

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, September 17, 2021
9:30 a.m. – 12:00 p.m.

COMMITTEE MEMBERS: Marian Breitbart, Daren Gee, Michael McGill (Chair), Catherine Newman (Vice Chair), Cindy Simon Rosenthal, Vinit Shrawagi, Sonja C. Stewart

Please note, pursuant to Governor Newsom’s Executive Order N-08-21, public participation for this meeting will be via teleconference only.

Presentation materials will be available at: www.bart.gov/about/bod/advisory/bond

You may join the Bond Oversight Committee (BOC) Meeting via Zoom by calling 1 (669) 900-6833 and entering **meeting ID 853 7521 4238**

If you wish to make a public comment:

- 1) Submit written comments via email to ljohnso@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. in order to be included in the record.
- 2) Call 1 (699) 900-6833, enter **meeting ID 853 7521 4238** dial *9 to raise your hand when you wish to speak.

Public comment is limited to three (3) minutes per person. Your phone will be muted until you are called upon.

AGENDA

1. Call to Order (9:30 am – 9:40 am)
 - A. Roll Call
 - B. Introduction of New Committee Members
 - C. Introduction of BART Executive and Senior Staff
2. Selection of Bond Oversight Committee Chair and Vice Chair for 2021-2023 Term (For Action 9:40 am – 9:55 am)
3. Meeting Minutes: June 18, 2021 (For Discussion/Action 9:55 am – 10:00 am)
4. Annual Report Subcommittee – 2022 Annual Report - (For Discussion/Action 10:00 am – 10:15 am)
 - A. Appoint Annual Subcommittee Members and Select Chair (For Action)
 - B. 2021 Annual Report Feedback and 2022 Annual Content Suggestions (For Discussion)

5. Measure RR BART Safety, Reliability and Traffic Relief Program Presentation (For Discussion)
 - A. Office of Civil Rights (10:15 am – 10:20 am)
 1. Q&A (10:20 am – 10:30 am)
 - B. Human Resources/Staffing (10:30 am – 10:35 am)
 1. Q&A (10:35 am – 10:45 am)
 - C. Station Modernization Project – El Cerrito del Norte Station (10:45 am – 10:55 am)
 1. Q&A (10:55 am – 11:05 am)
 - D. Program Updates (11:05 am – 11:20 am)
 1. Q&A (11:20 am – 11:30 am)
6. Requests for Future Agenda Items (For Discussion 11:30 am – 11:45 am)
7. Committee Member Announcements (For Discussion 11:45 am – 11:50 am)
8. Public Comment (11:50 am – 12:00 pm)
9. Adjournment (12:00 pm)

BART provides service/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, June 18, 2021

9:30 AM – 12:00 PM

Via Zoom Conference Call

MEETING NUMBER	MEETING DATE	MEETING TIME
Term 2, Meeting 7	Friday, June 18, 2021	9:30 am – 12:00 pm
Attendees	Present Members Michael McGill, Chair Catherine Newman, Vice Chair Marian Breitbart Daren Gee Leah Edwards Sonja Stewart	Staff Robert Raburn Rodd Lee Carl Holmes Tamar Allen Shane Edwards Sylvia Lamb Veronica Thomas Linton Johnson Travis Engstrom Chris Filippi Hoa Sin Myat San Antoinette Conteh Michaela Morales Audrey Tan Vicki Tan Joseph Tanner Jamal Thompson

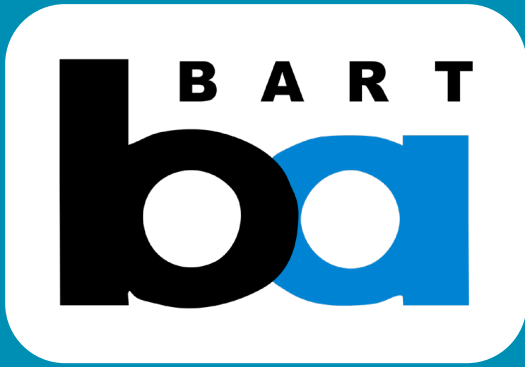
Agenda Item	Meeting Notes
1. Call to Order A. Roll Call B. Introduction of BART Staff	All committee members in attendance.
2. Meeting Minutes: March 11, 2021	L. Edwards makes the motion. S. Stewart seconds the motion. Unanimous approval.
3. Update on Committee Seat Vacancies	L. Johnson gives update on the search.
4. Update on Reappointment of Members to BOC 2021-2023 Term	L. Edwards announces her resignation. Remaining members say they wish to be re-appointed.

<p>5. Annual Report Subcommittee – 2021 Annual Report</p>	<p>C. Filippi gives an update on the subcommittee’s recommendations for the upcoming report and highlights differences between the previous annual report and the current one.</p>
	<p>Vice Chair Newman says the subcommittee is keeping an eye out on how to do a cost comparison with other agencies but reminds the full committee that D. Gee had previously warned that it’s hard to do a comparison because it’s hard to compare other agencies to BART.</p> <p>Additionally, she says the subcommittee wants to put in the next report more information around earned value. Finally, Vice Chair Newman says the subcommittee wants to hear about any audits performed on Measure RR related work.</p> <p>Vice Chair Newman says she’s excited about the public impacts page in the report.</p> <p>S. Stewart wants to understand who the stakeholders of Measure RR are and asks how BART is sharing the information with them.</p> <p>D. Gee asks for a simple survey to go out with the annual report. He wants to get public feedback on the report. C. Filippi says he will look into it.</p> <p>Vice Chair Newman says she always sends the report to the East Bay Transit Union and says that group is an opportunity to send the survey to. She also says she can forward the survey to the League of Women Voters chapters.</p> <p>M. Breitbart asks whether the funding with green bonds was more expensive. C. Filippi says in the future reports BART staff will clarify that the green bonds are not more expensive.</p> <p>L. Edwards says she thinks that this is a “great report.”</p> <p>Chair McGill requests BART submit the report for an award calling it, “outstanding.”</p>

	<p>Vice Chair Newman says she would like to have time in the September meeting time to talk about the outline for the 2022 annual report.</p> <p>Vice Chair moves to approve the 2021 Annual Report. L. Edwards seconds the motion. Unanimous approval.</p>
6. BART Safety, Reliability and Traffic Relief Program	S. Lamb gives update. Vice Chair Newman asks about the four projects under “# Projects in Bid/Award” went on page 4 of report. S. Lamb says she will find out for her and will note this information at the next meeting.
A. Office of Civil Rights	<p>J. Towner gives update.</p> <p>Vice Chair Newman wants to know which program areas of Measure RR is seeing fewer payments to small businesses.</p> <p>J. Towner says he’s not sure which programs saw the decrease. He says he’ll look at those contracts and find out what is going on to prevent small businesses from getting the work.</p> <p>S. Stewart requests that staff create stoplight reporting so the committee can tell which programs are meeting the goals and which are not. J. Towner says he will look into creating this type of reporting for the future.</p> <p>Vice Chair Newman requests that once per year the committee see how many certification applications have come in and under which major areas. J. Towner says he will have the information ready to go for the next presentation.</p> <p>D. Gee asks about the pass thru statistics for outreach events. J. Towner says BART doesn’t track that information. However, BART does track success thru the Small Business Success Services. BART tracks the numbers of those business that receive training compared with those who are awarded contracts.</p>
B. Human Resources	V. Thomas gives update.
C. Station Modernization Project	V. Tan and J. Thompson give updates.

