

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
2150 Webster Street, P. O. Box 12688, Oakland, CA 94604-2688

NOTICE OF MEETING AND AGENDA
BOND OVERSIGHT COMMITTEE

Friday, January 19, 2024
9:30 a.m. – 12:00 p.m.

COMMITTEE MEMBERS: Michael McGill, Cindy Simon Rosenthal, Vinit Shrawagi, Sonja C. Stewart, Janey Wang, Suzanne Loosen

A Meeting of the Bond Oversight Committee will be held on Friday, January 19, 2024, at 9:30 a.m. in the BART Board Room, 2150 Webster Street, 1st Floor, Oakland, California 94612.

This will be an In-Person Meeting in the BART Board Room, 2150 Webster Street, 1st Floor, Oakland, California 94612 with an option for public participation via teleconference.

Presentation materials will be available via Legistar at <https://bart.legistar.com>

You may attend the Committee Meeting in person or join the Committee Meeting via Zoom by calling 1 (833) 548-0282 and entering **access code** 852 2185 4266; logging in to Zoom.com and entering **access code** 852 2185 4266; or typing the following Zoom link into your web browser:
(<https://us06web.zoom.us/j/85221854266>)

If you wish to make a public comment:

1. Submit written comments via email to cfilipp@bart.gov, using “public comment” as the subject line. Your comment will be read into the record and will become a permanent part of the file. Please submit your comments as far in advance as possible. Emailed comments must be received before 9:00 a.m. of the day of the Committee meeting in order to be included in the record.
2. Appear in person and request to make a public comment.
3. **Call** 1 (833) 548-0282, enter **access code** 852 2185 4266, dial *9 to raise your hand when you wish to speak, and dial *6 to unmute when you are requested to speak; log in to Zoom.com, enter **access code** 852 2185 4266, and use the raise hand feature; or join the Committee Meeting via the Zoom link (<https://us06web.zoom.us/j/85221854266>) and use the raise hand feature.

Public comment is limited to three (3) minutes per person. If public comment is by phone, your phone will be muted until you are called upon.

AGENDA

1. **Call to Order** (9:30 am – 9:35 am)
 - A. Roll Call
2. **Public Comment** (9:35 am – 9:40 am)
3. **Administrative Items**
 - A. **Meeting Minutes: September 15, 2023** (For Discussion/Action 9:40 am – 9:45 am)
 - B. **Announcement on Membership of Bond Oversight Committee and Subcommittees**

1. Resignation from Bond Oversight Committee and as Chair of Deep Dive Ad Hoc Subcommittee (For Discussion/Action – 9:45 am – 9:50 am)
 2. Appointment of Chair for Deep Dive Ad Hoc Subcommittee (For Discussion/Action 9:50 am – 9:55 am)
- C. **Staff Practice to Track/Follow Up on Public Comments** (For Information Only 9:55 am – 10:00 am)
4. **2024 Annual Report Draft Outline Presentation**
 - A. Draft Outline Presentation (For Discussion 10:00 am – 10:10 am)
 1. Q&A (10:10 am – 10:15 am)
 - B. Public Outreach: Initial List of Stakeholder Groups Staff Reached Out to by Demographic Type (For Discussion 10:15 am – 10:20 am)
 1. Q&A (10:20 am – 10:25 am)
5. **Measure RR (BART Safety, Reliability and Traffic Relief Program)**

NOTES TO PRESENTERS: Please put your name/title of the section slides.

 - A. Annual View (For Discussion 10:25 am – 10:35 am)
 1. Q&A (10:35 am – 10:40 am)
 - B. Financial Overview Update (For Discussion 10:40 am – 10:45 am)
 1. Q&A (10:45 am – 10:50 am)
 - C. **10 MINUTE BREAK**
 - D. Small Business Outreach (For Discussion 11:00 am – 11:05 am)
 1. Q&A (11:05 am – 11:15 am)
 - E. Measure RR Staff Organizational Chart (For Information 11:15 am – 11:20 am)
 - F. Appendix: Financial Outlook, Program Status & Milestones
 1. Q&A (For Discussion - 11:20 am – 11:30 am)
6. **Programmatic Informational Deep Dive Ad Hoc Subcommittee Update** (For Discussion 11:30 am – 11:40 am)
7. **Future Agenda Items & Questions/Committee Member Announcements** (For Discussion 11:40 am – 11:45 am)
8. **Public Comment** (11:45 am – 11:50 am)
9. **30 Minute Break** (11:50 am – 12:15 pm)
10. **AB1234 Training for Chair McGill, Vice Chair Rosenthal, Members Loosen and Wang** (12:15 pm to 2:15 pm)
11. **Adjournment**

BART provides services/accommodations upon request to persons with disabilities and individuals who are limited English proficient who wish to address Committee matters. A request must be made within one and five days in advance of Board/Committee meetings, depending on the service requested. Please contact the Office of the District Secretary at (510) 464-6083 for information.



San Francisco Bay Area Rapid Transit District

Measure RR Program

BART Bond Oversight Committee

Friday, September 15, 2023

9:30 AM – 12:00 PM

Draft Minutes

MEETING NUMBER	MEETING DATE	MEETING TIME
Term 5, Meeting 1	Friday, September 15, 2023	9:30 am – 12:00 pm
	Committee Members Michael McGill, Chair Cindy Rosenthal, Vice Chair Daren Gee Suzanne Loosen Vinit Shrawagi Sonja C. Stewart Janey Wang	

Agenda Item	Meeting Notes
1. Call to Order	
A. Roll Call	Cindy Simon Rosenthal absent. All other members present.
2. General Public Comment	Cato Institute Policy Analyst Marc Joffe addresses the committee in person. Says Link 21 is unnecessary to address overcrowding; urges committee to investigate need for project. Written comment from Shayla Bohanan. Writes more people would use the Pittsburg transfer station if the parking lot was closer to the entrance.
3. Administrative Items	
A. Meeting Minutes: June 16, 2023	Vice Chair Daren Gee wants to fix typo on page 1 and moves approval. Vinit Shrawagi seconds. Approved with Chair Michael McGill, Gee, Shrawagi, Sonja Stewart, and Janey Wang in favor. Suzanne Loosen abstains. Rosenthal absent.

B. Approval of Meeting Schedule	Schedule of meetings for January 19, 2024, April 19, 2024, June 21, 2024, January 17, 2025, April 18 2025, and June 20 2025 approved unanimously with Rosenthal absent.
C. AB 1234 Ethics Training	Rosenthal joins meeting. Committee members are told they must do AB 1234 ethics training every 2 years. Loosen, McGill, and Rosenthal say they need to undergo the training.
D. Vote on Committee Chair and Vice Chair	Gee nominates Chair McGill for another term. Seconded by Stewart. Approved unanimously. Gee nominates Rosenthal for Vice Chair. Seconded by Shrawagi. Approved unanimously.
E. Vote to Establish Programmatic Informational Deep Dive Ad Hoc Subcommittee and Appoint Chair and Members	Gee nominates himself as subcommittee chair, Stewart and Wang as members. Approved unanimously. Assistant GM of Infrastructure Delivery Sylvia Lamb recommends subcommittee start with look at how BART is doing reporting and oversight to give subcommittee ideas for where it can dive deeper in future meetings.
4. 2023 Annual Report	
A. Chair's follow up on Annual Report presentation to the BART Board	Chair McGill reports BART Board appreciates all the work the committee puts in. External Affairs Communications Officer Chris Filippi says report was well received with much positive feedback on the effort that goes into producing the report. Gee says McGill did fantastic job summarizing the efforts of the committee. Stewart request going forward committee receive reminders of time, date, and location of future BART Board meetings when RR Report is discussed.

B. 2024 Annual Report Outlook	<p>Filippi details public rollout of Annual Report to press and general public. Tells committee next step is to present report outline at January meeting.</p> <p>Shrawagi asks for metrics to measure distribution of report.</p> <p>Rosenthal says subcommittee process is working well. Suggests focusing as much as possible on rider experience in future reports.</p> <p>Stewart requests list of stakeholders be included in report.</p>
C. Vote to Establish 2024 Annual Report Subcommittee	Rosenthal moves Shrawagi as subcommittee chair and Rosenthal and Loosen as members. Seconded by Gee. Unanimously approved.
5. Measure RR BART Safety, Reliability and Traffic Relief Program Presentation	
A. Measure RR Overall Progress	<p>Zecharias Amare, Acting Chief of Project Delivery begins the presentation overview.</p> <p>Maansii Sheth, Measure RR Program Manager, along with other staff, also present.</p> <p>Shrawagi asks about timing of Communications Based Train Control-related projects. Lamb says timing depends largely on outside funding sources.</p> <p>Gee notes 47% of RR funding spent and 52% of work completed but more complex projects are coming up.</p> <p>Wang would like to see actual vs historical comparison for budget forecasts.</p> <p>Rosenthal asks what it means to be challenged by resource assignment for North Berkeley station access. Lamb says adequate staffing can still be a challenge.</p>
B. Break	Committee took a 5-minute break.

C. Measure RR Program Updates	<p>Joseph Towner from Office of Civil Rights and other BART staff provide update on small business outreach.</p> <p>Gee asks if there's a way to track how many small businesses who attend BART events land work with primary contractors.</p> <p>Stewart asks if contractors are tracked for their performance. OCR staff say a primary contractor can't list a business and then not give them work.</p> <p>Human Resources Director Rosalind Bolds provides update on RR staffing.</p> <p>Maansii Sheth, Measure RR Program Manager presents project milestones.</p>
6. Future Agenda Items and Questions	Gee requests staff arrange scheduling for first meeting of the deep dive subcommittee.
7. Committee and Staff Announcements	No staff updates and no additional public comment.
8. Adjournment	Meeting adjourned at 11:42 am.

