





Aging Fleet

SERIES	QUANTITY	NUMBER OF SEATS	YEAR OF MANUFACTURE	MAKE	RETIRE DATE
Locamotives					
F40 PH-2	5	na	1985	GM - EMD	2015
F40PH-2-CAT	15	na	1985-1987	GM - EMD	2015-2017
F40 PH-2C	3	na	1998	Boise Locomotive	2028
MP36PH-3C	6	na	2003	Motive Power	2033
Passenger Cars					
Gallery Trailer	26	142	1985-1987	Nippon Sharyo	2015-2017
Gallery Trailer	16	148	1985-1987	Nippon Sharyo	2015-2017
Gallery Trailer	14	120	1999-2000	Nippon Sharyo	2030
Gallery Cab (Bike)	10	108	1985-1987	Nippon Sharyo	2015-2017
Gallery Cab (Bike)	6	78	1999-2000	Nippon Sharyo	2030
Gallery Cab (Bike)	21	97	1985	Nippon Sharyo	2015
Bi-Level Trailer*	16	149	1997	Bombardier	2027
Bi-Level Trailer	9	144	2002	Bombardier	2032
Bi-level Trailer (Bike)	2	114	2002	Bombardier	2032
Bi-level Trailer (Bike)	5	114	2001-2002	Bombardier	2031-2032
Bi-level Trailer (Bike)	2	114	2008	Bombardier	2038
Bi-level Trailer (Bike)	1	127	2002	Bombardier	2032
Bi-Level Trailer	6	140	2008	Bombardier	2038







Regional Transportation Needs

- US 101 and Interstate 280 Congested
- Corridor supports growing economy
 - 14% CA GDP; 52% CA patents; 20% CA tax revenue
- Caltrain Commuter Coalition (formed 2014)
 - 75% Caltrain rider's commute to work; 60% choice riders









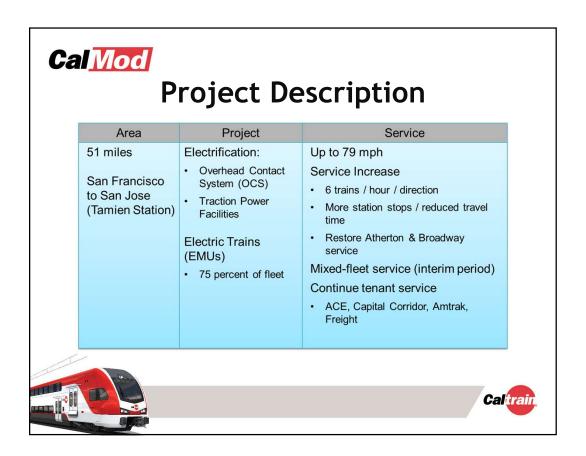


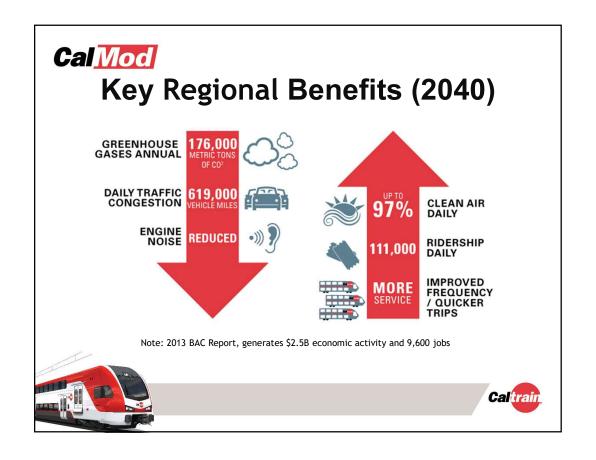


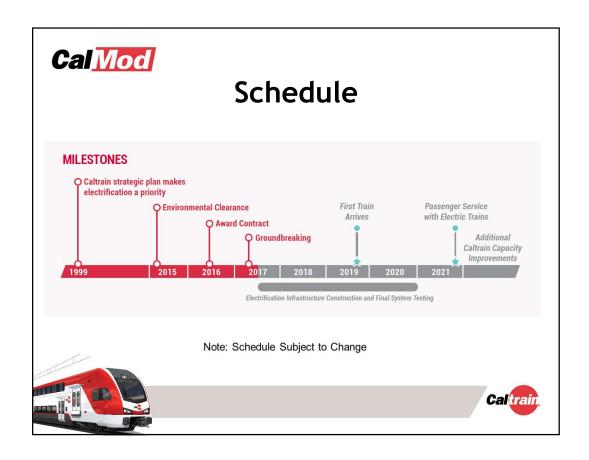
















Electric Train Outreach: Phased

- 2016 Capacity Board Decision (bike to seat ratio, onboard bathrooms, upper doors)
- 2017 Design Progressing, Additional Public Input
 - Past: Exterior design and Seat colors
 - · Upcoming: Bike Storage and signage content
 - 2018 Virtual Reality 360 Tour

