Electric Train Design & Public Input
Peninsula Corridor Electrification Project
Electric Train Outreach: Phased

• 2016 Capacity Board Decision (bike to seat ratio, onboard bathrooms, upper doors)

• 2017 Design Progressing, Additional Public Input (bike storage, seat colors, signage content, etc.)

• 2018 Virtual Reality 360 Tour
EMU Onboard Bike Storage Outreach

• Flyers for bike car and events
• Earned Media (e.g. SF Examiner, Channel 7, SV Biz Journal, StreetsBlog)
• Public Poll and Station/Event Outreach: August 8 to September 1
• Social Media
  – Twitter: 273,282 impressions / 4,830 engagements
  – FB: 34,430 reached / 2,942 Clicks / 1,956 video views
EMU Onboard Bike Storage

Folding Bikes
- Seats cantilevered
- Can fit certain models (e.g. Brompton 23” x 22.2” x 10.6”) under seats
Congruent Bike Effort
Bike Parking Management Plan

- Identify the mobility needs of bicyclists using the Caltrain system.
- Define customer service and financial performance measures and goals for Caltrain’s bike parking system.
- Support capital planning activities related to current, planned, and contemplated bike parking facilities.
- Analyze different management strategies and administrative options to improve the performance of Caltrain’s bike parking system.
- Recommend a set of management and administrative reforms and implementation strategies to optimize the performance of Caltrain’s bike parking system.
EMU ADA Restroom Outreach

• Caltrain Accessibility Advisory Committee (CAAC) toured EMU Restroom Mock-up, feedback gathered: April 2017
• Feedback incorporated into design: Summer 2017
• Additional input, CAAC Meeting: September 2017
• Final design refinement: Fall 2017
Labeling will include:

- Raised lettering in red text
- English with Braille translation
- Glow in the dark material
Restroom Feedback
Incorporated

Labels indicating
• Transfer bench
• Soap versus water
• Emergency buttons
Restroom Feedback Incorporated

- Horizontal Grab Bar: increased space from toilet
- Vertical Grab Bars on either side of the toilet
- Shelf for leverage next to toilet
Lockable toilet paper dispenser flush with cabinet, no hard corners or edges

Interior door lock operated by a lever, rather than a button
Coat/Bag Hooks

- Flush to wall
- Pull down feature
- Better depth

ADA compliant baby changing table

- Height less than 34”
- Industry proven design
Wheelchair access to baby changing table

Black strap installed to allow for easier access to baby changing table
Restroom Feedback Incorporated

- Two emergency buttons
- Easily accessible from the toilet or floor
Construction Update

Peninsula Corridor Electrification Project
## Electrification - Infrastructure

<table>
<thead>
<tr>
<th>Category</th>
<th>Status and Details</th>
</tr>
</thead>
</table>
| **Design Build Contract**         | • Advanced Issued for Construction (IFC) Overhead Contact System (OCS) layout design in Segment 2 work areas 5 and 4  
                                      • Continued advancement of OCS layout in rest of Segment 2  
                                      • Design review coordination with local jurisdictions  
                                      • 65% location-specific and typical signal design  
                                      • Advanced typical 95% communication system and traction power system designs |
| **Tunnel Modifications**          | • 100% Plans and Specifications submitted for Engineer review  
                                      • 100% Plans and Specifications submitted to UPRR for review |
| **Centralized Equipment Maintenance and Operations Facility (CEMOF)** | • Build out concepts being evaluated |
# Field Work Status

| Work Completed to Date | • Utility Survey  
|                       | • Geotechnical Investigations  
|                       | • Soil Resistivity Testing  
|                       | • Site Surveys  
|                       | • Disposal of Soil from Geotechnical Investigations  
|                       | • Signal Cable Inspections  
| Work In Progress and Upcoming | • OCS Foundation Potholing  
|                            | • Signal Cable Potholing  
|                            | • Tree Pruning and Removal  
|                            | • OCS test piles  
|                            | • Stray current testing  
|                            | • Set up and preparation of staging areas  
|                            | • OCS Foundation Construction  
| Future Work | • Overhead Utility Relocation  
|            | • OCS Pole Installation  
|            | • OCS Wire Installation  
|            | • TPS site work |
Foundation Work

- Excavation
- Rebar and Anchor Installation
- Electrical Grounding
- Concrete Fill
- Foundation work within the South San Francisco Station area will be completed by SSF Station Improvement Project
- Foundation work within 25\textsuperscript{th} Ave. Grade Separation will be completed by the 25\textsuperscript{th} Ave. Grade Sep project
- Foundations for San Bruno Station area were installed as part of the San Bruno Grade Separation
Pole Foundation Work

Will take place on and off track

Above: DrillTech on track foundation train

Right: Drilltech off-track OCS Drill Rig
Pole Installation

On/off-track crane for installation

Wide flange & square poles*

Foundation Rebar Cage
OCS Wire Installation

Will take place on-track
Construction Impacts

• Daytime work and night work from 8 p.m. - 6 a.m.
• Some 24 hour weekend work
• Crews will utilize acoustical barrier blankets and position lights away from homes
• Dedicated hotline for construction complaints
Ongoing Public Outreach

• Weekly Updates
  – Visit caltrain.com/pcepconstruction
• Pre-Construction Community Meetings
  – Past: San Mateo - September 13
  – Upcoming: San Carlos and Belmont - October 11
• Construction Outreach Office, M-F, 9:00 am to 6:00 pm
# Construction Contact Information

<table>
<thead>
<tr>
<th>Email: <strong><a href="mailto:calmod@caltrain.com">calmod@caltrain.com</a></strong></th>
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</thead>
<tbody>
<tr>
<td>Phone: 650.399.9659</td>
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<tr>
<td>Toll Free: 800.660.4287</td>
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<table>
<thead>
<tr>
<th>2121 S. El Camino Real, Suite A-100</th>
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<tbody>
<tr>
<td>San Mateo, CA 94403</td>
</tr>
<tr>
<td>9 a.m. - 6 p.m. Monday-Friday</td>
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</tbody>
</table>

www.caltrain.com/pcepconstruction
Schedule

Env. Clearance (Jan)

LNTP (Sept)

NTP (June)

First Train Set Delivered

Electrification Infrastructure Construction

Final System Testing

Rollout First Passenger Service with Electric Trains


Note: Schedule Subject to Change
Discussion