

MONTHLY MONITORING REPORT

Transbay Downtown Rail Extension Project, Phase 2

Transbay Joint Powers Authority (TJPA)

San Francisco, CA

July 2024

Final

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Length of time Assigned: 22 Months (October 2022 through July 2024)

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1.0 EXECUTIVE SUMMARY

1.1 Project Description

Transbay Joint Powers Authority (TJPA), the Project Sponsor, proposes to extend the Caltrain commuter rail line 2.2 miles from the China Basin/South Park neighborhood near the current Caltrain terminus at Fourth and King Streets to the multi-modal Salesforce Transit Center in downtown San Francisco. The proposed Project includes two underground rail stations, one located at Fourth and Townsend Street, the other one at the Salesforce Transit Center rail terminal. The Fourth and Townsend Street station is near Oracle Park, the home of the San Francisco Giants baseball team. The project, known as the Transbay Downtown Rail Extension Project, Phase 2 (Transbay DTX), will improve public access to bus and rail service and accommodate projected growth in travel demand in the San Jose–San Francisco corridor. The proposed Project will connect Caltrain’s regional rail system to the Salesforce Transit Center in downtown San Francisco, along with the future California High-Speed Rail Authority’s statewide rail system.

1.2 Project Status

The Locally Preferred Alternative (LPA) was completed in March 2003, and the National Environmental Policy Act (NEPA) action was completed in February 2005 with a Record of Decision (ROD). The Federal Transit Administration (FTA) amended the ROD in July 2019, and the LPA was adopted into the region’s fiscally constrained long range transportation plan in October 2021.

On February 17, 2023, the TJPA Executive Director formally submitted TJPA’s requests to the FTA for approval to Enter Engineering and to conduct the New Starts Project Rating. On August 14, 2023, TJPA submitted updated documentation and a revised rating package to the FTA. The FTA notified TJPA on May 3, 2024 that the Transbay DTX Project had been approved to enter the New Starts Engineering phase. *Recognizing the challenges to secure the local funding match, TJPA moved the target date for the FFGA out 27 months. The Project now expects to receive a Full Funding Grant Agreement (FFGA) in 2027 and initiate revenue service in 2032.*

Based on the TJPA finalized project scope, New Starts Standard Cost Categories (SCC) Workbook and project schedule provided during and following the FTA/PMOC risk workshop in May 2023, the Project Management Oversight Contractor (PMOC) updated its scope, cost, and schedule analyses and re-performed the schedule and cost risk models. After review and concurrence by the FTA, the revised results, which indicated an estimated project cost of \$8,255 million Year of Expenditure (YOE) and an FFGA Revenue Service Date of June 27, 2035 (including both cost and schedule contingency) were shared with TJPA, and the combined Scope, Cost, Schedule, Risk and Contingency Review Report was finalized and issued on August 31, 2023.

The detailed results of the readiness review for Entry to Engineering were documented in the PMOC’s OP51 Readiness Review Report issued on October 17, 2023. Based upon PMOC review of the documentation prepared and submitted by TJPA, it is the PMOC’s opinion that TJPA has adequately demonstrated substantial compliance with all the OP51 technical requirements at Entry to Engineering.

Through July 31, 2024, TJPA continued work advancing progress in the areas of support to the CIG process, risk management and program funding as well as work on the Right-of-Way property acquisitions, temporary and permanent easements, and critical third-party agreements. TJPA actively continued a high level of engagement with the other five project agency partners, including Caltrain and the California High Speed Rail Authority (CHSRA), to advance the successor San Francisco Peninsula Rail Program (Stakeholder) MOU, now scheduled to be approved during 4Q-2024. TJPA continued to advance design work on the three Advance (Enabling) Works Program projects for utility relocations, work in the Caltrain railyard (Package A) and the building demolition work. TJPA continued working on the Railyard Agreement with Caltrain for the Transbay DTX work in the existing rail yard at 4th and King Streets. TJPA will procure and manage Package 4KYA and Caltrain will similarly procure and manage Package 4KYB. The General Engineering Consultant (GEC) continued design work on both packages. Caltrain, the operator for the Downtown Rail Extension, continues its environmental review process for state and federal agencies in advance of the rail yard work under Package 4KYB. The PMCM consultant started work on the project on July 1, 2024. TJPA continued the procurement process for the Civil and Tunnel Progressive Design-Build (PDB) contract for anticipated award in 2025 and is nearing completion of the draft contract.