<p>D. Program Update</p>	<p>V. Tan and J. Thompson give updates.</p> <p>M. Breitbart wants to have a better explanation on what CPI means on the Earned Value section. She wants to have the scale defined more clearly.</p> <p>S. Stewart says she wants staff to consider using a stoplight system for the Earned Value section. S. Lamb replies that staff will take that into consideration and points out that having a red, yellow, and green stoplight could convey the wrong message about a project because earned value is simply a snapshot in time and not necessarily an indication of how the project is performing overall given how early we are into construction. S. Lamb says staff will try to figure out how to display the performance of a project or program more clearly.</p> <p>Vice Chair Newman would like to have an “as of” date when these snapshots in time were taken.</p> <p>S. Stewart wants to see a presentation on how staff manages the projects. S. Lamb says we’ve presented this information before and could again.</p>
<p>7. Requests for Future Agenda Items</p>	<p>Committee approves future committee meetings for the upcoming term as the third Friday of September, December, March and June at 9:30 am.</p> <p>Vice Chair Newman says that since staff highlights a project during each meeting, if other members want to see specifics on a particular project, then members should send an email requesting staff feature the project in the September or December 2021 meetings.</p>
<p>8. Committee Member Announcements</p>	<p>None.</p>
<p>9. Public Comment</p>	<p>Director Raburn says BART is seeking applicants for the Audit Committee. The deadline is July 9.</p> <p>L. Edwards requests that a link to the announcement be emailed to the committee.</p> <p>D. Gee recognizes that Juneteenth is now a national holiday.</p>
<p>10. Adjournment</p>	<p>Chair McGill adjourns meeting.</p>

DRAFT



BART Safety, Reliability, and Traffic Relief Program (Measure RR) Update



Bond Oversight Committee
September 17, 2021



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



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Executive Summary

- Through June 2021, \$991.5M of the Measure RR funds have been invested to complete 30% of the work.
- Successes
 - Interlocking projects meeting performance metrics
 - A75 (near Hayward Yard) is completed
 - Core Capacity West Bay Substations construction in progress
 - Complete Market St. Entry Canopies systems infrastructure within Montgomery St. Station
 - Annual presentation to the board
 - Publication of the annual report
- Challenges
 - COVID-19
 - Returning to Extended service hours

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
5 (-1)	44 (-2)	14 (+1)	61	27 (+2)	151

+ (Projects added in the phase)

- (Projects no longer in the phase)



RR Program Small Business & Outreach



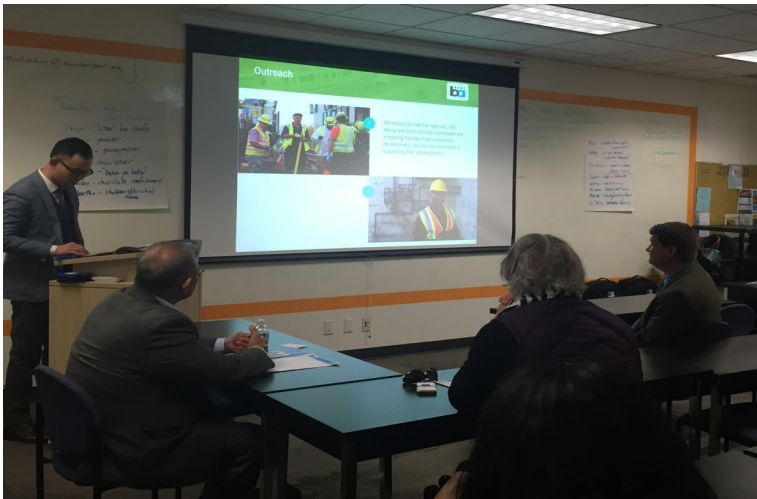
RR Program Update – Small Business

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	\$126,968,109	\$31,705,186	25%	131	\$94,425,882	\$19,171,566	20%
Renew Power	\$182,961,191	\$87,937,860	46%	182	\$126,977,752	\$82,332,515	65%
Repair Tunnels & Structures	\$138,168,000	\$28,990,230	21%	129	\$88,706,516	\$12,021,311	14%
Renew Mechanical	\$32,302,556	\$10,862,488	34%	65	\$19,790,869	\$7,608,730	38%
Replace Train Control/Increase Capacity	\$27,557,432	\$5,546,080	20%	63	\$16,621,039	\$2,046,103	12%
Renew Stations	\$133,311,112	\$27,579,861	21%	104	\$29,728,585	\$7,767,605	26%
Expand Safe Access to Stations	\$17,360,939	\$4,734,034	27%	100	\$10,469,269	\$3,668,450	35%
Design/Engineer to Relieve Crowding	\$78,254,148	\$16,468,503	21%	79	\$37,795,187	\$11,766,100	31%
Total	\$736,883,487	\$213,824,243	29%	852 (+41)	\$424,515,098	\$146,382,379	34% (-2)

Notes: All amounts are based on RR fund percent only. Amounts are updated to August 27, 2021. 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 – Outreach



• Recently Completed Events

- BART Outreach - Meet Project Staff and Learn About Upcoming HMC Opportunities
- NorCal PTAC – Matchmaking Event
- BART Outreach – How to Business with BART

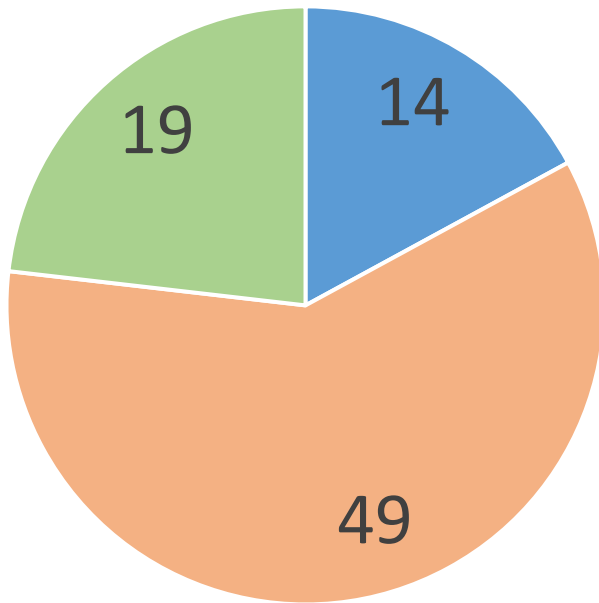


• Upcoming Events

- BART Outreach – Certifications
- BART Outreach - Meet Project Staff and Learn About Upcoming M&E Projects
- BART Outreach – Learn About BART’s Procurement Process



