



Meeting Notice

1111 Broadway, Suite 800, Oakland, CA 94607

• 510.208.7400

• www.AlamedaCTC.org

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City of Union City
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Executive Director
Arthur L. Dao

I-580 Express Lane Policy Committee

Monday, January 12, 2015, 10:00 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.

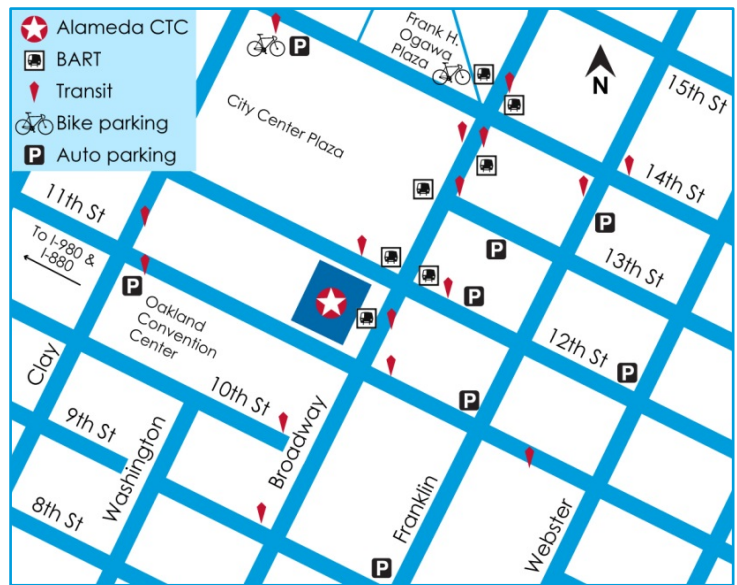
Glossary of Acronyms

A glossary that includes frequently used acronyms is available on the Alameda CTC website at www.AlamedaCTC.org/app_pages/view/8081.

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.

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.

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.

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I-580 Express Lane Policy Committee Meeting Agenda Monday, January 12, 2015, 10:00 a.m.*

* Or immediately following the I-680 Sunol SMART Carpool Lane Joint Powers Authority meeting

1111 Broadway, Suite 800, Oakland, CA 94607

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Chair: Mayor John Marchand, City of Livermore
Vice Chair: Supervisor Nate Miley, Alameda County District 4
Commissioners: Scott Haggerty, Jerry Thorne
Staff Liaison: Stewart D. Ng
Executive Director: Arthur L. Dao
Clerk: Vanessa Lee

1. Roll Call

2. Public Comment

3. Consent Calendar

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3.1. [November 10, 2014 I-580 Express Lane PC Meeting Minutes](#)

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A

Recommendation: Approve the November 10, 2014 meeting minutes.

4. Regular Matters

4.1. [I-580 Corridor High Occupancy Vehicle/Express Lane Projects \(PN 720.4/720.5/724.1/724.4/724.5\): Monthly Progress Report](#)

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4.2. [I-580 Express Lanes Education, Outreach and Regional Coordination](#)

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5. Committee Member Reports (Verbal)

6. Staff Reports (Verbal)

7. Adjournment

Next Meeting: February 9, 2015

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

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I-580 Express Lane Policy Committee Meeting Minutes

Monday, November 10, 2014, 10:00 a.m.

3.1

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1. Roll Call

The Clerk conducted a roll call. All committee members were present.

2. Public Comment

A public comment was heard by Ken Bukowski.

3. Consent Calendar

3.1 October 13, 2014 I-580 Express Lane PC Meeting Minutes

Commissioner Thorne motioned to approve the consent calendar. Commissioner Haggerty seconded the motion. The motion passed unanimously.

4. Regular Matters

4.1. I-580 Corridor High Occupancy Vehicle/Express Lane Projects (PN 720.4/720.5/724.1/724.4/724.5): Monthly Progress Report

Stephan Garcia presented the I-580 Corridor High Occupancy Vehicle/Express Lane Projects Monthly Progress Report. He stated that the environmental and civil design work for the express lanes is complete for both eastbound and westbound. Kanda Raj stated that system integration is the last phase of the project with construction scheduled to start in late March 2015. Kanda stated that there are three contractors who are coordinating work to ensure cohesion in the lane. He stated that there will be more approval items brought to the Commission including the business rules and decisions regarding enforcement and violation rules.

This item was for information only.

5. Committee Member Reports

There were no committee member reports.

6. Staff Reports

There were no staff reports.

7. Adjournment/ Next Meeting

The next meeting is:

Date/Time: Monday, January 12, 2015 @ 10:00 a.m.

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

Attested by:

A handwritten signature in blue ink, appearing to read "Vanessa Lee", written over a horizontal line.

Vanessa Lee,
Clerk of the Commission

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Memorandum

4.1

1111 Broadway, Suite 800, Oakland, CA 94607

• PH: (510) 208-7400

• www.AlamedaCTC.org

DATE: January 5, 2015

SUBJECT: I-580 Corridor High Occupancy Vehicle/Express Lane Projects (PN 720.4/720.5/724.1/724.4/724.5): Monthly Progress Report

RECOMMENDATION: Receive a monthly status update on the I-580 Corridor High Occupancy Vehicle/Express Lane Projects.

Summary

The Alameda CTC is sponsoring the I-580 Corridor High Occupancy Vehicle (HOV)/Express Lane Projects along the I-580 corridor in the Tri-Valley. The Eastbound I-580 Express Lane Project will convert the newly constructed eastbound HOV lane, from Hacienda Drive to Greenville Road, to a double express lane facility. The I-580 Westbound Express Lane Project will convert the westbound HOV lane (currently under construction) to a single express lane facility from Greenville Road to San Ramon Road/Foothill Road.

