

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
300 Lakeside Drive, P. O. Box 12688, Oakland, CA 94604-2688

NOTICE OF MEETING AND AGENDA
BOND OVERSIGHT COMMITTEE

Friday, December 18, 2020
9:30 a.m. – 12:00 p.m.

COMMITTEE MEMBERS: Marian Breitbart, Michael Day, Leah Edwards, Daren Gee, Michael McGill, Catherine Newman, Sonja Stewart

Please note, pursuant to Governor Newsom’s Executive Order N-29-20 and the California Shelter-in-Place mandate, which prevents all but essential travel, 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 Meeting via WebEx by calling 1-888-204-5987 (US/Canada) and entering access code 686 641 8.

If you wish to make a public comment:

Submit written comments via email to mmorale@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.

Public comment is limited to three (3) minutes per person.

AGENDA

1. Call to Order (5 minutes)
 - A. Roll Call
 - B. Welcome Sonja Stewart and Introduction of BART Staff
2. Meeting Minutes: September 18, 2020 (For Discussion/Action) (5 minutes)
3. Adoption of Standing Rules (For Discussion/Action) (5 minutes)
4. Set Dates for 2021 Bond Oversight Committee Meetings (For Discussion) (5 minutes)
5. Annual Report Subcommittee –2021 Annual Report (For Discussion) (20 minutes)
 - A. Review Draft Outline (For Discussion) (15 minutes)
 - B. Set Date for Subcommittee Meetings (For Discussion) (5 minutes)
6. BART Safety, Reliability and Traffic Relief Program (Measure RR) Presentation (For Discussion) (72 minutes)
 - A. Office of Civil Rights (5 minutes)
 1. Q&A (10 minutes)
 - B. Human Resources/Staffing (5 minutes)
 1. Q&A (10 minutes)

C. Station Modernization Project – Union City (10 minutes)

1. Q&A (10 minutes)

D. Program Updates (12 minutes)

1. Q&A (10 minutes)

7. Requests for Future Agenda Items (For Discussion) (5 minutes)
8. Committee Member Announcements (For Discussion) (5 minutes)
9. Public Comment (5 minutes)
10. Adjournment (5 minutes)

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 (BART)
Safety, Reliability and Traffic Relief Program

Citizens' Bond Oversight Committee
Standing Rules & Application and Appointment Procedures

Standing Rules

1. ~~Citizens' Members~~ appointed to the BART Safety, Reliability and Traffic Relief Program Citizens' Bond Oversight Committee ("Committee") shall be appointed for a two-year ~~term~~Term without compensation. Members are eligible for three, two-year ~~term~~Terms. The BART Board shall appoint the members of the Committee and assign a commencement date. All term~~Terms~~ shall commence on the day of appointment by the BART Board and shall terminate on the second anniversary date of such commencement date. The BART Board may appoint an alternate to each Committee member. Each committee member shall have a designated alternate selected by the BART Board. If a the C~~ommittee~~ member is unable to complete his, -or-her, or their term~~Term~~, the appointed an~~-alternate~~ member will be appointed by the BART Board to shall fill the vacancy and complete the appointment~~term~~Term.
2. Each Term shall be two-years.
3. The inaugural Term began July 1, 2017 and ended on June 30, 2019. The initial meeting will be an orientation and overview of the project. The first meeting of the Committee will be scheduled in the Spring of 2017.
2. New members appointed to the Committee after the initial orientation will receive an individual orientation.
- 3.4. Meetings shall be held quarterly~~semi-annually~~, and the Committee may elect to increase change the frequency as long as there are at least four meetings each Term.
- 4.5. The meetings will be held at BART headquarters. in the BART board room, 344 20th Street, 3rd Floor, in Oakland, CA.
6. At the beginning of each Term, t~~The~~ Committee will elect select a Chair and Vice Chair. Both who shall~~will~~ serve for no more than three Terms, a one-year term.
 - a. The Chair will function as the spokesperson for the Committee
 - b. Should the Chair resign or be removed, the Vice Chair will immediately become the Chair and the Committee shall elect a new Vice Chair at its next regularly scheduled meeting.

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~~5. The Chair will function as the spokesperson for the Committee.~~

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~~6.7.~~ Staff will organize and assemble materials for review including construction schedules, scope of work, budget and information about the issuance of bonds. Technical staff will be present at each meeting to guide Committee members through the documents and answer questions.

~~8.~~ Members must diligently attend meetings. Staff shall maintain meeting attendance records. If a member fails to attend at least fifty percent (50%) of meetings during a calendar year, staff shall prepare and submit to the BART Board of Directors a report detailing the attendance of the member and recommend appropriate action.

~~7.9.~~ Appointed members must attend 50% of the meetings annually to continue as a member of the Committee. If participation falls below 50%, the alternate will be appointed by the Board to take the place of the appointed member. If both the appointed member and the alternate are unable to continue, the vacancy will be noticed and applications sought. The seat will remain open until filled.

~~8.10.~~ The Committee is subject to all provisions of the Ralph M. Brown Act, California Government Code Section 54950 et seq. (as amended), which mandates open meetings for local legislative bodies. The public will be invited to attend all committee meetings.

~~9.11.~~ Staff will prepare minutes of each meeting.

~~10.12.~~ The Committee will publish a public report once per year.

~~11.13.~~ Once appointed, Committee members are required to comply with disclosure and conflict of interest requirements of the Political Reform Act of 1974, California Government Code Section 81000 et seq. (as amended), and must complete and file all necessary disclosure documents, including an annual conflict of interest statement. Committee members shall avoid impropriety and the appearance of impropriety, and shall not use their appointed position to further their own financial gain or for any other purpose not directly related to the governmental function they have been appointed to perform. Specifically, Committee membership shall be restricted to individuals without financial interest in any Measure RR program. Committee members are defined as "public officials" (California Government Code Section 82048), and no public official shall make, participate in making, or in any way attempt to use his or her official position to influence a governmental decision in which he or she knows, or has reason to know, he or she has a financial interest. Having a financial interest in a decision is defined by California Government Code Section 87103.

~~12.14.~~ Neither the member of the Citizens' Bond Oversight Committee nor the firm by which they are employed or have an ownership interest in will be eligible to bid on BART Safety, Reliability and Traffic Relief Program work.

~~13.15.~~ Once appointed, Committee members are defined as "officers" and hence are governed by California Government Code Section 3201 et seq. (as amended), relating to political activities. Specifically, political activities, such as soliciting or receiving funds or contributions for a candidate or ballot measure during Committee meetings are prohibited.

~~14.16.~~ Following orientation, Committee members shall be responsible for having a working knowledge of the establishing ordinance, by-laws, federal or state mandates or any other governing regulations that define and set forth the intent and purpose of their appointment and shall only represent and act on matters related thereto.

~~15.17.~~ The BART Board shall retain the authority to rescind any Committee appointment(s), as deemed necessary.

~~16.18.~~ The District shall maintain a public information list of members and designated alternates appointed to the Citizens' Bond Oversight Committee. The list shall include the name of the appointee, the date the ~~term~~Term expires, and affiliation and/or nominating organization. The list shall be updated annually.