2024 RR Annual Report Outline

Overall theme: How rebuilding BART is improving the rider experience.

1. Table of Contents

2. Committee Chair Welcome Letter

RR Big Picture

3. Executive Summary

A. Major accomplishments of last year.

B. Answer whether we are on time and on budget.

4. About the Committee

A. Highlight committee's responsibilities and organizations represented on the panel.

5. The Story of RR

A. How Measure RR became a reality.

B. Include stakeholder info.

6. Life Span of RR

A. Updated chart with expected length of major project categories.

7. Equity and RR

A. How are projects impacting BART's stakeholders.

B. Impacts of construction and investments on various communities.

C. Are RR projects making BART more accessible for all?

8. Monitor impacts of large projects

A. Comprehensive public outreach plan for Yellow Line weekend shutdowns and other RR projects.

B. Bus bridge recap and efforts to minimize rider impacts.

9. RR's impact on the rider experience

A. Data showing how rebuilding infrastructure is impacting delay totals.

B. Theme of how RR is delivering on promises made to voters.

10. People of RR (new order)

A. Highlight workers behind the RR rebuilding program.

11. AI and RR (new section)

A. How are rebuilding efforts benefiting from Artificial Intelligence.

12. Focus on Sustainability

A. How is RR helping BART to achieve its environmental goals?

Major Project Categories

13. Renew Track

14. Renew Power

15. Tunnels and Structures

16. Mechanical Infrastructure

17. Renew Stations

18. Train Control

19. Relieve Crowding, Increase Redundancy, and Reduce Congestion

20. Access Improvements

Measure RR Finances

21. Funding with Green Bonds

A. Explain Green Bonds.

B. Discuss tranches to date.

22. Program Expenditures Overview

A. Spending breakdown by category at given time with forecasted spending amounts.

23. Spending Breakdown

A. Chart showing program allocations as percentage of total bond.

24. RR – Only Part of the Solution

A. Highlight BART's updated Capital Improvement Program (CIP).

B. How is RR funding being leveraged to attract federal/state dollars?

25. Measuring Cost Effectiveness

A. Highlight Earned Value Management and its use.

26. Small Business Outreach

A. Focus on outreach activities including new podcast series.

Additional Resources

27. Committee Activities and Expenditures

28. Resources to Learn More

A. Provide contact and social media info for stakeholders to offer feedback.

29. Helpful Links

30. Appendix



5. Measure RR BART Safety, Reliability and Traffic Relief Program Presentation

Bond Oversight Committee
January 19, 2024

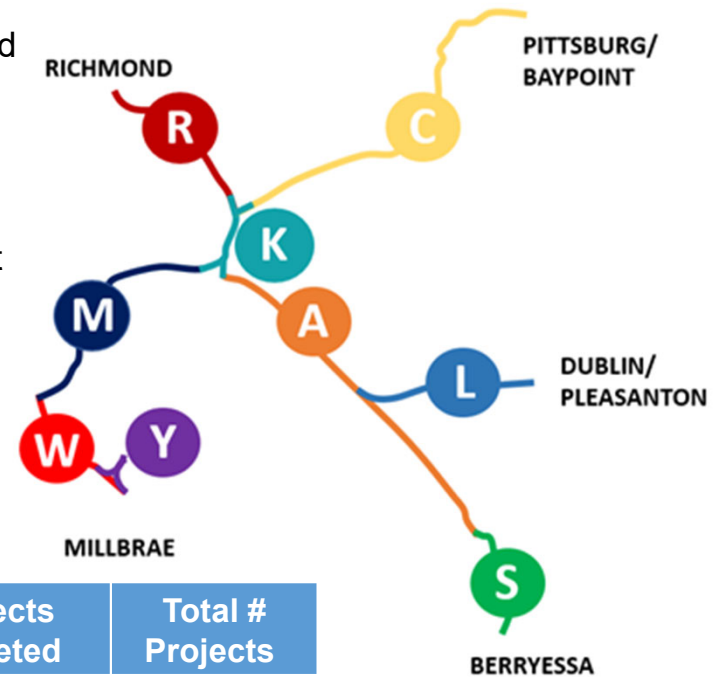


Bond Oversight Committee Duties & Responsibilities

- Provide diligent, independent and public oversight over the expenditure of funds from the sale of District general obligation bonds
- Assess how bond proceeds are invested to ensure that all spending is authorized by the ballot measure
- Assess whether projects funded by bond proceeds are completed in a timely, cost-effective and quality manner consistent with the best interest of BART riders and District residents
- Publish an annual report that includes a detailed account of the Committee's activities including its expenditures

Executive Summary

- Through September 2023, \$1.7B of the Measure RR funds have been invested to complete 54% of the work
- Successes
 - Completion of Construction of the Oakland Yard Tracks and Platform
 - Lighting for Powell St. Station Modernization
 - Completion of Willow Pass Road High Voltage Transformer Replacement
 - Completion of Construction of the 12th St. Bike Racks



# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	Total # Projects
5 (-1)	32 (+1)	16 (-2)	49 (-2)	55 (+4)	157

+(Projects added in the phase, since last quarter)
 - (Projects no longer in the phase, since last quarter)

5.A. Annual View

Maansii C. Sheth, RR Program Manager



Calendar Year 2023 Successes

157 Projects Total
8 Projects Completed Construction



Renew Track

- Rail Re-Profiling
- Rail Replacement
- Procurement of Rails, Ties, and Fasteners

Tunnels and Structures

- Transbay Tube: Grouting, Pump System and Electrification



Renew Mechanical

- Backflow Preventers – 7 locations
- Rotoclon Replacement – 3 shops

Station Modernization

- Balboa Park Plaza
- Civic Center Scissor Stairs
- 4 Escalators Installed
- 6 Canopies Installed



Calendar Year 2023 Successes

Willow Pass Road High Voltage Substation



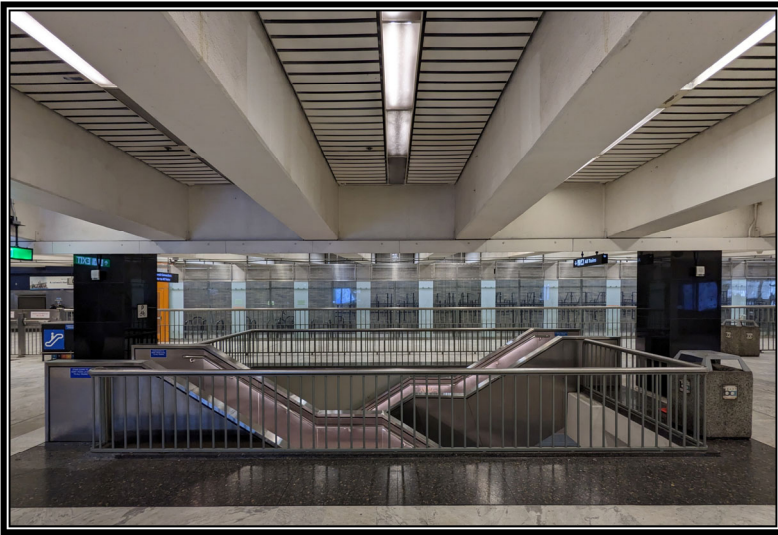
Project Highlights

Purpose	Connect to PG&E Power and step down 34.5 kV AC
Duration, Design through Construction	6 years
Cost	\$13.3M
Work Performed by	Blocka Construction Inc./BART Maintenance
Notable Activity	Energized; Collaboration with key stakeholders (PG&E)

Calendar Year 2023 Successes

Civic Center Scissor Stairs

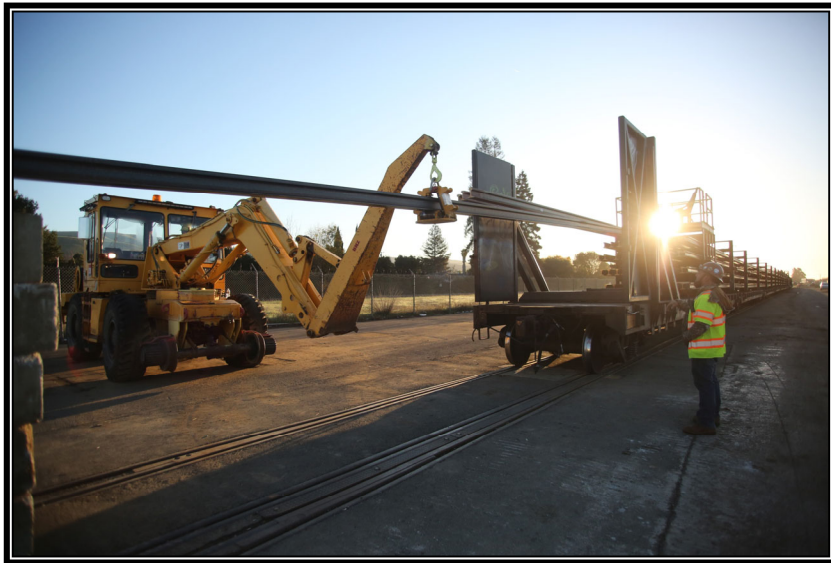
Project Highlights



Purpose	Decrease egress times and enhance lighting on the existing stairs
Duration, Design through Construction	5 years
Cost	\$13.6M
Work Performed by	Wickman Development & Construction/BART Maintenance
Notable Activity	Collaboration with SFMTA