RR Program Update – FFY21 Certifications



■ DBE ■ M/SBE ■ M/WBE

- 82 certifications processed in FY21
- All certification decisions made within required timeframes
 - DBE: 90-days
 - M/SBE: 90-days
 - M/WBE: 30-days
- Certifications now processed electronically online via B2Gnow



RR Program Hiring



Recruitment

Bond Hiring Summary - To Date	Number of Positions
Filled Positions	260
Vacant Positions	52
Posted – Actively Recruiting	3
Interview	1

Data as of 9/2/2021

Filled Positions – 7/2021 to Present

- Principal Computer System Engineer
- Structures Worker (2)
- Senior Civil Engineer
- Special Project Manager Track and Structures
- Principal Electrical Engineer

Recruiting

- Operations Supervisor Liaison
- Project Manager
- Computer Systems Engineer

Interview

- Senior Administrative Analyst



Work Progress Since Last Meeting



Examples of Active RR Projects in May 2021 – June 2021

Measure RR - Project Progress



Renew Track

- 1 Replace Direct Fixation Pads (Systemwide Not Mapped) – Ongoing Construction
- 2 Rail Relay – Ongoing Construction - (Systemwide Not Mapped)
- 3 A65/A75 Track Interlocking Replacement – Substantially Complete*

Renew Power Infrastructure

- 4 M-Line 34.5kV Cable Replacement - Ongoing Construction
- 5 R-Line 34.5kV Cable Replacement – Ongoing Construction
- 6 Substation for Core Capacity – Ongoing Construction*

Renew Tunnel & Structures

- 7 Water Intrusion at Train Control Rooms - Ongoing Construction - (Systemwide Not Mapped)*
- 8 Earthquake Safety Program – Transbay Tube Retrofit – Ongoing Construction
- 9 Aerial Fall Protection A line North – Ongoing Construction

Renew Mechanical

- 10 Facilities HVAC Equipment Replacement System Wide Phase 1 - Ongoing Construction (Not Mapped)

Design/Engineer to Relieve Crowding

- 11 Civic Center Scissor Stairs – Ongoing Construction
- 12 Hayward Maintenance Complex Phase 2 - Civil/Grading – Award

Renew Stations

- 13 19th Street Station Modernization – Ongoing Construction
- 14 Market Street Canopies and Escalator – Ongoing Construction
- 15 Union City Station Modernization - Ongoing Construction

Expand Safe Access

- 16 eBART Antioch Parking Lot Contract – Ongoing Construction
- 17 Bicycle Stair Channels – Ongoing Construction
- 18 El Cerrito Del Norte – Phase 1 and 2 Opening

Replace Train Control/Increase Capacity

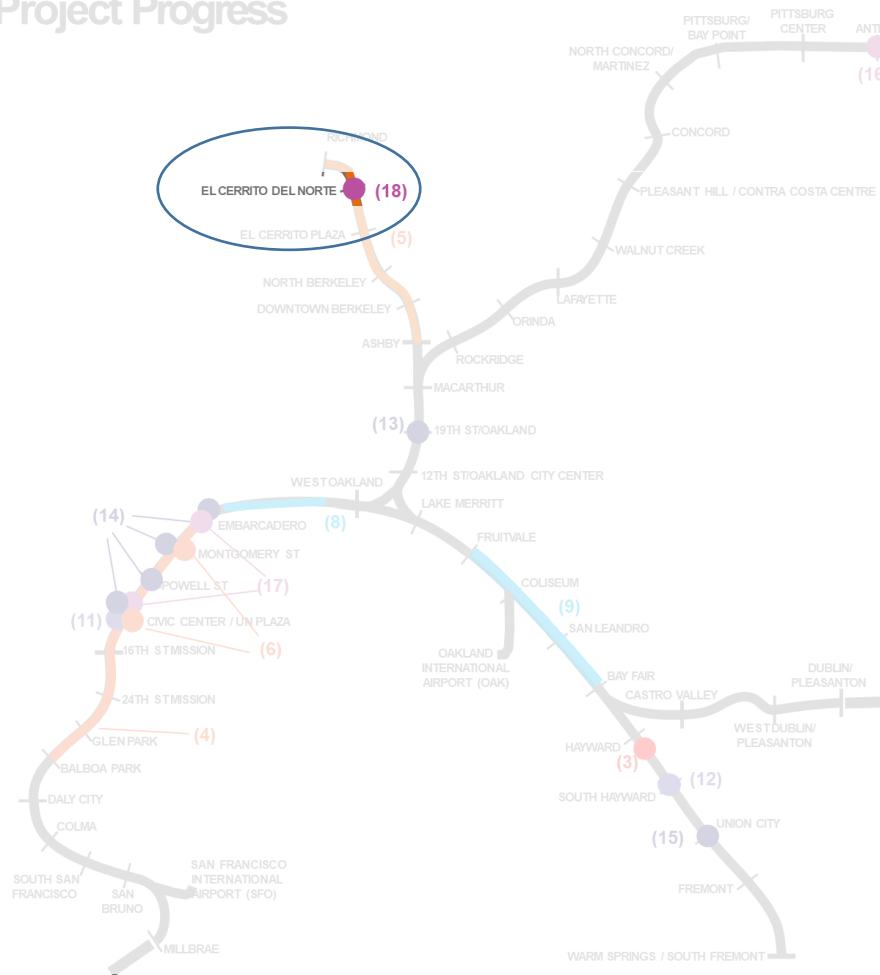
- 19 Enabling Works Contract for Power Supply Cabinets & Switch Machine/Train Control Power Cables (Systemwide Not Mapped) – Advertised

*Updated projects



El Cerrito del Norte

Measure RR - Project Progress



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Replace Train Control/Increase Capacity

- 19 Enabling Works Contract for Power Supply Cabinets & Switch Machine/Train Control Power Cables (Systemwide Not Mapped) – Advertised



