STAFF REPORTS (Verbal)

There were no staff reports.

7 ADJOURNMENT/NEXT MEETING: February 11, 2013

The meeting was adjourned at 10:45am. The next meeting is scheduled for February 11, 2013.

Attested by:



**Vanessa Lee
Clerk of the Commission**



Memorandum

DATE: January 31, 2013

TO: Sunol SMART Carpool Lane Joint Powers Authority

FROM: Patricia Reavey, Director of Finance
Lily Balinton, Accounting Manager

SUBJECT: **Acceptance of the Sunol Smart Carpool Lane Year-to-Date Statement of Operating Revenues and Expenses as of December 31, 2012**

Recommendation

It is recommended that the Authority accept the attached Year-to-Date (YTD) Sunol Smart Carpool Lane Statement of Operating Revenues and Expenses for the period ended December 31, 2012 (Attachment A).

Summary

The YTD financial report summarizes expenditures related to the Sunol Smart Carpool Lane operations from the beginning of the fiscal year. Net toll revenue is \$669,029 or 27.4% higher than projected toll revenue. Some operating expenditures continue to be paid with grant funding through the Alameda CTC's I-680 Southbound HOT Lane Project. To assist in understanding the total operating costs of the Sunol Smart Carpool Lane as of December 31, 2012, staff has included an additional statement which summarizes total costs incurred to operate the Sunol Smart Carpool Lane including those funded through the Alameda CTC project (Attachment B).

Background

The I-680 Express Lane opened for operations on September 20, 2010. Since that time, usage of the toll lane has continued to grow from week to week. However, the breakeven analysis presented to the Board on September 10, 2012 demonstrated the need to continue to fund some operating costs with Alameda CTC grant funds. The FY2012-13 budget approved by the JPA Board in June 2012 projected toll revenue of \$1,050,000 and identified \$1,581,000 in operating related expenses to be funded from toll revenue.

Fiscal Impact

There is no fiscal impact to the approval of this item.

Attachments

Attachment A: Statement of Operating Revenues and Expenses as of December 31, 2012
Attachment B: Sunol Smart Carpool Lane Operating Expenses as of December 31, 2012

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SUNOL SMART CARPOOL LANE
Statement of Operating Revenues and Expenses
As of December 31, 2012

<u>OPERATING REVENUES</u>	<u>YTD Actuals</u>	<u>YTD Budget</u>	<u>% Used</u>	<u>Variance</u>
Toll Revenue	\$ 669,029	\$ 525,000	127.4%	\$ 144,029
Total Operating Revenues:	669,029	525,000		144,029
 <u>OPERATING EXPENSES</u>				
Operations & Maintenance Contract	347,154	332,500	104.4%	(14,654)
Project Management/Controls	5,433	125,000	4.3%	119,567
Revenue Collection Fees	103,507	100,000	103.5%	(3,507)
CHP Enforcement	87,500	87,500	100.0%	-
Express Lane Maintenance (Caltrans)	-	62,500	0.0%	62,500
Alameda CTC Staff	3,690	25,000	14.8%	21,310
Insurance	5,615	20,000	28.1%	14,385
Legal Fees	8,892	17,500	50.8%	8,608
Miscellaneous	3,936	15,000	26.2%	11,064
Rent	2,647	3,000	88.2%	353
Utilities	4,949	2,500	198.0%	(2,449)
Total Operating Expenses:	573,322	790,500		217,178
Operating Surplus (Deficit)	<u>\$ 95,707</u>	<u>\$ (265,500)</u>		

Notes:

- All other operating expenditures are being paid with grant funding through the Alameda CTC's I-680 Southbound HOT Lane Project.

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**SUNOL SMART CARPOOL LANE
OPERATING EXPENSES
As of December 31, 2012**

	YTD	--- Revenue Sources ---	
	Operating Expenses	Alameda CTC Capital Grants	Operating/Other Revenues
Operations & Maintenance Contract	\$ 347,154	\$ -	\$ 347,154
Project Management/Controls	5,433	-	5,433.10
Revenue Collection Fees	103,507	-	103,507
CHP Enforcement	87,500	-	87,500
Express Lane Maintenance (Caltrans)	-	-	-
Alameda CTC Staff	75,360	71,670	3,690
Insurance	5,615	-	5,615
Legal Fees	8,892	-	8,892
Miscellaneous	3,996	60	3,936
Rent	2,647	-	2,647
Utilities	4,949	-	4,949
Total Operating Expenditures	\$ 645,052	\$ 71,730	\$ 573,322

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Memorandum

DATE: January 31, 2013

TO: I-680 Sunol Smart Carpool Lane Joint Powers Authority

FROM: Stewart D. Ng, Deputy Director for Programming and Projects
Arun Goel, Express Lane Operations

SUBJECT: I-680 Southbound Express Lane (ACTIA No. 8A) Monthly Operations Update

Recommendation

This item is for information only. No action is requested.

