



Meeting Notice

1111 Broadway, Suite 800, Oakland, CA 94607

• 510.208.7400

• www.AlamedaCTC.org

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Executive Director

Arthur L. Dao

I-580 Express Lane Policy Committee

Monday, November 10, 2014, 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.

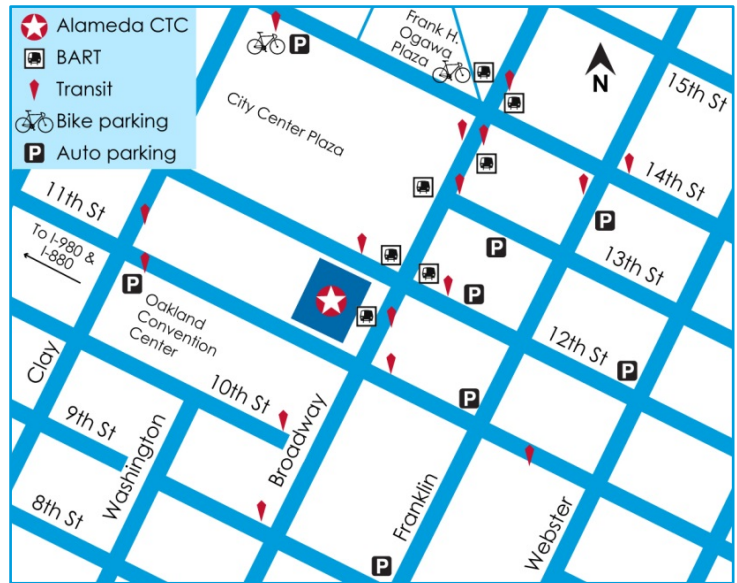
Glossary of Acronyms

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

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.

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, November 10, 2014, 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 • 510.208.7400 • www.AlamedaCTC.org

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

- 1. Roll Call
- 2. Public Comment

3. Consent Calendar

Page A/I

- 3.1. [October 13, 2014 I-580 Express Lane PC Meeting Minutes](#)

1 A

Recommendation: Approve the October 13, 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](#)

I

5. Committee Member Reports (Verbal)

6. Staff Reports (Verbal)

7. Adjournment

Next Meeting: January 12, 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, October 13, 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 except Commissioner Nate Miley

Subsequent to the roll call:

Commissioner Nate Miley arrived during item 4.1.

2. Public Comment

There was no public comment.

3. Consent Calendar

3.1 September 8, 2014 I-580 Express Lane PC Meeting Minutes

Commissioner Thorne motioned to approve the consent calendar. Commissioner Sbranti seconded the motion. The motion passed unanimously (Miley absent).

4. Regular Matters

4.1 I-580 Express Lanes Education and Outreach Schedule

Heather Barber presented the I-580 Express Lanes Education and Outreach Schedule. Heather provided a brief overview of the outreach schedule and covered highlights from the outreach plan. She also covered outreach goals and objectives and she concluded by providing information on next steps and committee updates over the next year.

Commissioner Haggerty wanted more information on distribution of the new toll tags. Heather stated that staff is currently working with BATA to develop a plan to distribute the Fastrak® Flex toll tag.

Commissioner Sbranti wanted to know what retail locations would sell the new toll tags. Heather stated that BATA is in charge of distribution and there is a wide list of retail vendors the agency intends to work with on distribution.

Commissioner Sbranti wanted more detail on how the Fastrak® Flex toll tag works. Heather stated that Fastrak® Flex allows a user to indicate the amount of people in the car with a switchable transponder.

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

Kanda Raj 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

also provided brief detail on project funding, schedule and the status of each project in the corridor.

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

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

Attested by:



Vanessa Lee,
Clerk of the Commission



DATE: November 3, 2014

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. 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. 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
October 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 – 74% of the contract work was completed as of 9/20/14

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 two 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 Cap | 17.87 | 2.20 | 0.14 | | 4.69 | 6.57 | 31.47 |
| Construct Sup | 2.53 | 1.12 | 0.10 | | | 0.71 | 4.46 |
| 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
October 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) – 51% of the contract work was completed as of 9/20/14

- 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 – 77% of the contract work was completed as of 9/20/14

- 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
October 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

- The environmental phase is complete
- 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
- See Attachment E for 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
October 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
- See Attachment E for 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
October 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 accommodate express lanes. The System Integration will include communication and tolling hardware design, software development, factory testing of equipment/design, toll system equipment/hardware installation and toll system integration. It will also consist of field testing of 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

The system integration focuses on the most recent technologies including software, hardware and traffic detection that will be deployed to optimize the existing corridor capacity in order to effectively manage the current and forecasted traffic congestion in the corridor. 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.

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. As reported in the 2013 I-580 Workshops, 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.

