Peninsula Corridor Electrification Update Meeting
Belmont City Council
April 10, 2018

Agenda
• Caltrain System Overview
• Project Overview
• Electric Trains
• Infrastructure Construction
  – Belmont Activities
Caltrain System

- 32 Stations Gilroy to San Francisco
- 92 Weekday Trains
- At-Grade Crossings, viaducts, and bridges
- Intermodal Connections
- Bike Commuters

JBP owns right-of-way from SF to San Jose
Union Pacific owns

Ridership

Average Daily Ridership


20,000 25,000 30,000 35,000 40,000 45,000 50,000 55,000 60,000 65,000
At Capacity Today

Bi-directional commute with riders standing on trains going southbound and northbound

Regional Transportation Needs

- US 101 and Interstate 280 Congested
- Corridor supports growing economy
- 75% Caltrain riders commute to work
- 60% are choice riders
Aging Fleet

At Retirement Age: 20/29 loco; 73/134 cars

Project Description

<table>
<thead>
<tr>
<th>Area</th>
<th>Project</th>
<th>Service</th>
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</thead>
</table>
| 51 miles San Francisco to San Jose (Tamien Station) | Electrification:  
- Overhead Contact System (OCS)  
- Traction Power Facilities  
Electric Trains (EMUs)  
- 75 percent of fleet | Up to 79 mph  
Service Increase  
- 6 trains / hour / direction  
- More station stops / reduced travel time  
- Restore Atherton & Broadway service  
Mixed-fleet service (interim period)  
Continue tenant service  
- ACE, Capital Corridor, Amtrak, Freight |
Service Benefits

<table>
<thead>
<tr>
<th>Metric</th>
<th>Today</th>
<th>PCEP</th>
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<tbody>
<tr>
<td>Example Baby Bullet Train</td>
<td></td>
<td></td>
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<tr>
<td>Retain 5-6 stops</td>
<td>60 minutes</td>
<td>45 minutes</td>
</tr>
<tr>
<td>Retain SF to SJ 60 minutes</td>
<td>6 stops</td>
<td>13 stops</td>
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<tr>
<td>Example RWC Station</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Train stops / peak hour</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

Note: 2013 BAC Report, generates $2.5B economic activity and 9,600 jobs
Schedule

MILESTONES

- Caltrain strategic plan makes electrification a priority
- Environmental Clearance
- Award Contract
- Groundbreaking
- First Electric Train Arrives
- Passenger Service with Electric Trains
- Additional Capacity Improvements

*Note: Schedule Subject to Change

Electric Train
Electric Train Input

- 2016 Capacity Board Decision (bike to seat ratio, onboard bathrooms, upper doors ‘not precluded’)
- 2017 Design Refinement (exterior design, seats, bike storage, ADA restroom)

Over 15,000 comments (online, in-person, surveys, station popups)

Electric Train Design
Enhancements

• 2018 Virtual Reality 360 Tour

Construction
Construction Phasing

- 51 Miles Corridor
- 4 Work Segments
- 3,000 Poles
- 10 Traction Power Facilities

Belmont Field Work Status

<table>
<thead>
<tr>
<th>Status</th>
<th>Activity</th>
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<tbody>
<tr>
<td>Complete</td>
<td>• Utility Survey</td>
</tr>
<tr>
<td></td>
<td>• Geotech Investigations</td>
</tr>
<tr>
<td></td>
<td>• Disposal of Soil from Geotech Work</td>
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<tr>
<td></td>
<td>• Soil Testing</td>
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<tr>
<td></td>
<td>• Site Surveys</td>
</tr>
<tr>
<td></td>
<td>• Signal Cable Inspections</td>
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<tr>
<td></td>
<td>• Potholing for Foundations and Signals*</td>
</tr>
<tr>
<td></td>
<td>• Tree Pruning and Removal*</td>
</tr>
<tr>
<td>Upcoming Work</td>
<td>• Foundation Installation</td>
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<tr>
<td></td>
<td>• Pole Installation</td>
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<tr>
<td></td>
<td>• Wire Installation</td>
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</tbody>
</table>

*Site specific needs may require additional work
## Belmont Upcoming Work

<table>
<thead>
<tr>
<th>Date</th>
<th>Work Activity</th>
<th>Expected Duration</th>
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<tbody>
<tr>
<td>Summer 2018</td>
<td>Foundation Installation</td>
<td>3-4 months</td>
</tr>
<tr>
<td>Late 2018</td>
<td>Overhead Pole and Wire Installation</td>
<td>3-4 months</td>
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</table>

Expected duration indicates first and last day. Number of actual work days will be fewer.

## Pole Foundation Work

- **DrillTech on track foundation train**
- **DrillTech off-track OCS Drill Rig**

Will take place on and off track.
Pole Installation

On/off-track crane for installation
Wide flange & square poles
Foundation Rebar Cage

Approximately 180’ pole spacing

Wire Installation

Will take place on-track
Construction Impacts

• Daytime & night work from 8pm-6am
• Some 24 hour weekend work
• Crews will utilize acoustical barrier blankets and position lights away from homes
• Dedicated hotline for construction complaints

Public Outreach

• Subscribe to Weekly Updates
  – Visit calmod.org/construction/
• Project Email and Hotline
• Construction Outreach Office
• Community Meetings
  – October 2017 Belmont Meeting
  – Future meeting before pole and wire installation
Public Outreach

• Physical Notices

Contact Information

• Website: calmod.org
• Phone: 650.399.9659
• Toll Free: 1.800.660.4287
• Email: calmod@caltrain.com
• Project Office: 2121 S. El Camino Real Suite A San Carlos, CA 94403 – Monday to Friday, 9am to 5pm