BART Entrance
Proof of payment required beyond this point

Welcome to El Cerrito del Norte

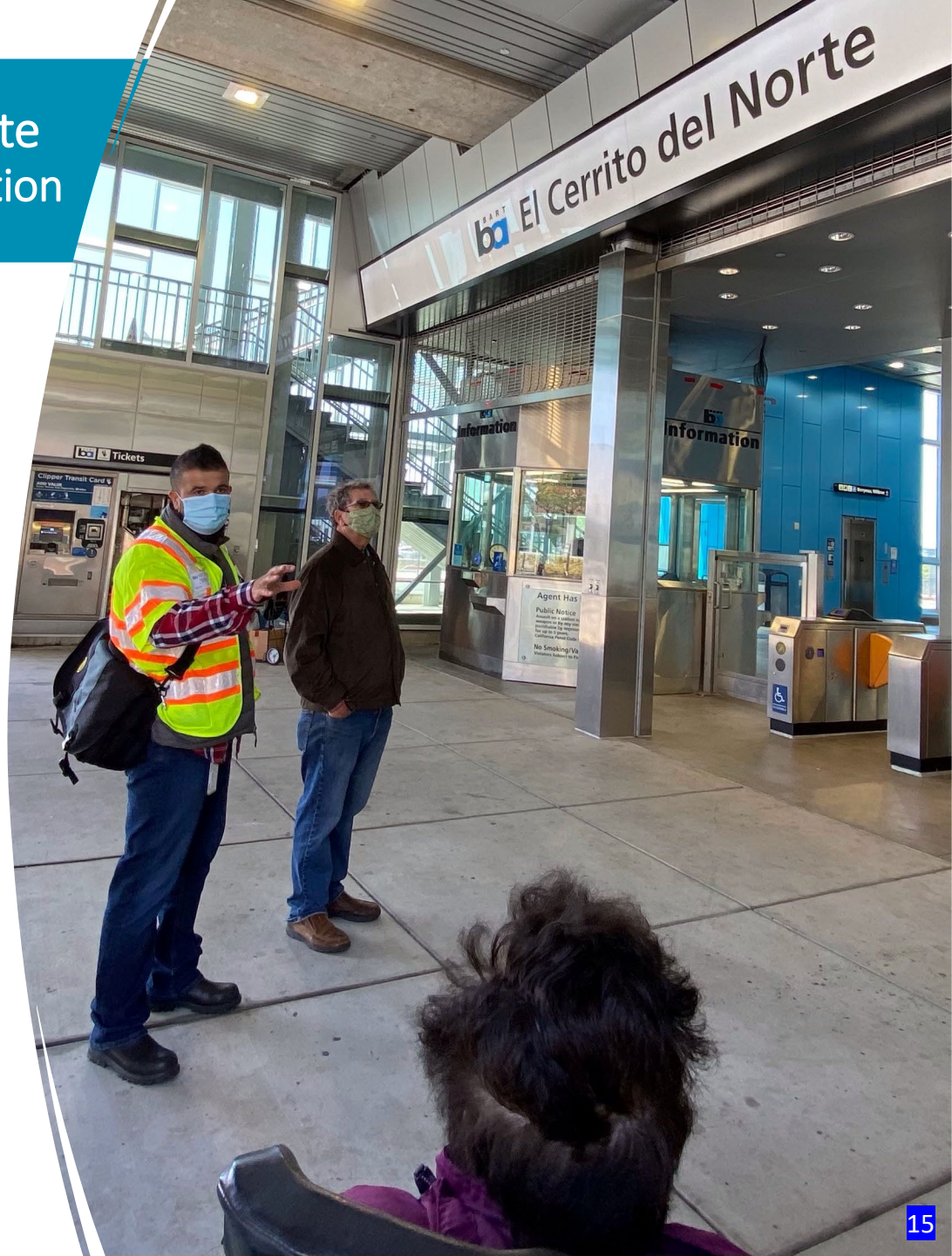




El Cerrito del Norte Station Modernization

Significant Improvements:

- Larger paid area of the station's concourse
- New LED station and emergency lighting
- Two new elevators and outboard staircases
- Floor to ceiling glass window-walls
- Two new restrooms
- Station art
- A new station agent's booth
- Wayfinding signage
- New fire-life safety system
- Intermodal access and other site enhancements





Lesson Learned

- Utilize modern technology to assist with design
- Detailed constructability reviews earlier in the design phase
- Soils testing for possible contamination
- As-built verification – actual field conditions
- Account for non-revenue shift vs graveyard shift
 - Graveyard shift: 10 pm – 6 am
 - Non-revenue shift: 1:30 am – 4 am (M-F)





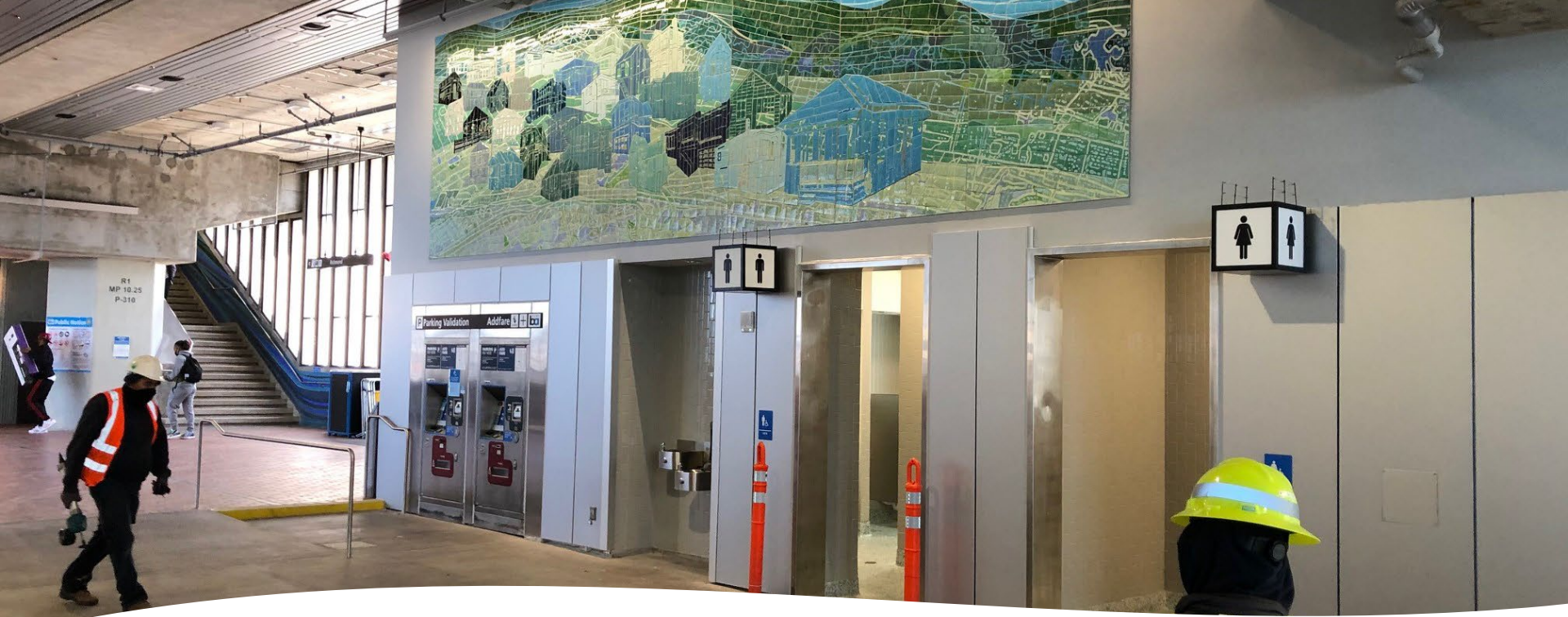
El Cerrito del Norte Station Modernization