The environmental and civil design work for the express lanes is complete for both eastbound and westbound. Civil construction is being implemented through multiple contract change orders (CCO's) on the on-going HOV Lane construction contracts. The I-580 Eastbound and Westbound Express Lane civil construction work will construct the necessary infrastructure, such as signing, sign gantries for dynamic messaging and toll reading, electrical conduit for connecting power and communication sources, and striping to accommodate the express lanes. The System Integrator contractor will install the required communication equipment, toll hardware and integrate the toll subsystems, utilizing emerging technologies/software development. Coordination with regional agencies and California Toll Operators Committee is crucial for implementing express lanes on I-580. The express lane facility is scheduled to open for public use in November 2015.

For detailed information on project funding, schedule and status of each corridor project, including the Eastbound HOV Lane Project (Segment 3 Auxiliary Lanes), the Westbound HOV Lane Project (Segments 1 and 2), the Eastbound I-580 Express Lane Project, Westbound I-580 Express Lane Project and Toll System Integration activities, see Attachments A, B, C, D and E of this report. This item is for information only.

Background

The projects in the I-580 Corridor will provide increased capacity, safety and efficiency for commuters and freight along the primary corridor connecting the Bay Area with the Central Valley. In its role as project sponsor, the Alameda CTC has been working in partnership with Caltrans, California Highway Patrol, the Metropolitan Transportation Commission (MTC), Alameda County, and the cities of Livermore, Dublin, and Pleasanton to deliver the projects.

The I-580 Corridor HOV Lane Projects will be completed with the construction of three final projects in the Livermore Valley (two westbound HOV segments and one eastbound auxiliary (AUX) lanes project). All of these projects are currently in construction and are being administered by Caltrans. Construction activity began in March 2013 and will complete by late 2015 in parallel with completion of express lane infrastructure.

For efficiency purposes, the I-580 Eastbound and Westbound Express Lane Projects have been combined into one construction project. All the contract change orders (CCO's) for express lane-civil infrastructure construction have already been issued to the on-going construction contracts along I-580 (I-580 Westbound HOV, I-580 Eastbound Auxiliary Lane and Freeway Performance Project). The benefit of implementing CCO's is to avoid working in the environmentally sensitive areas, minimize additional traffic disruptions to the traveling public, reduce or eliminate re-work and potentially finish construction sooner. Specific items in CCO's include:

- Electrical Conduit – across and along I-580
- Service and controller cabinets
- Striping – stripe to final express lane configuration
- Install K-rail along median at sign locations
- Median concrete barrier
- Fiber Optics Cable
- Sign structures including tolling gantries, dynamic messaging signs, lighting standards and other sign structures.

The system integration for express lane implementation is currently in the design phase. Coordination with other construction projects within the corridor is on-going. Construction activities of express lane-system integration are expected to commence in March 2015 with electronic toll system, fully operational in November 2015.

Fiscal Impact: There is no significant fiscal impact to the Alameda CTC budget due to this item. This is information only.

Attachments

- A. I-580 Eastbound HOV Lane Project Monthly Progress Report (PN 720.5)
- B. I-580 Westbound HOV Lane Projects Monthly Progress Report (PN 724.4/724.5)
- C. I-580 Eastbound Express Lane Project Monthly Progress Report (PN 720.4)
- D. I-580 Westbound Express Lane Project Monthly Progress Report (PN 724.1)
- E. I-580 Express Lanes System Integration Monthly Progress Report
- F. I-580 Corridor HOV Lane Projects – Location Map
- G. I-580 Corridor Express Lane Projects – Location Map

Staff Contact

[Stewart Ng](#), Deputy Director of Programming and Projects

[Stefan Garcia](#), Project Controls Team

[Kanda Raj](#), Project Controls Team

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ATTACHMENT A
I-580 Eastbound HOV Lane Project (PN 720.5)
Monthly Progress Report
December 2014

PROJECT DESCRIPTION

The Eastbound I-580 HOV Lane Project is completing one final construction segment, Segment 3 Auxiliary (AUX) Lanes, between Hacienda Drive and Greenville Road. The Project scope includes:

- Construction of auxiliary lanes from Isabel Avenue to First Street;
- Pavement width necessary for a double express (high occupancy toll lane facility);
- Final lift of asphalt concrete (AC) pavement and striping for entire eastbound project limits from Hacienda Drive to Portola Avenue;
- The soundwall that was deleted from the I-580/Isabel Avenue Interchange Project; and
- The widening of two bridges at Arroyo Las Positas in the eastbound direction.

CONSTRUCTION STATUS**Traffic Handling & Night Work**

Construction activities include both day and night work. Significant work is involved in rehabilitating the existing pavement which requires closing traffic lanes; however, no complete freeway closures are anticipated. Due to heavy daytime traffic volumes, closing traffic lanes in the daytime is not feasible. For this reason, pavement rehabilitation work can only be done during nighttime hours. Night work will include setting lane closures and shifting traffic lanes (placement of safety barrier (k-rail) and striping work), existing pavement rehabilitation work (crack and seat, slab replacement and overlay) and electrical work. Caltrans lane closure charts permit the contractor to perform this work at night between 9pm and 4am. Work behind k-rail and all bridge work is expected to occur during daytime hours.