Calendar Year 2023 Successes

Rail Replacement



Project Highlights

Purpose	Replace worn out rail
Progress for Year 2023	5.59 linear miles
Progress to-date	52 linear miles
Spent to-date	\$57M
Work Performed by	BART Maintenance
Notable Activity	Piggybacking on other projects

Track Program – Progress To Date



Project Description	Measurable Totals (as of December 2023)
Direct Fixation Pads Replacement	53,912 DF Pads Replaced
Frog Replacement	220 Frogs Replaced
Switch Point Replacement	56 Switch Points Replaced
Interlocking and Switch Replacement	8 Interlockings and 50 Switches Replaced

Challenges and Process Improvements

Challenges:

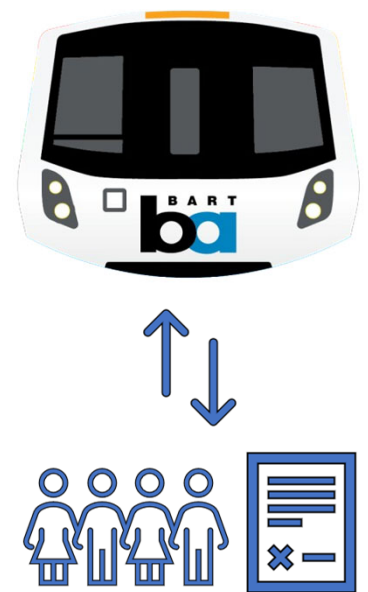
- Limited Bidders
 - Scarcity of Specialty Crafts
 - Supply Chain / Market Condition
- Competing Priorities

Process Improvements:

- Track Access
- Design Quality Management Procedure
- Reorganization
- Construction Change Order Initiative
- Work Plan Process Revamp Initiative



Image by storyset on Freepik



Deconfliction and Long-Range Planning



District Policy Compliance

Ensure adherence to District policy for working on BART property.



Coordinate Work Efforts

Facilitate effective collaboration between projects, maintenance groups, and stakeholders for streamlined operations.



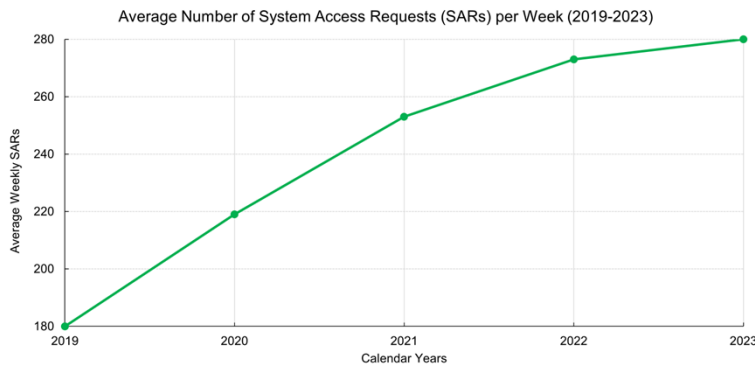
Keep on Schedule

Optimize project timelines and opportunities for piggybacking work through proactive planning and access coordination, aiming for timely completion.



Resource Forecasting

Accurately predict and plan for future resource needs, including vehicles and workforce, to meet the evolving demands of the District.



System Access Uses

- Preventative Maintenance
- Repair
- Inspection
- Contracted-out Construction
- Self-performed Construction

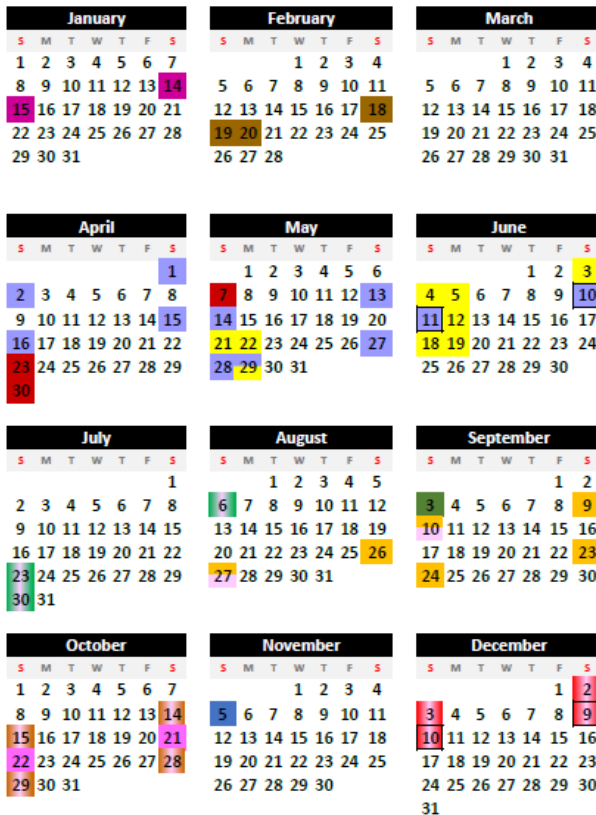
BART Safety Reliability and Traffic Relief Program (Measure RR)
January 2024



Deconfliction Calendar

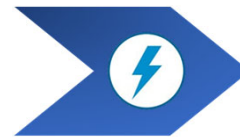
2023

Legend



K-Line Interlocking - C15 Section	OCIO Fiber Pulls W&Y Line S/ of M90 Early Out @2200	Rail Relay S- Line S1 Track (A85 - S07) Early Out @2100	C-Line Rail Relay and Maint Repair 2023	
C-Line Rail Tie Replacement C53 - C57	Tie Relocation BL at M15 (Speed Restriction M10 - M3.55)	Uncrossing 34.5KV Cables - Speed Restriction (PL4's) all day R50 - ORY	Hazardous Tree Removal A-Line North of MW-18 A2 Track (A77 - A65)	
Hazardous Tree Removal A-Line A80 - A90/S20	Hazardous Tree Removal M87 to M85	Hazardous Tree Removal C53 - C55 Bus Bridge	Hazardous Tree Removal C53 - C54 ST	Hazardous Tree Removal (Caltrans Trees)

Looking Forward - 2024



**Civic Center Station Substation
Substantial Completion**



**Start of Physical Construction for
Walnut Creek Substation**



**K Line Interlocking Replacement
(between 19th St. - MacArthur Stations)**



**Construction Completion for 4
Canopies and 5 Escalators**

5.A.1. Q&A



5.B. Financial Overview Update

Maansii C. Sheth, RR Program Manager



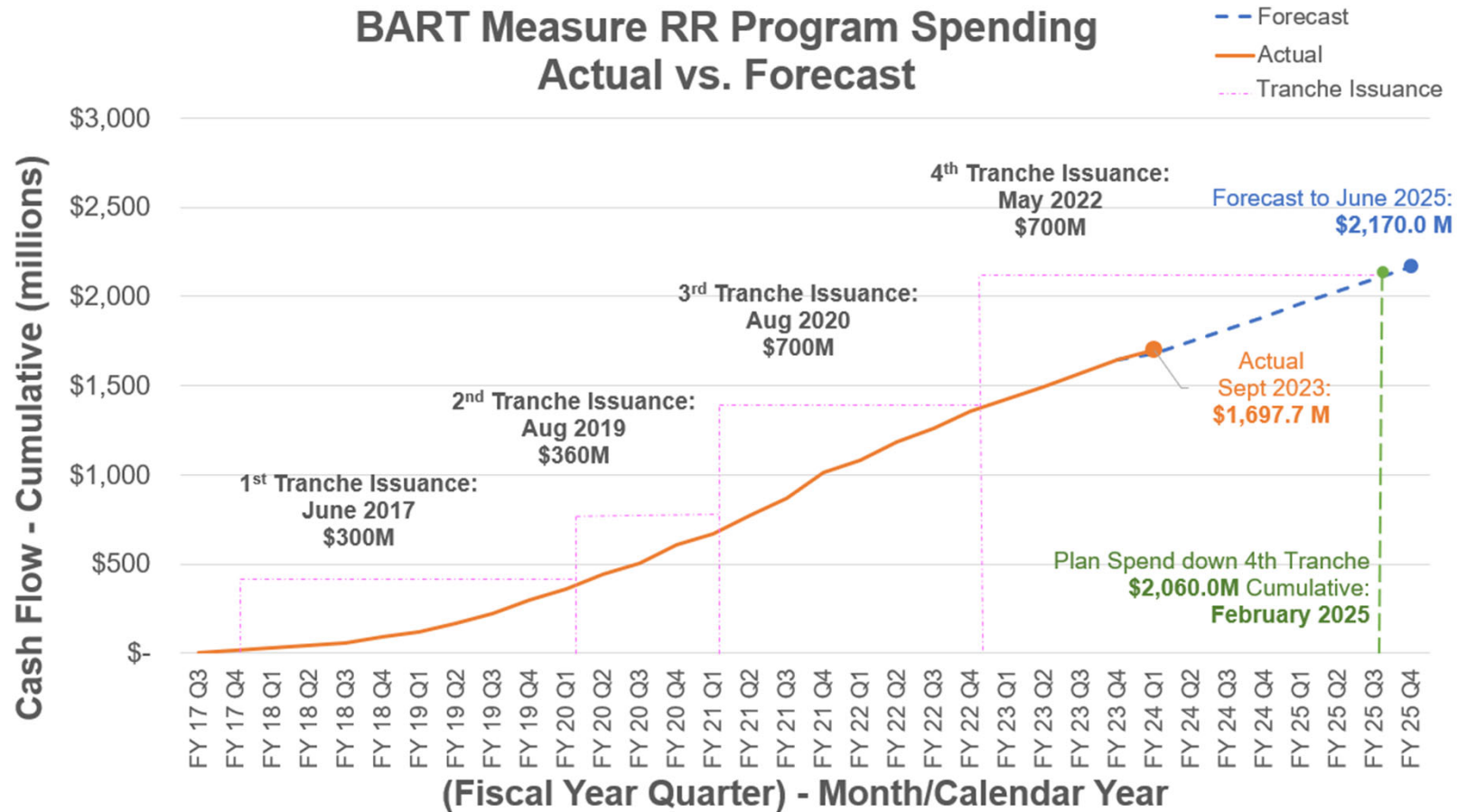
Measure RR Cashflow (\$ Millions): Mid-Term & Long-Term Outlook