El Cerrito del Norte – Vertical Circulation







El Cerrito del Norte Intermodal Access and Other Site Enhancements





Individual Program Milestones



Renew Track

STATUS & MILESTONES

EXPENDED Thru 06/2021: \$274.6

FORECAST Thru 9/2023: \$382

TOTAL PROGRAM VALUE: \$625

PERIOD CASHFLOW: \$13.3

STATUS – Renew Track

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
0	2	2	8	8	20

MILESTONES

Completed (May 2021 – Jun 2021)	Q1 (Jul 2021 – Sep 2021)	Q2 (Oct 2021 – Dec 2021)	Q3 (Jan 2022 – Mar 2022)
<ul style="list-style-type: none"> • Completion of Construction Shutdowns for A75 Interlocking Replacement (near Hayward Yard) • Completion of Design for Friction Modification Study • Completion of Construction for R65 Interlocking Replacement (near Richmond Station) • <i>Contract Award for A77 Interlocking Replacement Special Trackwork</i> 	<ul style="list-style-type: none"> • <i>Ongoing Construction for Direct Fixation Pad Replacement</i> • <i>Ongoing Construction for Rail Replacement</i> 	<ul style="list-style-type: none"> • Begin Construction for A77 Interlocking Replacement • Receive Rail Shipment #4 for Rail Replacement 	<ul style="list-style-type: none"> • <i>Issue for Bid K Line Interlocking Replacement Special Trackwork (near MacArthur Station)</i> • <i>Issue for Bid Richmond Yard Track Rehabilitation Special Trackwork</i>

Watchlist:

- Material acquisition (i.e., ballast, concrete, sand, etc.) for A77

Italic: Modified milestones from previous report.



Renew Power STATUS & MILESTONES

EXPENDED Thru 06/2021: \$369.4

FORECAST Thru 9/2023: \$573

TOTAL PROGRAM VALUE: \$1,225

PERIOD CASHFLOW: \$26.6

STATUS – Renew Power Infrastructure

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
0	6	4	17	2	29

MILESTONES

Completed (May 2021 – Jun 2021)	Q1 (Jul 2021 – Sep 2021)	Q2 (Oct 2021 – Dec 2021)	Q3 (Jan 2022 – Mar 2022)
<ul style="list-style-type: none"> Begin Construction for Core Capacity Substation at Montgomery Station <i>Contract Award for Procurement of Portable Traction Power Substations</i> 	<ul style="list-style-type: none"> Completion of Design for Station Fire Alarm Replacement Phase 3 <i>Contract Award for R Line 34.5kV Cable Replacement</i> 	<ul style="list-style-type: none"> Completion of Design for Station Fire Alarm Replacement Phase 4 <i>Completion of Design for the K Line 34.5kV Cable Replacement</i> <i>Completion of Design for High Voltage Blocking Scheme, Phase 2</i> <i>Completion of Design for the MXP Gap Breaker Replacement</i> 	<ul style="list-style-type: none"> <i>Issue for Bid Station Fire Alarm Replacement Phase 3</i> Substantial Completion of Steppable Trays and AFM IDS Installation for A Line 34.5kV Cable Replacement <i>Issue for Bid Walnut Creek Traction Power Substation Replacement</i>

Watchlist:

- Bid Package Development for Walnut Creek Traction Power Substation Replacement
- Design Package Revisions for Station Fire Alarm Replacement Phase 3 and Phase 4

Italic: Modified milestones from previous report.



Tunnels & Structures

STATUS & MILESTONES

EXPENDED Thru 06/2021: \$130.9

FORECAST Thru 9/2023: \$136

TOTAL PROGRAM VALUE: \$570

PERIOD CASHFLOW: \$15.7

STATUS – Repair Tunnels & Structures

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
1	12	0	8	5	26

MILESTONES

Completed (May 2021 – Jun 2021)	Q1 (Jul 2021 – Sep 2021)	Q2 (Oct 2021 – Dec 2021)	Q3 (Jan 2022 – Mar 2022)
<ul style="list-style-type: none"> • Completion of Design for Water Intrusion at Train Control Rooms (Package 1) • Completion of Construction for Safety Barriers Phase 3 	<ul style="list-style-type: none"> • <i>Completion of Design for Aerial Fall Protection (C Line)</i> • <i>Begin Construction for Aerial Fall Protection (A Line South Pilot)</i> • <i>Begin Construction for Renew Catwalks (A Line Phase 1)</i> • <i>Begin Construction for Richmond Yard Fence Rehabilitation</i> • <i>Completion of Transbay Tube M1 Bore Earthquake Retrofit</i> 	<ul style="list-style-type: none"> • <i>Completion of Design for Water Intrusion at Train Control Rooms (Package 2)</i> 	<ul style="list-style-type: none"> • <i>Completion of Design for Slope Stabilization Systemwide</i> • <i>Completion of Design for Water Intrusion at Train Control Rooms (Package 3)</i> • <i>Completion of Design for Water Intrusion at Track and Platform Joint at C and R Lines</i> • <i>Completion of Design for Water Intrusion at Track and Platform Joint at A Line</i>

Watchlist:

- Issues with delivered materials for lift assist ballards

Italic: Modified milestones from previous report.



Renew Mechanical

STATUS & MILESTONES

EXPENDED Thru 06/2021: \$55.8

FORECAST Thru 9/2023: \$77

TOTAL PROGRAM VALUE: \$135

PERIOD CASHFLOW: \$2.4

STATUS – Renew Mechanical

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
1	6	4	10	4	25

MILESTONES

Completed (May 2021 – Jun 2021)	Q1 (Jul 2021 – Sep 2021)	Q2 (Oct 2021 – Dec 2021)	Q3 (Jan 2022 – Mar 2022)
<ul style="list-style-type: none"> Completion of Construction for Replacement of Fire Hoses and Cabinets 	<ul style="list-style-type: none"> Contract Award of Design for Concord Yard Turntable Replacement Contract Award of Concord Yard Wheel Truing Machine Completion of Construction for Rotoclones Replacement Completion of Construction for HVAC Replacements Systemwide 	<ul style="list-style-type: none"> <i>Ongoing Construction for Replace Sewage Pumps</i> <i>Ongoing Construction for Richmond Yard Fire Services</i> 	<ul style="list-style-type: none"> <i>Issue for Bid Concord Yard Wheel Truing Facility Construction</i>

Watchlist:

- Bid prices for Hayward Yard Fire Services

Italic: Modified milestones from previous report.