Summary

The purpose of this item is to provide the JPA Board with a monthly operations update of the express lane facility. The December 2012 operations data can be found in Attachment A of the staff report. A brief presentation will be provided at the February 11, 2013 JPA Board meeting.

Discussion

The I-680 Southbound Express Lane opened to traffic 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. The express lane facility spans over 14 miles from State Highway 84, near Pleasanton, to State Highway 237 in the City of Milpitas, and admits toll-paying solo drivers in addition to carpoolers (who use the lane at no cost). The express lane optimizes capacity, reduces congestion and increases travel time reliability within the 14 mile corridor. Since the opening of the express lane facility, over 1,025,000 solo drivers have reached their destinations by traveling at speeds that are typically 10-15 miles per hour faster than that which motorists experience in the general purpose lanes, during peak commute hour.

Tolls are collected via FasTrak® transponders, read at automated vehicle identification readers mounted on overhead gantries. Currently, the I-680 Express Lane includes five FasTrak® readers: Three at each toll zones (at Andrade, Washington and Mission) and two at stand-alone enforcement zones (south of Vargas and south of Scott Creek). Readers at the toll zone are linked to the Toll Data Center (TDC) and the accounts of vehicles passing through with valid FasTrak® transponders. Appropriate tolls are being charged based on the toll rates published via dynamic message signs for the length of their trip, calculated by a computerized real-time dynamic pricing model. The enforcement zone readers are not linked to the TDC and are used only as an aid to CHP enforcement, by determining if a vehicle has a valid FasTrak® transponder.

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 JPA, accepted the final system from the System Integrator on April 30, 2012. The express lane has since moved into the full operation and maintenance phase.

In September 2012, the Alameda CTC selected Kittleson & Associates, Inc. to perform a legislatively mandated post-implementation traffic study to analyze the operational and safety benefits of the express lane, and to compare the study results against a set performance matrix and pre-implementation traffic study, which was completed in April 2009. The consultants have completed the field traffic data gathering, and are now in the process of analyzing the data collected. In May of 2013, a draft report of the “After” study results will be presented to the Committee.

The month of December historically is considered to be an atypical month as a result of holidays, schools and colleges being closed, and some businesses being shutdown. Our review of daily trip and revenue reports indicates that the express lane facility had a strong performance during the month of December 2012 when compared to similar time period in 2011. While comparing the performance matrices, it is noted that the average daily number of toll paying trips has increased by 26 percent, an indication that more and more solo drivers have chosen to leave the general purposes lanes and use the express lane, instead to experience the travel reliability and time savings. While it appears that traffic congestion has returned to the corridor with upward economic activities noted in Silicon Valley, the average travel speed in the express lane continues to remain at or above the posted speed limit. Please see Attachment A for more details.

Fiscal Impacts

This is an informational item only, and there is no fiscal impact.

Attachment (s)