1.3 Major Issues and/or Concerns

1. The Transbay DTX Project was not selected for either the FRA CRISI Grant or Federal/State Partnership Grant awards during 2023, or for the USDOT National Infrastructure Project Assistance (Mega) Grant representing a total of \$241 million in federal funding that was anticipated but not received. *TJPA has since re-applied for these grants. However, the FFGA award will be 41.0% instead of the TJPA requested 49.4% of the total project cost and represents a shortfall of \$694 million in CIG funding. This presents a very significant additional challenge to TJPA in their efforts to secure matching funds as required by the FTA CIG Program. See also Section 2.13, Project Cost.*
2. The February 2024 Master Schedule update showed a total schedule contingency drawdown of 186 work days (WD) from 643 WD to 457 WD remaining contingency. *This contingency drawdown remains in the current schedule update. The concern is that the project is using valuable schedule contingency prior to the actual start of construction when contingency is most needed. See note below and Section 2.14, Project Schedule.*
3. *During April 2024, TJPA reported a significant delay of seven months for the “Clear Right of Way/Start Demolition” activity and additional delays have been reported. There is a direct schedule connection from ROW procurement to building demolition to access for Civil and Tunnel construction work that includes a significant number of critical path activities. See note below, Section 2.9, Real Estate Acquisition and Relocation, and Section 2.14, Project Schedule, for further details.*

With regard to Concern Nos. 2 and 3 above, the PMOC notes that potential adverse schedule impacts due to the issues identified may be significantly reduced due to development of a new Master Schedule that adds 27 months to the target date for the FFGA. See Section 2.14, Project Schedule, for further discussion.

1.4 Status of Key Indicators Dashboard (Post Grant)

The Key Indicators Dashboard will be completed upon award of the Full Funding Grant Agreement and then updated monthly thereafter.

1.5 Core Accountability Items

Core Accountability Items				
		Original (Grant)	Current Forecast** (Million \$)	PMOC Assessment of Current Forecast
Cost	Capital Cost Estimate	(Note 1)	8,255	Acceptable
Contingency	Unallocated Contingency	(Note 1)	1,251	Acceptable
	Allocated Contingency	(Note 1)	867	Acceptable
	Total Contingency	(Note 1)	2,118	Acceptable
Schedule	Planned Revenue Service Date FFGA RSD w/contingency	(Note 1)	Sep. 30, 2032 Jun. 27, 2035	Acceptable
Note 1: FFGA anticipated in 2027.				
Project Progress:		Amount (\$M)	Percent of Total	
Total Expenditures	Actual cost of all eligible expenditures completed to date	(Note 2)	(Note 2)	
Planned Value to Date	Estimated value of all work planned to date	(Note 2)	(Note 2)	
Actual Value to Date	Actual value of all work completed to date	(Note 2)	(Note 2)	
Note 2: Project Sponsor is compiling costs/value to date.				
Contract Status:		Amount (\$)	Percent	
Total Contracts Awarded	Value of all contracts (design, support, construction, equipment) awarded; % of total value to be awarded	(Note 2)	(Note 2)	
Construction Contracts Awarded	Value of construction contracts awarded; % of total construction value to be awarded	(Note 3)	(Note 3)	

Physical Construction Completed	Value of physical construction (infrastructure) completed; % of total construction value completed	(Note 3)	(Note 3)	
Note 3: Construction start anticipated in 3Q-2025 for building demolition work under the Advance (Enabling) Works Program. No construction contracts have been awarded to date.				
Rolling Stock Vehicle Status	Date Awarded	No. Ordered	No. Delivered	
(There are no direct TJPA procurements of revenue service vehicles included in the project scope of work)*	N/A	N/A	N/A	
Major Issues	Date Identified	Status	Project Sponsor Action	PMOC Recommendation
N/A	N/A	N/A	N/A	N/A
Date of Next Quarterly Meeting (if known):			Next Monthly Meeting is on August 21, 2024.	