Construction Challenges

Alameda CTC staff is working in close coordination with Caltrans to implement the project within limited funding. Challenges and managed risks for this project include:

- Bird Nesting on structures and in adjacent field areas
- Installation of future express Lane components to facilitate express lane completion. Project staff is working to combine HOV and express lane construction work in a manner that will keep the single HOV lane open until the double lane HOT/HOV express facility is completed

Completed Activities – 76% of the contract work was completed as of 11/20/14

Construction activities began in April 2013. Work completed to date includes:

- Las Positas Creek (EB and WB) bridge widening
- Widening of major box culvert at Arroyo Seco and modification of drainage facilities. Creek diversion is removed and area restored.
- Most retaining walls on the outside of the freeway corridor.

Ongoing & Upcoming Activities

Caltrans maintains a project website

(<http://www.dot.ca.gov/dist4/projects/i580wbhov/>) and conducts public information and outreach efforts in cooperation with Alameda CTC. Ongoing and upcoming work activities include:

- Backfill remaining retaining walls
- Install Lighting and Traffic Operation Systems
- Install infrastructure to support express lane operations
- Paving activities continuing between Hacienda Drive and Greenville Road through October 2014

FUNDING AND FINANCIAL STATUS

The I-580 Eastbound HOV Project is funded through federal, state and local funds.

Funding Plan – SEGMENT 3

Project Phase	Funding Source (\$ million)						Total
	CMIA	RM2	TVTC	FED	SHOPP	Meas. B	
PA&ED						0.02	0.02
PS&E		1.72	1.30	0.23			3.25
ROW		0.17	0.08			0.28	0.53
Construct	17.87	2.20	0.14		4.69	6.57	31.47
Cap							
Construct	2.53	1.12	0.10			0.71	4.46
Sup							
Total	20.40	5.21	1.62	0.23	4.69	7.58	39.73
Total Project Cost: \$39.7M							

SCHEDULE STATUS

The Eastbound AUX Lane project between Hacienda Drive and Greenville Road was advertised on July 9, 2012; bids were opened on October 5, 2012. Caltrans awarded the contract to OC Jones & Sons (with a bid 6.33 percent below the Engineer's Estimate) on November 16, 2012. With the inclusion of infrastructure to support express lane operations, construction is now planned to complete in late 2015.

Project Approval	December 2011 (A)
RTL	May 2012 (A)
CTC Vote	May 2012 (A)
Begin Construction (Award)	November 2012 (A)
End Construction	October 2015 (T)

ATTACHMENT B
I-580 Westbound HOV Lane Projects (PN 724.4/724.5)
Monthly Progress Report
December 2014

PROJECT DESCRIPTION

The Westbound I-580 HOV Lane Project includes three segments:

- **SEGMENT 1** – WB HOV Eastern Segment from Greenville Road to Isabel Avenue
- **SEGMENT 2** – WB HOV Western Segment from Isabel Avenue to San Ramon Road
- **SEGMENT 3** – Bridge widening at Arroyo Las Positas Creek. This work is included in the construction contract for the EB HOV Lane Project (see Attachment A).

CONSTRUCTION STATUS – SEGMENTS 1 & 2

Traffic Handling & Night Work

Construction activities include both day and night work. Significant work is involved in rehabilitating the existing pavement which requires closing traffic lanes; however, no complete freeway closures are anticipated. Due to heavy daytime traffic volumes, closing traffic lanes in the daytime is not feasible. For this reason, pavement rehabilitation work can only be done during nighttime hours. Night work will include setting lane closures and shifting traffic lanes (placement of safety barrier (k-rail) and striping work), existing pavement rehabilitation work (crack and seat, slab replacement and overlay) and electrical work. Caltrans lane closure charts permit the contractor to perform this work at night between 9pm and 4am. Work behind k-rail and all bridge work is expected to occur during daytime hours.

Construction Challenges

Alameda CTC staff is working in close coordination with Caltrans to implement the project within limited funding. Challenges and managed risks for the project include:

SEGMENT 1 (Eastern Segment)

- Installation of future express Lane components to facilitate express lane completion. Project staff is working to combine HOV and express lane construction work in a manner that will allow the HOV/express lane facility to be opened concurrently
- Additional widening of the North Livermore Avenue structure to accommodate express lane width requirements
- New retaining wall to account for recent, accelerated erosion within the Arroyo Seco Creek adjacent to the widening necessary for westbound lanes
- Coordination with concurrent Caltrans projects in the area to reduce cost
- Bird Nesting on structures and in adjacent field areas
- Revision of pavement slab replacements to prioritize in areas most in need

SEGMENT 2 (Western Segment)

- Installation of future express lane components to facilitate express lane completion. Project staff is working to combine HOV and express lane

construction work in a manner that will allow the HOV/express lane facility to be opened concurrently

- Elimination of a retaining wall to reduce project cost
- Changes to the pavement cross section to reduce project cost
- Bird Nesting on structures and in adjacent field areas
- Revision of pavement slab replacements to prioritize in areas most in need

Completed Activities

Construction activities began in March 2013. Work completed to date includes:

SEGMENT 1 (Eastern Segment) – 59% of the contract work was completed as of 11/20/14

- North Livermore Ave bridge widening
- Bridge widening at Arroyo Las Positas (2 locations)
- Arroyo Seco RCB culvert extension
- Construct major drainage facilities (e.g. double box culvert)
- Concrete pavement slab replacements
- Excavate and construct retaining walls and soil nail walls
- Paving of ramp and gore areas

SEGMENT 2 (Western Segment – 70% of the contract work was completed as of 11/20/14

