





April 7, 2022

Agenda Item #8f

Project Overview



Project Overview

- San Francisco to San Jose (Tamien Station)
- 51 miles
- Project Cost: \$2.44B
- Revenue Service: fall 2024



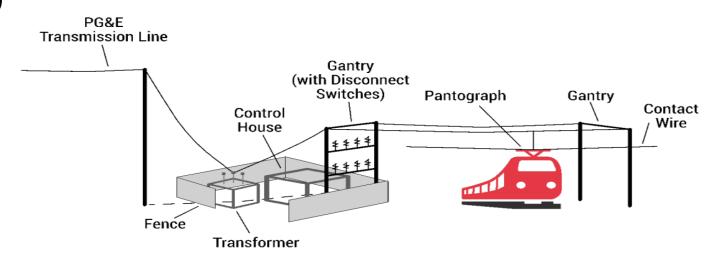


Project Elements

Electrification

- Overhead Contact System (OCS)
- Traction Power Facilities
- Signal System
- Electric Trains
 - 19 7-car train sets (133 cars)
 - 75% replacement diesel fleet

(Note: 96 cars funded by project; 37 cars funded by State TIRCP)





Project Benefits



Project Highlights



Project Highlights

- No change to revenue service date Fall 2024
- Construction progress
 - All foundation work complete
 - TPS-2 commissioning of 115kV #2 circuit breaker complete
- Segment 2 Signal work rescheduled to May
- Close monitoring of signal installation, testing and system risks
 - Close coordination with PG&E



Project Highlights, cont.

- No change to project budget \$2.44B
 - No draw from project contingency, incentive pool
 - Total \$195,000 drawn from shared risk pool (as of March 23, 2022)
 - ProVen claims resolution JPB Approval
 - ICAP reevaluation / FTA and CHSRA review
- BBII/JPB additional resources in place and partnering efforts continue
- Finalizing FTA and CHSRA on Recovery/Remediation Plan
- State and federal funding advocacy continues



Key Milestones

Item	Date	
Finalize Recovery / Remediation Plan	March 2022	
Arrival of First Two Trainsets	March 20, 2022	
Major Signal System Cutovers in Segment 2	May 2022	
Energization of Segment 4	June 2022	
Completion of Segment 4	June 2022	



Arrival of First Two Trainsets

• Two seven-car trainsets arrived on JPB Property on March 20th via rail.



Safety and Security

Time Period	Reportable Injury Rate
January 1, 2022 to February 28, 2022	0
Since Project Start (2017)	1.71

Note: National Average Reportable Injury Rate is 2.50

Reportable Injury Rate as of February 28, 2022

March 10, 2022 incident reported. Under investigation by National Transportation Safety Board.
 Note: Project Team and the Contractor are currently performing time impact analysis to determine potential impact to Project Schedule due to the temporary suspension of work after the incident.

Construction Update



Construction Segments



Overhead Contact System

Component	Segment	This month Progress	Last Month	
Foundations (3,092 total)	Segments 4, 3, 2, 1	Complete		
Poles (2,587 total)	Segments 4 / 3	Complete		
	Segments 2 / 1	621 remaining	722 remaining	
Wire (1.5M linear feet	Segments 4 / 3	Complete		
total)	Segments 2 / 1	571K remaining 571K remaining		





Traction Power Facilities

Component	This Month Progress	Last Month
Traction Power Facilities (10 total)	85%	83%

- Work remaining energization, commissioning, testing
- Anticipated completion fall 2022



Signal System and Communication

- 2 Speed Check
 - Segment 4
 - Complete "punch list"
 - Segment 2
 - Major cutover reschedule to May (temporary service schedule: May 2 to May 20)
 - 17 grade crossings in Burlingame and San Mateo
 - Anticipated completion November 2022
 - Segments 1 and 3 work remaining
- Crossing Optimization Project work on-going



Temporary Service Schedule

- Temporary train schedule May 2 to May 20
- No change: Mid-day, evening, and weekend schedules
- Overall service reduction from 104 to 88 trains/weekday
 - Peak service reduction from 4 to 3 limited trains/hour/direction
 - No local service during peak hours
 - Suspended Baby Bullet service
- Trains single-track at Broadway, Burlingame, San Mateo, Hayward Park and Hillsdale stations

Customer Outreach

- Landing page
- Organic social
 (Twitter, FB, IG, Nextdoor, Tiktok)
- Paid digital and print ads
- Station ambassadors
- Email blasts
- Mobile app alerts

- Visual messaging signage at stations
- Onboard and station announcements
- Press release
- Amplify message via elected officials, cities, counties
- Updates to key stakeholders, business groups
- 50% off fare promotion for month of April