*Project scope includes cost for Caltrain procurement of five non-revenue Maintenance of Way vehicles, the level-boarding door modifications to the 23 new EMU revenue vehicles from Caltrain under their current procurement and the existing Salesforce Transit Center train box completed under the Transbay DTX Phase 1 Program. Refer to report Section 2.12 for details.

**As of July 31, 2024. Final cost estimates and contingency have been reconciled with the adjusted SCC Workbook based on the final adjustments from the revised FTA Risk Assessment. Current Cost Forecast includes financing costs.

2.0 OBSERVATIONS AND FINDINGS

2.1 Summary of Monitoring Activities

This report covers the period from July 1, 2024 through July 31, 2024.

PMOC monitoring included the following activities:

- *Prepared draft PMOC Monthly Monitoring Report for June 2024 and finalized report after FTA’s review and the TJPA “fact check” review.*
- *Continued review of updated Sponsor-provided presentations on Transbay DTX that included details of the program status, current funding initiatives, and schedule of major milestones for advancing program funding, design and procurement of the Advance (Enabling) Works Program contracts, third-party agreements and property acquisitions along the planned project alignment, along with the current cost, schedule and risk/contingency status and procurement of the Progressive Design-Build (PDB) contract.*
- *Reviewed the June 2024 Master Schedule update and narrative.*
- *Prepared agenda for the FTA/PMOC Monthly Monitoring Meeting with the Project Sponsor on July 16, 2024 and co-directed the meeting with the FTA; focus included funding shortfalls, continued delays for real estate appraisals and the TJPA’s proposed revised Master Schedule that moves the FFGA target date to July 2027.*
- *Attended Schedule Workshop Session No. 1, on July 11, 2024 to review TJPA’s approach to revise the Master Schedule to reflect the new target date of July 2027 for the FFGA.*
- *Attended FTA Monthly CIG pre-meeting and TJPA check-in meeting on July 18, 2024.*
- *Attended TJPA Quarterly Risk Review Meeting on July 25, 2024.*
- *Attended Sponsor program management and technical meetings:*
 - *Integrated Project Management Team semimonthly meetings (July 9 and 23, 2024).*

The detailed results of the PMOC readiness review are documented in the PMOC’s final OP51 Readiness Review Report issued on October 17, 2023 under the PMOC’s Project Programmatic Task Order. Based upon PMOC review of the documentation prepared and submitted by TJPA, it is the PMOC’s opinion that TJPA has adequately demonstrated substantial compliance with all of the OP51 technical requirements at Entry to Engineering. On May 3, 2024, the FTA notified TJPA that the Transbay DTX Project had been approved to enter the New Starts Engineering phase.

Going forward, the PMOC will monitor the Sponsor’s progress updating the Program Management Plan, along with other subplans, based on the PMOC’s reviews and recommendations and in accordance with the specific time frames directed by the FTA. All plan updates are to be completed prior to TJPA’s application for the FFGA in accordance with the PMOC review comments provided to TJPA in conjunction with the Entry to Engineering reviews.

2.2 Oversight Triggers

The PMOC will perform monthly oversight of the project and continue through the Engineering Phase to award of the Full Funding Grant Agreement in accordance with direction from the FTA.