- Median widening from Airway to Hacienda
- BART Barrier modifications
- Temporary striping, shift traffic lanes and placement of safety barrier (k-rail) to allow for Stage 2 outside widening
- Bridge widening at Dougherty Undercrossing near Dublin BART station
- Bridge widening at Tassajara Creek
- Precast slab pavement replacements
- Outside widening from Airway to Hacienda

Ongoing & Upcoming Activities

Caltrans maintains a project website

(<http://www.dot.ca.gov/dist4/projects/i580wbhov/>) and conducts public information and outreach efforts in cooperation with Alameda CTC. Ongoing and upcoming work activities include:

SEGMENT 1 (Eastern Segment)

- Soundwall construction at Vasco Road
- Install Lighting and Traffic Operation Systems
- Install infrastructure to support express lane operations
- Complete retaining walls
- Median widening and barrier reconfiguration
- Mainline paving will begin in spring 2015

SEGMENT 2 (Western Segment)

- Installation of drainage systems
- Median barrier reconfiguration
- Complete retaining walls
- Install Lighting and Traffic Operation Systems
- Install infrastructure to support express lane operations

- Final paving and striping between Airway Boulevard and Hacienda Drive will begin in spring 2015.

FUNDING AND FINANCIAL STATUS

The I-580 Westbound HOV Lane Project is funded through federal, state and local funds available for the I-580 Corridor. The total project cost is \$143.9M, comprised of programmed (committed) funding from federal, state and local sources.

Funding Plan – SEGMENT 1 (Eastern Segment)

Project Phase	Funding Source (\$ million)							Total
	CMIA	RM2	TCRP	FED	SHOPP	Meas. B	TVTC	
Scoping		0.53	0.04					0.57
PA&ED		4.38						4.38
PS&E		2.29	0.11	0.15		1.69	0.42	4.66
ROW		1.16				0.04		1.20
Utilities		0.32						0.32
Const Cap	35.34		5.92	6.19	13.54	1.60		62.59
Const. Sup	6.52		1.59			1.08		9.19
Total	41.86	8.68	7.66	6.34	13.54	4.41	0.42	82.91
Total Project Cost: \$82.9M								

Funding Plan – SEGMENT 2 (Western Segment)

Project Phase	Funding Source (\$ million)							Total
	CMIA	RM2	TCRP	FED	SHOPP	Meas. B	TVTC	
Scoping		0.36	0.02					0.38
PA&ED		2.92						2.92
PS&E		1.53	0.07	0.10		1.12	0.28	3.10
ROW		0.77				0.03		0.80
Utilities		0.21						0.21
Const Cap	33.73		2.49		9.61	0.10	0.30	46.23
Const. Sup	6.75					0.58		7.33
Total	40.48	5.79	2.58	0.10	9.61	1.83	0.58	60.97
Total Project Cost: \$61.0M								

SCHEDULE STATUS

SEGMENT 1 (Eastern Segment):

The Westbound HOV Eastern Segment from Greenville Road to Isabel Avenue was advertised on July 16, 2012 and bids were opened on September 19, 2012. Caltrans awarded the contract to Ghilotti Construction Company, Inc. (with a bid 16.33 percent below Engineer's Estimate) on November 20, 2012. With the inclusion of infrastructure to support express lane operations, construction is now planned to complete in early 2016.

Project Approval	January 2010 (A)
RTL	May 2012 (A)
CTC Vote	May 2012 (A)
Begin Construction (Award)	November 2012 (A)
End Construction	January 2016 (T)

SEGMENT 2 (Western Segment):

The Westbound HOV Western Segment from Isabel Avenue to San Ramon Road was advertised on June 25, 2012 and bids were opened on August 29, 2012. Caltrans awarded the contract to DeSilva Gates Construction (with a bid 23.32 percent below Engineer's Estimate) on October 29, 2012. With the inclusion of infrastructure to support express lane operations, construction is now planned to complete in mid 2015.

Project Approval	January 2010 (A)
RTL	April 2012 (A)
CTC Vote	April 2012 (A)
Begin Construction (Award)	October 2012 (A)
End Construction	July 2015 (T)

ATTACHMENT C

I-580 Eastbound Express Lane Project

Monthly Progress Report

December 2014

PROJECT DESCRIPTION

The I-580 Eastbound Express Lane Project will convert the newly constructed eastbound HOV lane, from Hacienda Drive in Dublin/Pleasanton to Greenville Road in Livermore, to a double express lane facility, a distance of approximately 11 miles.

PROJECT DELIVERY STATUS

- Civil design is complete and combined with the westbound component as one contract package. The civil construction is being implemented through CCO's under the three I-580 HOV lane projects currently in construction (I-580 Westbound HOV Lane - West Segment, I-580 Westbound HOV Lane - East Segment and I-580 Eastbound HOV Lane - Segment 3 with Auxiliary Lanes). All the CCOs have been issued to the contractors
- Electronic toll system design is in progress

RECENT ACTIVITIES

- Construction activities are progressing see Attachment A for civil construction updates
- Construction coordination meetings have been held to ease construction sequence between the civil and systems construction projects
- See Attachment E for additional toll system design updates

UPCOMING ACTIVITIES

- Coordinate civil construction activities for completion by March 2015, see Attachment A for civil construction updates
- See Attachment E for toll system design updates

POTENTIAL ISSUES/RISKS

The civil construction has to be completed by early March 2015 to allow ETCC to start the electronic toll system equipment so that express lanes can be opened by November 2015. This schedule is very aggressive. Staff will work closely with Caltrans and ETCC to monitor progress and take appropriate actions as necessary.