50% off Fares in April

- April Monthly Pass
- Day Pass
- One-Way
- Zone Upgrades
- Good for Eligible Discounts on Youth and Seniors
- Significant marketing campaign
 - Featured on: CBS local, NBC Bay Area, ABC 7, KTSF,
 Telemundo, SM Daily Journal, Climate RWC
- Does not apply to the Go Pass
- More information: Caltrain.com/50percentoff





Electric Trains

- First two trainsets arrived March 20, 2022
- Trainsets arrive every 2-3 months, 2 per shipment
- 14th trainset anticipated arrival fall 2023
- 19th trainset anticipated arrival fall 2024



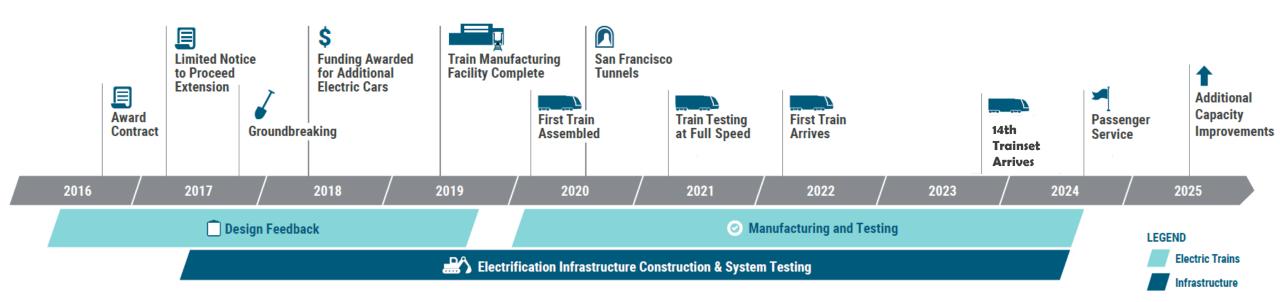


Program Management



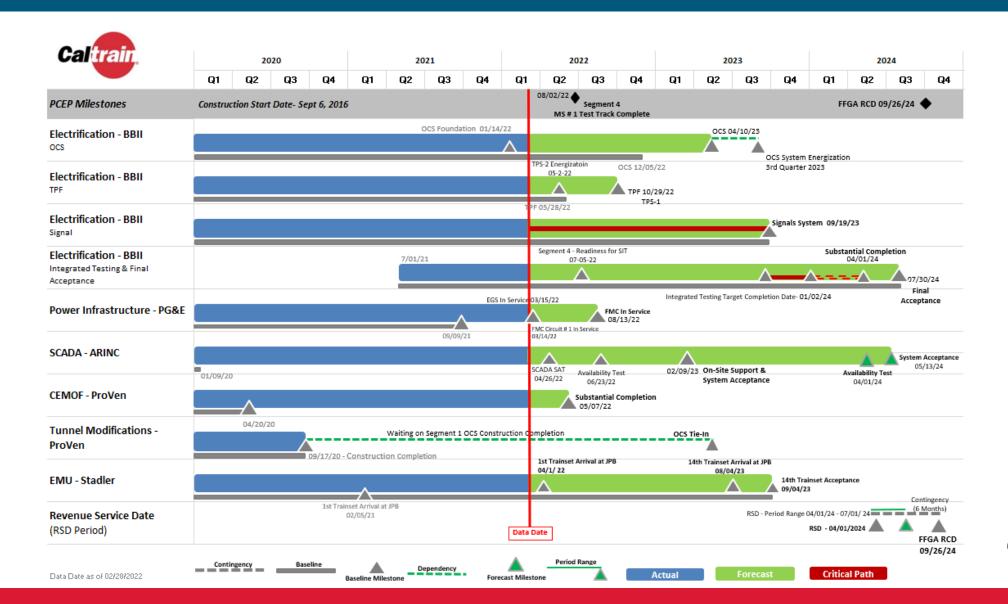
Program Master Schedule

Revenue Service Fall 2024



Program Master Schedule Detail

Revenue Service Fall 2024





Top Risks

Risk		Mitigation
Late completion of Signal Phase Study (SPS to Segment 4 OCS/TPS Commissioning and	EMU testing	Technical team meetings with PG&E weekly to expedite modeling effort for SPS. Caltrain and PG&E Executives meetings weekly to monitor progress. Additional Resources added to expedite the effort, SPS to be completed by the end of April
Late execution of PG&E Transmission Opera Agreement impact to Segment 4 energization		Technical team and management to expedite documentation reviews.
Delay of Signal (2SC) cutovers		Segment 2 Signal (2SC) cutover moved to May. Developed and monitor each segment cutover dashboard including design submittal, site issues time.
\$410M state/federal funding plan		Funding team has identified federal and state grant opportunities to pursue. Targeted advocacy is ongoing.
Contractor field resources and equipment ava	ailability	Schedule / resources workshop with contractor. Identifying areas of concern and solutions.
Caltrain resources for project acceptance, op maintenance	erations and	Organization and specialized staff plan development.