Program	Expended (thru June 2023)	Expended (thru September 2023)	Period Cashflow (July 2023 - September 2023)	% Expended out of Total Bond Investment	Forecast Expenditures	
					MID-TERM (thru 2025)	LONG-TERM (thru End of Bond)
Renew Track	\$386.1	\$397.2	\$11.1	64%	\$433.5	\$625
Renew Power Infrastructure	\$651.3	\$670.7	\$19.4	55%	\$868.0	\$1,225
Repair Tunnels & Structures	\$234.9	\$241.0	\$6.1	44%	\$318.3	\$549
Renew Mechanical	\$85.8	\$88.3	\$2.5	57%	\$133.0	\$156
Replace Train Control/Increase Capacity	\$49.8	\$50.9	\$1.1	13%	\$113.1	\$400
Renew Stations	\$75.5	\$75.6	\$0.1	36%	\$107.1	\$210
Expand Safe Access to Stations	\$39.7	\$40.6	\$0.9	30%	\$69.2	\$135
Design/Engineer to Relieve Crowding*	\$123.3	\$133.4	\$10.1	67%	\$127.8	\$200
Total	\$1,646.4	\$1,697.7	\$51.3	49%	\$2,170.0	\$3,500

*Full Title: Design and Engineer Future Projects to Relieve Crowding, Increase System Redundancy, and Reduce Traffic Congestion



RR Overall Program Budget Progress



5.B.1. Q&A



5.C. 10 Minute Break



5.D. Small Business Outreach

Joseph Towner, Mgr. of Program Planning Support



RR Program Update – Small Business

Program	Total RR Commitment	Total RR SB Commitment	SB Commitment %	# of SB Contracts	Total RR Payments on RR Contracts	RR Payments to SBs	SB Payment %
Renew Track	\$160.7 M	\$35.9 M	22%	160	\$142.7 M	\$33.9 M (+\$2M)	24%
Renew Power	\$434.5 M (+\$13M)	\$132.6 M (+\$6M)	31% (+1%)	379	\$315.9 M (+\$12M)	\$130.2 M (+\$3M)	41%
Repair Tunnels & Structures	\$157.4 M	\$34.3 M	22%	181	\$130.8 M	\$20.3 M	16%
Renew Mechanical	\$37.6 M	\$13.0 M	35%	89	\$29.0 M	\$11.8 M	41% (+2%)
Replace Train Control/Increase Capacity	\$39.2 M (+\$3M)	\$8.7 M	22%	162	\$27.6 M	\$3.8 M	14%
Renew Stations	\$160.4 M (+\$3M)	\$30.6 M	19%	145	\$68.3 M	\$13.1 M	19%
Expand Safe Access to Stations	\$22.5 M	\$6.8 M	30%	179	\$18.9 M	\$6.7 M	35%
Design/Engineer to Relieve Crowding	\$146.0 M (+\$8M)	\$36.1 M	25%	219	\$108.2 M (+\$8M)	\$30.2 M (+\$3M)	28%
Total	\$1,158.2 M (+\$34M)	\$298.1 M (+\$12M)	26% (+1%)	1513 (+98)	\$841.5 M (+\$35M)	\$249.9 M (+\$12M)	30%

Notes: All amounts are based on RR fund percent only. Amounts are updated to November 30, 2023. Includes formal contracts only; does not include informal purchases or work performed by BART's own forces. SB totals include DBEs, MSBES, SBs, and LSBs. Sources: RR commitments are based on RR Requisitions report, Procurement Sealed Bids Report and PeopleSoft Work Plans application. RR% for each project is based on Financial Analysts' report, RR Funds / Total Project Budget. Payments based on PeopleSoft and B2GNow.



RR Program Update - Small Business Outreach



Recently Completed Events

- 10/11/23: Construction Management Association of America (CMAA) Meet the Primes Networking Event–Oakland, CA
- 10/10/23: Caltrans 3rd Annual DBE Summit–Richmond, CA
- 9/20/23: Industry Council of Small Business Development General Membership Meeting – Sunnyvale, CA

Upcoming Events

- 1/17/24: HNTB Small Business Outreach Event–Oakland, CA
- TBD–Business Outreach Committee DBE/ACDBE Certification Workshop - TBD

5.D.1. Q&A



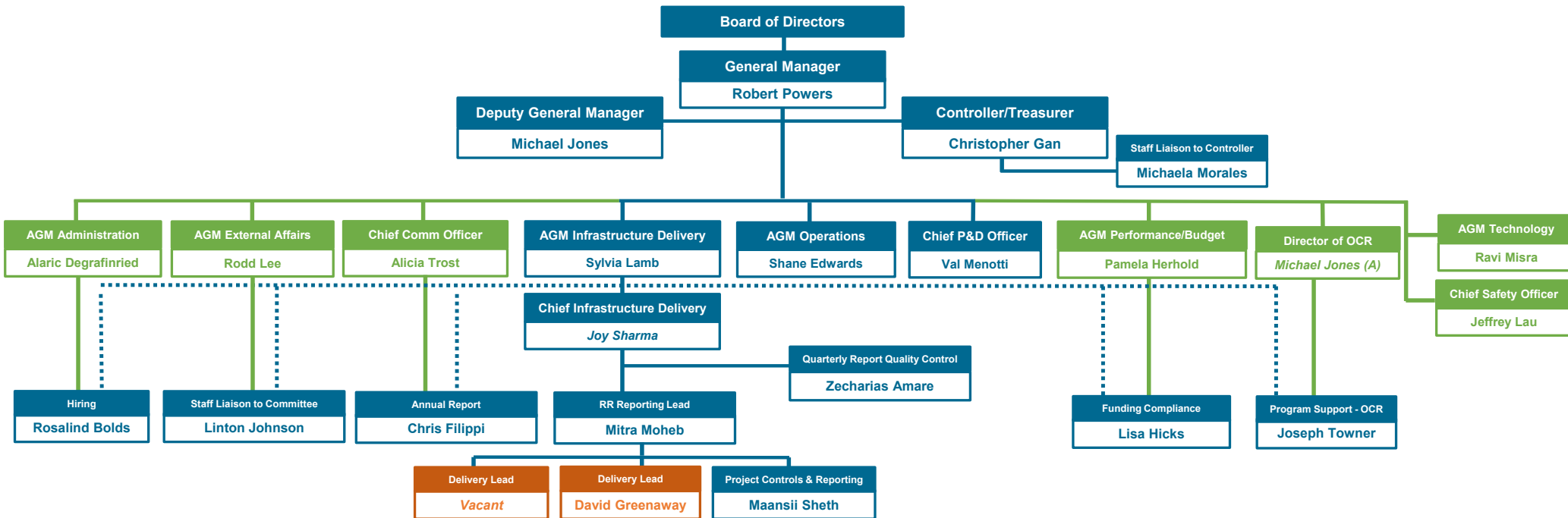
5.E. Measure RR Staff Organizational Chart

Mitra Moheb, Group Manager Delivery PM/CM



Measure RR Program Organization

Jan 2024



RR Project Delivery			
Renew Track <i>Rachel Russell</i> <i>Kevin Reeg</i>	Renew Mechanical <i>Jin Cao</i> <i>Jafar Arghavani</i> <i>Michael Gerbrach</i> <i>Khush Cheema</i>	Replace Train Control <i>Chuck Bernardo</i>	Expand Safe Access to Stations <i>Rachel Factor</i> <i>Isaac Lim</i>
Renew Power <i>David Greenaway</i> <i>Mohamad Fararjeh</i> <i>Avineet Garg</i> <i>Robert E Vantrease</i>	Relieve Crowding <i>Kevin Reeg</i> <i>Jin Cao</i> <i>Sadie Graham</i>	Renew Stations <i>Wahid Amiri</i> <i>Michael Wong</i> <i>Hong Mei</i> <i>Mark Dana</i> <i>Zhiming Fan</i> <i>Rachel Factor</i> <i>Patrick Quinn</i>	<i>Mariana Parreiras</i> <i>Ahmad Rassai</i> <i>Hong Mei</i> <i>Michael Wong</i> <i>Heath Maddox</i> <i>Donna Lee</i> <i>Debanjan Chakraborty</i> <i>Albert Louie</i>
Repair Tunnels/Structures <i>Debanjan Chakraborty</i> <i>Girish Koli</i> <i>Martina Frignani</i> <i>Jeff Ficker</i>			

