AGENDA

• Caltrain System Overview
• Project Overview
• Mountain View Construction Activities
• Questions
CALTRAIN SYSTEM

- 32 Stations Gilroy to San Francisco
- 92 Weekday Trains
- At-Grade Crossings, Viaducts, and Bridges
- Intermodal Connections
- Bike Commuters
**PROJECT DESCRIPTION**

**Project Area**
- 51 miles
- San Francisco to San Jose (Tamien Station)

**Project Elements**

**Electrification**
- Overhead Contact System (OCS)
- Traction Power Facilities

**Electric Trains**
- 19 7-car train sets
- 133 electric cars

*Includes 2018 State TIRCP Funding*
PROJECT DESCRIPTION

Service Elements

Speed
• 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, Capitol Corridor, Amtrak, Freight
PROJECT BENEFITS

- Improved Train Performance, Increased Service and Greater Capacity
- Improved Regional Air Quality and Reduced Greenhouse Gas Emissions
- Positive Economic Benefits for the Region
- Reduced Engine Noise Emanating from Trains
- Increased Revenue and Reduced Fuel Cost
* Note: Schedule subject to change
CONSTRUCTION PHASING

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

Legend:
- Caltrain Electrification Corridor
- Caltrain Service South of Project Area
- Caltrain Station
- Construction Sequence:
  - Construction activity will take place in Work Segments 4 & 7, followed by Segment 5 & 1.
  - WA = Work Area

* North of De laCruz Boulevard is in Work Segment 3
  and South of De laCruz Boulevard is in Work Segment 4.
MOUNTAIN VIEW
## FIELD WORK PROGRESSION

| Work Completed                  | • Utility Survey      |
|                                | • Geotechnical Investigations |
|                                | • Disposal of Soil from Geotechnical Investigations |
|                                | • Soil Resistivity Testing |
|                                | • Site Surveys         |
|                                | • Signal Cable Inspections |

| Work In Progress               | • Tree Pruning/Removal |
|                                | • Potholing            |
|                                | • Foundation Installation |

| Future Work                    | • Pole Installation   |
|                                | • Wire Installation    |
|                                | • Bridge Barrier Installation |
# FUTURE CONSTRUCTION

## Mountain View

<table>
<thead>
<tr>
<th>Date</th>
<th>Work Activity</th>
<th>Expected Completion*</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Progress</td>
<td>Tree Pruning/Removal</td>
<td>Spring 2020</td>
</tr>
<tr>
<td>In Progress</td>
<td>Potholing</td>
<td>Spring 2020</td>
</tr>
<tr>
<td>In Progress</td>
<td>Foundation Installation</td>
<td>Spring 2020</td>
</tr>
<tr>
<td>February 2020</td>
<td>Pole Installation</td>
<td>Fall 2020</td>
</tr>
<tr>
<td>Spring 2020</td>
<td>Wire Installation</td>
<td>Fall 2020</td>
</tr>
<tr>
<td>Early 2020</td>
<td>Bridge Barrier Installation</td>
<td>Summer 2020</td>
</tr>
</tbody>
</table>

*Expected completion period indicate first and last day of activity. Number of actual workdays will be fewer.
TREE PRUNING AND REPLACEMENT

Vegetation cleared for electrical safety zone

Cross Section View

Electrical Safety Zone

Vegetation Clearance Zone:
No vegetation overhang beyond trim lines or within 10 feet of electrical components.

Note: This figure depicts worst case scenario vegetation clearance with side poles

Note: Tree pruning will be done in compliance with ANSI Z133 standards and best practices, therefore limb cuts will be made beyond the vegetation trim line, as determined by the project Certified Arborist.

Limb cuts

Vegetation Trim Line

Overhead Contact System/
New Electrification Infrastructure

NOT TO SCALE
# TREE PRUNING AND REPLACEMENT PLAN

## Mountain View

<table>
<thead>
<tr>
<th>City of Mountain View</th>
<th>Caltrain Right of Way</th>
<th>Public Property</th>
<th>Private Property</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trees Removed</strong></td>
<td>11</td>
<td>72</td>
<td>0</td>
</tr>
<tr>
<td><strong>Trees Pruned &gt;25%</strong></td>
<td>33</td>
<td>22</td>
<td>0</td>
</tr>
<tr>
<td><strong>Trees Pruned &lt;25%</strong></td>
<td>143</td>
<td>83</td>
<td>23</td>
</tr>
</tbody>
</table>

172 Trees will be replaced per the Mountain View Tree Replacement Plan

NOTE: Information may change as the design progresses
FOUNDATION CONSTRUCTION

- Excavation
- Rebar and Anchor Installation
- Electrical Grounding
- Concrete Fill
FOUNDATION INSTALLATION
POLE INFORMATION

• 3,000 Installed throughout Corridor
  • Approx. 186 poles in Mountain View
• Pole Height: 30-50’
• Pole Spacing: ~180’ apart
POLE TYPES MOUNTAIN VIEW

Single Track Cantilever  Two Track Cantilever  Portal
POLE INSTALLATION
STRINGING WIRE
BRIDGE BARRIERS

• Ensure the safety of pedestrians and electrical infrastructure
• Will be installed at:
  – San Antonio Road
  – Shoreline Boulevard
  – Stevens Creek Pedestrian Bridge
  – Whisman Road
BRIDGE BARRIERS

Screen Mesh

Polycarbonate Panel

9’6” fence height required for pedestrian bridges
9’6” fence height required for pedestrian bridges
CONSTRUCTION INFORMATION

- Work will occur during day and night
- Some 24-hour weekend work
- Crews will utilize acoustical barrier blankets and position lights away from homes
- Dedicated hotline for construction complaints
PUBLIC OUTREACH

CALTRAIN MODERNIZATION

CALTRAIN ELECTRIFICATION PROJECT
STATUS UPDATE | January 2018

MILESTONES

POSTCARD

CALTRAIN MODERNIZATION

IMPROVING CONVENIENCE
An electric fleet means the trains can run more frequently and more efficiently.

INCREASING CAPACITY
Caltrain is adding more seats to trains, initially increasing capacity by over 50%.

BOOSTING ECONOMIES
Caltrain will also provide economic benefits, including creating nearly 11,000 jobs across the country.

ADVANCING SUSTAINABILITY
Replacing old diesel trains with new electric trains will reduce NOx and improve air quality.

These are just a few examples of how Caltrain and the CalMod program are innovating to better serve the Bay Area. Learn more at CalMod.org and stay in touch with us on social media!

Postcard

Key Regional Benefits 2040

- Greenhouse gases (annual): 176,000 metric tons
- Diesel to electric: 5.5 million revenue miles
- Lower fuel costs: $4.5 million
- Traffic congestion savings: $19.6 million
- 21% increase in passenger comfort
- $2.5 billion economic benefits
- More service, more frequent faster trips

For more information:
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FACETIMe: info@calmod.com

Public Meeting

CalMod.org
PUBLIC OUTREACH

• Subscribe to Weekly Updates
  – Visit www.calmod.org/get-involved
• Social Media
• Construction Outreach Office
WHAT’S NEXT

• Caltrain Business Plan
  – Caltrain2040.org
• High-Speed Rail Blended System
  – hsr.ca.gov
• Caltrain Downtown Extension
  – sfcta.org/transbay-transit-center
• Diridon Concept Plan
  – DiridonSJ.org
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