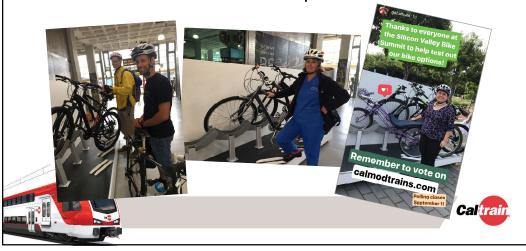




Cal Mod

EMU Onboard Bike Storage Outreach

- Public Poll from August 8 to September 1
- Station Outreach with Samples





EMU Bike Outreach Events

Date	Time	Event
August 8	9:00 a.m 6:00 p.m.	Silicon Valley Bike Summit Mt. View
August 9 & 10	7:30 a.m 7:00 p.m.	4 th & King Station outreach
August 14	4:30 p.m 6:30 p.m.	Redwood City Station outreach
August 15	4:30 p.m 7:00 p.m.	Palo Alto Station outreach
August 16	5:30 p.m 8:00 p.m.	Menlo Park Block Party
August 22 to Sept. 1	9:00 a.m 6:00 p.m. Monday through Friday	Project Outreach Office 2121 S. El Camino, San Mateo
August 24	5:45 p.m.	Bicycle Advisory Committee







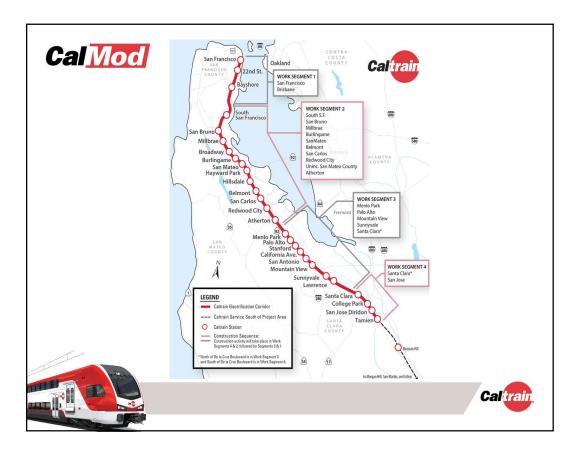
Next Steps

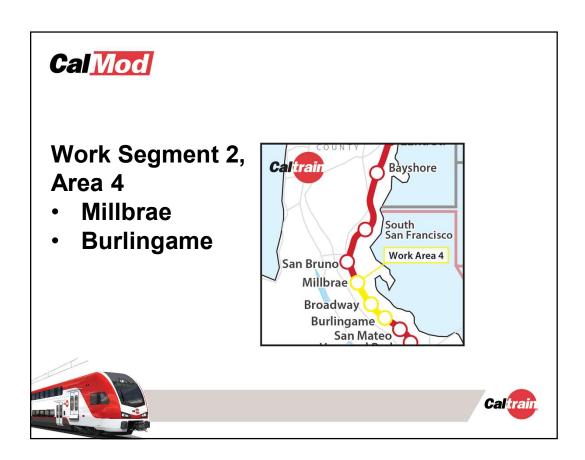
- Capture feedback on design elements
- Continue rollout of key design features for public input and education
 - Onboard Bike Storage Designs: Occurring Now
 - Interior Destination Sign Content: Fall 2017
- Public feedback paired with technical analysis
- Virtual Reality Tour: 2018

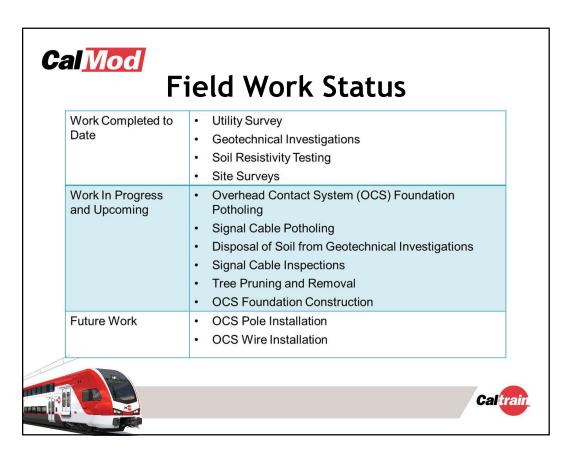


Cal train











Potholing













Future Construction Activities

Millbrae and Burlingame

Date	Work Activity	Expected Duration
Late Summer/ Fall 2017	Tree Pruning/Removal	2 months
Winter 2017 / Early 2018	Foundation Construction	3-5 months
Summer 2018	Traction Power Substation (Burlingame only)	1 year
Mid-2018	OCS Pole and Wire Installation	3 months