~~17.19.~~ Committee meeting announcements will be posted alongside BART Board meeting notices outside of the BART Board Room Facility.

~~18.20.~~ A Citizens' Bond Oversight Committee section will be included within the BART website. Information about the Citizens' Bond Oversight Committee and the Committee's Reports shall be posted in this section.

Application and Appointment Procedures

~~1.~~ ~~Notice of application for appointment to the Citizens' Oversight Committee shall be posted on the BART website and provided to all BART Board Directors, qualified nominating professional organizations and main libraries of the cities within the three BART District counties.~~

~~2.1.~~ Three qualified applications are expected to be submitted to BART by all 6 nominating organizations.

~~3.2.~~ The BART Board will select 7 members and up to 7 alternates. Applicants recommended by the staff for appointment are expected to attend the selection meeting to answer any questions the Board may have.

Certification of Understanding

Please return with your completed application form and resume.

I certify that I have read and understand all the above information included in the Standing Rules, and Application and Appointment Procedures document.

Signature: _____

Date: _____

2021 RR Annual Report Outline

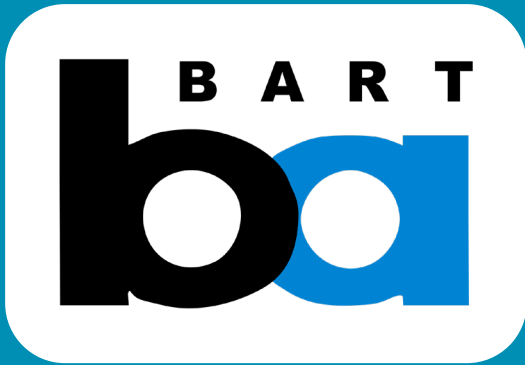
Key comments/guidance from meeting with annual report subcommittee

- COVID impacts on rebuilding to be key theme of report. Desire for individual section on COVID and for impacts to be weaved throughout report.
- Provide greater context. Not only on what progress has been made but how it compares with initial expectations. Work with subcommittee on ideas for new/expanded charts.
- Identify how BART is being efficient with its rebuilding resources.
- Interest in adding an appendix or links to info/data already available on BART.gov. Could include a full project list, hiring breakdown, and bond information.
- Continue to focus and improve on communicating in an easily understood way with as little BART-speak as possible. Explain terms of art to enhance understanding and context.

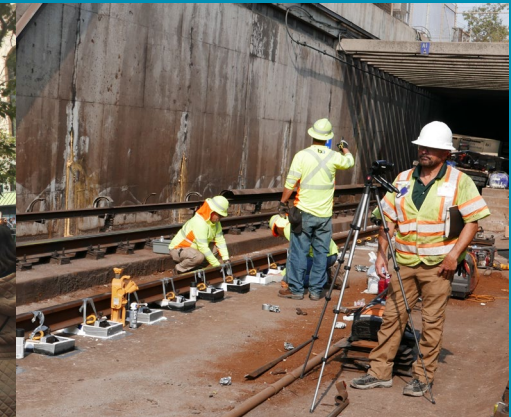
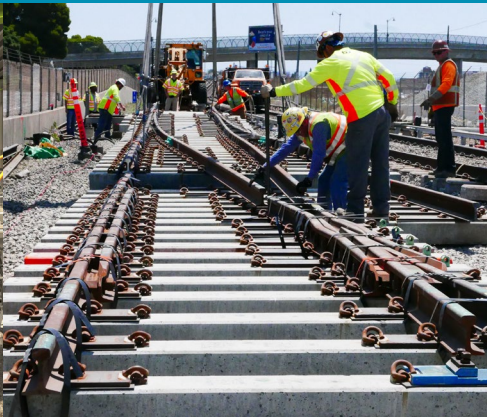
Report Outline

1. Table of Contents
2. Committee Chair Welcome Letter
3. Executive Summary
 - a. Explain what committee is charged with presenting.
 - b. Provide number of projects underway and total spent.
 - c. Mention COVID and foreshadow how it'll be addressed in rest of the report.
 - d. Offer insight on where Measure RR is compared with where we hoped to be at this point.
4. About the Bond Oversight Committee
 - a. List organizations represented on committee and explain its oversight role for RR.
5. Story of Measure RR
 - a. Explain the basics of the bond measure.
 - b. How RR made the ballot/public outreach leading up to vote.
6. BART's rebuilding program responds to the pandemic
 - a. Explore how BART has been able to advance some rebuilding projects.
 - b. What is being done to keep workers safe in this new environment?
 - c. Examine challenges presented by pandemic (supply chain, shifting construction costs, safety)
 - d. Load shedding: What is it and what are the benefits?
 - e. Highlight how BART has been transparent throughout in its response.
7. Highlight most visible projects (will work on title)
 - a. Describe major track work/cable replacement and public outreach for those projects.
 - b. Show steps taken to lessen public impacts track shutdowns/single tracking.
 - c. Describe the depth and level of coordination required to successfully complete major projects.
 - d. Highlight major impacts coming up.
8. The Lifespan of Measure RR
 - a. Revised bar graph that shows expected durations of each of the eight major project categories.
9. Putting People to Work

- a. Highlight/profile those who are making RR projects happen.
 - b. Describe how many jobs created through RR work.
10. Small Business Outreach
 - a. Update status of small business contracts.
 - b. Profile small businesses doing RR work.
 - c. Detail small business outreach efforts.
11. Innovations in Infrastructure
 - a. Based on presentation to BART Board in September.
 - b. Highlight new ideas being implemented to move BART away from being reactive to emphasizing predictive actions.
12. Green Bonds
 - a. Explain what green bonds are and why the designation matters.
 - b. Where things stand after issuance of second tranche of bonds.
13. Measure RR Spending Breakdown
 - a. Chart showing percentage of total bond expended on major project groups.
14. RR – Only Part of the Solution
 - a. Pie chart that shows all funding categories and remaining gap.
 - b. Outline overall rebuilding plan and how RR fits in.
15. Exceeding Bond Requirements
 - a. Explain legal spending requirements.
 - b. Describe whether RR spending is meeting those regulations.
16. Major Project Sections
 - Include system maps to show all projects for each category to highlight on-going RR work.
 - Highlight major accomplishments as well as total amount spent for each section.
 - a. Renew Track
 - b. Renew Power Infrastructure
 - c. Repair Tunnels and Structures
 - d. Renew Mechanical.
 - e. Renew Stations
 - f. Train Control Modernization
 - g. Relieve Crowding
 - h. Access Improvements
17. Committee Activities and Expenditures
 - a. Meeting recaps.
 - b. Expenditure total for committee.