2.3 Project Management Plan (PMP) and Sub-Plans

TJPA advised the FTA and PMOC that the PMCM consultant joining the TJPA Project Team on July 1, 2024 will be assigned to draft the updates to the PMP and associated Sub-Plans as discussed in this section. *TJPA is developing the FTA/PMOC PMP comment and FFGA requirements tracking spreadsheet that will include all of the PMOC OP review comments from the 2023 Readiness to Enter Engineering reviews.*

Project Management Plan (PMP)

The PMOC completed the Final OP20 Review Report and submitted the report to the FTA, and the FTA subsequently transmitted the PMOC OP20 Review Report to TJPA on September 22, 2023. The PMOC determined that while the DTX PMP Revision 1 significantly meets the requirements for a project of the size and complexity of DTX at the Entry to Engineering stage of development, there are items that should be addressed in the near future. Accordingly, TJPA was requested to revise and resubmit the PMP within the next six months or prior to the start of construction, including construction under the pre-FFGA Advanced (Enabling) Works scope, whichever occurs first.

Safety and Security Management Plan (SSMP)

The PMOC submitted the Final OP22 Review Report to the FTA on September 8, 2023 and the FTA subsequently transmitted the PMOC OP22 Review Report to TJPA. The PMOC determined that the Final Draft SSMP meets the requirements of OP22 and FTA Circular 5800.1 at Entry to Engineering, except for several elements related to the later phases of project advancement. As a result, TJPA was requested to revise and resubmit the SSMP in the next update of the SSMP, prior to TJPA's request to execute the Full Funding Grant Agreement. The PMOC also expects that in the future as contractors are added to the project implementation team, their safety and security plans will be incorporated under TJPA's program, and their plans will also be reviewed by FTA/PMOC once they are approved by TJPA.

Real Estate Acquisition and Management Plan (RAMP)

The PMOC completed its review of the Transbay DTX Draft RAMP Revision D, dated October 2022 and the TJPA's Relocation Assistance Program Summary in accordance with OP23, Real Estate Acquisition and Management Plan Review, dated September 2015, for a project requesting Entry to Engineering. The review found the RAMP to be in partial compliance with OP23, with comments in the areas of acquisition and relocation processes, real estate team organization, document control, property management, and property disposition. TJPA completed the PMOC recommended revisions for both the RAMP and the Relocation Assistance Program Summary and resubmitted them on September 1, 2023. The PMOC reviewed the revised documents and determined that both meet the OP23 requirements for a project at Entry to Engineering.

Quality Assurance Plan (QAP)

The PMOC completed its review of the TJPA Quality Assurance Program documents in accordance with OP24, Quality Assurance – Quality Control Review, dated September 2015, and completed the final OP24 report in August 2023. The PMOC found the information provided in the TJPA documents for its Quality Assurance/Quality Control Program meets the requirements of OP24 for a project of the size and complexity of the Transbay DTX Project at its current stage of development at Entry to Engineering. However, there are several areas noted in the PMOC OP24 report that require further development as the project advances into later phases. The FTA transmitted the PMOC OP24 Review Report to TJPA on August 17, 2023, and requested that TJPA revise and resubmit the QA/QC Program documents prior to application for the project FFGA. The PMOC also expects that in the future as contractors are added to the project implementation team, their quality plans will be incorporated under TJPA’s program, and their plans will also be reviewed by FTA/PMOC once they are approved by TJPA.

Rail Fleet Management Plan (RFMP)

The PMOC analysis found that the combination of documents submitted by Caltrain and TJPA [Caltrain Fleet Management Plan, Revision 3, dated December 7, 2021; TJPA supplemental memo, “Fleet Management Plan Tech Memo to Validate 4 TPH Service” by DB E.C.O North America, Inc., dated April 2023] meets the technical requirements of OP37 at this stage of project advancement and are acceptable for Entry to Engineering. The PMOC’s review noted several areas within the documents where revisions are highly recommended and requested resubmittal prior to application for the FFGA. Results have been shared with the Sponsor and have been formally documented in the separate OP51 report.