RR Program Leadership / Reporting Team
RR Program/Project Delivery
Organizational Support of RR Program



5.F. Appendix: Financial Outlook, Program Status & Milestones

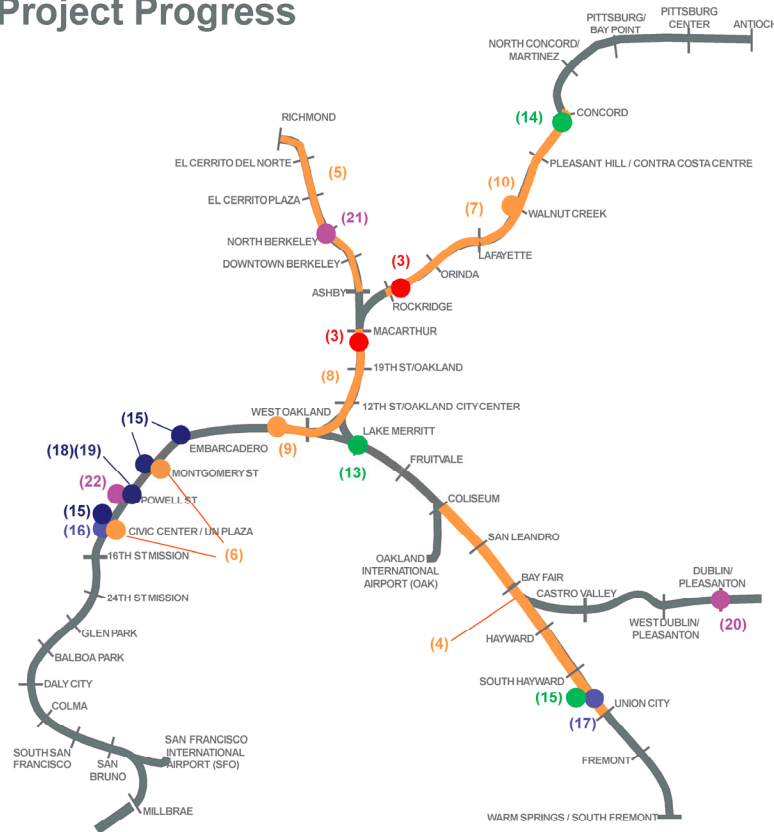


Work Progress Since Last Meeting



Examples of Active RR Projects in January 2023 – September 2023

Measure RR – Project Progress



Renew Track

- 1 Frog Capital Maintenance (Systemwide Not Mapped) – Ongoing Construction
- 2 Rail Relay (Systemwide Not Mapped) – Ongoing Construction
- 3 K Line Interlocking Replacement – Ongoing Construction

Renew Power Infrastructure

- 4 A-Line 34.5kV Cable Replacement – Ongoing Construction
- 5 R-Line 34.5kV Cable Replacement – Ongoing Construction
- 6 Substation for Core Capacity – Ongoing Construction
- 7 C-Line 34.5kV Cable Replacement – Ongoing Construction
- 8 K-Line 34.5kV Cable Replacement – Ongoing Construction (MacArthur to Transbay Tube East)*
- 9 Substation at Transbay Tube East - Ongoing Construction*
- 10 Substation at Walnut Creek - Ongoing Construction*

Renew Tunnel & Structures

- 11 Water Intrusion at Train Control Rooms - Ongoing Construction - (Systemwide Not Mapped)
- 12 Seal and Secure Substation Roofs (Systemwide Not Mapped) – Ongoing Construction

Renew Mechanical

- 13 LMA HVAC Renovation – In Design
- 14 Turntable Replacement Concord Yard - Ongoing Construction
- 15 Fire Services Yards (OHY) – Ongoing Construction

Design/Engineer to Relieve Crowding

- 16 Civic Center Scissor Stairs – Completion of Construction
- 17 Hayward Maintenance Complex (HMC) Phase 2: Civil & Grading – Ongoing Construction

Renew Stations

- 18 Market Street Canopies and Escalator – Ongoing Construction
- 19 Powell Street Station Modernization – Ongoing Construction

Expand Safe Access

- 20 Dublin Iron Horse Trail Bridge (SR2B) – Ongoing Construction
- 21 North Berkeley Access Improvements – Ongoing Construction
- 22 5th Street Improvement Project (SR2B) – Completion of Construction

Replace Train Control/Increase Capacity

- 23 Enabling Works (Systemwide Not Mapped) – Ongoing Construction

*Updated projects

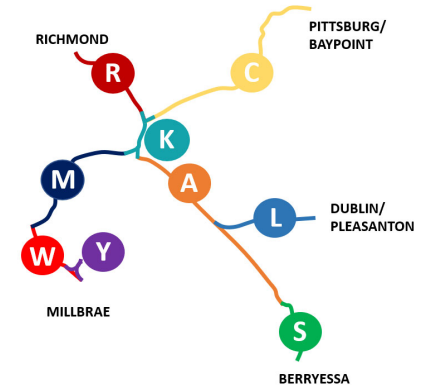


Individual Program Milestones



Renew Track STATUS & MILESTONES

EXPENDED Thru 09/2023: **\$397.2**
 FORECAST Thru 06/2025: **\$433.5**
 TOTAL PROGRAM VALUE: **\$625**
 PERIOD CASHFLOW: **\$11.1**



STATUS – Renew Track

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
0	1	1	8	10	20

MILESTONES			
Completed (Jul 2023 – Sep 2023)	Q2 (Oct 2023 – Dec 2023)	Q3 (Jan 2024– Mar 2024)	Q4 (Apr 2024– June 2024)
<ul style="list-style-type: none"> Completion of Construction Oakland Yard Tracks 	<ul style="list-style-type: none"> Completion of Construction A77 Interlocking Replacement 	<ul style="list-style-type: none"> Contract Award for K Line Interlocking Replacement Traction Power Materials, MacArthur Station (K23/K25) Begin Construction of Richmond Yard Track Rehabilitation, Phase 1 	<ul style="list-style-type: none"> <i>Begin Construction of K Line Switch Replacement</i>

Watchlist:

- Material Procurement Delays at K-Line

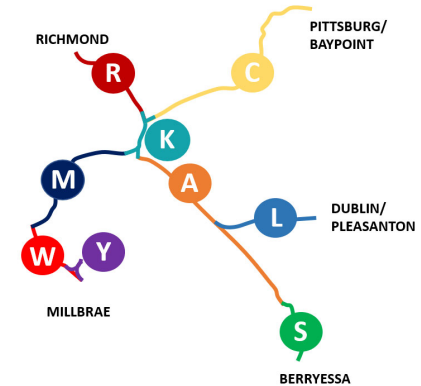
Italic: Modified milestones from previous report.



BART Safety Reliability and Traffic Relief Program (Measure RR)
January 2024

Renew Power STATUS & MILESTONES

EXPENDED Thru 09/2023: **\$670.7**
 FORECAST Thru 06/2025: **\$868.0**
 TOTAL PROGRAM VALUE: **\$1,225**
 PERIOD CASHFLOW: **\$19.4**



STATUS – Renew Power Infrastructure

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
2	6	3	17	6	34

MILESTONES			
Completed (Jul 2023 – Sep 2023)	Q2 (Oct 2023 – Dec 2023)	Q3 (Jan 2024– Mar 2024)	Q4 (Apr 2024– June 2024)
<ul style="list-style-type: none"> Completion of C-Line High Voltage Transformer Replacement Completion of Design for MET G Generator Replacement Project 	<ul style="list-style-type: none"> Notice to Proceed for Walnut Creek (CWC) Substation 	<ul style="list-style-type: none"> <i>Completion of Construction for Stations Emergency Lighting Phase 2</i> <i>Completion of Construction for R-Line 34.5kV Cable Replacement</i> <i>Issue for Bid for the Cast Coil Transformer Replacement Project</i> 	<ul style="list-style-type: none"> <i>Completion of Construction of Cable Segment between West Oakland and Washington St., for K-Line 34.5kV Cable Replacement</i> <i>Completion of Construction for Oakland Transition Structure (KTE) Traction Power Substation Replacement</i> <i>Completion of Construction for Civic Center (MCC) Substation</i> <i>Issue for Bid TCCP East Bay: Transbay Corridor Core Capacity East Bay Substation</i>

Watchlist:

- Substation Construction

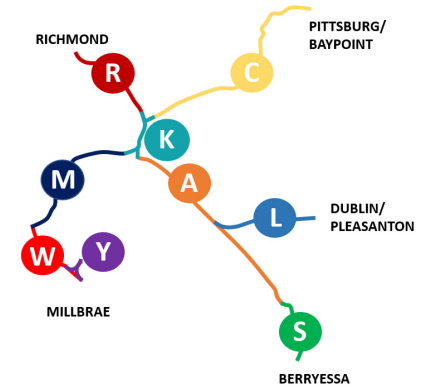
Italic: Modified milestones from previous report.