FUNDING AND FINANCIAL STATUS

The total project cost of the combined express lane project is \$55 million and is fully funded with a combination of federal, regional and local fund sources.

SCHEDULE STATUS

I-580 Eastbound Express Lane Project Schedule:

Project Approval	March 2014
Civil Design Completion	April 2014
Begin Construction	June 2014
End Construction (Civil and System Integration)	November 2015

ATTACHMENT D
I-580 Westbound Express Lane Project
Monthly Progress Report
December 2014

PROJECT DESCRIPTION

The I-580 Westbound Lane Project will convert the planned westbound HOV lane to a single express lane facility from Greenville Road in Livermore to San Ramon Road / Foothill Road in Dublin / Pleasanton, a distance of approximately 14 miles.

PROJECT DELIVERY STATUS

- The environmental phase is complete
- Civil design is complete and combined with the eastbound component as one contract package. The civil construction is being implemented through CCO's under the three I-580 HOV lane projects currently in construction (I-580 Westbound HOV Lane - West Segment, I-580 Westbound HOV Lane - East Segment and I-580 Eastbound HOV Lane - Segment 3 with Auxiliary Lanes). All the CCOs have been issued to the contractors
- Electronic toll system design is in progress

RECENT ACTIVITIES

- Construction activities are progressing, see Attachment B for civil construction updates
- Construction coordination meetings have been held to ease construction sequence between the civil and systems construction projects
- See Attachment E for additional toll system design updates

UPCOMING ACTIVITIES

- Construction activities are progressing, see Attachment B for civil construction updates
- See Attachment E for toll system design updates

POTENTIAL ISSUES/RISKS

The civil construction has to be completed by early March 2015 to allow ETCC to start installation of the electronic toll system equipment so that express lanes can be opened by November 2015. This schedule is very aggressive. Staff will work closely with Caltrans and ETCC to monitor progress and take appropriate actions as necessary.

FUNDING AND FINANCIAL STATUS

The total project cost of the combined express lane project is \$55 million and is fully funded with a combination of federal, regional and local fund sources.

SCHEDULE STATUS

I-580 Westbound Express Lane Project Schedule:

Project Approval	August 2013
Civil Design Completion	April 2014
Begin Construction	June 2014
End Construction (Civil and System Integration)	November 2015

ATTACHMENT E
I-580 Express Lanes System Integration
Monthly Progress Report
December 2014

SYSTEM INTEGRATION SCOPE DESCRIPTION

The I-580 Express Lane civil contract will construct the necessary infrastructure, such as signing, sign gantries for dynamic messaging and toll reading, electrical conduit for connecting power and communication sources and pavement striping to implement express lanes on I-580. The System Integration will include communication and tolling hardware design, software development, and factory testing of equipment/design, toll system equipment/hardware installation and toll system integration. It will also consist of field testing the toll equipment and all subsystems, including the interfaces to the Bay Area Toll Authority - Regional Customer Service Center and Caltrans, prior to implementing the new express lanes.

Detailed Discussion

Electronic Transaction Consultants Corporation (ETCC), the project toll system integrator, has been updating the electronic toll system design to support the "near continuous" access configuration in both directions of I-580. System integration in the I-580 Corridor includes the most recent technologies for software, hardware and traffic detection to efficiently manage current and forecasted traffic congestion by optimizing the existing corridor capacity. The system integrator, however, will continue to own the software while the implementing agency will pay for a license to allow for the use of the toll integrator's software.

As reported in the I-580 Workshops held in 2013, the "near continuous" concept provides additional access opportunities while reducing the foot-print required for implementing a shared express/general purpose lane facility. In addition, it looks and feels similar to a High Occupancy Vehicle (HOV) facility and, therefore, is expected to provide driver familiarity.

To support near continuous access configuration, the electronic toll system has been designed to implement zone tolling and automated toll violation enforcement (involving license plate image capture and review process). Closely spaced toll antennas and readers will be placed approximately at $\frac{3}{4}$ -mile intervals to effectively read FasTrak® transponders. A transponder will be read once within a (tolling) zone by a toll reader and will be charged a fee for use of the lane. Throughout the facility, real-time traffic/travel conditions will be gathered through traffic monitoring stations/devices and demand-based toll rates will be calculated, utilizing a dynamic pricing model algorithm. Calculated toll rates will be displayed on Dynamic Message Signs (DMSs) ahead of potential express lane entry locations in order to inform travelers. The DMSs are expected to display two rates, the first rate is for travel within the current or

immediately downstream zone and the second rate is for travel to a major destination within the corridor (determined as end of the line in this I-580 Corridor).

Per Commission approval in September 2014, the system design now includes automated toll violation enforcement. To enact toll violation enforcement the Commission will have to adopt a "Toll Ordinance" under the purview of Vehicle Code Section 40250 which allows toll operators to enact such ordinances, including the penalties associated with violations. Several administrative steps will have to be finalized prior to the Commission adopting a toll ordinance, and staff will detail the timeline and process associated with development and adoption of a toll ordinance.

Express lane implementation on I-580 will depend on services provided by others, primarily by the Bay Area Toll Authority (BATA). Therefore, staff is closely working with BATA to finalize the switchable (aka FasTrak flex®) transponder rollout plan, a new I-580 customer service agreement for BATA provided services such as toll collection, FasTrak account relations, toll violation/delinquent notices and penalty collection services, etc., and the interface requirements for interacting toll systems with BATA operated regional customer service center. Project toll system design and implementation are contingent on finalizing the above.