Risk and Contingency Management Plan (RCMP)

The PMOC reviewed the RCMP, Revision 0, dated October 27, 2021 in accordance with FTA OP40, “Risk and Contingency Review,” dated March 2022, and results were provided to TJPA within the draft combined Scope, Cost, Schedule, Risk and Contingency Review report. TJPA and the PMOC collaborated on the comments and recommendations, especially to define the project’s “contingency drawdown curves,” and TJPA commenced a revision to the RCMP for resubmittal. TJPA submitted the RCMP on August 1, 2023, incorporating the comments from the draft combined Scope, Cost, Schedule, Risk and Contingency Review report. PMOC confirmed that the resubmittal satisfied all comments with the exception of the contingency draw down curves. TJPA subsequently revised the RCMP and submitted Revision 2, dated September 2023, on September 1, 2023. The PMOC completed a review of the RCMP Revision 2, and found that it meets the requirements of OP40, including addressing the one remaining draw down curve comment.

2.4 Management Capacity and Capability (MCC)

PMOC OP21 Management Capacity and Capability Review

The PMOC OP21 Review Report was completed and submitted to the FTA, finding that TJPA is a well-developed organization for the current stage of the DTX Project. Based upon PMOC review of the documentation prepared and submitted by TJPA, it is the PMOC’s opinion that TJPA has demonstrated technical compliance with all Management Capacity and Capability requirements for this stage of the project to advance into the Engineering Phase. The FTA forwarded the report

to TJPA on October 5, 2023 and requested that TJPA revise and resubmit the associated MCC documents, including the PMP, prior to start of construction, including construction under the pre-FFGA Advanced (Enabling) Works scope, but no later than start of the FFGA application process.

Procurement of Program Management / Construction Management Services Contract

In June 2024, the TJPA Board approved award of the PMCM contract to the procurement recommended firm with a Notice-to-Proceed date of July 1, 2024. During July 2024, the PMCM consultant provided staff and commenced work on the project.

2.5 NEPA / CEQA Process and Environmental Mitigation

National Environmental Policy Act

The project received a Record of Decision (ROD) from the FTA for the Transbay Terminal / Caltrain Downtown Extension / Redevelopment in 2005, a ROD from the Federal Railroad Administration (FRA) for the Transbay Transit Center Train Box in 2010, and an amended ROD from FTA for the Transbay Terminal / Caltrain Downtown Extension / Redevelopment in 2019. Prior to the completion of the current Project Development (PD) phase, the project had sought FTA NEPA clearance related to several subsequent modifications of the project’s footprint. Final FTA approval of the NEPA re-evaluation was received on June 9, 2023. *There are currently no open NEPA action items as of July 31, 2024.*

The PMOC OP32B Review Report has been completed and submitted to the FTA. The report found that TJPA’s documentation is in general conformance with the FTA requirements for a project of this size and complexity and at its current state of development moving from Planning to the start of Engineering, with several noted exceptions. The reported exceptions were subsequently resolved based on TJPA’s revised preliminary engineering documentation and close-out of the PMOC recommendations.

The second quarter 2024 Quarterly Mitigation Monitoring Report (MMRQ) was provided on July 31, 2024 and is under review by the PMOC.

TJPA continues to work on the recordation action to fulfill Section 106, NEPA and CEQA requirements for two commercial buildings designated for acquisition and demolition. The process is in accordance with the TJPA Memorandum of Agreement (MOA) with SHPO and the two amended MOAs. The level of effort proposed for the recordation is based on Level II and the first draft is expected to be completed in 1-2 months. TJPA is coordinating their activities with FTA Region 9.

California Environmental Quality Act

Caltrain has started its environmental review process in advance of the 4th and King Yard Preparation Package that is part of the Advance (Enabling) Work Program. The first part of the review will result in a California Environmental Quality Act (CEQA) Notice of Determination process that will fulfill Caltrain’s CEQA requirement regarding the future DTX construction work planned within Caltrain’s Right-of-Way (ROW) and constitutes a “Discretionary Action.” The second part of the review is for the Caltrain Peninsula Corridor Electrification Project (PCEP) NEPA compliance, focused primarily on potential impacts to the PCEP infrastructure due to the

TJPA DTX work within Caltrain’s ROW and, more specifically, for the 4th and King Yard (4KY) Preparation work scope in Package 4KYB. Caltrain has retained an outside consultant to complete the NEPA/CEQA reviews and to determine the documentation requirements.