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



Bond Oversight Committee
December 18, 2020



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 October 2020, \$689.8M of the Measure RR funds have been invested to complete 23% of the work.
- Successes
 - Received Full Funding Grant Agreement and award Train Control Modernization design-build contract
 - Safe Routes to BART Grant Program – first four projects selected
 - Interlocking projects meeting performance metrics
 - A65 is complete
- Challenges
 - COVID-19
 - Early retirement incentive

| # Projects in Planning | # Projects in Design | # Projects in Bid/Award | # Projects in Construction | # Projects Completed | TOTAL # Projects |
|------------------------|----------------------|-------------------------|----------------------------|----------------------|-------------------------|
| 6 (-1) | 45 (-7) | 21(-3) | 57 (+10) | 19 (+1) | 148 |

+ (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 | \$102,364,202 | \$31,216,203 | 30% | 106 | \$58,292,801 | \$11,820,537 | 20% |
| Renew Power | \$165,282,688 | \$81,211,507 | 49% | 160 | \$106,780,896 | \$64,715,137 | 61% |
| Repair Tunnels & Structures | \$106,630,911 | \$26,396,902 | 25% | 105 | \$59,186,986 | \$9,123,265 | 15% |
| Renew Mechanical | \$30,343,198 | \$10,622,651 | 35% | 55 | \$15,645,706 | \$5,598,265 | 36% |
| Replace Train Control/Increase Capacity | \$10,856,044 | \$2,353,513 | 22% | 35 | \$7,272,080 | \$1,235,048 | 17% |
| Renew Stations | \$144,001,101 | \$26,379,454 | 18% | 82 | \$20,248,238 | \$5,602,292 | 28% |
| Expand Safe Access to Stations | \$15,404,733 | \$4,214,087 | 27% | 92 | \$7,754,413 | \$2,803,294 | 36% |
| Design/Engineer to Relieve Crowding | \$53,462,112 | \$14,193,410 | 27% | 47 | \$10,305,042 | \$4,794,689 | 47% |
| Total | \$ 628,344,990 | \$196,587,727 | 31% | 681 | \$285,486,163 | \$105,692,526 | 37% |

Notes: All amounts are based on RR fund percent only. Amounts are updated to November 13, 2020. 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 SB Outreach - Meet Project Staff and Learn About Upcoming RR Opportunities
 - BART SB Outreach - How to do Business with BART
 - BART SBSS - Ask Me Anything (Estimating & Bidding)
 - BART SBSS - Ask Me Anything (Finance & Administration)



- Upcoming Events
 - BART SBSS - Technical Assistance “Help Desk”
 - BART SB Outreach – Learn About BART’s Procurement Process
 - BART SB Outreach - Meet Project Staff and Learn About Upcoming RR Opportunities



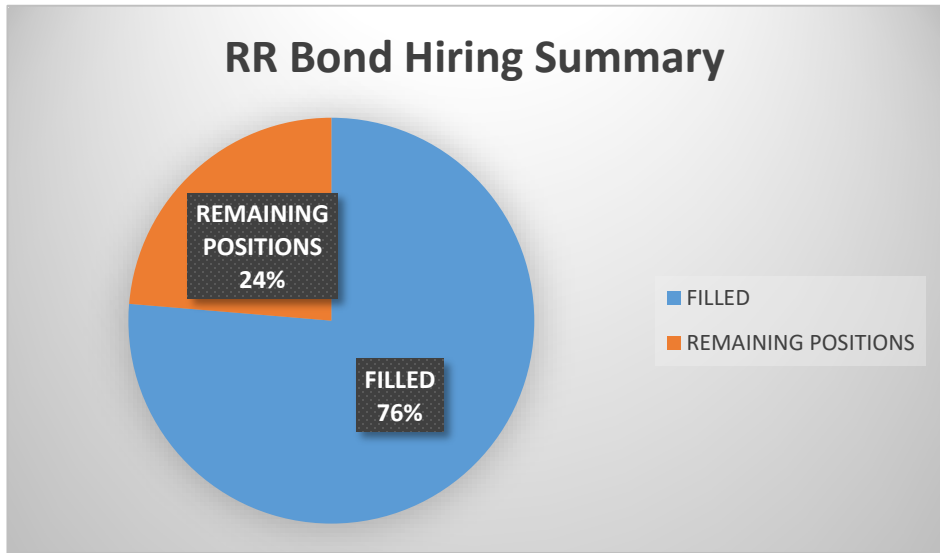
RR Program Hiring



Recruitment

| Bond Hiring Summary- To Date | # of Positions |
|------------------------------|----------------|
| FILLED | 332 |
| REMAINING POSITIONS | 103 |
| | 435 |

- 332 positions filled to date
- 76% of hiring goal fulfilled to date
- Load Shedding
- 20 positions – pending recruitments



Load Shedding Operating to Capital due to Service Reduction

Next Quarter staffing load shedding estimated 110 for temporary reallocation to take advantage of increased blanket time



Work Progress Since Last Meeting



Examples of Active RR Projects in August 2020 – October 2020

Measure RR - Project Progress



Renew Track

- 1 Replace Direct Fixation Pads (Systemwide Not Mapped) – Ongoing Construction
- 2 Oakland Yard Track Geometry Vehicle Storage Shed – NTP Issued*
- 3 Rail Relay – Ongoing Construction - (Systemwide Not Mapped)
- 4 A65 Track Interlocking Replacement – Ongoing Construction*

Renew Power Infrastructure

- 5 M-Line 34.5kV Cable Replacement - Ongoing Construction
- 6 A-Line 34.5kV Cable Replacement – Contract Awarded
- 7 Third Rail Replacement (Systemwide Not Mapped) – Ongoing Construction

Renew Tunnel & Structures

- 8 Substation Walls – Ongoing Construction (Systemwide Not Mapped)*
- 9 Earthquake Safety Program – Transbay Tube Retrofit – Ongoing Construction
- 10 Aerial Fall Protection A line North – Contract Awarded*
- 11 Richmond Yard Fence Rehabilitation – Contract Awarded*

Renew Mechanical

- 12 Coverboard Enhancement – Ongoing Construction
- 13 Facilities HVAC Equipment Replacement System Wide Phase 1 - Ongoing Construction (Not Mapped)

Design/Engineer to Relieve Crowding

- 14 Civic Center Scissor Stairs – Ongoing Construction
- 15 Hayward Maintenance Complex Phase 2 - Trackwork Procurement – Contract Awarded*

Renew Stations

- 16 19th Street Station Modernization – Ongoing Construction
- 17 Market Street Canopies and Escalator – Ongoing Construction*
- 18 Union City Station Modernization - Ongoing Construction*

Expand Safe Access

- 19 eBART Antioch Parking Lot Contract – Ongoing Construction*
- 20 Embarcadero and Civic Center Bike Station Modernization – Project Close Out*
- 21 Safe Route to BART Grant Program – Launched (Not Mapped)

Replace Train Control/Increase Capacity

- 22 CBTC Design Build Contract – NTP (Systemwide Not Mapped)