Project Geometry and Electronic Toll System Design

The latest version of the express lanes concept includes the following:

In the eastbound I-580 direction:

- Buffer separated single-lane HOV/Express Lane will be installed from Hacienda Drive to Fallon Road
- Continuous access dual-lane HOV/Express Lane will be installed from Fallon Road to west of Vasco Road
- Continuous access single-lane HOV/Express Lane will be installed from west of Vasco Road to Greenville Road

In the westbound I-580 direction:

- Continuous access single-lane HOV/Express Lane will be installed from Greenville Road to Hacienda Drive
- A buffer separated single-lane HOV/Express Lane will be installed from Hacienda Drive to the I-580/I-680 Interchange

PROJECT STATUS

Software and hardware design

The system integration is currently in the design phase. The system integrator consultant, ETCC, has been proceeding with software and hardware development, consistent with project concepts presented in the I-580 Workshops held in 2013. Zone tolling to facilitate efficient toll collection and an automated toll violation system are part of the design. System design also includes tools to support the California Highway Patrol's efforts in curtailing vehicle occupancy violation.

ETCC's system installation plan has been coordinated with on-going Caltrans construction projects. Based on construction coordination efforts, ETCC will finalize its installation schedule. Subsequently, ETCC will perform a series of factory and field tests and work with Alameda CTC staff to validate its hardware and software design prior to opening the new express lanes facility. Construction is expected to commence in late March 2015 with the electronic toll system fully operational in November 2015.

Agency staff in cooperation with regional partners is working to deploy a comprehensive public education and outreach program to support the implementation of the express lanes. Business rules have been developed for consistent driver experience within the Regional Bay Area Express Lane Network. Staff will provide additional details about the public education and outreach program in the January 2015 Committee meeting.

RECENT ACTIVITIES

- To coordinate or to plan sequence construction activities, staff has been coordinating monthly coordination meetings with ETCC and Caltrans construction.
- ETCC has procured several back office equipment for testing and validation, ahead of the February 2015 Factory Acceptance Test.
- Continue to discuss interface requirements with BATA's vendor Xerox for processing transponder-based and image-based toll trips.
- Based on Commission's approval in September 2014, staff is working with ETCC to amend its contract to include license plate image capture and review system (ICRS) in the scope of services

UPCOMING ACTIVITIES

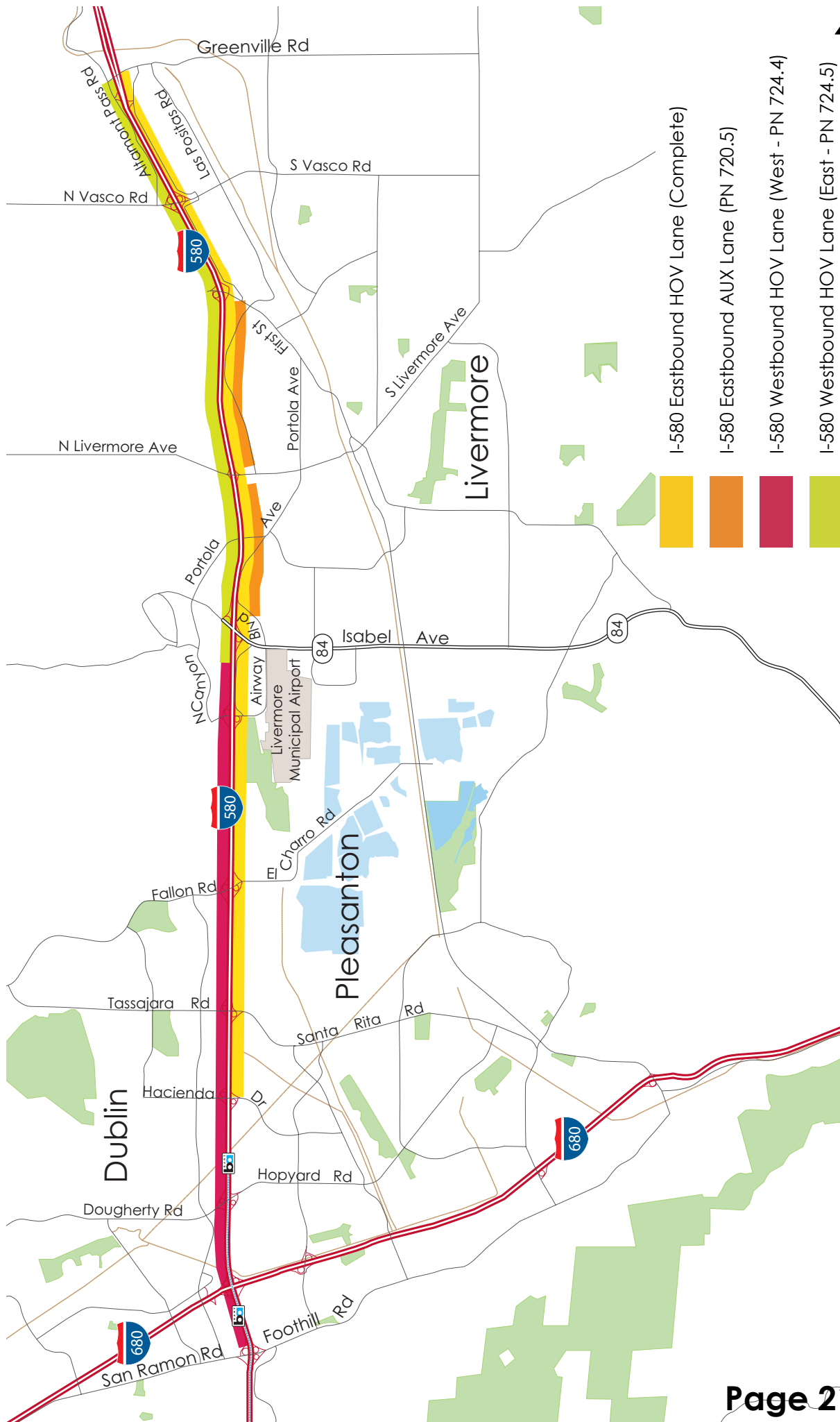
- Roll out the education and outreach campaign to the public in early 2015 to educate about the benefits of express lanes, how to use the lanes, new technologies, including the required use of switchable transponders, and how the public can acquire a new transponder
- Continue to work with Xerox to finalize interfacing requirements with BATA Regional Customer Service Center
- Conduct factory acceptance test in February 2015
- Continue to coordinate with BATA to complete a customer services agreement by January/Fenruary 2015 for collecting tolls and processing toll violation enforcement services
- Continue to work with Caltrans to complete an Operations and Maintenance (O&M) Agreement by spring 2015
- Continue to work with California Highway Patrol to complete a Service Agreement by spring 2015