Attachment A: I-680 SB Express Lane: December 2012 Operations Update

Year Over Year Comparison by Month

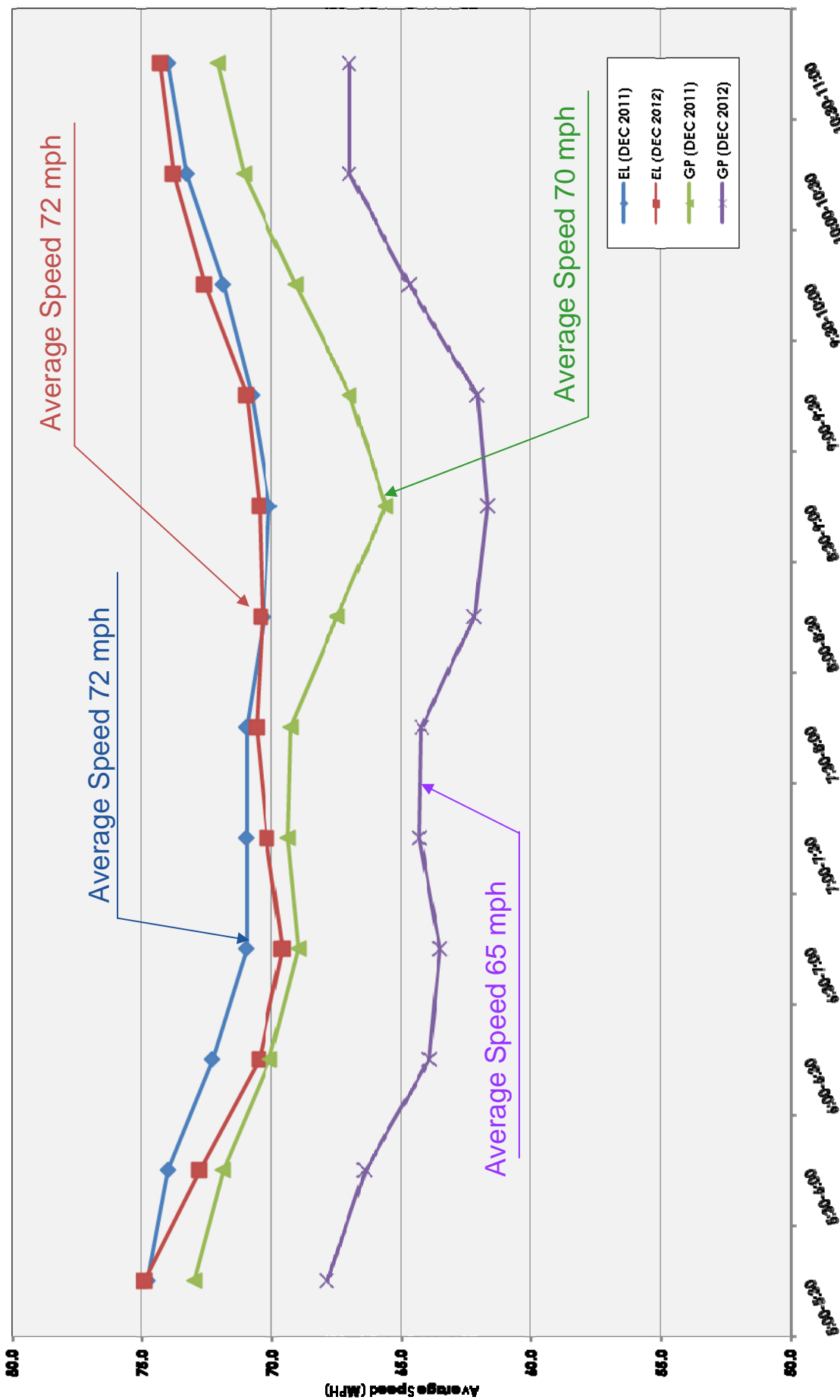
December 2011 December 2012

Average Daily Toll Paying Trips	1,460 vehicles	1,840 vehicles
Average Daily Toll Revenue	\$3,060	\$4,300
Average Peak Period Toll Rate	\$2.40	\$2.50