- Caltrain now expects to file the CEQA Notice of Determination in November 2024, two months later than reported in May 2024. TJPA and Caltrain do not foresee any impacts due to the delay. Caltrain anticipates the need for a CEQA Addendum based on the Package 4KYB scope of work. *The draft CEQA Addendum is anticipated in August 2024, followed by the final Addendum in September 2024 and submission in November 2024.*
- The NEPA Re-Evaluation Report is expected by January 2025.

2.6 Project Delivery Method and Procurement

The Sponsor plans to construct the project using three project delivery methods.

TJPA Board-approved delivery approach consists of:

- Design-Bid-Build (DBB) for Advanced Packages Program (Early Action contracts) for Utilities and Railyard Infrastructure Relocation and Building Demolition.
- Progressive Design-Build (PDB) for main civil and tunnel
- Construction Manager-General Contractor (CMGC) for track and rail systems, and for station fit-out.

The PMOC previously noted that the proposed approach using three different project delivery methods will require a high level of both design and construction interface coordination and management. To reduce delay risk, TJPA has completed the division of the Railyard Infrastructure Relocation Work scope into two packages: 4KYA will remain Design/Bid/Build for site clearing; 4KYB will change to CMGC for the actual rail infrastructure and systems relocation. Caltrain has agreed to the creation of the two packages and the procurement/delivery approach: TJPA will procure and deliver 4KYA; Caltrain will procure and deliver 4KYB. *The construction contract for the 4KYB Package has been removed from the Advanced (Enabling) Works Program and will be a stand-alone contract.*

Because the Advanced (Enabling) Works Program had previously been forecast to start during Q2-2024, prior to award of the FFGA that is targeted for 2025, TJPA had earlier acknowledged the possible need for development of the basis for a Letter of No Prejudice (LONP) to qualify the costs of the Enabling Works Program for those elements not otherwise covered under pre-award authority in accordance with the FFGA. *At this time, however, there is no apparent need for a LONP based on the current project plan and schedule that now forecasts the start of the first contract under the Advance (Enabling) Works Program, Building Demolition, during Q3-2025 under the pre-award authority granted with the FTA approval for Entry to Engineering.*

Progressive Design-Build Contract

TJPA has selected the Progressive Design-Build (PDB) delivery method for the civil and tunnel scope of work and is currently advancing the procurement of this contract.

Key milestones achieved (A) and planned include the following:

- Informational Session - September 20, 2023 (A)
- Issue Request for Qualifications - October 27, 2023 (A)
- Industry briefing - November 2, 2023 (A)
- Last date for requests for clarification - January 10, 2024 (A)
- Last date for issuance of Addenda - January 17, 2024 (A)
- Four Statements of Qualifications received - January 31, 2024 (A)
- Notification of the three short-listed Respondents - March 2024 (A)
- Informational Meeting with short-listed Respondents – May 30, 2024 (A)
- *View Soil Borings by short-listed Respondents – July 17, 2024 started (A)*
- *Issue Draft Contract to short-listed Respondents - July/August 2024 [3/4-month delay]*
- *Discussions with short-listed Respondents – Summer/Fall 2024 [3-month delay]*
- Issue Request for Proposals – Winter 2024/2025

2.7 Design

As part of the FTA/PMOC-led OP40 Risk Assessment and to support the PMOC’s OP51 review of the project’s readiness to enter the Engineering phase, the PMOC completed its review of the project scope in accordance with OP32C, Project Scope Review, dated September 2015. Based on TJPA’s finalization of the project scope in July 2023, the PMOC updated and finalized its OP32C Scope Review during August 2023. The scope review results are detailed in the Final OP32C, 33, 34, 40 Scope, Cost, Schedule, Risk and Contingency Review Report that was submitted to the FTA on August 31, 2023.