Project Geometry and Electronic Toll System Design

The latest version of the express lanes concept proposes 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. To support the near continuous access and curtail toll violation, the toll system design includes zone-based tolling and automated toll violation enforcement. Toll gantries will be placed at approximately $\frac{3}{4}$ mile intervals to support toll collection and violation enforcement. System design also includes tools to support the California Highway Patrol's efforts in curtailing vehicle occupancy violation.

System integrator consultant ETCC has been proceeding with software and hardware development, consistent with project concepts presented in 2013 I-580 Workshops. ETCC circulated system installation plan for review and comments. Based on comments received, ETCC finalized the installation plans. 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 activities of express lane-system integration are expected to commence in March 2015 with electronic toll system, fully operational in November 2015.

Agency staff is working to deploy a comprehensive public education and outreach program to support the implementation of the express lanes which will employ new and emerging technologies. Business rules have been developed for consistent driver experience within the Regional Bay Area Express Lane Network. In the October 2014 meeting, staff will outline the schedule activities associated with the public education and outreach plan.

RECENT ACTIVITIES

- ETCC circulated system installation plan and detailed drawings for review and comments. Based on comments received, ETCC finalized the system plans.
- Based on Commission's approval in September 2014, staff is working with ETCC to include license plate image capture and review system (ICRS) in ETCC's scope of services in its Agreement to enforce automated toll violation

UPCOMING ACTIVITIES

- Roll out the education and outreach campaign to the public in early 2015 to educate them about the benefits of express lanes, how to use the lanes, new technologies, including the use of switchable transponders, and how to gather additional information, etc.
- Conduct factory acceptance test in February 2015
- Continue to coordinate with BATA to complete a customer services agreement by January/February 2015 for collecting tolls and processing toll violation enforcement services

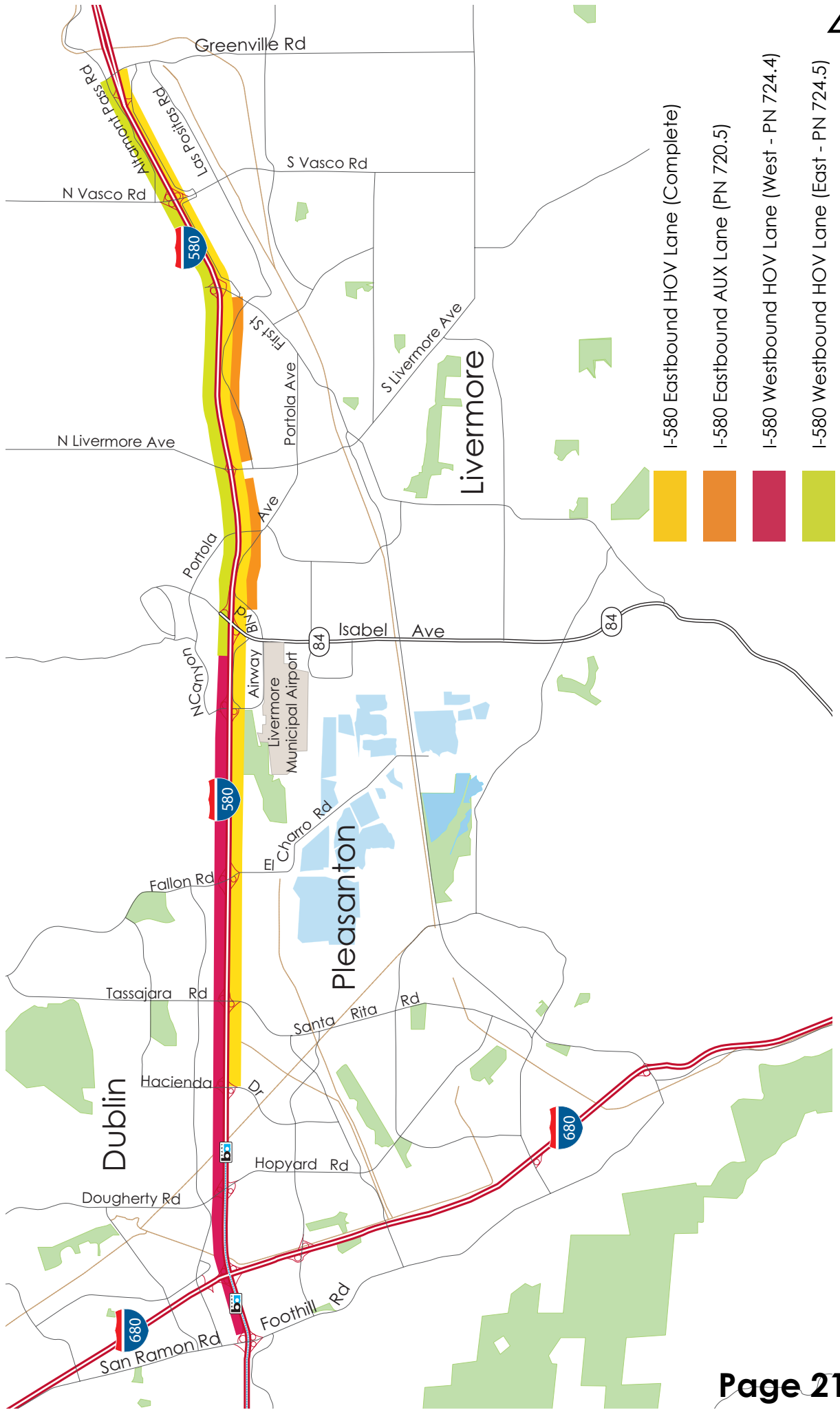
- Continue to work with Caltrans to complete an Operations and Maintenance (O&M) Agreement by spring 2015

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.