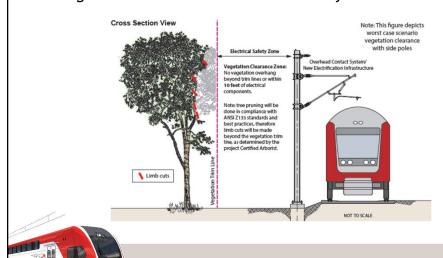


Caltrain



Tree Pruning and Replacement

· Vegetation cleared for Electrical Safety Zone







Tree Pruning and Replacement

JPB Property

• 1:1 replacement for any non-riparian tree in JPB right-of-way (ROW)

Public or Private Property

- 1:1 / 2:1 City/County replacement ratio for trees being removed on public or private property
 - Millbrae: A replacement ration of 1:1 is used for all trees
 - Burlingame: A replacement ratio of 2:1 is used for protected-trees and 1:1 for non-Protected trees
- 1:1 replacement for any tree pruned over 25%*

Environmental Permit Requirements

- 6:1 replacement for any riparian oaks removed
- 3:1 replacement for any other native riparian species removed
- 1:1 replacement for any non-native riparian species removed

*Trees pruned over 25% will remain in place and will not be removed. A replacement tree will also be planted. Also applies to environmental permits.





Millbrae: Tree Pruning and Replacement Plan

Caltrain Right of Way - Private Property

Millbrae	Trees Impacted	Replacement Ratio	Replacement Trees	
JPB ROW Caltrain Right of Way				
Tree Removed	9 / 2	1:1 / 6:1*	9 / 12	
Tree Pruned >25%	6	1:1	6	
Tree Pruned <25%	0	n/a	n/a	
Private Property				
Tree Removed	0	1:1	0	
Tree Pruned >25%	0	1:1	0	
Tree Pruned <25%	0	n/a	n/a	

*6:1 replacement for any riparian trees removed Note: Information may change as the design progresses





Millbrae: Tree Pruning and Replacement Plan

Public Property

Millbrae	Trees Impacted	Replacement Ratio	Replacement Trees	
Public Property (SFPUC)				
Tree Removed	0	1:1	0	
Tree Pruned >25%	3	1:1	3	
Tree Pruned <25%	18	n/a	n/a	

Note: Information may change as the design progresses $\label{eq:change_progresses}$





Burlingame: Tree Pruning and Replacement Plan

Caltrain Right of Way - Private Property

Burlingame	Trees Impacted	Replacement Ratio	Replacement Trees	
Caltrain Right of Way				
Tree Removed	10 / 1	1:1 / 6:1*	10 / 6	
Tree Pruned >25%	15	1:1	15	
Tree Pruned <25%	128	n/a	n/a	
Private Property				
Tree Removed	0	2:1 / 1:1	0	
Tree Pruned >25%	0	1:1	0	
Tree Pruned <25%	0	n/a	n/a	

* 6:1 replacement for any riparian trees removed

Note: Information may change as the design progresses





Burlingame: Tree Pruning and Replacement Plan

Public Property

Burlingame	Trees Impacted	Replacement Ratio	Replacement Trees	
Public Property (SFPUC)				
Tree Removed	0	1:1	0	
Tree Pruned >25%	0	1:1	0	
Tree Pruned <25%	1	n/a	n/a	

Note: Information may change as the design progresses





Foundation Work

- Excavation
- Rebar and Anchor Installation
- Electrical Grounding
- Concrete Fill





Cal Mod

Pole Foundation Work

Will take place on and off track



DrillTech on track foundation train



DrillTech off-track OCS Drill Rig







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





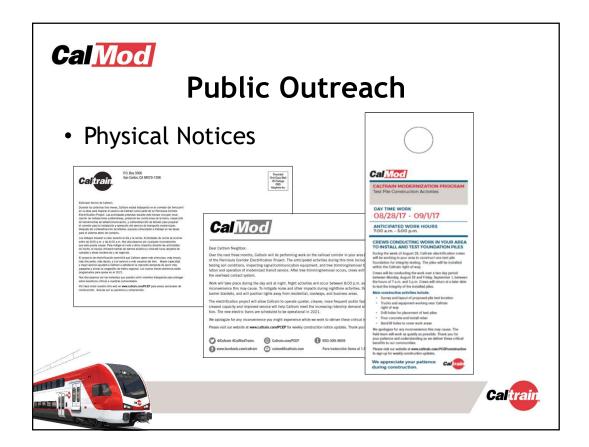


Public Outreach

- Subscribe to Weekly Updates
 - Visit caltrain.com/pcepconstruction
- Additional Community Meetings
 - Pole and Wire Installation
- Construction Outreach Office



Caltrain





Construction Contact Information

Email: calmod@caltrain.com

Phone: 650.399.9659 Toll Free: 800.660.4287

2121 S. El Camino Real, Suite A-100 San Mateo, CA 94403 9 a.m. - 6 p.m. Monday-Friday

www.caltrain.com/pcepconstruction