The PMOC had previously noted that the as-built PCEP traction power and signal systems facilities will present conflicts with the planned Transbay DTX work involving or affecting the Caltrain rail yard and rail system infrastructure from the project limits to the existing Caltrain terminal at 4th and King Streets. This will require TJPA to relocate some Overhead Contact System (OCS) support structures as well as some wayside signal/train control equipment and associated cabling. The scope of work for relocation of selected PCEP facilities required to resolve conflicts with planned DTX work scope is included in the 4th and King Yard Preparation Package B for at-grade track and systems work. The 30% Design package was completed in April 2024 but does not include the changes in the 4KYB Revised Concept Design developed by Caltrain during Q1-2024. Package B was removed from the Advance (Enabling) Work packages in January 2024 and will be procured by Caltrain using the CMGC project delivery method.

The 4KYB Revised Concept Design was developed by Caltrain in response to the November 2023 constructability review that concluded that the current design (30% Design – September 2023) did not meet Caltrain operational requirements and would have unacceptable impacts to train service during construction. Additionally, the current design provided little or no opportunity to replace 2,300 feet of lost railcar storage capacity on the 4KY site.

The 4KYB Revised Concept Design provides the following advantages:

- Protects continuous two-track access into the 4KY and station
- Provides 2,100 feet of storage tracks

- Stage 1 will have a duration of 18-24 months and requires only 20-30 nights of work instead of 150+ nights under the current design
- Stage 1 also has fewer impacts to the new Overhead Contact System (OCS) for traction power and existing OCS foundations remain but with modifications
- Stage 2 will have a duration of 6-9 months and minimizes need for de-energizing the OCS
- The overall result is a reduction of construction duration

July 2024 Sponsor updates included:

- Advance (Enabling) Works Program Status
 - Utility Relocation
 - 90% Design package; the Dec. 31, 2023 forecast completion was not met; *package was completed in May 2024 and is in the comment resolution stage.*
 - Working with the GEC, TJPA has completed the schedule update and there will be an approximate 5-month delay to completion and acceptance of the 90% Design.
 - *TJPA had earlier directed the GEC to delay the 90% submission to allow for key decisions by agencies; stakeholders received the 90% Design package at the end of May 2024; design review comments are in the resolution stage.*
 - TJPA is incorporating new SFMTA requirements for slot trench permitting process based on coordination meetings. *Trenching started on July 15, 2024 and is expected to be completed within approximately 2 months.*
 - DTX 4th and King Yard Preparation Packages (4KY)
 - *The additional site walk for existing utility/civil facilities was completed in July 2024 based on Caltrain's response to the GEC's utility information request.*
 - *A topographic survey of the rail yard is in progress.*
 - To reduce delay risk, TJPA has divided the Yard Preparation Package into Package A (4KYA) for site clearing along the 4th and King Yard north and east project limits and Package B (4KYB) for at grade track and systems work along the 4th and King Yard south and west project limits. Division of the final 30% Design into Packages A and B was completed in April 2024. Package B has been removed from the Advance (Enabling) Work Program and will be monitored separately. *See 4KYB item below for additional details.*

- *Final 30% Design Plans and Basis of Design were received in April 2024 and have been reviewed by TJPA and Caltrain. The package is in the comment resolution stage.*
 - *Cost Estimates for the Final 30% Design for the 4KYA and 4KYB Packages were submitted in May 2024, have been reviewed, comments resolved and were accepted on July 12, 2024.*
 - *GEC given NTP on May 31, 2024 to start Package 4KYA 60% Design.*
 - *Design requirements gathering with Caltrain started in mid-June 2024.*
 - Building Demolition Package
 - *60% Design plans and specifications are in comment resolution.*
 - *60% Design construction cost estimate was completed in April 2024, comments have been resolved and the cost estimate was accepted in May 2024.*
 - *60% Design package was sent to San Francisco Department of Building Inspection (SFDBI) for a high-level review; SFDBI will complete its full review at completion and acceptance of the 90% Design.*
 - *Updated construction schedule expected in 2-4 months.*
- DTX 4th and King Yard Preparation Package 4KYB (Contract 55-YB)
 - Background
 - *Full 4KY work scope divided into Packages A and B in April 2024.*
 - *Package 4KYB (Contract 55-YB) will be procured by Caltrain as CMGC contract; Caltrain will administer and manage the CMGC contract.*
 - *Revised Concept Design Package 4KYB (Contract 55-YB) was developed by Caltrain during Q1-2024 based on the constructability review completed in Q4-2023.*
 - Status
 - *GEC given NTP on May 31, 2024 to start 30% Revised Concept Design.*
 - *Design requirements gathering with Caltrain started in mid-June 2024.*
- *Traction Power Load Flow Analysis (LFA)*
 - *TJPA received responses to Caltrain's LFA questions from the PCEP LFA engineer/designer.*
 - *Draft LFA anticipated during Q4-2024.*
 - *CHSRA is also reviewing the LFA.*
- Progressive Design-Build Contract
 - *TJPA has selected the Progressive Design-Build delivery method for the civil and tunnel scope of work.*
 - *PDB contractor will advance the TJPA 30% design during the pre-construction services period at the start of the contract.*
 - *Refer to Section 2.6 of this report for details of the PDB contract procurement.*