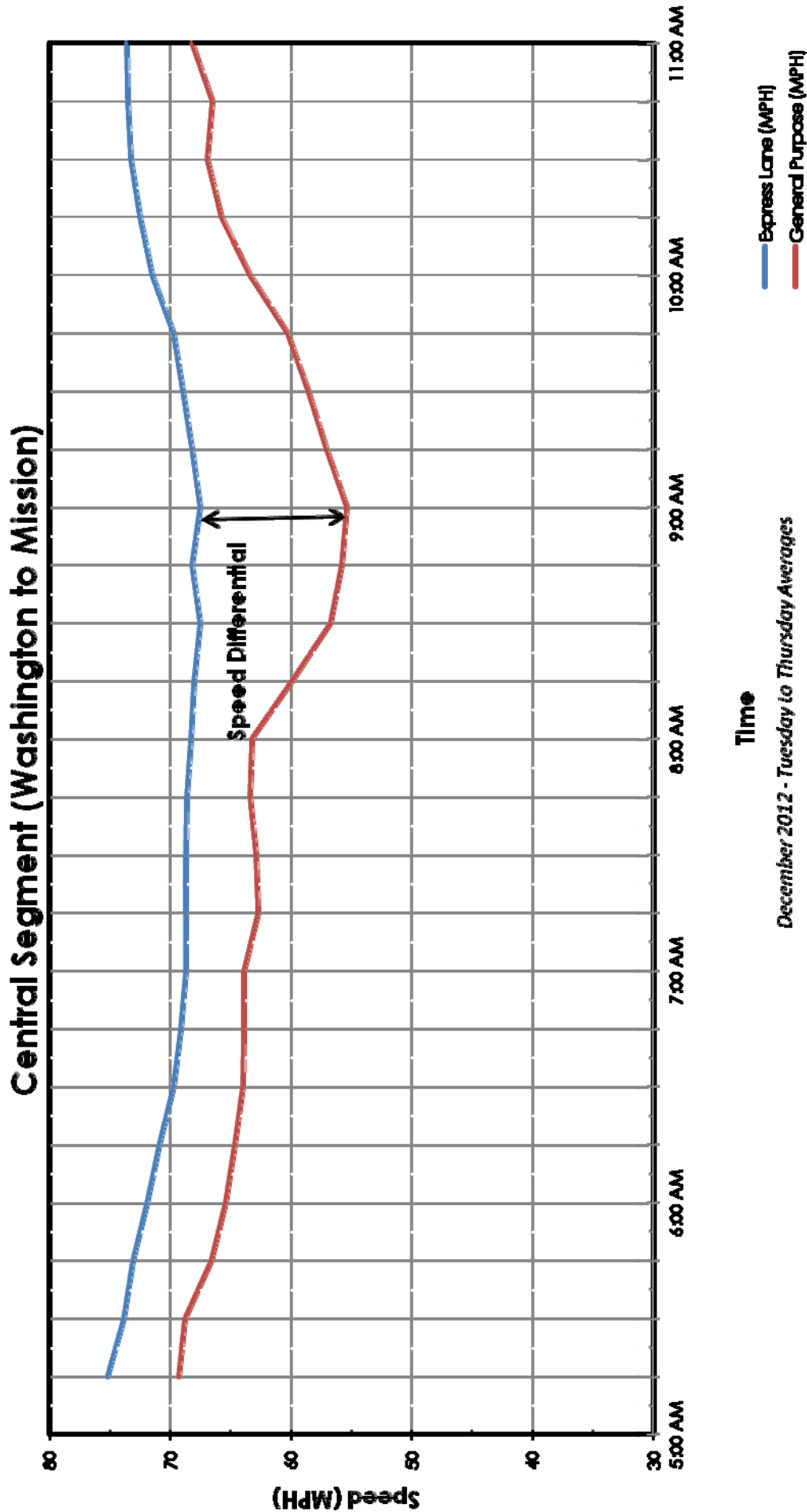




Average Travel Speed During Morning Commute Hours (Within 14-mile Express Lane Facility)



Average Daily Speed Curves During Peak Commute Period (December 2012)



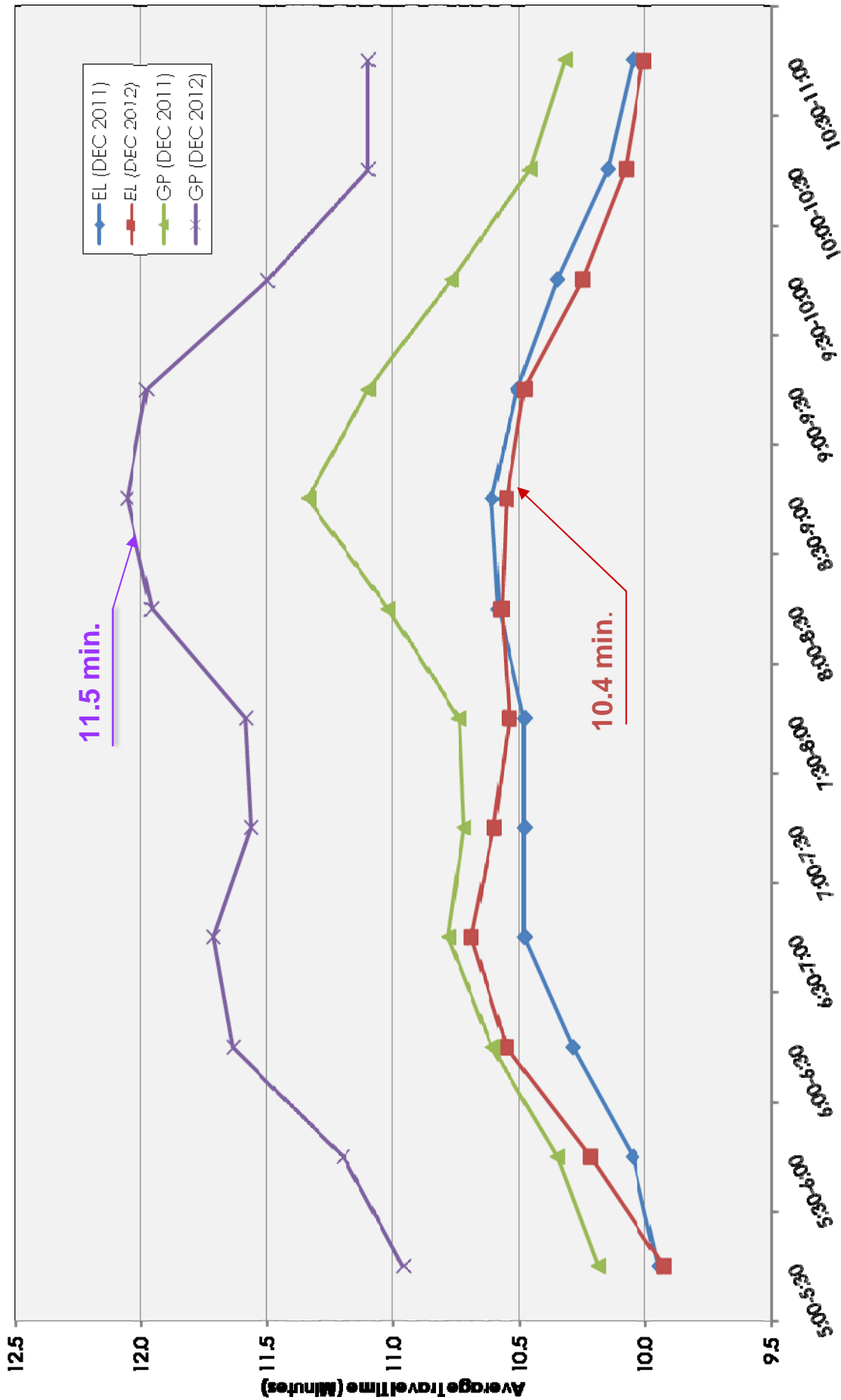
I-680 Sunol SMART Carpool Lane Joint Powers Authority




3



Average Travel Time During Morning Commute Hours (Within 14-mile Express Lane Facility)