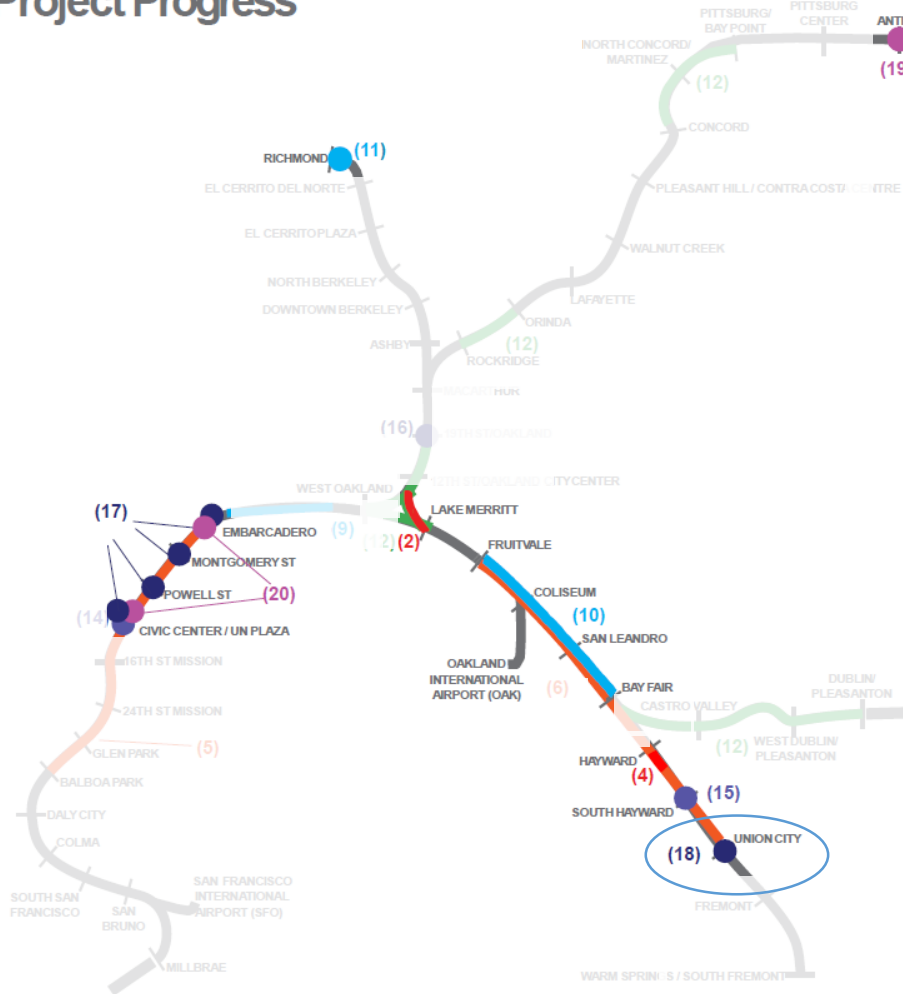
*Updated projects

Projects with Accelerated work due to COVID-19 service reduction



Updated Projects

Measure RR - Project Progress



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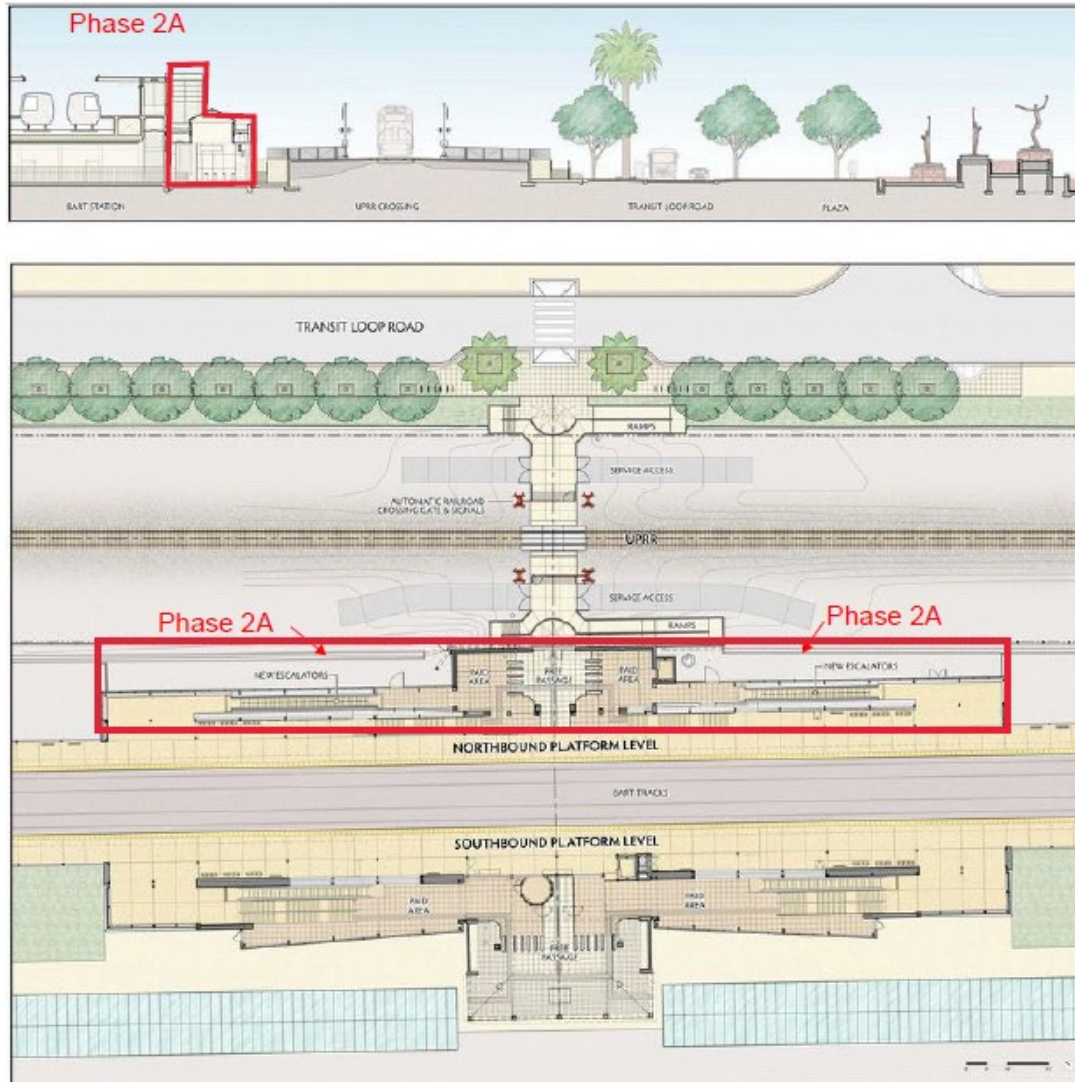


Union City Station East Side Elevation Rendering





Phase 2A Improvement Project Plan





View of the Original East Side





Union City - Phase 2A

This project will provide the following improvements to
Union City Station

- Create a new station entrance on the East side (previously the station was only accessible from the west side)
- Install two new escalators
- Provide two sets of stairs (one new, one retrofitted)
- Expand platform and canopy
- Add wayfinding signage
- Add LED Lighting



Another View of Original East Side





Eastside Elevation Rendering





Construction on East Side





Construction on East Side





Construction on the East Side





Construction on the East Side





Construction on the East Side





Current Progress

- Structural steel erection is 100% complete for both North and South side.
- Structural concrete work is 95% complete
- Fire proofing, fire suppression system, glass, roofing and LED lighting installation in progress.
- Both escalator trusses are in position. Schindler is working on finalizing installation and commissioning.