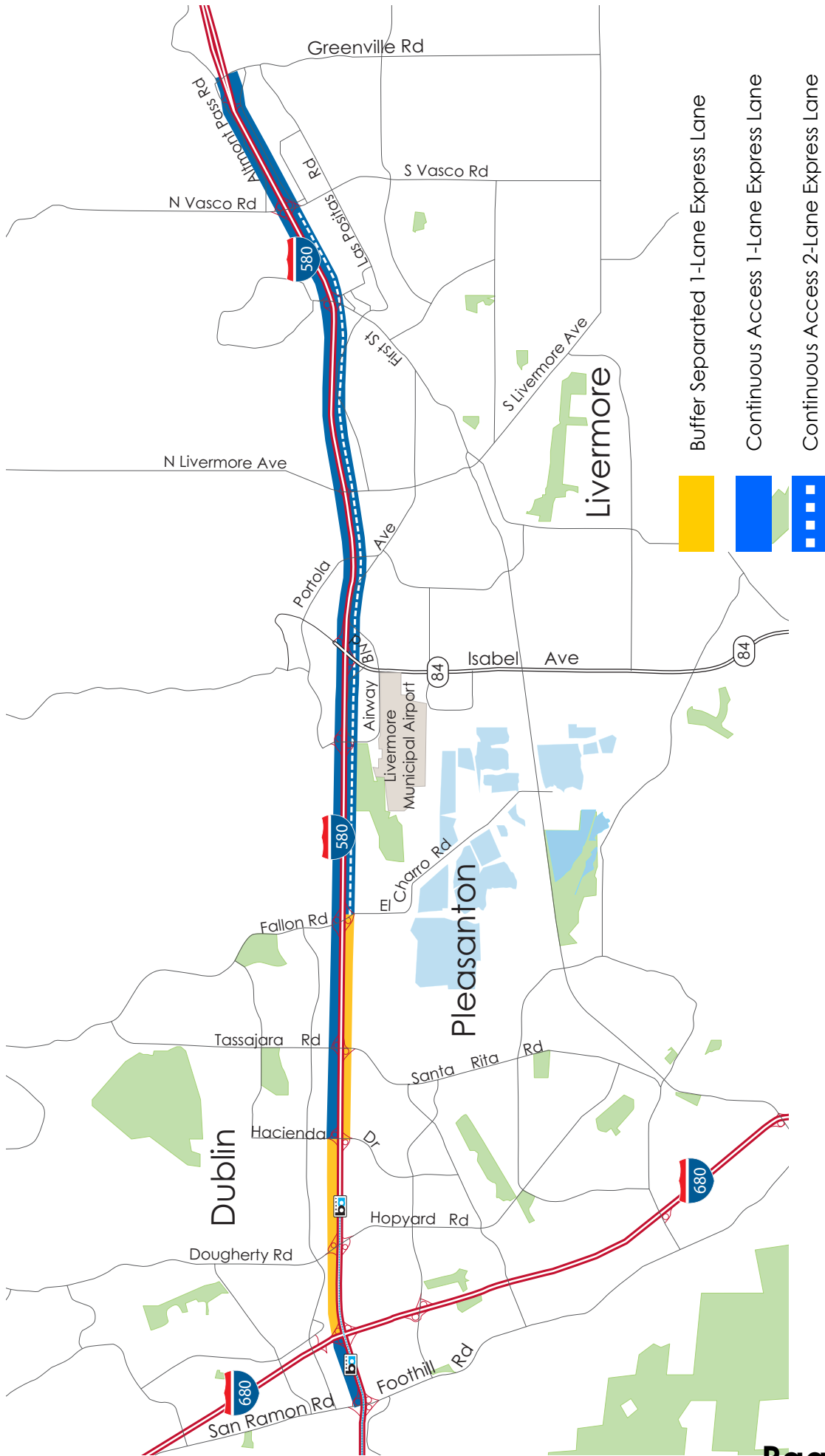
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I-580 Corridor HOV Lane Projects - Location map



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I-580 Express Lane Projects Location map



-  Buffer Separated 1-Lane Express Lane
-  Continuous Access 1-Lane Express Lane
-  Continuous Access 2-Lane Express Lane



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