Revenue (Actual Gross vs. Forecasted)

Revenue in FY 2012/13
(July 2012 – December 2012)

Actual Gross

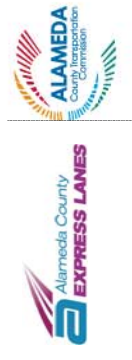
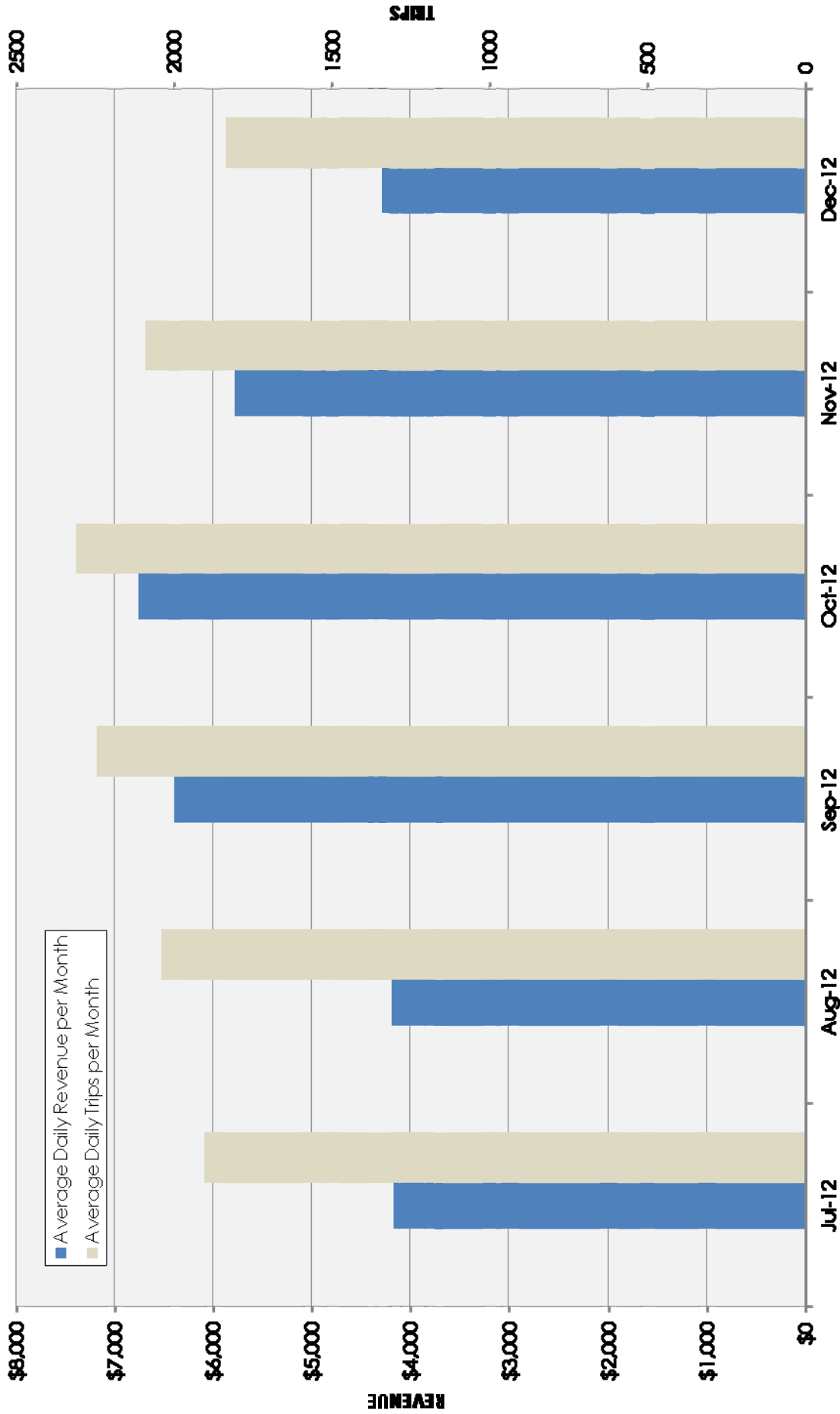
\$670,000