Next Steps

- Open the new platform, escalator and vestibule on South end – Spring 2021
- Open the second platform, escalator and vestibule on North end – early Fall 2021



Union City Station Modernization : West Entrance





Individual Program Milestones



Renew Track

STATUS & MILESTONES

EXPENDED Thru 10/2020: \$223.6

FORECAST Thru 9/2023: \$382

TOTAL PROGRAM VALUE: \$625

PERIOD CASHFLOW: \$22.4

STATUS – Renew Track

| # Projects in Planning | # Projects in Design | # Projects in Bid/Award | # Projects in Construction | # Projects Completed | TOTAL # Projects |
|------------------------|----------------------|-------------------------|----------------------------|----------------------|------------------|
| 1 | 3 | 3 | 8 | 5 | 20 |

MILESTONES

| Completed (Aug 2020 – Oct 2020) | Q2 (Nov 2020 – Dec 2020) | Q3 (Jan 2021 – Mar 2021) | Q4 (Apr 2021 – Jun 2021) |
|--|--|---|---|
| <ul style="list-style-type: none"> NTP for Oakland Yard Track Geometry Vehicle Storage Shed <i>Completion of Construction Shutdowns for A65 Interlocking Replacement (near Hayward Yard)</i> | <ul style="list-style-type: none"> Mobilization/Construction Begin for R65 Interlocking Replacement (near Richmond Station) Mobilization/Construction Begin for Oakland Yard Track Geometry Vehicle Storage Shed <i>Completion of Construction of C25</i> | <ul style="list-style-type: none"> Completion of Construction Shutdowns for R65 Interlocking Replacement (near Richmond Station) Issue for Bid for Special Trackwork for A77 Interlocking Replacement (Near Hayward Yard) | <ul style="list-style-type: none"> Completion of Construction Shutdowns for A75 Interlocking Replacement (near Hayward Yard) |

Watchlist:

- Material delivery

Italic: Modified milestones from previous report.



Renew Power STATUS & MILESTONES

EXPENDED Thru 10/2020: \$258.6

FORECAST Thru 9/2023: \$573

TOTAL PROGRAM VALUE: \$1,225

PERIOD CASHFLOW: \$21.5

STATUS – Renew Power Infrastructure

| # Projects in Planning | # Projects in Design | # Projects in Bid/Award | # Projects in Construction | # Projects Completed | TOTAL # Projects |
|------------------------|----------------------|-------------------------|----------------------------|----------------------|------------------|
| 0 | 7 | 5 | 15 | 2 | 29 |

MILESTONES

| Completed (Aug 2020 – Oct 2020) | Q2 (Nov 2020 – Dec 2020) | Q3 (Jan 2021 – Mar 2021) | Q4 (Apr 2021 – Jun 2021) |
|---|---|---|--|
| <ul style="list-style-type: none"> • NTP for Transbay Tube East Bay Substation Installation • Completion of Design for Station Fire Alarm Replacement Phase 3 • NTP for A-line 34.5kV Replacement (Alameda County) | <ul style="list-style-type: none"> • Completion of Design for 34.5kV Blocking Scheme Systemwide • Issue for Bid Station Fire Alarm Replacement-Phase 3 • Complete Commissioning of new Substation at San Leandro Station | <ul style="list-style-type: none"> • Contract Award for R Line 34.5kV Cable Replacement • Completion of Design for Station Fire Alarm Replacement Phase 4 • <i>Planning for Tunnel Lighting Replacement Phase 2 by BART forces</i> | <ul style="list-style-type: none"> • Issue for Bid Traction Power Substation Replacement – Walnut Creek Station |

Watchlist:

- R-Line 34.5kV Bids and Evaluation

Italic: Modified milestones from previous report.



Tunnels & Structures

STATUS & MILESTONES

EXPENDED Thru 10/2020: \$63.4

FORECAST Thru 9/2023: \$136

TOTAL PROGRAM VALUE: \$570

PERIOD CASHFLOW: \$8.5

STATUS – Repair Tunnels & Structures

| # Projects in Planning | # Projects in Design | # Projects in Bid/Award | # Projects in Construction | # Projects Completed | TOTAL # Projects |
|------------------------|----------------------|-------------------------|----------------------------|----------------------|------------------|
| 1 | 12 | 1 | 8 | 4 | 26 |

MILESTONES

| Completed (Aug 2020 – Oct 2020) | Q2 (Nov 2020 – Dec 2020) | Q3 (Jan 2021 – Mar 2021) | Q4 (Apr 2021 – Jun 2021) |
|--|---|--|---|
| <ul style="list-style-type: none"> <i>NTP for Aerial Fall A-Line North</i> <i>Executed de-scoping Change Order for the Transbay Tube Project</i> | <ul style="list-style-type: none"> Completion of Construction for Platform Rehabilitation at Hayward Station | <ul style="list-style-type: none"> Completion of Construction for Substation Walls <i>NTP for Richmond Yard Fence Rehabilitation</i> <i>Completion of Construction for Safety Barriers by Contractor</i> <i>Construction begin for Aerial Fall Protection A Line North</i> | <ul style="list-style-type: none"> <i>Issue for Bid Cross Passage Doors (Systemwide)</i> |

Watchlist:

- East Bay Street Grates (moved to perform by BART forces)
- Cross Passage Doors (Systemwide)

Italic: Modified milestones from previous report.



Renew Mechanical

STATUS & MILESTONES

EXPENDED Thru 10/2020: \$39.0

FORECAST Thru 9/2023: \$77

TOTAL PROGRAM VALUE: \$135

PERIOD CASHFLOW: \$8.7

STATUS – Renew Mechanical

| # Projects in Planning | # Projects in Design | # Projects in Bid/Award | # Projects in Construction | # Projects Completed | TOTAL # Projects |
|------------------------|----------------------|-------------------------|----------------------------|----------------------|------------------|
| 1 | 6 | 6 | 11 | 1 | 25 |

MILESTONES

| Completed (Aug 2020 – Oct 2020) | Q2 (Nov 2020 – Dec 2020) | Q3 (Jan 2021 – Mar 2021) | Q4 (Apr 2021 – Jun 2021) |
|---|---|---|---|
| <ul style="list-style-type: none"> Construction Begin for Vacuum System Replacement (Oakland Yard) | <ul style="list-style-type: none"> Completion of Construction Concord Yard Fire Services Completion of Design for Hayward Yard Fire Services Construction Begin for Oakland Yard fire Services | <ul style="list-style-type: none"> Completion of Construction for Rotoclones Replacement | <ul style="list-style-type: none"> Completion of Construction Coverboard Enhancement Construction start for Replace Fire Suppression System at LMA & Computer Room Fire Protection Contract Award of Design for Concord Yard Turntable Replacement <i>Advertise the Concord Yard Wheel Truing Machine</i> |

Watchlist:

- Combining Gas Line Corrosion Assessment scope with Richmond Yard Fire Services
- Unforeseen site conditions for Concord Yard Fire Service

Italic: Modified milestones from previous report.



