ALA580 Express (HOT) Lane Projects

- **Eastbound Express Lanes** – Signs, Electrical Conduit, Striping

- **Westbound Express Lane** – Signs, Electrical Conduit, Striping

- **System Integrator** – Design of Software and Hardware, Install and Test Equipment, and Implement Toll Operations
Eastbound Express Lane Schedule

<table>
<thead>
<tr>
<th></th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize Design Exceptions</td>
<td>Yellow</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Draft Environmental Document &amp; Public Meeting</td>
<td>Green</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finalize Environmental Document &amp; Project Report</td>
<td>Yellow</td>
<td>Green</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td></td>
<td></td>
<td>Blue</td>
<td></td>
</tr>
<tr>
<td>Potential Contract Change Order Work</td>
<td></td>
<td></td>
<td>Brown</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
<td></td>
<td>Orange</td>
<td></td>
</tr>
</tbody>
</table>
## Westbound Express Lane Schedule

<table>
<thead>
<tr>
<th>Project</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize Design Exceptions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finalize Environmental Document &amp; Project Report</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potential Contract Change Order Work</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## I-580 Corridor Schedule

<table>
<thead>
<tr>
<th>Project</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-580 EB Auxiliary Lane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I-580 WB HOV Projects</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potential I-580 Express Change Order Work</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I-580 Express Lane Projects</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I-580 System Integration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Express Lanes Open</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Ongoing Activities**

- Updating Traffic studies for Near Continuous Access
- Environmental Studies are Underway (Westbound)
- Finalizing Design Exceptions and Project Report (Eastbound)
- Updating Environmental Document (IS/EA) for Near Continuous Access (Eastbound)

**Delivery Strategy**

- Implement Near Continuous Access Configuration
- Combine EB & WB Express Lane Projects (Design & Construction Phase for Civil and System Integration Contracts)
- Implement Change Order Opportunities on Existing Contracts
System Integration – What is it?

- A Specialized Field
- Utilizes Technology to Manage Traffic Congestion
- Designs, Develops and Deploys Electronic Toll System
- Last Component of Express Lane Implementation

System Integration - Components

- Design of Software & Hardware
- Factory Acceptance Test
- Equipment Procurement, Installation; & Integration
- Field Tests Equipment & Subsystems
- Toll Operations (Open to Traffic)
- Site Acceptance Test & Final System Acceptance
- Warranty Period
Limited Access vs. Continuous Access

Continuous Access (Similar to HOV Lane)

Legend and Notes:
- Express Lanes
- General Purpose Lanes
- * Preliminary, exact spacing to be determined

Continuous Access

- Similar to an HOV Lane, but Tolled
- Buffer Separation at Hot Spots
Near Continuous Access

Minimizes Conflicts at Hot Spots

Similar to an HOV Lane, with some Access Restrictions via a Double-White Buffer Stripe

I-580 Access Locations
Continuous Access Implementation

Key Elements Under Development

- Traffic & Revenue Study
- Concept of Operations/System Eng. Mgmt. Plan
- Software and Hardware Design
- Pricing Strategy - Zone Tolling
- Toll Sign/Reader Locations
- Automated Violation Enforcement

I-580 Policy Committee – March 11, 2013

Zone Tolling

Conceptual Plan for Implementation on I-880, Courtesy MTC

<table>
<thead>
<tr>
<th>Zone 2: 1-238 to SR 92 (3.9 miles)</th>
<th>Zone 1: Hegenberger to I-238 (4.9 miles)</th>
</tr>
</thead>
</table>

I-580 Policy Committee – March 11, 2013
Enforcement

Manual (through CHP)

Automated (via VES)

Continuous Access Implementation

Automated Violation Enforcement

Will Require ...
- License Plate Read
- Switchable Toll Transponder for HOV
**Project Implementation – Work Plan**

**Will Include Strategy & Timeline for …**

- Project Financial Plan – Breakeven Analysis
- Project Delivery Strategy & Approvals
- Toll Policy/Business Rules & Approval
- Public Education/Outreach

---

**Questions / Answers**