Forecasted*

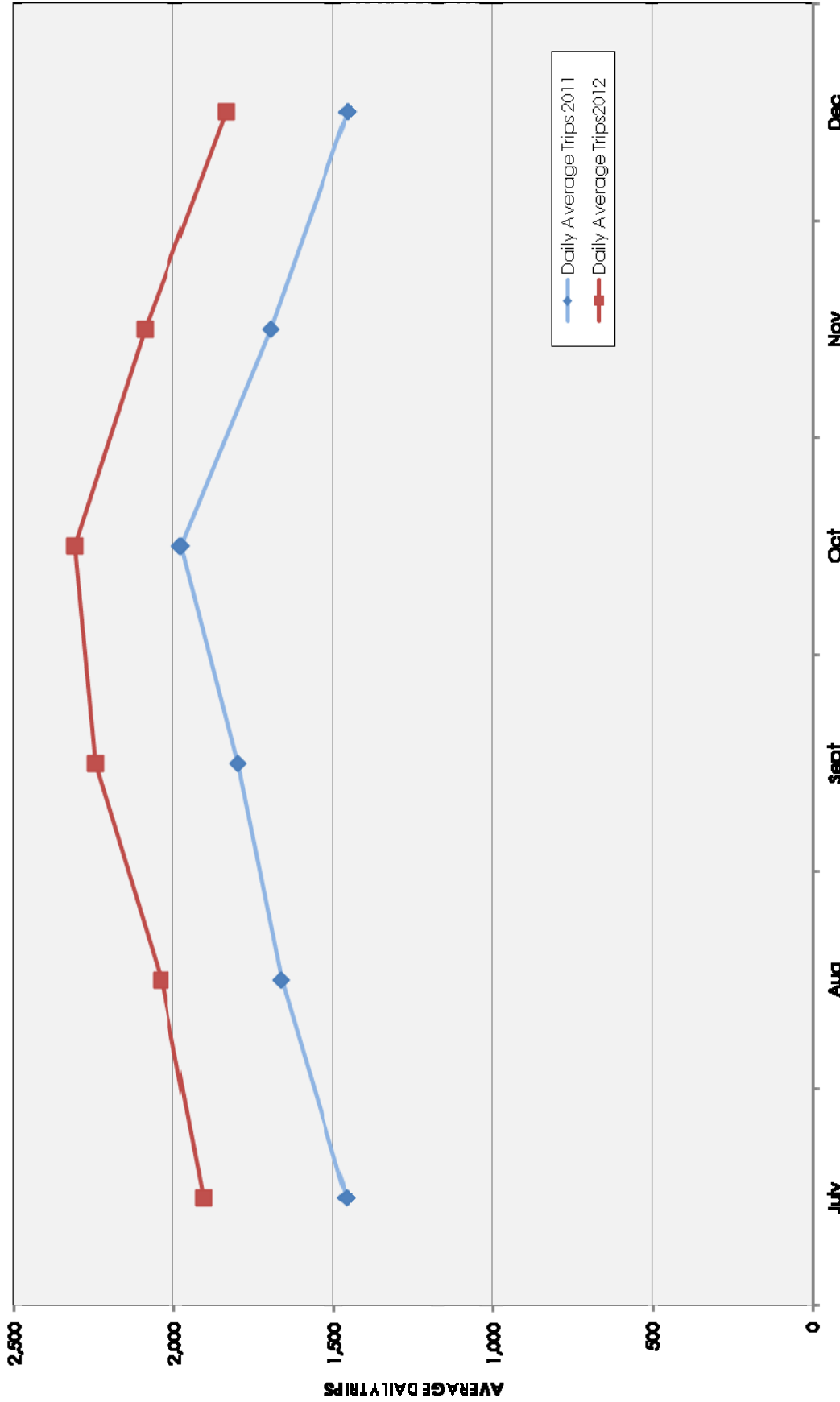
\$525,000

* Forecasted revenue for the full FY 13 is \$1,050,000

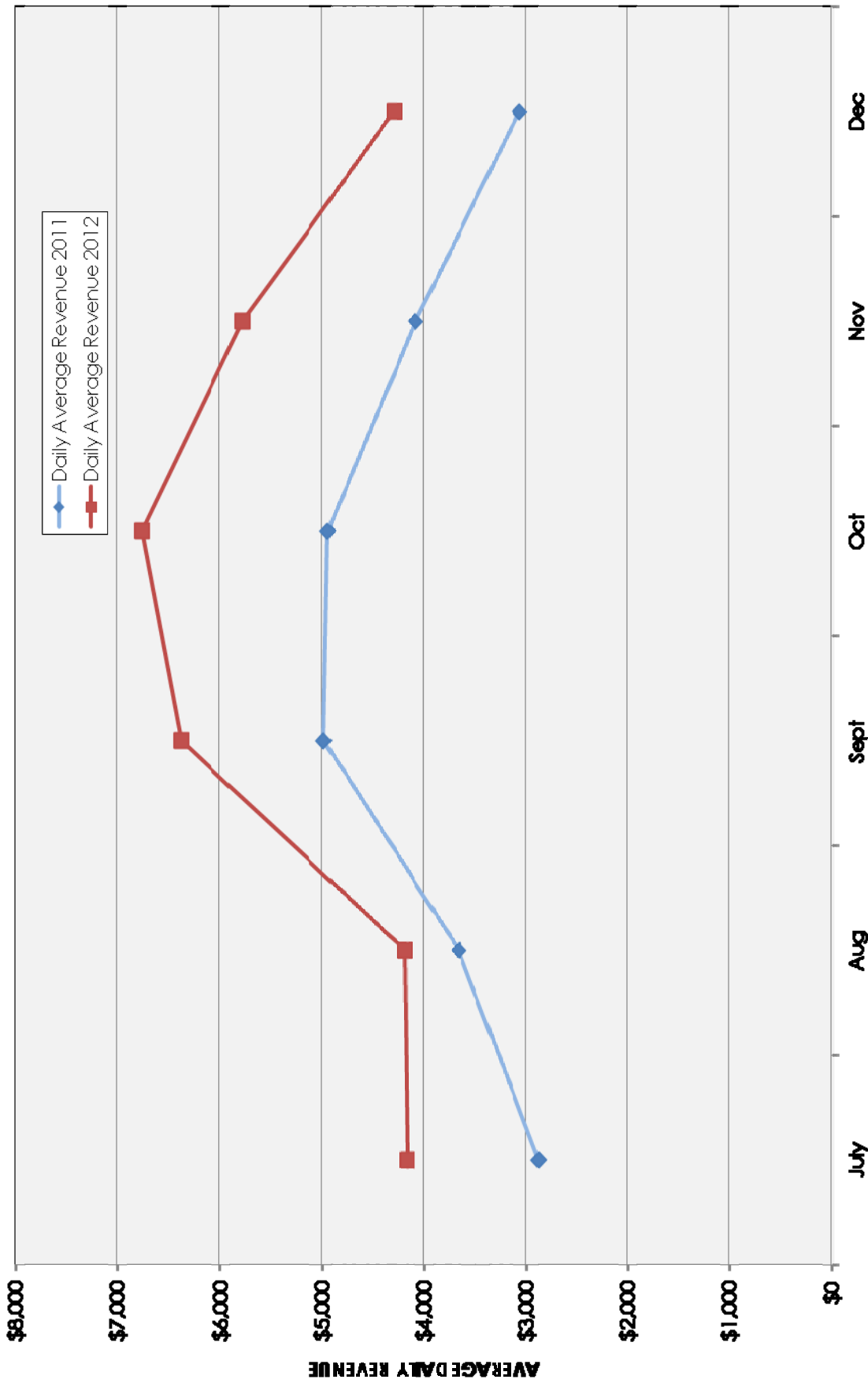
Average Daily Express Lane Revenue & Toll Trip Comparison



Average Daily Express Lane Toll Trips Comparison (Past 6 months)



Average Daily Express Lane Revenue Comparison (Past 6 months)



I-680 Sunol SMART Carpool Lane Joint Powers Authority



Memorandum

DATE: January 31, 2013

TO: I-680 Sunol Smart Carpool Lane Joint Powers Authority

FROM: Stewart D. Ng, Deputy Director for Programming and Projects
Kanda Raj, Project Controls Team

SUBJECT: I-680 Northbound Express Lane (ACTIA No. 8B) Monthly Status Update

Recommendation

This item is for information only. No action is requested.

Summary

The purpose of this item is to provide the JPA Board with a status update of project development activities that are either completed or planned for the project. This staff report and presentation will briefly review the critical path scope and schedule activities.

Discussion

The Interstate-680 (I-680) Northbound Express Lane Project will widen I-680 from State Route 237 (SR 237) in Santa Clara County to SR 84 in Alameda County and construct a northbound HOV/Express Lane on I-680 (the project). The project is intended to provide a number of benefits including: 1) reduce traffic congestion and thereby enhance mobility along this corridor; 2) reduce travel time and improve travel reliability; and 3) reduce congestion related accidents, and thereby enhance safety. The express lane facility will allow solo drivers to access unused capacity in the HOV lane for a fee while allowing carpool users to travel at no cost.

In mid-2011, the Alameda CTC embarked on the program to convert an already approved I-680 Northbound High Occupancy Vehicle (HOV) Lane project to a combined I-680 Northbound HOV/Express Lane facility. However, in August 2011, in response to a writ filed by a local city, the Alameda County Superior Court directed the Department (Caltrans) to vacate the environmental document prepared for the I-680 Northbound HOV Lane project in its entirety. Given the Court's direction, in late 2011 Caltrans and Alameda CTC have determined that a Project Initiation Document and a completely new and higher level of environmental document will be needed to obtain environmental clearance for the project, which involves expanded preliminary engineering, traffic analysis, and technical studies.

