## Project Description

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

MILESTONES

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

+Electrification Infrastructure Construction+

+Final System Testing+


*Please keep in mind that testing and construction will overlap as each Segment will be tested individually, prior to final system testing.*

Note: Schedule Subject to Change
Photo simulation from east platform facing north.
Palo Alto Station

Photo simulation from west platform facing south
Center Poles Typical

Pole heights range from 30-45.5’
Side Poles at Platform Typical

Pole heights range from 30-45.5'
65% Design Drawings. Subject to change.
Palo Alto Station

65% Design Drawings. Subject to change.
Palo Alto Station Pole Color Recommendation

- Seeking ARB/HRB recommendation on Station Area Pole Color
Stanford Station

Photo simulation from Alma Street facing north
Side Poles at Platform Typical

Pole heights range from 30-45.5'
Stanford Station

65% Design Drawings. Subject to change.
### Stanford Station Pole Color Recommendation

*Table showing color options and codes for different locations.*

- **Seeking ARB/HRB recommendation on Station Area Pole Color**

```plaintext
<table>
<thead>
<tr>
<th>Location</th>
<th>Municipality</th>
<th>Mile Post</th>
<th>Existing Pole Color</th>
<th>Existing Furniture Color</th>
<th>Shelter Color</th>
<th>Option 1 Color</th>
<th>Option 2 Color</th>
<th>Option 3 Color</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palo Alto</td>
<td>Palo Alto</td>
<td>30.00-30.2</td>
<td>grey</td>
<td>brown</td>
<td>n/a</td>
<td>color FS 23522</td>
<td>color FS 36495</td>
<td>color FS 30032</td>
<td>Option 1 to match the color of the structure ( historic RR Sta recomm.), 2 to match poles, 3 to match furniture</td>
</tr>
<tr>
<td>California</td>
<td>Palo Alto</td>
<td>31.80</td>
<td>black</td>
<td>black/brown</td>
<td>black</td>
<td>color FS 27040</td>
<td>color FS 30032</td>
<td>color FS 14052</td>
<td>Option 1 to match poles and shelters</td>
</tr>
<tr>
<td>Stanford Stadium</td>
<td>Palo Alto</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>color FS 14052</td>
<td>color FS 14052</td>
<td>color FS 14052</td>
<td>Assumed Marine Green to match stated environmentally sensitive standard</td>
</tr>
</tbody>
</table>
```

- **Notes:** Option 1 is the visually dominant color; Option 2 is the secondary color; Option 3 is the least dominant color or defaults to FS 14052, the standard color for sensitive areas.
California Avenue Station

Photo simulation from west platform facing south
Side Poles at Platform Typical

Pole heights range from 30-45.5'
California Avenue Station

65% Design Drawings. Subject to change.
California Avenue Station

65% Design Drawings. Subject to change.
California Avenue Pole Color Recommendation

- Seeking ARB/HRB recommendation on Station Area Pole Color
Additional Pole Types

Portals

Two Track Cantilever

Note: Poles outside station areas will be painted Marine Green in Palo Alto
Traction Power Facilities

• 10 Traction Power Facilities Installed throughout Corridor
  – 1 Paralleling Station installed in Palo Alto

• Facility Components
  – Transformer
  – Gantries (up to 50’)
  – Control House

• Provides electrical power to trains through the Overhead Contact System

• Unmanned, secure, lighted facility
Paralleling Station 5

- Located south of Page Mill Road on Caltrain Property
  - Coordination with City on location during EIR
- Vegetation Screening will be implemented with review and input from City Staff
- Control House Color to be selected by City
Paralleling Station 5 Location

Based on 35% Drawings. Subject to Change.
Transformer Example

Amtrak’s North End Electrification
**PS-5 Control House Color Recommendations**

- Seeking ARB/HRB recommendation on Control House Color

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Context</th>
<th>Screening</th>
<th>BLM Color (Three Options)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palo Alto</td>
<td>X</td>
<td>X</td>
<td><strong>Caressa Canyon</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Covert Green</strong></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Shadow Green</strong></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Shale Green</strong></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Sudan Brown</strong></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Beetle</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Yuma Green</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Carob Brown</strong></td>
</tr>
</tbody>
</table>

Notes: Adjacent to rear of commercial office.
CALMOD CONTACT INFORMATION

WEBSITE  CalMod.org

EMAIL  CalMod@caltrain.com

PHONE  650-399-9659
       800-660-4287 (Toll Free)

OFFICE  2121 S. El Camino, Suite A-100
        San Mateo, CA 94403
        9 a.m. - 5 p.m. Monday - Friday

FACEBOOK  www.facebook.com/caltrain
TWITTER  @caltrain
Aesthetics Mitigation Measures

- AES-2b Goal: Help soften visual intrusion of project elements upon landscape, especially in areas of high use
  - Poles:
    - Coordinate with local jurisdiction on poles within station areas
    - No unpainted metal surfaces
  - Traction Power Facilities:
    - Coordinate with local jurisdiction on control house color and vegetation screening at sensitive TPF sites
    - Features to be colored or painted two to three shades darker than general surrounding area
    - Light or bright colors will be avoided
Wide Flange Detail
Taper Tubular Detail

POLE ELEVATION

POLE LENGTH — SEE BILL OF MATERIALS TABLE

POLE BOLTED TO FOUNDATION

SECTION

PART NO. 1

SECTION

PART NO. 2

SECTION

PART NO. 3

SECTION

PART NO. 4

SECTION

PART NO. 5

SECTION

PART NO. 6
Two Track Detail

TWO-TRACK CANTILEVER STRUCTURE
Additional Pole Types
Poles Types

TT = Taper Tubular
WF = Wide Flange
SQ = Square
Single Side Poles

TYPICAL CANTILEVER OPEN ROUTE
Center Poles at Station

TYPICAL STATION CROSS SECTION
CENTER PLATFORM POLE