Update from City of Austin’s Arterial Management Division

Presented to CAS-ITE on April 27, 2018

Austin Transportation Department
Overview of the Arterial Management Division
Signal Timing
Annual Signal Retiming

FY 18 Retiming Corridors
Annual Signal Retiming

Howard Lane Corridor:
Lamplight Village Ave. and Scofield Ridge Pkwy. to Howard Ln. and Heatherwilde Blvd.
Annual Signal Retiming

Before/After Analysis with INRIX data.

Preview of “Enhancing Analysis of Probe-based Data”
Cesar Chavez Corridor: *Retimed after MoPac Express Lanes opened*
Special Case Retiming

Cesar Chavez Corridor: *Retiming after MoPac Express Lanes opened*

- **Express Lanes Open**
  - Sept 11 - 15
  - Oct 2 - 6
  - Nov 6 - 11
  - Dec 4 - 8
  - Jan 22 - Feb 2

- **Signal Timing Changes**

The graph shows travel time (in minutes) from 6:00 to 9:00 for WB CC - I-35 to MoPac, with time segments for Express Lanes Open and Signal Timing Changes indicated.
Construction
Signal Construction
Signal Construction

Signal Project Status

<table>
<thead>
<tr>
<th>Location</th>
<th>Type</th>
<th>Status</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAFAYETTE AVE</td>
<td>PHB</td>
<td>CONSTRUCTION</td>
<td>9/25/2017</td>
</tr>
<tr>
<td>WELLS BRANCH PKWY / KILLINGSWORTH LN</td>
<td>TRAFFIC</td>
<td>CONSTRUCTION</td>
<td>4/14/2017</td>
</tr>
<tr>
<td>4500 BLK ROSS RD</td>
<td>PHB</td>
<td>DESIGN</td>
<td>4/20/2018</td>
</tr>
<tr>
<td>MONTOPOLIS DR / HOGAN AVE</td>
<td>TRAFFIC</td>
<td>DESIGN</td>
<td>4/17/2018</td>
</tr>
<tr>
<td>MOPAC EXPY SVRD / DAVIS LN</td>
<td>TRAFFIC</td>
<td>DESIGN</td>
<td>4/17/2018</td>
</tr>
<tr>
<td>STEINER RANCH BLVD / GRIMES RANCH RD</td>
<td>PHB</td>
<td>DESIGN</td>
<td>4/17/2018</td>
</tr>
</tbody>
</table>
## Signal Construction

### Signal Request Process

#### Find a Signal Request

<table>
<thead>
<tr>
<th>Location</th>
<th>Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 BLK NORWOOD PARK BLVD</td>
<td>PHB</td>
<td>RECOMMENDED</td>
</tr>
<tr>
<td>10000 BLK MANCHACA RD (Moontower Saloon)</td>
<td>TRAFFIC</td>
<td>UNDER EVALUATION</td>
</tr>
<tr>
<td>10000 BLK WOLFTRAP DR</td>
<td>PHB</td>
<td>UNDER EVALUATION</td>
</tr>
<tr>
<td>10200 BLK BURNET RD (Travis County Adult Probation)</td>
<td>PHB</td>
<td>UNDER EVALUATION</td>
</tr>
<tr>
<td>109 BLK W OLTORF ST (St. Ignacious / HEB)</td>
<td>PHB</td>
<td>TURNED_ON</td>
</tr>
<tr>
<td>11001 BLK FOUR POINTS DR</td>
<td>PHB</td>
<td>STUDY</td>
</tr>
<tr>
<td>1137 BLK AIRPORT BLVD</td>
<td>TRAFFIC</td>
<td>NOT RECOMMENDED</td>
</tr>
</tbody>
</table>

![Map of signal locations](image-url)
Signal Construction

2016 Mobility Bond
Signal Maintenance

Preventative Maintenance

- 2018
- 2017
- 2016
- 2015
- 2014
- Other
Signal Maintenance

**Detection**

**Vehicle Detectors**
- LOOP
- VIDEO
- GRIDSMART
- CBD / NO DETECTORS
- SENSYS
- RADAR
ITS and Communications
ITS and Communications

Upgrading Signal Systems

Also...
- Resettable conflict monitors
- D4 controller firmware
ITS and Communications

Transit Signal Priority
ITS and Communications

Emergency Vehicle Preemption

Moving toward a center-to-center approach
ITS and Communications

Communications Network
Transportation Management Center
Transportation Management Center

Performance Measurement

TMC Impact At-A-Glance for 2017

In summary:
• 815 customer service requests/month are addressed by TMC staff
• 280 field technician dispatches/month repairing problems throughout the city
• 18 timing adjustments/month improve traffic flow during incidents and events
• 24,411 reported social media actions based on traveler information
• 20 Special Events managed across 56 days
• More than 34,000 hours of citizen travel time saved due to TMC intervention
• $1,716,700 or more total taxpayer dollars saved
Transportation Management Center

Traffic Monitoring
Summary of some things on the horizon

- Communications and ITS Plans
- Lane Closure Reporting
- One System TMC
- Inter-agency Data and CCTV Sharing
- Signal System Upgrades
- Center-to-center EVP
- Expanded TSP
Thank you.

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Austin Transportation Department
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