Replace Train Control

STATUS & MILESTONES

EXPENDED Thru 10/2020: \$28.2

FORECAST Thru 9/2023: \$89

TOTAL PROGRAM VALUE: \$400

PERIOD CASHFLOW: \$0.9

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 | 4 | 1 | 0 | 5 |

MILESTONES

| Completed (Aug 2020 – Oct 2020) | Q2 (Nov 2020 – Dec 2020) | Q3 (Jan 2021 – Mar 2021) | Q4 (Apr 2021 – Jun 2021) |
|--|--|---|---|
| <ul style="list-style-type: none"> • Notice to Proceed (NTP) for CBTC Construction Management Agreements • NTP for CBTC Design Support During Construction Agreements • Notice of Award & Contract Execution for CBTC Design Build Contract/Mobilize • OCIP Coverage/ Notice to Proceed for CBTC | <ul style="list-style-type: none"> • <i>Notice to Proceed for CBTC Design Build Contract/Mobilize</i> • <i>Start Conceptual Design for CBTC Design Build Contract</i> • <i>Issue CBTC Change Notice for Cost Proposal to Bombardier for D-Car Retrofit Design</i> | <ul style="list-style-type: none"> • <i>Advertise Power Supply Cabinets & Switch Machine/Train Control</i> • <i>Issue CBTC NTE Change Notice to Bombardier for Conceptual Design Review</i> • <i>Issue CBTC NTE Change Notice for Hitachi to bring Bombardier in as a Subcontractor for Preliminary Design, Final Design and for D-Car Retrofit implementation</i> • <i>CBTC Baseline Schedule submitted and approved</i> | <ul style="list-style-type: none"> • <i>Complete CBTC Conceptual Design Review</i> • <i>Start CBTC Preliminary Design Review</i> • <i>Open Bids - Power Supply Cabinets & Switch Machine/Train Control</i> |

Watchlist:

- None

Italic: Modified milestones from previous report.



Renew Stations

STATUS & MILESTONES

EXPENDED Thru 10/2020: \$24.0

FORECAST Thru 9/2023: \$125

TOTAL PROGRAM VALUE: \$210

PERIOD CASHFLOW: \$2.7

STATUS – Renew Stations

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

MILESTONES

| Completed (Aug 2020 – Oct 2020) | Q2 (Nov 2020 – Dec 2020) | Q3 (Jan 2021 – Mar 2021) | Q4 (Apr 2021 – Jun 2021) |
|---|---|---|--|
| <ul style="list-style-type: none"> Completed for El Cerrito Del Norte: <ul style="list-style-type: none"> Fire water line 40kva emergency lighting UPS Construction of bus island, roadway, and associated amenities Market St. Escalator Project - Removed existing escalators in preparation for new equipment at 3 locations | <ul style="list-style-type: none"> Market St. Escalator Project - Perform factory inspection of escalators Begin Hazmat abatement work for Powell St. Station Modernization Complete 100% Design for Walnut Creek TOD North Stairs 19th St. Modernization – Complete construction of staircase modernization at 1 location | <ul style="list-style-type: none"> Market St. Escalator Project - Begin installation of 2nd group of escalators Powell St. Station Modernization – Begin lighting improvements | <ul style="list-style-type: none"> Begin modifications of existing stations in preparation for canopy construction Southeast Escalator Commissioning & Turnover completion for Union City Station Modernization Substantial Completion for El Cerrito Del Norte |

Watchlist:

- Funding Walnut Creek TOD North Stairs Construction

Italic: Modified milestones from previous report.



Station Access STATUS & MILESTONES

EXPENDED Thru 10/2020: \$19.5

FORECAST Thru 9/2023: \$37

TOTAL PROGRAM VALUE: \$135

PERIOD CASHFLOW: \$1.3

STATUS – Expand Safe Access to Stations

| # Projects in Planning | # Projects in Design | # Projects in Bid/Award | # Projects in Construction | # Projects Completed | TOTAL # Projects |
|------------------------|----------------------|-------------------------|----------------------------|----------------------|------------------|
| 0 | 11 | 1 | 7 | 6 | 25 |

MILESTONES

| Completed (Aug 2020 – Oct 2020) | Q2 (Nov 2020 – Dec 2020) | Q3 (Jan 2021 – Mar 2021) | Q4 (Apr 2021 – Jun 2021) |
|---|--|---|---|
| <ul style="list-style-type: none"> Embarcadero and Civic Center Bike Station Modernization complete and closed out <i>Safe Routes to BART Grant Program – Selected first 4 projects</i> | <ul style="list-style-type: none"> <i>Award and execute funding agreements with jurisdiction for Safe Routes to BART (SR2B) Grant Program</i> <i>Begin planning with BART forces for Bicycle Stair Channel project</i> | <ul style="list-style-type: none"> <i>Begin work with BART forces to construct the bicycle stair channels at seven stations</i> <i>Submit Accessibility Improvement (Phase 1) Bid Documents to Procurement to prepare for advertising</i> <i>Initiate Construction of the San Francisco 5th Street project (SR2B)</i> | <ul style="list-style-type: none"> <i>Substantial Completion for eBART Antioch Parking Lot Contract</i> <i>Advertise Accessibility Improvement (Phase 1)</i> <i>Construction Completion of the Warm Springs West Pedestrian Bridge and Plaza Project</i> <i>Initiate Construction of Pittsburg Center and Dublin/Pleasanton projects (SR2B)</i> |

Watchlist:

- None

Italic: Modified milestones from previous report.



Relieve Crowding

STATUS & MILESTONES

EXPENDED Thru 10/2020: \$33.5

FORECAST Thru 9/23: \$76

TOTAL PROGRAM VALUE: \$200

PERIOD CASHFLOW: \$7.2

STATUS – Design / Engineer to Relieve Crowding

| # Projects in Planning | # Projects in Design | # Projects in Bid/Award | # Projects in Construction | # Projects Completed | TOTAL # Projects |
|------------------------|----------------------|-------------------------|----------------------------|----------------------|------------------|
| 2 | 4 | 1 | 1 | 1 | 9 |

MILESTONES

| Completed (Aug 2020 – Oct 2020) | Q2 (Nov 2020 – Dec 2020) | Q3 (Jan 2021 – Mar 2021) | Q4 (Apr 2021 – Jun 2021) |
|--|--|--|---|
| <ul style="list-style-type: none"> Advertised contract for professional planning services to support the New Transbay Rail Crossing (NTRC) Program (Outreach & Engagement, Travel Demand & Land Use, Planning & Engineering, Environmental) Awarded and NTP Hayward Maintenance Complex Phase 2: (Mainline) Trackwork Procurement Advertised Hayward Maintenance Complex Phase 2: Civil/Grading | <ul style="list-style-type: none"> Evaluate bids for Hayward Maintenance Complex Phase 2: Civil/Grading | <ul style="list-style-type: none"> Award and NTP for Hayward Maintenance Complex Phase 2: Civil/Grading Award and NTP for Hayward Maintenance Complex Phase 2: Trackwork Procurement Evaluate Proposals for the NTRC Program Begin Steel Erection for Civic Center Station Scissor Stairs Complete Redesign for Embarcadero New Platform Elevator | <ul style="list-style-type: none"> Award for contracts NTRC Program Advertise Embarcadero New Platform Elevator |

Watchlist:

- Funding for Embarcadero Platform Elevator

Italic: Modified milestones from previous report.