FUNDING AND FINANCIAL STATUS

The total project cost of the combined Eastbound and Westbound I-580 Express lane project is \$55 million, and is fully funded with a combination of federal, regional and local fund sources.

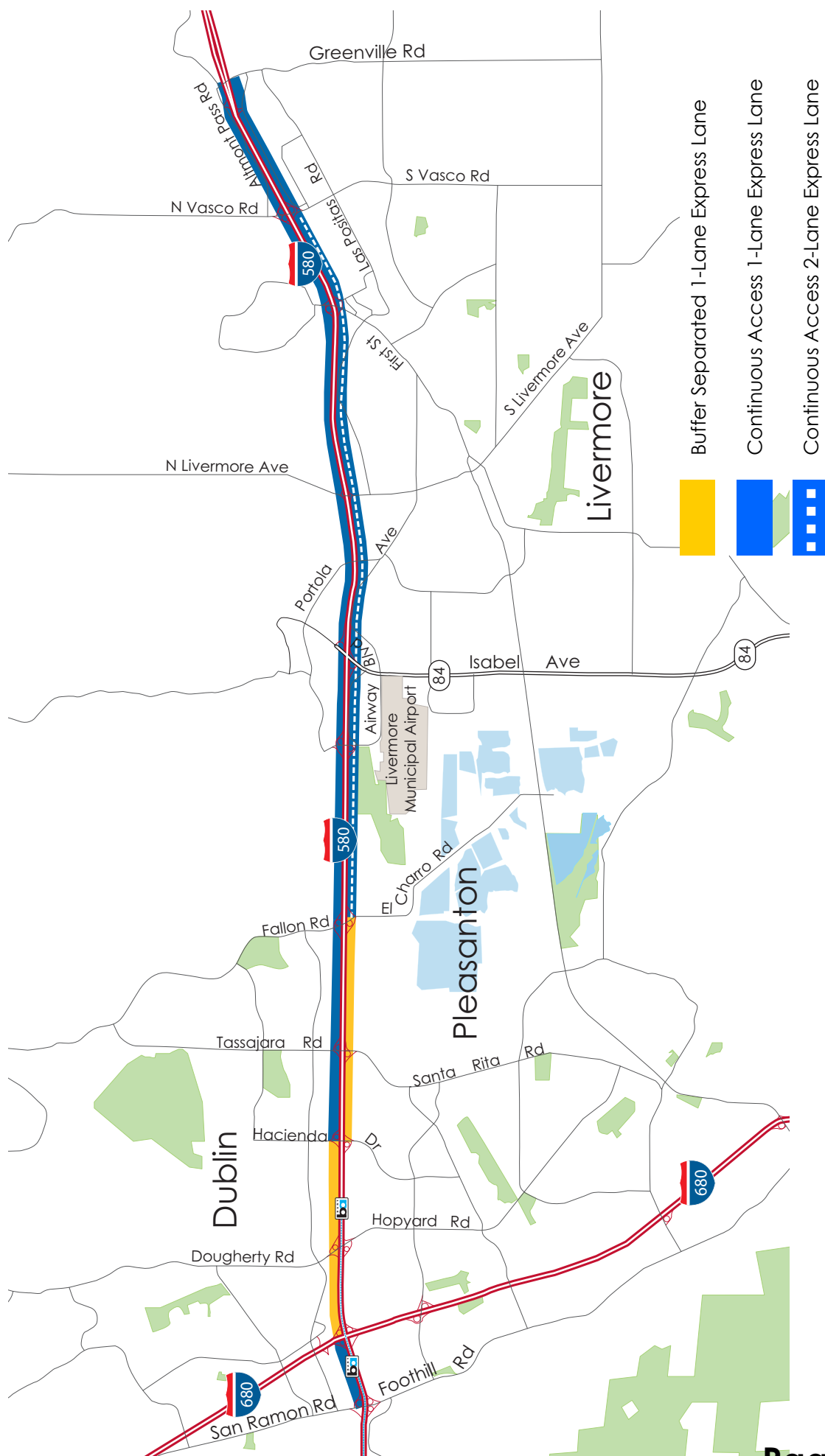
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I-580 Corridor HOV Lane Projects - Location map



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I-580 Express Lane Projects Location map