Replace Train Control

STATUS & MILESTONES

EXPENDED Thru 06/2021: \$39.6

FORECAST Thru 9/2023: \$89

TOTAL PROGRAM VALUE: \$400

PERIOD CASHFLOW: \$3.8

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	2	4	0	6

MILESTONES

Completed (May 2021 – Jun 2021)	Q1 (Jul 2021 – Sep 2021)	Q2 (Oct 2021 – Dec 2021)	Q3 (Jan 2022 – Mar 2022)
<ul style="list-style-type: none"> • Complete CBTC Conceptual Design Review • Bid Opening for Power Supply Cabinets & Switch Machine/Train Control Cables • Finalize Demo Lidar Survey Data on S-Line 	<ul style="list-style-type: none"> • <i>Contract Award for Power Supply Cabinets & Switch Machine/Train Control Cables</i> • <i>Complete Initial Surveys for Train Control Rooms</i> 	<ul style="list-style-type: none"> • <i>Begin installation of LIDAR survey bench markers on W, Y, M, K-Lines</i> • <i>Begin Electromagnetic Compatibility (EMC)/ Electromagnetic Interface (EMI) Surveys</i> 	<ul style="list-style-type: none"> • <i>Complete CBTC Preliminary Design</i> • <i>Resolve Vital Train Length testing on test Track</i> • <i>Review of the Automatic Train Supervision (ATS) Human Machine Interface (HMI) Specification and ATS sub-system requirement specifications</i>

Watchlist:

- *Power Supply Cabinets & Switch Machine/Train Control Cables*

Italic: Modified milestones from previous report.



Renew Stations

STATUS & MILESTONES

EXPENDED Thru 06/2021: \$43.4

FORECAST Thru 9/2023: \$125

TOTAL PROGRAM VALUE: \$210

PERIOD CASHFLOW: \$5.4

STATUS – Renew Stations

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
0	2	0	6	1	9

MILESTONES

Completed (May 2021 – Jun 2021)	Q1 (Jul 2021 – Sep 2021)	Q2 (Oct 2021 – Dec 2021)	Q3 (Jan 2022 – Mar 2022)
<ul style="list-style-type: none"> Complete Market St. Entry Canopies systems infrastructure within Montgomery St. Station Completion of Construction of El Cerrito Del Norte – fully open to public Substantial Completion of Construction for Powell St. Station Modernization Sector 6 New Offices 	<ul style="list-style-type: none"> <i>Completion of Construction for 1st Group of Market St. Escalators</i> <i>Complete Market St. Entry Canopies Systems Infrastructure within Powell St. Station</i> Completion of Construction for Union City Station Modernization <i>Completion of New Glass Barriers Installation at Hallidie Plaza entrance for Powell St. Station Modernization</i> 	<ul style="list-style-type: none"> <i>Completion of Construction for 2 of 3 Second Group Market St. Escalators (Montgomery Station)</i> <i>Complete Market St. Entry Canopies Systems Infrastructure within Civic Center Station</i> <i>Completion of Construction for Public Restrooms as part of Powell St. Station Modernization</i> <i>Completion of Construction for Public Restrooms as part of 19th St. Modernization</i> 	<ul style="list-style-type: none"> Completion of Construction for 1 of 3 Second Group Market St. Escalators (Powell St. Station) Begin Construction of Canopy 12 at Montgomery St. Station and Canopy 16 at Westfield of Powell St. Station, Begin Market St. Entry Canopies Systems Infrastructure within Embarcadero Station

Watchlist:

- 19th St. Station Modernization

Italic: Modified milestones from previous report.



Station Access STATUS & MILESTONES

EXPENDED Thru 06/2021: \$30.0

FORECAST Thru 9/2023: \$37

TOTAL PROGRAM VALUE: \$135

PERIOD CASHFLOW: \$3.7

STATUS – Expand Safe Access to Stations

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
1	13	1	7	6	28

MILESTONES

Completed (May 2021 – Jun 2021)	Q1 (Jul 2021 – Sep 2021)	Q2 (Oct 2021 – Dec 2021)	Q3 (Jan 2022 – Mar 2022)
<ul style="list-style-type: none"> • Completion of Construction of El Cerrito Del Norte – fully open to public • SFMTA to Issue for Bid Civic Center Access Improvements (as part of Better Market Street Project) 	<ul style="list-style-type: none"> • <i>Begin Construction of North Berkeley Active Access Improvement (Phase 1)</i> • Issue for Bid Accessibility Improvement (Phase 1) • Completion of Construction for the Parking Lot Reconfiguration at Dublin/Pleasanton • <i>Completion of Design for 12th St. Bike Racks</i> 	<ul style="list-style-type: none"> • <i>Completion of Construction for Warm Springs West Pedestrian Bridge and Plaza Project</i> • <i>Completion of Construction for eBART Antioch Parking Lot</i> • SFMTA to Issue for Bid Civic Center Access Improvements (as part of Better Market Street Project) • <i>Completion of Design of Balboa Park – Upper Plaza project</i> 	<ul style="list-style-type: none"> • Completion of Construction for 12th St. Bike Racks • Begin Construction for Accessibility Improvement (Phase 1)

Watchlist:

- None



Relieve Crowding STATUS & MILESTONES

EXPENDED Thru 06/2021: \$47.7

FORECAST Thru 9/2023: \$76

TOTAL PROGRAM VALUE: \$200

PERIOD CASHFLOW: \$7.7

STATUS – Design / Engineer to Relieve Crowding

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
2	3	1	1	1	8

MILESTONES

Completed (May 2021 – Jun 2021)	Q1 (Jul 2021 – Sep 2021)	Q2 (Oct 2021 – Dec 2021)	Q3 (Jan 2022 – Mar 2022)
<ul style="list-style-type: none"> Contract Award for NTRC (Link21) Program Begin Steel Erection for Civic Center Station Scissor Stairs Completion of Design for Millbrae Tail Tracks Extension 	<ul style="list-style-type: none"> First Round of Public Outreach for Link21 (NTRC) Program <i>NTP for Hayward Maintenance Complex Phase 2: Civil/Grading</i> 	<ul style="list-style-type: none"> Complete 60% submittal for re-design of Hayward Maintenance Complex Phase 2: East Storage Yard <i>Second Round of Public Outreach for Link21 (NTRC) Program</i> 	<ul style="list-style-type: none"> <i>Completion of Construction for Civic Center Station Scissor Stairs</i>

Watchlist:

- Hayward Maintenance Complex Phase 2: Civil/Grading

Italic: Modified milestones from previous report.