The following is a list of major activities completed since the last update that staff provided in the January 2013 I-680 Sunol JPA Meeting:

- ✓ Conducted detailed traffic analyses for various geometric alternatives (build scenarios) and began preparation of draft Traffic Operational Analysis Report (TOAR)
- ✓ Conducted traffic and revenue study and began preparation of draft report
- ✓ Completed water quality impact study and draft report
- ✓ Completed location hydraulic study and draft report
- ✓ Completed preliminary geotechnical assessment and draft report
- ✓ Developed draft cultural mapping and detailed project description
- ✓ Conducted coordination with the affected utility companies and identified potential utility relocation requirements
- ✓ Developed preliminary engineering design and documentation of nonstandard features
- ✓ Developed preliminary engineering plans
- ✓ Developed advanced planning studies for bridge structures and special retaining walls

The Project team continues to make progress towards completing a final environmental document by March 2015. The following is a detailed discussion of major tasks planned for the project in Calendar Year 2013:

Traffic Studies

Based on the initial findings of the sensitivity testing of the design scenarios and the follow on iterative process to refine the range of geometric design options, in March 2013 a formal documentation of the existing conditions analysis, traffic forecasts, and the highway operations analysis will be consolidated under a TOAR. The traffic operation analysis will also evaluate the begin/end locations of the express lane, type of access to the express lane, and perceived effects on local arterials. It will document the existing, the Year 2020 and the Year 2040 traffic conditions for both Build and No Build alternatives. Based on Caltrans and local agency reviews, the final approval of the TOAR is anticipated in July 2013.