Budget and Schedule Status



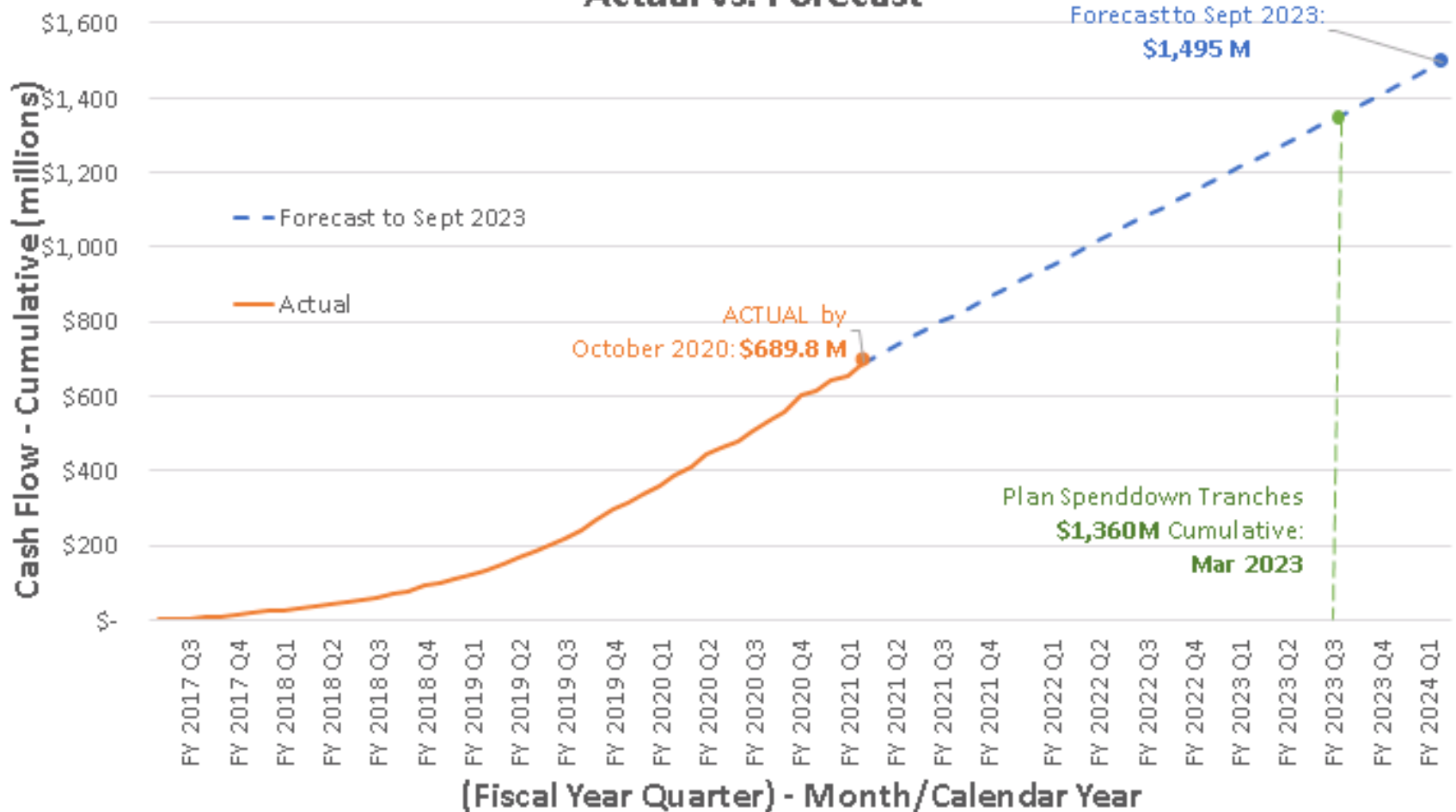
Measure RR Cashflow (\$ Millions) – Mid-Term & Long-Term Outlook

| Program | Expended (thru July 2020) | Expended (thru October 2020) | Period Cashflow (August 2020 - October 2020) | % 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 | \$201.2 | \$223.6 | \$22.4 | 36% | \$382 | \$400 | \$625 |
| Renew Power Infrastructure | \$237.1 | \$258.6 | \$21.5 | 21% | \$573 | \$608 | \$1,225 |
| Repair Tunnels & Structures | \$54.9 | \$63.4 | \$8.5 | 11% | \$136 | \$268 | \$570 |
| Renew Mechanical | \$30.3 | \$39.0 | \$8.7 | 29% | \$77 | \$65 | \$135 |
| Replace Train Control/Increase Capacity | \$27.3 | \$28.2 | \$0.9 | 7% | \$89 | \$286 | \$400 |
| Renew Stations | \$21.3 | \$24.0 | \$2.7 | 11% | \$125 | \$148 | \$210 |
| Expand Safe Access to Stations | \$18.2 | \$19.5 | \$1.3 | 14% | \$37 | \$86 | \$135 |
| Design/Engineer to Relieve Crowding | \$26.3 | \$33.5 | \$7.2 | 17% | \$76 | \$69 | \$200 |
| Total | \$616.6 | \$689.8 | \$73.2 | 20% | \$1,495 | \$1,930 | \$3,500 |



RR Overall Program Budget Progress

**BART Measure RR Program Spending
Actual vs. Forecast**





Earned Value Rollup by Program

| RR Program | Total RR Budget | Physical % Complete | Planned Value | Earned Value | RR Accrued to Date | CPI | SPI |
|---|-----------------|---------------------|-----------------|-----------------|--------------------|-------------|-------------|
| Renew Track | \$625 | 42% | \$258.31 | \$263.30 | \$262.51 | 1.00 | 1.02 |
| Renew Power | \$1,225 | 25% | \$358.78 | \$304.35 | \$325.44 | 0.94 | 0.85 |
| Repair Tunnels and Structures | \$543 | 13% | \$82.23 | \$68.97 | \$71.01 | 0.97 | 0.84 |
| Renew Mechanical | \$162 | 29% | \$50.51 | \$47.00 | \$42.52 | 1.11 | 0.93 |
| Replace Train Control/ Increase Capacity | \$400 | 7% | \$39.89 | \$29.10 | \$33.71 | 0.86 | 0.73 |
| Renew Stations | \$210 | 11% | \$27.56 | \$22.20 | \$21.09 | 1.05 | 0.81 |
| Expand Safe Access to Stations | \$135 | 20% | \$30.98 | \$26.80 | \$27.16 | 0.99 | 0.87 |
| Design/Engineer to Relieve Crowding | \$200 | 17% | \$41.07 | \$34.19 | \$35.26 | 0.97 | 0.83 |
| Total | \$3,500 | 23% | \$889.33 | \$795.91 | \$818.70 | 0.97 | 0.89 |