Green = Mitigations/actions identified and no impact to budget/schedule

Yellow = Mitigations/actions identified and potential impact to budget/schedule

Red = Impact to budget/schedule



Program Budget

Description of Work	Current Budget (1)	Cost for Month (2)	Cost to Date (3)	Estimate to Complete	Project Total
Electrification	\$1,749,139,438	\$96,222,702	\$1,268,777,686	\$480,361,752	\$1,749,139,438
EMU	\$693,551,258	\$5,721,249	\$339,358,475	\$354,192,783	\$693,551,258
Program Total	\$2,442,690,697	\$101,943,951	\$1,608,136,161	\$834,554,535	\$2,442,690,697

Notes:

- 1 "Current Budget" includes executed change orders and awarded contracts
- 2 "Cost This Month" represents cost of work performed February 2022
- 3 "Cost To Date" includes actuals (amount paid) and accruals (amount of work performed) as of February 2022



Program Budget Details

	(B)	(C)	(D)	(E)	(F) = (D) + (E)
Description of Work	Re-Baseline Budget	Cost This Month	Cost To Date	Estimate To Complete	Estimate At Completion
Electrification	\$1,097,149,881	\$81,536,273	\$731,661,742	\$365,488,139	\$1,097,149,881
EMU Procurement	\$556,072,601	\$4,753,440	\$268,148,445	\$287,924,156	\$556,072,601
Minor Construction Contracts (SSF, 25th Grade, Tunnel, CEMOF, SCADA, Non-BBI OCS)	\$67,055,072	\$162,835	\$56,623,455	\$10,431,617	\$67,055,072
Real Estate Acquisition & Support	\$34,914,177	\$44,475	\$23,578,527	\$11,335,650	\$34,914,177
PG&E, Utilities	\$132,088,995	\$8,300,773	\$191,226,398	-\$59,137,404	\$132,088,995
Management Oversight & Support	\$312,699,697	\$2,113,908	\$231,674,042	\$81,025,655	\$312,699,697
TASI Support	\$114,488,767	\$1,612,645	\$73,170,962	\$41,317,805	\$114,488,767
Finance Charges	\$9,898,638	\$17,550	\$7,850,977	\$2,047,661	\$9,898,638
Insurance	\$6,581,851	\$0	\$4,581,851	\$2,000,000	\$6,581,851
Other Required Projects & Services	\$9,084,176	\$0	\$2,454,860	\$6,629,316	\$9,084,176
Environmental Mitigation	\$14,438,866	\$25,427	\$1,140,580	\$13,298,286	\$14,438,866
Caltrain Capital Overhead (ICAP)	\$48,217,887	\$3,376,625	\$16,024,322	\$32,193,565	\$48,217,887
Contingency (allocated and unallocated)	\$40,000,089	\$0	\$0	\$40,000,089	\$40,000,089
Total	\$2,442,690,697	\$101,943,951	\$1,608,136,161	\$834,554,535	\$2,442,690,697

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Contingency, Risk and Incentive Details

	Project Contingency	BBII Shared Risk Pool	BBII Incentive Pool*	Total
Baseline Amount	\$40.0M	\$50.0M	\$18.5M	\$108.5M
as of 12/6/21				
Usage / Add	(\$0.0M)	(\$0.194M)	(\$0.0M)	(\$.194M)
through 3/25/22				
Remaining Balance	\$40.0M	\$49.81M	\$18.5M	\$108.306M

Notes: *Total incentive includes carryover from original budget and \$15M from BBII global settlement

Funding Update

\$410M State / Federal funding (\$200M needed by June 2023 for cashflow)

Federal Targets

- Advocate for infrastructure funding for FFGA projects (FTA)
- Advocate for State Partnership for Intercity Rail grant program in partnership with HSR (FRA)
- MTC adopted strategy that is consistent with these efforts
- Seek "Community Project" funding opportunities

State Targets

- Advocate for "TIRCP Augmentation" funding through State budget process (MTC supportive)
- AB 2197 (Mullin) for \$260M project funding effort directed to state budget process
- Assess CTC Solutions for Congested Corridors Program for eligibility and competitiveness



Upcoming Board Actions

No upcoming Board Actions

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