Environmental Technical Studies

All environmental field technical studies are complete. A list of required technical studies is included in Attachment A. Draft technical reports for all of the environmental studies are planned for completion in March 2013 and final reports approvals are anticipated in July 2013.

Environmental Document

Based on input that the design team already received, during the environmental scoping process, traffic studies, geometric design and environmental technical studies, the design team plans to complete an administrative draft environmental document (Admin DED) for Alameda CTC and Caltrans staff review by July 2013. Alameda CTC will work with Caltrans to complete this task, concurrent to completing the environmental technical studies to gain time in completing a final project approval. Various cycles of internal agency reviews are expected prior to publishing the DED for public review and comment. Public circulation of the DED and completion of a final document are expected in April 2014 and March 2015, respectively.

Project Approval

The Project Report (PR) documents Caltrans, FHWA and Alameda CTC approval of the project. A Draft PR will document the need for the project and summarizes the studies, cost, scope, and overall impact of project alternatives; and its approval is required prior to releasing a DED for public circulation and agency reviews. After the public and agency review process is complete and a preferred alternative is selected by the project development team, the draft PR will be updated to become as the final PR. A draft PR is planned for completion in March 2014 and the final PR approval is anticipated in March 2015.

Fiscal Impacts

This is an informational item only and there is no fiscal impact.

Attachment(s)

Attachment A: List of Planned Project Tasks/Technical Studies

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Attachment A

LIST OF PLANNED PROJECT TASKS/TECHNICAL STUDIES

ID	DELIVERABLE	STATUS
PRELIMINARY ENGINEERING		
1	PSR-PDS	Complete
TRAFFIC STUDIES		
2	Traffic Data Collection	Complete
3	Existing Conditions Assessment	Complete
4	Model Validation	Complete
5	Traffic Forecasts	Complete
6	Preliminary Traffic Analysis	Complete
7	Traffic Operations Analysis	Underway
8	TOAR	Underway
9	Traffic & Revenue Study	Underway
ENVIRONMENTAL STUDIES		
10	Public Scoping	Complete
11	Biological Field Surveys	Complete
12	Bat Species	Complete
13	Jurisdictional Wetlands Report	Complete
14	California Red Legged Frog Assessment	Complete
15	Special Status Plant Species	Complete
16	Natural Environment Study (NES)	Underway
17	Biological Assessment	
18	Biological Opinion	
19	Water Quality Impact	Draft Complete
20	Location Hydraulic Study	Draft Complete
21	Initial Site Assessment	Draft Complete
22	Air Quality PM 2.5 Assessment	Complete
23	Air Quality and Greenhouse Gas Analysis Report	Underway
24	Noise Surveys	Complete
25	Noise Impact Report	Underway
26	<i>Noise Abatement Decision Report (NADR)</i>	
27	Visual Impact Assessment	Underway
28	Community Impact Assessment	Underway
29	APE Mapping	Underway
30	Archaeological Survey Report (ASR)	Underway
31	Historic Architectural History/Built Resources Report (HRER)	
32	Historic Property Survey Report (HPSR)	
33	Paleontological Inventory Report (PIR)	Underway
34	Geotechnical Hazards Assessment	Draft Complete
ENVIRONMENTAL DOCUMENT		
35	Project Description	Draft Complete
36	1 st Admin DEIR/EA	

ID	DELIVERABLE	STATUS
37	2 nd Admin DEIR/EA	
38	3 rd Admin DEIR/EA	
39	DEIR/EA	
40	1 st Draft FEIR/EA	
41	2 nd Draft FEIR/EA	
42	3 rd Draft FEIR/EA	
43	FEIR/EA	
PROJECT APPROVAL		
44	Geometric Design	Underway
45	Roadway Plans	Underway
46	Safety Assessment	Underway
47	Fact Sheets (Mandatory and Advisory)	Underway
48	Value Analysis Study	
49	Storm Water Data Report	
50	Pavement Life Cycle Cost Analysis	Underway
51	Hydromodification Assessment Report	Underway
52	Utility Coordination	Underway
53	R/W Engineering	Underway
54	Advance Planning Study - Bridges	Underway
55	Advance Planning Study - Special Retaining Walls	Underway
56	Preliminary Foundation Report	Underway
57	Structures Aesthetics Guidelines	
58	Conceptual Landscape Plan	
59	Cost Estimate	Underway
60	Draft Project Report	
61	Project Report	