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Memorandum

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1111 Broadway, Suite 800, Oakland, CA 94607

• PH: (510) 208-7400

• www.AlamedaCTC.org

DATE: January 5, 2015

SUBJECT: I-580 Express Lanes Education, Outreach and Regional Coordination

RECOMMENDATION: Receive an update on I-580 Express Lanes Education, Outreach and Regional Coordination

Summary

Alameda CTC will open new Express Lanes on I-580 in the Tri-Valley in fall 2015. A comprehensive research-based education and outreach approach has commenced to inform motorists about the benefits of the lanes, how to use the lanes, and how to obtain the required FasTrak® Flex toll tags, expected to be market ready by summer 2015. I-580 Express Lanes outreach and education will be implemented within the project area and I-580 travel sheds, which also include San Joaquin and Contra Costa Counties. The education and outreach aims to ensure safe and proper use of the lanes, clear understanding of how enforcement works, and to support positive perception of the lanes to set the stage for successful future projects in the planned regionwide Bay Area Express Lanes network.

Background

In December 2013, the Alameda CTC Commission approved the execution of a contract for I-580 Express Lanes Public Outreach and Education Services with Wilson, Sparling & Associates (formerly Frank Wilson & Associates) who have extensive experience promoting the benefits of managed lanes in California and other states. An Outreach and Education Plan has been developed that details the specific activities to occur for this project, and a research plan was implemented over the summer to understand public perceptions of the lanes to assist in refining appropriate messages in the public outreach and education materials. In September 2014, staff presented the research findings and the process for integrating the results into activities that are now being implemented throughout the Tri-Valley and in Contra Costa and San Joaquin Counties.

Education and Outreach Schedule

Staff conducts monthly working meetings with the Metropolitan Transportation Commission (MTC), Bay Area Infrastructure Financing Authority (BAIFA) and Bay Area Toll Authority (BATA)

to coordinate on the development and implementation of consistent public outreach activities for Bay Area Express Lanes, including marketing and outreach of the forthcoming FasTrak Flex toll tag. This new toll tag will be required of all carpoolers upon full operation of the 580 Express Lanes and significant public outreach is planned in order to educate the public on the benefits of the tags, how to use them, and where to obtain them. Broad accessibility of these tags is critical for the effective operations of the 580 Express Lanes, and Alameda CTC is incorporating information about these toll tags throughout its outreach plans and materials.

The following provides the outreach schedule and approach to these tasks:

January – May 2015

Key Messages: Express Lanes are coming; Benefits of Express Lanes; How to Use Express Lanes; Where to get information and toll tags.

Key Activities:

- Meetings with jurisdictions throughout the corridor in Alameda, Contra Costa and San Joaquin Counties.
- Produce fact sheet and event materials
- Attendance at public events in Tri-Valley, Contra Costa and San Joaquin Counties (calendar includes more than 25 events)
- Outreach to top employers within commute shed
- Schedule media opportunities to mark construction milestones
- Work with partners (MTC/BATA) who are developing a FasTrak Flex outreach plan and toll-tag messaging and marketing materials
- Support MTC/BATA's efforts to provide FasTrak Flex at retail locations throughout the I-580 commute shed when the tag becomes available

June– August 2015

Key Messages: How to use the 580 Express Lanes; Improvements to the 680 Southbound Express Lane; Get your FasTrak Flex Toll tag

Key Activities:

- Attend community and employer events and provide opportunities to obtain FasTrak Flex (as possible based upon coordination efforts with MTC/BATA)
- Outreach to key stakeholders and media
- Presentations to civic and business groups (Lyons, Rotary, Chambers of Commerce, business parks, etc.)
- Coordination with CHP to ensure safety and enforcement
- Plan for paid advertising

September - December 2015

Key Messages: Express Lanes are opening; How to use them; Get your FasTrak Flex Toll Tag

Key Activities:

- Attend community events and provide opportunities to obtain FasTrak Flex
- Press Conference and Media Tour
 - Introduce “How to use the I-580 Express Lanes” Video
 - Interviews with Alameda CTC Commissioners and CHP
- Outreach to carpoolers to reinforce and support carpooling
- Continue marketing campaign for FasTrak Flex tolls tags
- Grand Opening/Ribbon Cutting Event
- Continued coordination with CHP to ensure safety and enforcement and to support grace period (based upon Commission approval) and violator education to offer violators opportunities to become customers
- Continued coordination with regional partners

January – March 2016

Key Messages: Post-Launch success; Get your FasTrak Flex Toll Tags to take advantage of travel choices offered by the Express Lanes.

Key Activities:

- Ongoing education to drivers and close coordinate with CHP to ensure drivers understand rules of the road
- Continue marketing campaign for FasTrak Flex tolls tags
- Collect and promote testimonials of new users of I-580 lanes
- Promote statistics on growing usage tied to milestones
- Develop messaging around travel time saved by the Express Lanes
- Document public feedback and effectiveness of targeted outreach and marketing

Next Steps

Staff will continue to bring outreach and education updates to the I-580 Express Lane Policy Committee and Commission throughout the coming year as staff plans and implements public education and outreach tasks to ensure the successful launch and post-launch use of the I-580 Express Lanes. Topics will include:

1. Transponder user education and marketing – March 2015
2. Outreach and education for Express Lanes launch – June 2015
3. Update on launch activities – Sept 2015

Fiscal Impact: There is no fiscal impact to the Alameda CTC budget due to this item. This is for information only.

Staff Contact

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[Heather Barber](#), Communications Manager

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