Budget and Schedule Status



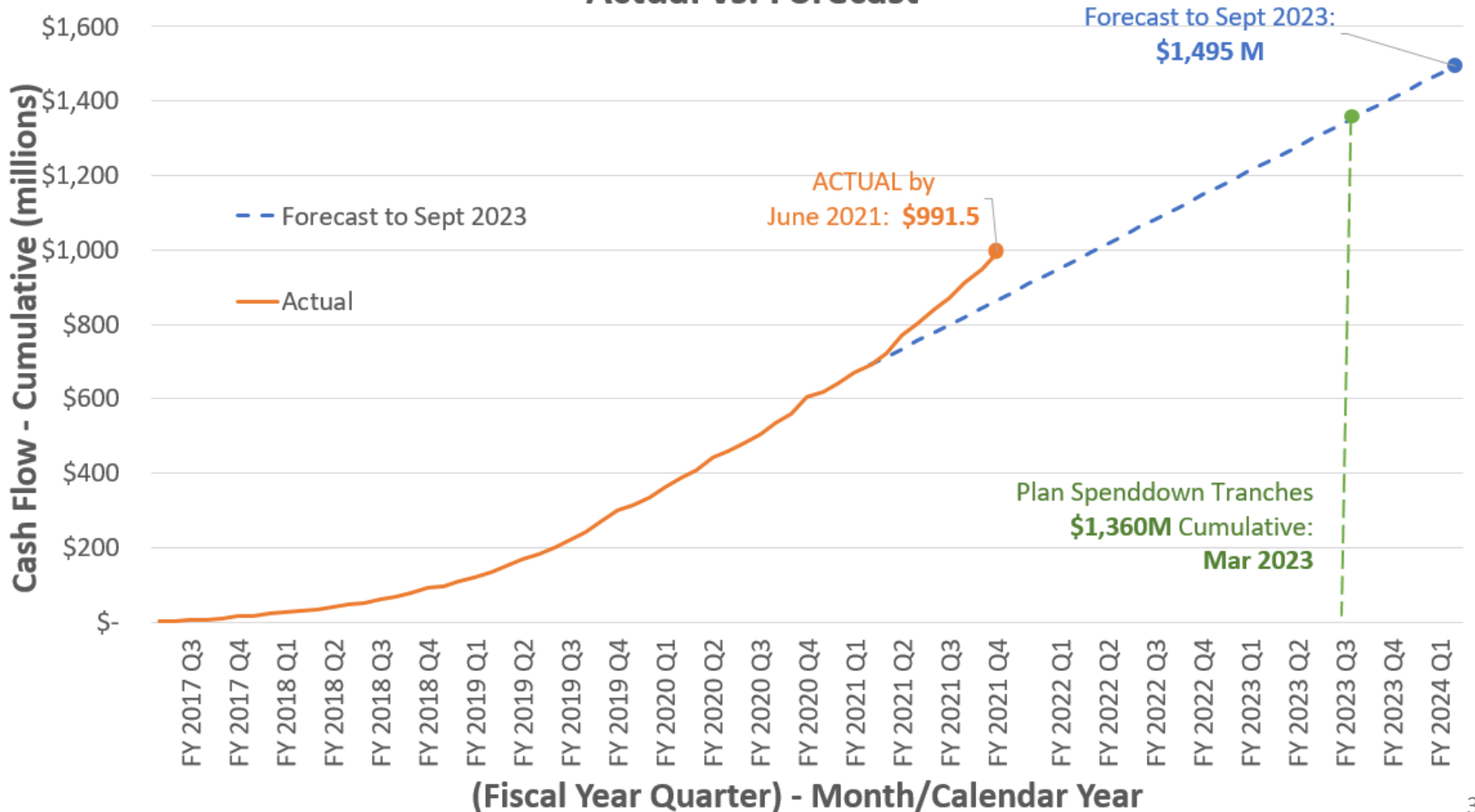
Measure RR Cashflow (\$ Millions) – Mid-Term & Long-Term Outlook

Program	Expended (thru April 2021)	Expended (thru June 2021)	Period Cashflow (May 2021 – June 2021)	% Expended out of Total Bond Investment	Forecast Expenditures		
					SHORT- TERM (thru September 2023)	MID-TERM (thru 2025)	LONG-TERM (thru End of Bond)
Renew Track	\$261.3	\$274.6	\$13.3	44%	\$382	\$400	\$625
Renew Power Infrastructure	\$342.8	\$369.4	\$26.6	30%	\$573	\$608	\$1,225
Repair Tunnels & Structures	\$115.2	\$130.9	\$15.7	23%	\$136	\$268	\$570
Renew Mechanical	\$53.5	\$55.8	\$2.4	41%	\$77	\$65	\$135
Replace Train Control/Increase Capacity	\$35.8	\$39.6	\$3.8	10%	\$89	\$286	\$400
Renew Stations	\$38.0	\$43.4	\$5.4	21%	\$125	\$148	\$210
Expand Safe Access to Stations	\$26.4	\$30.0	\$3.7	22%	\$37	\$86	\$135
Design/Engineer to Relieve Crowding	\$40.0	\$47.7	\$7.7	24%	\$76	\$69	\$200
Total	\$913.0	\$991.5	\$78.6	28%	\$1,495	\$1,930	\$3,500



RR Overall Program Budget Progress

BART Measure RR Program Spending Actual vs. Forecast





Earned Value Rollup by Program

as of June 30, 2021

RR Program	Total RR Budget	Physical % Complete	Planned Value	Earned Value	RR Accrued to Date	CPI	SPI
Renew Track	\$625	50%	\$306.96	\$312.56	\$314.17	0.99	1.02
Renew Power	\$1,225	33%	\$525.62	\$403.47	\$449.32	0.90	0.77
Repair Tunnels and Structures	\$549	18%	\$128.32	\$98.81	\$102.93	0.96	0.77
Renew Mechanical	\$156	38%	\$67.89	\$58.82	\$58.47	1.01	0.87
Replace Train Control/ Increase Capacity	\$400	11%	\$44.54	\$42.76	\$39.59	1.08	0.96
Renew Stations	\$210	22%	\$46.48	\$45.92	\$43.63	1.05	0.99
Expand Safe Access to Stations	\$135	22%	\$34.24	\$30.33	\$31.74	0.96	0.89
Design/Engineer to Relieve Crowding	\$200	27%	\$58.81	\$53.78	\$54.42	0.99	0.91
Total	\$3,500	30%	\$1,212.86	\$1,046.44	\$1,094.28	0.96	0.86



Track Program Drill Down

Project	Count
Number of Projects (>25% Spent)	14
CPI <0.9 or >1.1	6
SPI <0.9 or >1.1	3
Number of Risk Register Updates Performed in Previous Period	2
Number of Project Quality Reviews Performed in Previous Period	6

Project	Physical % Complete	CPI	SPI	Comments
C25 Interlocking Replacement	99%	1.13	0.99	Realized savings during construction.
R65 Mainline Interlocking	98%	1.23	0.98	Realized savings during construction.
Replace Direct Fixation Pads	80%	1.02	1.93	More than 2,000 pads installed since last report. Continuing to benefit from extended blanket hours due to COVID-19 response
Frog Capital Maintenance	68%	1.22	1.07	Extended blanket hours increased production efficiency
Rail Reprofilng	58%	1.37	1.42	Benefitting from extended blanket hours due to COVID-19.
Rail Replacement	54%	0.85	0.90	Expending more than anticipated and expect to recover over project duration. Schedule delay is result of rail delivery. Installation is on schedule.
Oakland Yard Tracks Project	48%	1.00	0.88	Differing site conditions impacting schedule.
Switch Replacement	41%	0.79	1.07	Additional cost incurred to accelerate work.