Track Program Drill Down

| Project | Count |
|--|-------|
| Number of Projects (>25% Spent) | 14 |
| CPI <0.9 or >1.1 | 4 |
| SPI <0.9 or >1.1 | 1 |
| Number of Risk Register Updates Performed in Previous Period | 5 |
| Number of Project Quality Reviews Performed in Previous Period | 26 |

| Project | Physical % Complete | CPI | SPI | Comments |
|------------------------------|---------------------|------|------|--|
| C25 Interlocking Replacement | 92% | 1.14 | 1.00 | 4 turnouts replaced; Construction cost less than planned |
| Replace Direct Fixation Pads | 76% | 1.16 | 2.15 | 44,120 pads replaced; Benefitting from extended blanket hours due to COVID-19 response |
| R65 Interlocking Replacement | 39% | 1.14 | 0.99 | Realized design efficiencies |
| Switch Replacement | 31% | 0.84 | 0.97 | Material cost exceeded plan. Expecting to recover cost through self performed work |



Power Program Drill Down

| Project | Count |
|--|-------|
| Number of Projects (>25% Spent) | 10 |
| CPI <0.9 or >1.1 | 4 |
| SPI <0.9 or >1.1 | 5 |
| Number of Risk Register Updates Performed in Previous Period | 5 |
| Number of Project Quality Reviews Performed in Previous Period | 13 |

| Project | Physical % Complete | CPI | SPI | Comments |
|------------------------------------|---------------------|------|------|--|
| Transbay Tube Emergency Generator | 59% | 0.86 | 0.78 | Redesign due to unforeseen site conditions |
| M Line 34.5kV Cable Replacement | 53% | 1.18 | 1.02 | 6.7 mi of cable installed. Benefitting from extended blanket hours due to COVID-19 response |
| Train Control Room UPS Replacement | 48% | 1.60 | 0.79 | Construction cost less than planned |
| K Line 34.5kV Cable Replacement | 44% | 0.91 | 0.69 | Two circuits complete. Strategic resequencing of work. No impact to overall program |
| 34.5kV Blocking Scheme | 30% | 0.79 | 0.45 | Self-performing remaining design to reduce cost and recover schedule. Forecasted to be on budget. Schedule delay does not impact program |
| Cast Coil Transformer Replacement | 29% | 0.91 | 0.64 | Rejected all bids. Review strategies to mitigate impacts to budget and schedule. |



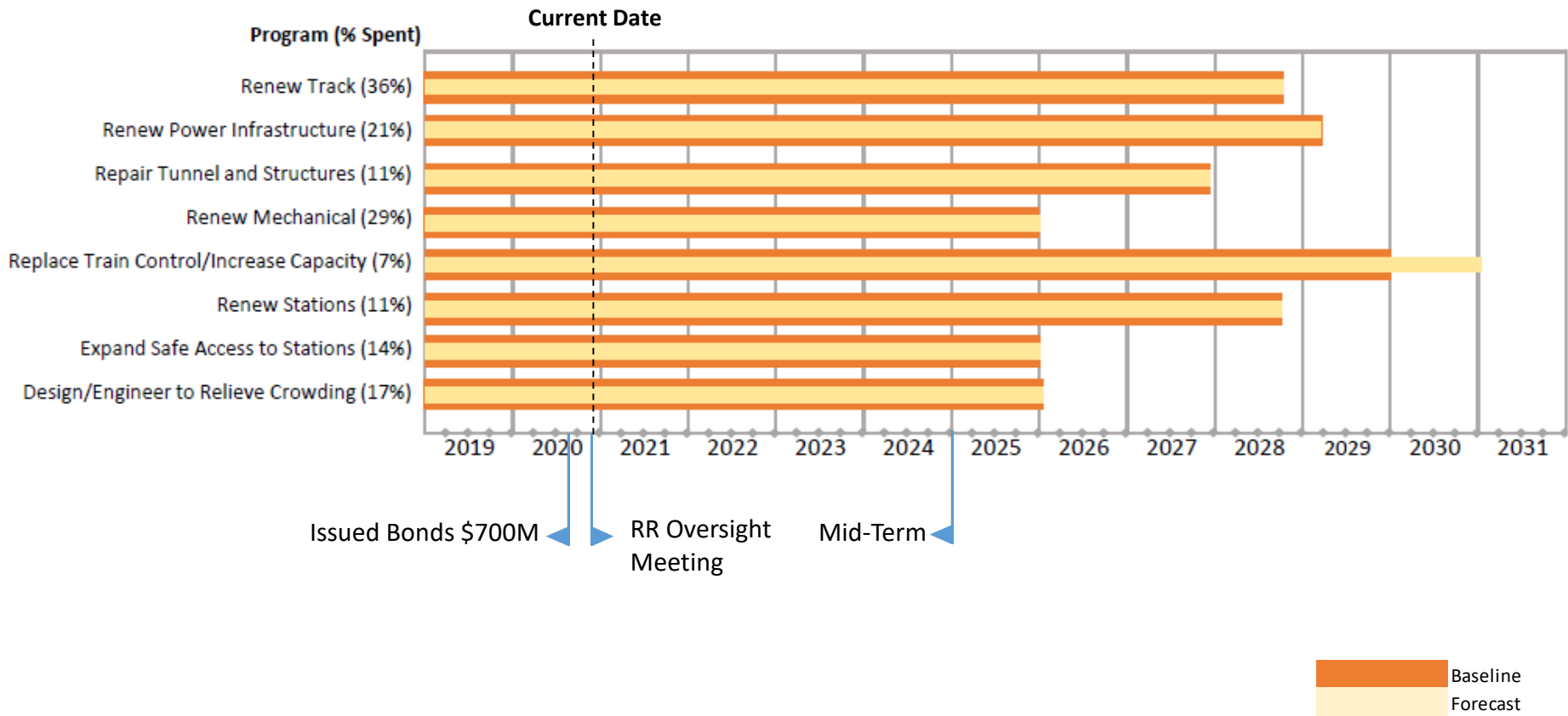
Mechanical Program Drill Down

| Project | Count |
|--|-------|
| Number of Projects (>25% Spent) | 16 |
| CPI <0.9 or >1.1 | 4 |
| SPI <0.9 or >1.1 | 7 |
| Number of Risk Register Updates Performed in Previous Period | 4 |
| Number of Project Quality Reviews Performed in Previous Period | 8 |

| Project | Physical % Complete | CPI | SPI | Comments |
|--|---------------------|------|------|---|
| Install L Line Wet Standpipe | 99% | 0.99 | 1.12 | Schedule benefit from combining scope with Hayward Yard Fire Services |
| Install Access Ladders | 87% | 0.94 | 1.19 | Benefitting from extended blanket hours due to COVID-19 response |
| Gas Lines Corrosion Assessment | 65% | 1.20 | 0.81 | Combining project scopes to reduce cost |
| Richmond Yard Fire Services | 64% | 1.02 | 1.40 | Benefitting from extended blanket hours due to COVID-19 response |
| Rotoclones Replacement (Wet Dust Collectors) | 51% | 1.04 | 0.78 | Contractor delay |
| Replace Backflow Preventers | 39% | 1.21 | 0.86 | No bidders. Self-performing to recover schedule |
| Vacuum Systems Replacement | 29% | 0.70 | 0.75 | COVID delay |



Program Level Schedule Update



Future updates may include additional projects as programs mature.



Next Steps

- Ongoing Development:
 - East Bay Substation Repackaging for Bid
 - Manage resources as a result of the early retirement incentive
- Under Development
 - March 2021 Bond Oversight Meeting