BART Safety Reliability and Traffic Relief Program (Measure RR)
January 2024

Tunnels & Structures STATUS & MILESTONES

EXPENDED Thru 09/2023: **\$241.0**
 FORECAST Thru 06/2025: **\$318.3**
 TOTAL PROGRAM VALUE: **\$549**
 PERIOD CASHFLOW: **\$6.1**



STATUS – Repair Tunnels & Structures

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
0	5	5	7	9	26

MILESTONES			
Completed (Jul 2023 – Sep 2023)	Q2 (Oct 2023 – Dec 2023)	Q3 (Jan 2024– Mar 2024)	Q4 (Apr 2024– June 2024)
<ul style="list-style-type: none"> Issue for Bid Tunnel Waterproofing at Oakland Wye 	<ul style="list-style-type: none"> <i>Begin Construction (In-house) of Renew Catwalks at Aerial Structure (Phase 3A)</i> <i>Begin Construction (In-house) of Slope Stabilization Systemwide (L Line locations)</i> 	<ul style="list-style-type: none"> Completion of Design for Street Grate and Vent Shafts (East Bay) <i>Completion of Construction Water Intrusion at Train Control Rooms (Package 1-10 Locations)</i> <i>Issue for Bid Slope Stabilization Systemwide</i> 	<ul style="list-style-type: none"> <i>Issue for Bid Tunnel Waterproofing at M Line</i>

Watchlist:

- Design for Water Intrusion at Train Control Rooms

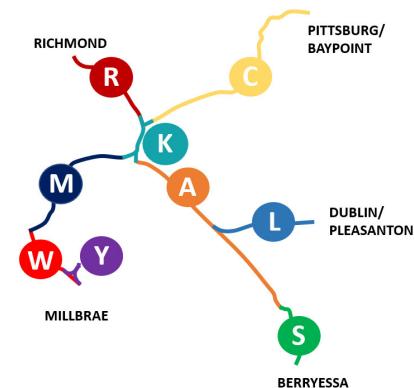
BART Safety Reliability and Traffic Relief Program (Measure RR)
January 2024

Italic: Modified milestones from previous report.



Renew Mechanical STATUS & MILESTONES

EXPENDED Thru 09/2023: **\$88.3**
 FORECAST Thru 06/2025: **\$133.0**
 TOTAL PROGRAM VALUE: **\$156**
 PERIOD CASHFLOW: **\$2.5**



STATUS – Renew Mechanical

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
1	7	2	3	13	26

MILESTONES			
Completed (Jul 2023 – Sep 2023)	Q2 (Oct 2023 – Dec 2023)	Q3 (Jan 2024– Mar 2024)	Q4 (Apr 2024– June 2024)
<ul style="list-style-type: none"> <i>Began Construction for Fire Suppression Systems (in-house only)</i> 	<ul style="list-style-type: none"> <i>Completion of Construction for Concord Turntable Replacement</i> 	<ul style="list-style-type: none"> <i>Completion of Design for Sewage Pumps Replacement</i> <i>Issue for Bid Fire Suppression Systems Upgrade</i> 	<ul style="list-style-type: none"> <i>Issue for Bid Concord Yard Wheel Truing Facility</i> <i>Completion of Design for LMA HVAC Renovation</i> <i>Completion of Construction Hayward Yard Fire Services</i>

Watchlist:

- Re-issue for Bid Fire Suppression Upgrade
- Re-issue for Bid Sewage Pumps Replacement
- Design for LMA HVAC Renovation

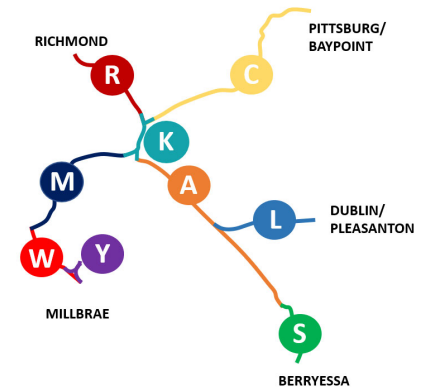
Italic: Modified milestones from previous report.

BART Safety Reliability and Traffic Relief Program (Measure RR)
January 2024



Replace Train Control STATUS & MILESTONES

EXPENDED Thru 09/2023: **\$50.9**
 FORECAST Thru 06/2025: **\$113.1**
 TOTAL PROGRAM VALUE: **\$400**
 PERIOD CASHFLOW: **\$1.1**



STATUS – Replace Train Control / Increase Capacity

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
0	0	1	5	0	6

MILESTONES			
Completed (Jul 2023 – Sep 2023)	Q2 (Oct 2023 – Dec 2023)	Q3 (Jan 2024– Mar 2024)	Q4 (Apr 2024– June 2024)
<ul style="list-style-type: none"> Completion of Vehicle Impacted Preliminary Design Review (PDR) Completion of Non-Vehicle Impacted Final Design Review (FDR) Gate 1 	<ul style="list-style-type: none"> Completion of CBTC Wayside Installation Final Design Review (FDR) Gate 2 CBTC Phase 1 Equipment Available for Construction Delivery of Hi-Rail Vehicles for Enabling Works <i>Contract Award for TCMP Enabling Works</i> 	<ul style="list-style-type: none"> Completion of CBTC Wayside Installation Final Design Review (FDR) Gate 3 Completion of Factory Test Hayward Test Track (HTT) Train Control House <i>Notice to Proceed for TCMP Enabling Works</i> 	<ul style="list-style-type: none"> <i>Delivery of Transponders for W Line (Phase 2)</i> <i>Build Concrete Foundation for Hayward Test Track (HTT) Train Control House</i>

Watchlist:

- Securing Building Permit for CBTC Lab Installation

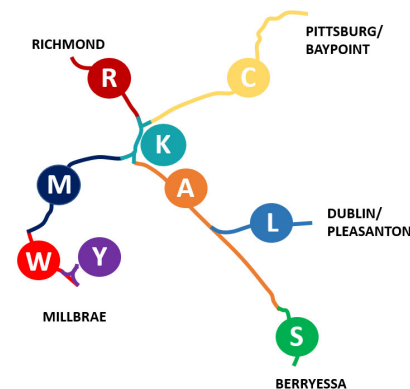
Italic: Modified milestones from previous report.



BART Safety Reliability and Traffic Relief Program (Measure RR)
January 2024

Renew Stations STATUS & MILESTONES

EXPENDED Thru 09/2023: **\$75.6**
 FORECAST Thru 06/2025: **\$107.1**
 TOTAL PROGRAM VALUE: **\$210**
 PERIOD CASHFLOW: **\$0.1**



STATUS – Renew Stations

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
0	1	0	4	3	8

MILESTONES			
Completed (Jul 2023 – Sep 2023)	Q2 (Oct 2023 – Dec 2023)	Q3 (Jan 2024– Mar 2024)	Q4 (Apr 2024– June 2024)
<ul style="list-style-type: none"> Completion of Construction for Platform Lighting for Powell St. Station Modernization Completion of Powell St. Station Platform Escalator P3, and Embarcadero Station Platform Escalator P2 for Market Street Escalators Project Begin Construction for Replacement of Embarcadero Station Platform Escalator P6, Montgomery St. Platform Escalator P3, and Powell St. Platform Escalator P1 for Market Street Escalators Project <i>Completed Construction of Canopy 3 at Embarcadero Station</i> 	<ul style="list-style-type: none"> <i>Completion of Construction for Canopy 11 at Montgomery Station and Canopy 15 at Powell Station</i> 	<ul style="list-style-type: none"> Completion of Civic Center Platform Escalator P1, and Montgomery St. Platform Escalator P3 for Market Street Escalators Project 	<ul style="list-style-type: none"> <i>Completion of Construction for Canopy 2 at Embarcadero Station, Canopy 9 at Montgomery Station, and Canopy 6 at Embarcadero Station</i>

Watchlist:

- Construction of Canopies

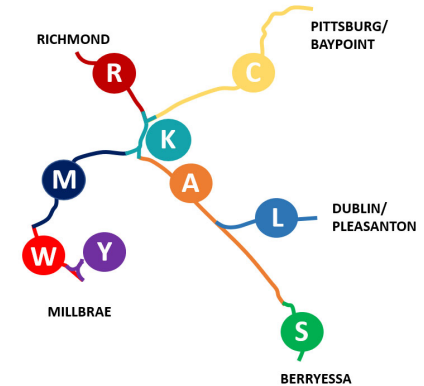
Italic: Modified milestones from previous report.



BART Safety Reliability and Traffic Relief Program (Measure RR)
January 2024

Station Access STATUS & MILESTONES

EXPENDED Thru 09/2023: **\$40.6**
 FORECAST Thru 06/2025: **\$69.2**
 TOTAL PROGRAM VALUE: **\$135**
 PERIOD CASHFLOW: **\$0.9**



STATUS – Expand Safe Access to Stations

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
0	10	4	4	12	30

MILESTONES			
Completed (Jul 2023 – Sep 2023)	Q2 (Oct 2023 – Dec 2023)	Q3 (Jan 2024– Mar 2024)	Q4 (Apr 2024– June 2024)
<ul style="list-style-type: none"> • Completion of Construction for 12th St. Bike Racks • Completion of Design for the MacArthur Station Access Improvements • <i>Notice to Proceed for the Accessibility Improvement Program</i> • <i>Began Demolition for ADA Access Corrections at Fremont and Bay Fair Stations</i> 	<ul style="list-style-type: none"> • Begin Construction of SR2B-funded Walnut/Liberty Protected Intersection near Fremont Station • Completion of SR2B-funded Iron Horse Trail Bridge Project 	<ul style="list-style-type: none"> • Completion of Design for the Dublin/Pleasanton Access Improvement Project • Begin Construction of Ashby Access Improvement Project • <i>Begin Demolition for ADA Access Corrections at Hayward Station</i> 	<ul style="list-style-type: none"> • <i>Begin Demolition for ADA Access Corrections at Castro Valley Station</i> • <i>Completion of Design for New Bike Station (400 Bicycles)</i>

Watchlist:

- City of Pittsburg BART Ped/Bike Connectivity Project Construction
- Walnut Ave/Liberty Street Protected Intersection Project
- Iron Horse Trail Bridge at Dublin Blvd

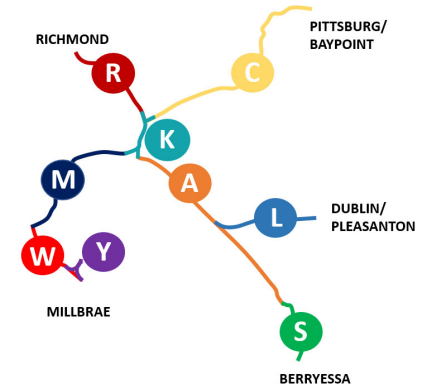
Italic: Modified milestones from previous report.