Power Program Drill Down

Project	Count
Number of Projects (>25% Spent)	15
CPI <0.9 or >1.1	5
SPI <0.9 or >1.1	7
Number of Risk Register Updates Performed in Previous Period	3
Number of Project Quality Reviews Performed in Previous Period	11

Project	Physical % Complete	CPI	SPI	Comments
San Leandro and Transbay Tube East Substation Replacements	50%	0.97	0.81	Accelerating portable substation work to recover schedule. Expected to finish on schedule.
M-Line 34.5 kV AC Cable Replacement	74%	1.03	1.27	Benefitting from extended blanket hours due to COVID-19.
MPR Install & Rectifier Rehab	43%	1.12	0.82	Self-performing with shared resources reducing cost and impacting schedule. No impact to program
CWS Bulk Supply Transformer	42%	0.88	0.86	Transformer installation delay
34.5kV Blocking Scheme Systemwide	30%	0.59	0.30	Transitioned to self-performed work to reduce cost and recover schedule. No impact to program.
Cast Coil Transformer Replacement	29%	0.90	0.42	Rejected all bids. Strategic resequencing of work. No impact to program.
PG&E Power Feed MXP Gap Break	28%	0.88	0.33	Delayed to address design quality.



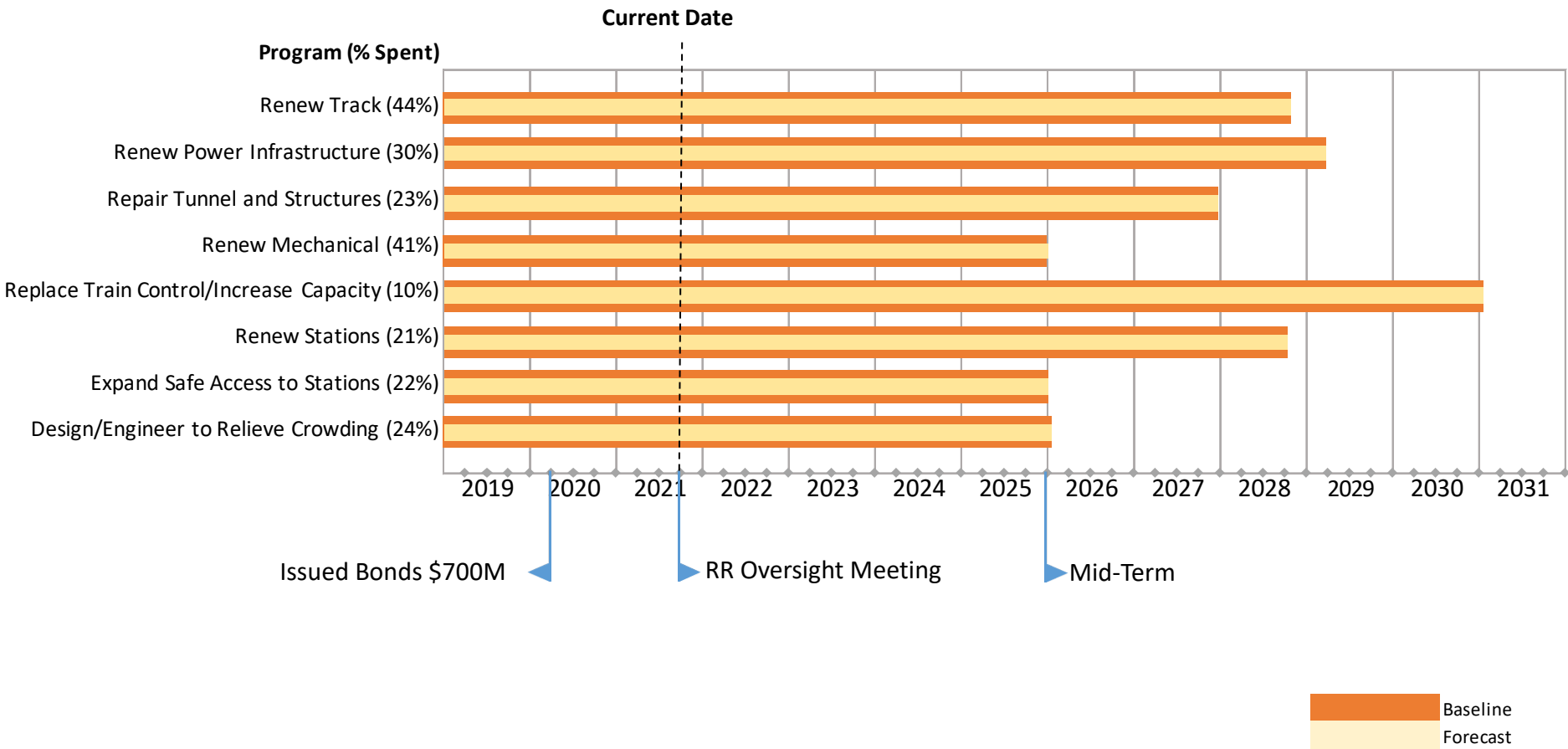
Mechanical Program Drill Down

Project	Count
Number of Projects (>25% Spent)	21
CPI <0.9 or >1.1	1
SPI <0.9 or >1.1	3
Number of Risk Register Updates Performed in Previous Period	1
Number of Project Quality Reviews Performed in Previous Period	3

Project	Physical % Complete	CPI	SPI	Comments
Install Access Ladders	99%	1.00	1.14	All ladders installed. Benefitted from extended blanket hours due to COVID-19 response.
Replace Fire Hoses and Piping	95%	1.23	1.04	Self-performing to improve efficiency. Benefitting from reassignment of labor resources due to COVID-19 response.
Rotoclones Replacement (Wet Dust Collectors)	82%	0.99	0.82	Sites are being worked in parallel to recover project schedule.
Replace Backflow Preventers	39%	1.10	0.60	No bids received. Work self performed at two locations. Five locations to be complete by service contract.



Program Level Schedule Update





Next Steps

- Begin Construction for A77 Interlocking Replacement Special Trackwork
- Demolition and Site Preparation for Installation of New Traction Power Substation at Montgomery Station
- Progressing with Construction of S.F. Market St. Canopies and Escalators Replacement Projects
- December 2021 Bond Oversight Meeting