BART Safety Reliability and Traffic Relief Program (Measure RR)
 January 2024



Relieve Crowding STATUS & MILESTONES

EXPENDED Thru 09/2023: **\$133.4**
 FORECAST Thru 06/2025: **\$127.8**
 TOTAL PROGRAM VALUE: **\$200**
 PERIOD CASHFLOW: **\$10.1**



STATUS – Design / Engineer to Relieve Crowding

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
2	2	0	1	2	7

MILESTONES			
Completed (Jul 2023 – Sep 2023)	Q2 (Oct 2023 – Dec 2023)	Q3 (Jan 2024– Mar 2024)	Q4 (Apr 2024– June 2024)
<ul style="list-style-type: none"> Link 21: Concept Refinement and Evaluation Completion of Construction for Concrete Retaining Wall for HMC2: Civil Grading Contract Complete Delivery of Concrete Ties for HMC2: Trackwork Procurement 	<ul style="list-style-type: none"> Complete R1 Access Road Construction for HMC2: Civil Grading Contract Link21: Public Outreach - Concept Refinement 	<ul style="list-style-type: none"> Complete Security Fence Installation for HMC2: Civil Grading Contract Complete Civil Grading Scope of Work 	<ul style="list-style-type: none"> <i>Complete Value Engineering Analysis for HMC2 East Storage Yard</i>

Watchlist:

- Funding for Embarcadero Platform Elevator Construction

BART Safety Reliability and Traffic Relief Program (Measure RR)
 January 2024

Italic: Modified milestones from previous report.

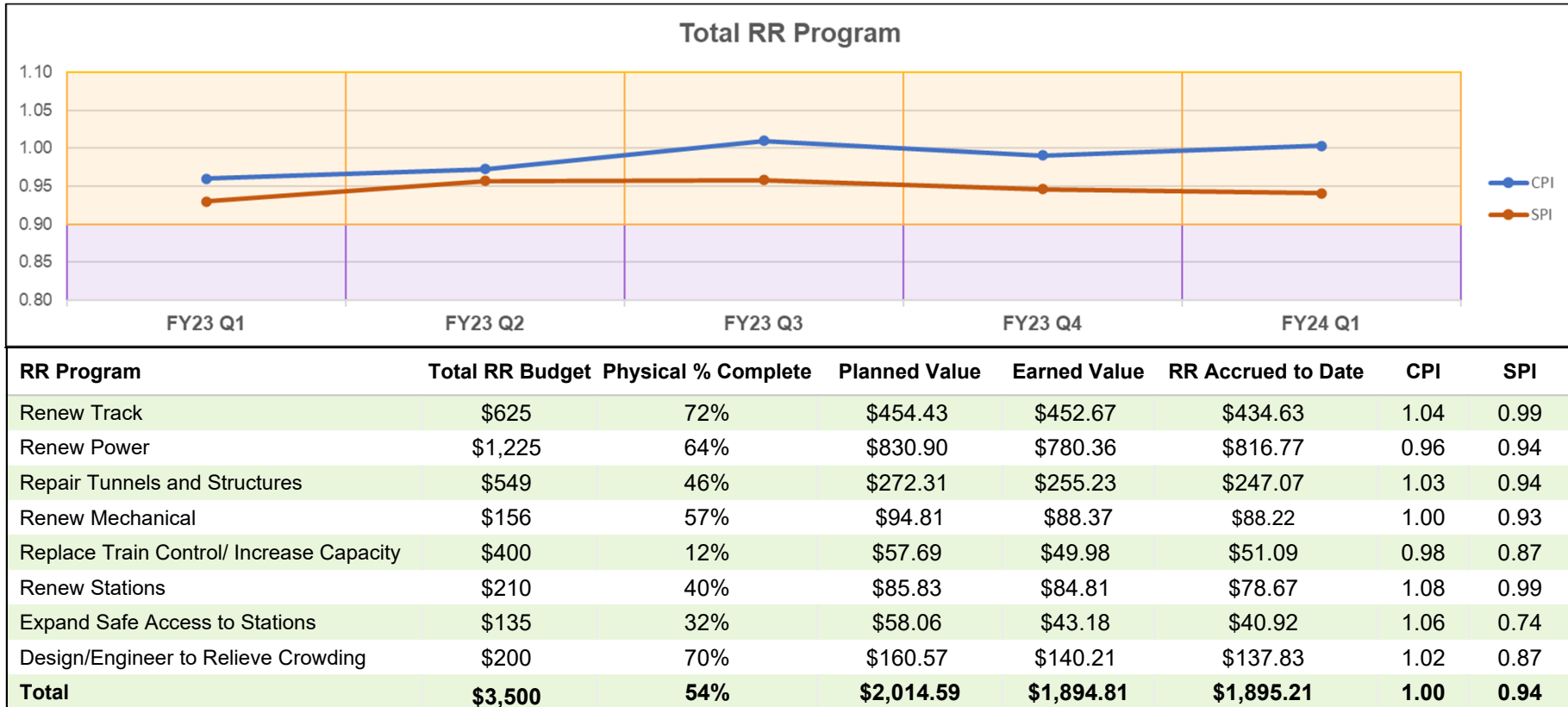


Budget and Schedule Status



Earned Value Rollup by Program Through September 2023

Goal: CPI and SPI between 0.9 and 1.1



Note: All Values in \$M

CPI – Cost Performance Index

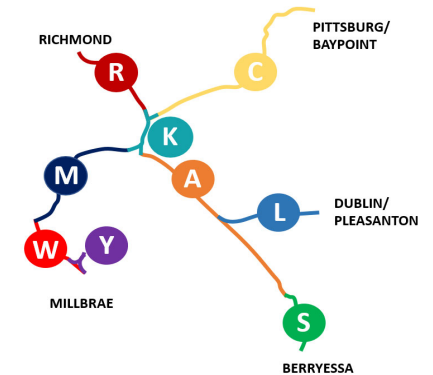
SPI – Schedule Performance Index



BART Safety Reliability and Traffic Relief Program (Measure RR)
January 2024

Track Program Drill Down

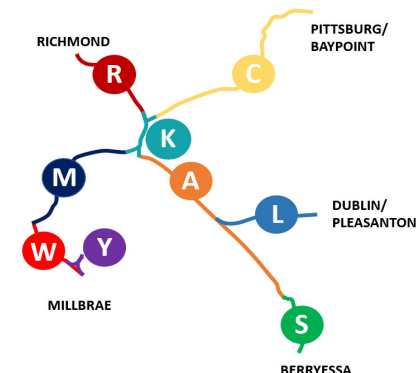
Project	Count
Number of Projects (>25% Spent)	18
CPI <0.9 or >1.1	2
SPI <0.9 or >1.1	4
Number of Risk Register Updates Performed in Previous Period	9
Number of Project(s) with Quality Reviews Performed in Previous Period	4



Project	Physical % Complete	CPI	SPI	Comments
Switch Replacement	69%	0.93	1.25	Realized efficiencies during construction
Replace Direct Fixation Pads	83%	1.06	1.17	Realized efficiencies during construction
Frog Capital Maintenance	82%	1.11	0.82	Construction cost lower than planned
A85 Interlocking Replacement	35%	0.78	0.28	Construction delayed to focus on more critical weather related work

Power Program Drill Down

Project	Count
Number of Projects (>25% Spent)	23
CPI <0.9 or >1.1	6
SPI <0.9 or >1.1	10
Number of Risk Register Updates Performed in Previous Period	10
Number of Project(s) with Quality Reviews Performed in Previous Period	0

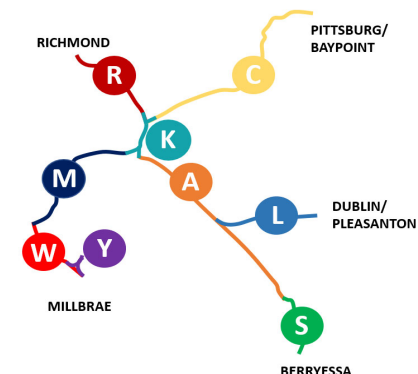


Project	Physical % Complete	CPI	SPI	Comments
A-Line 34.5kV AC Cable Replacement	85%	0.90	1.15	Contractor meeting milestones ahead of project schedule
MPR Install and Rectifier Rehab	49%	0.79	0.68	Schedule Impact continues from previous quarter due to emergency repair work
R-Line 34.5kV AC Cable Replacement	71%	0.78	1.42	Spending more than planned due to emergency repair work performed by in-house forces. Contractor is meeting the milestones ahead of the schedule.
K-Line 34.5kV AC Cable Replacement	61%	1.04	0.73	Prior 6 months delay still impacting the schedule. Availability of assigned crews has stabilized the schedule.
PG&E Power feed to MXP Gap Breaker	53%	0.75	0.53	Impacted by coordination with external agencies.
SFTS Transformer / Bus Upgrade	39%	0.68	0.39	Impacted by coordination with external agencies for transformer design, testing, and installation.
Cast Coil Transformer Replacement	34%	0.95	0.74	Construction not started due to delays in procurement process
Battery Replacement for TC Rooms Ph. 2	79%	1.10	0.79	Impacted by Contractor's delay
Substation for Core Capacity	82%	1.01	0.82	Delayed due to increased environmental remediation and design changes due to differing site conditions
C-Line 34.5kV AC Cable Replacement	29%	0.58	0.67	Carrying over the schedule impact from previous quarter due to emergency repair work on the R-Line Cable project

BART Safety Reliability and Traffic Relief Program (Measure RR)
January 2024

Tunnels & Structures Program Drill Down

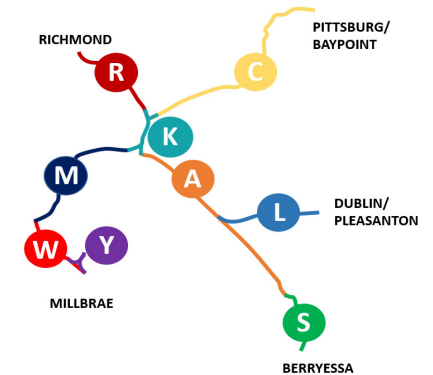
Project	Count
Number of Projects (>25% Spent)	26
CPI <0.9 or >1.1	3
SPI <0.9 or >1.1	3
Number of Risk Register Updates Performed in Previous Period	9
Number of Project(s) with Quality Reviews Performed in Previous Period	2



Project	Physical % Complete	CPI	SPI	Comments
Aerial Catwalk Renewal	38%	1.23	1.55	A Line installation ahead of schedule and more cost efficient than planned
Slope stabilization (AC, CCC, SFC)	25%	0.88	0.58	Delay from extended environmental clearance
Substation Roofs	51%	1.00	0.79	Additional safety requirements impacted the schedule.

Mechanical Program Drill Down

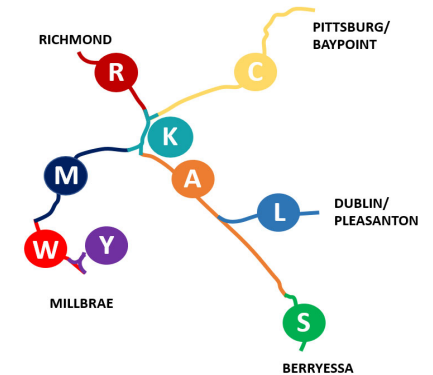
Project	Count
Number of Projects (>25% Spent)	21
CPI <0.9 or >1.1	2
SPI <0.9 or >1.1	2
Number of Risk Register Updates Performed in Previous Period	0
Number of Project(s) with Quality Reviews Performed in Previous Period	5



Project	Physical % Complete	CPI	SPI	Comments
Replace Backflow Preventers	98%	1.22	1.05	Change in delivery method (to self-performed) created a benefit to both cost and schedule

Station Access Program Drill Down

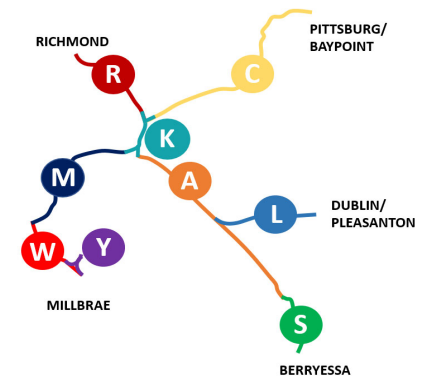
Project	Count
Number of Projects (>25% Spent)	16
CPI <0.9 or >1.1	1
SPI <0.9 or >1.1	1
Number of Risk Register Updates Performed in Previous Period	2
Number of Project(s) with Quality Reviews Performed in Previous Period	2



Project	Physical % Complete	CPI	SPI	Comments
North Berkeley Station Access Improvement	51%	1.33	0.58	Project is pending resource assignment in the field

Relieve Crowding Program Drill Down

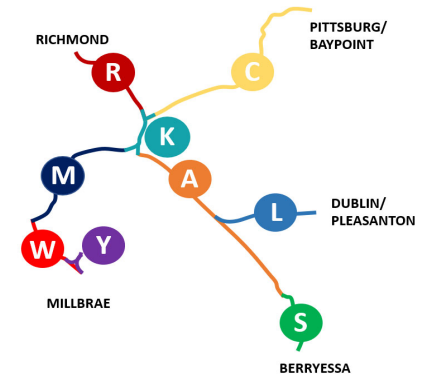
Project	Count
Number of Projects (>25% Spent)	5
CPI <0.9 or >1.1	1
SPI <0.9 or >1.1	1
Number of Risk Register Updates Performed in Previous Period	1
Number of Project(s) with Quality Reviews Performed in Previous Period	1



Project	Physical % Complete	CPI	SPI	Comments
HMC East Storage Yard	26%	0.81	0.75	Currently being reevaluated due to significant funding gap

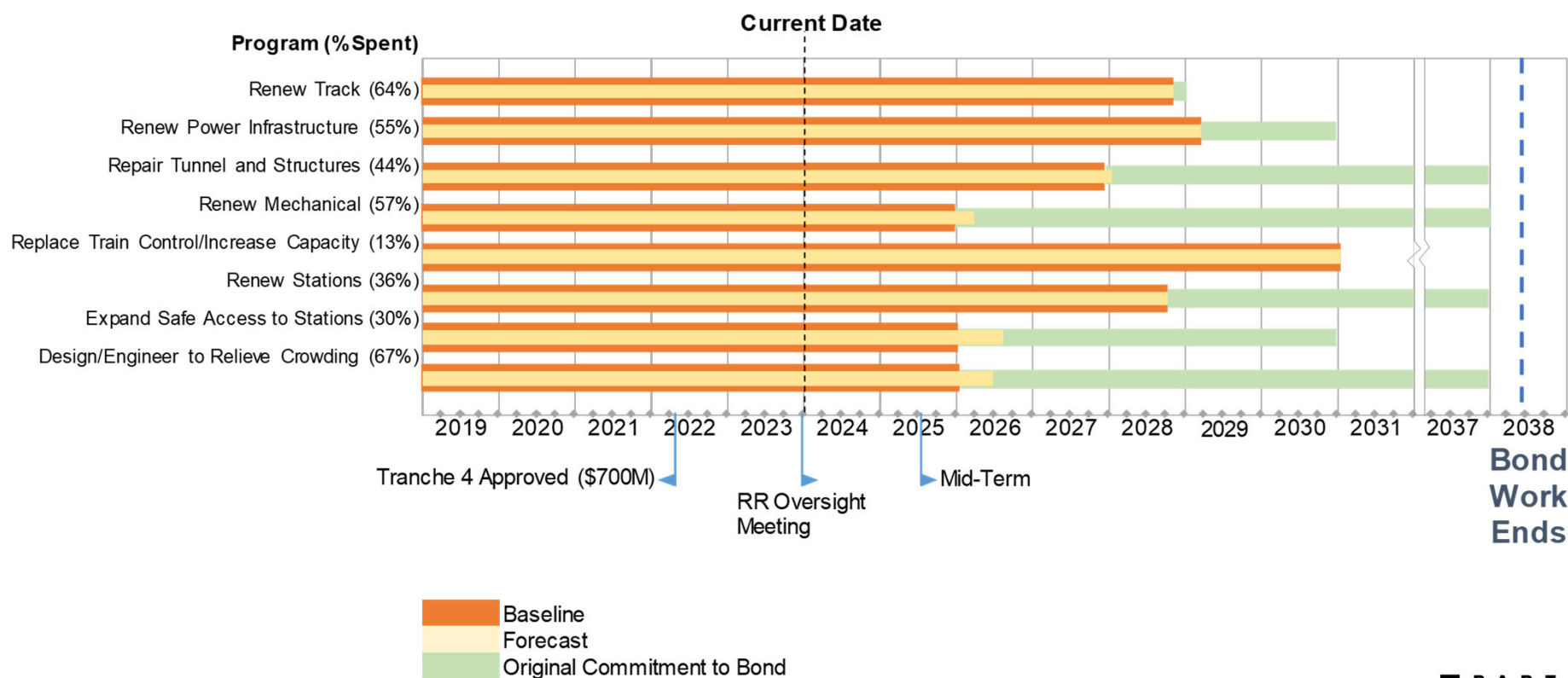
Renew Stations Program Drill Down

Project	Count
Number of Projects (>25% Spent)	7
CPI <0.9 or >1.1	1
SPI <0.9 or >1.1	1
Number of Risk Register Updates Performed in Previous Period	0
Number of Project(s) with Quality Reviews Performed in Previous Period	0



Project	Physical % Complete	CPI	SPI	Comments
Powell Street - Gateway Station	98%	1.13	0.86	Contractor performing rework to incorporate final punch list items

Program Level Schedule Update



Thank you!