2.8 Value Engineering and Constructability Reviews

The Sponsor has conducted several Value Engineering and Constructability Reviews. The corresponding reports provided to the PMOC were used for the PMOC's OP32C Project Scope Review during 2023.

2.9 Real Estate Acquisition and Relocation

The Sponsor has completed the Draft Real Estate Acquisition and Management Plan (RAMP). Refer to the Project Management Plan and Subplans section of this report for the status of the RAMP.

July 2024 Sponsor updates included:

- Status of property acquisitions and easements
 - TJPA has divided the acquisitions into multiple tranches that will be progressively advanced to levelize the workload and funding requirements. The first tranche includes five total acquisitions, funded through Regional Measure 3 MTC allocation, for FY2024-2025. *The five associated Phase I Environmental Site Assessments (ESA) have been completed with no significant findings. Appraisals will start in November 2024. TJPA advised that the FTA should expect, in Q1-2025, five appraisals and independent reviews for FTA review and approval.*
 - *TJPA advised that the right of way program is currently fully funded through Regional Measure 3.*
 - The subsequent Regional Measure 3 MTC allocations will be used for partial acquisitions and two additional full acquisitions.
 - *Acquisition of the remaining total acquisitions, 14 subsurface easements, the temporary construction easements and the seven rock-dowel easements will be advanced in tranches at the appropriate time given consideration to project risk, including construction sequencing. Partial acquisitions will be advanced as the project design progresses.*
 - Approximately 28 potential displacements have been identified.
 - TJPA previously noted that schedule revisions reported are based on updated anticipated regional funding flow for acquisitions and relocations.
 - Pre-acquisition work for Caltrans-owned property at 2nd and Harrison Streets (SE corner) required for DTX tunnel ventilation building.
 - Multi-agency agreement required for the total acquisition process.
 - Phase I Environmental Site Assessment completed.
 - An ALTA/NSPS Land Title Survey was completed meeting the strict standards developed by the American Land Title Association (ALTA) and the National Society of Professional Surveyors (NSPS).
 - Cooperative Agreement signed approximately 10 years ago; transactional documents in development; closing had been anticipated in January 2024 but was not achieved; *new forecast is now mid-2025 and this is expected to be*

consistent with the new revised project Master Schedule currently in development.

- The later date for closing better supports the project’s need for the parcel as the “trigger event,” as required by the agreement, is expected to be the utility relocation work planned under the Advance (Enabling) Works Package.
- DTX Underpinning Work on Three Existing Structures
 - Detailed review of noise and vibration impacts is required prior to work on the critical property at 235 2nd Street.
 - The TJPA Executive is in contact with the property owner.
 - TJPA was granted initial access to the property for the building survey.
 - Background noise and vibration readings were collected.
 - Remote noise and vibration simulation of the EMU vehicle was completed.
 - Remote simulation results validated by noise and vibration measurements taken under actual operating conditions using EMU vehicles at operating speed on the completed southern part (Mountain View area) of the Peninsula Corridor Electrification Project.
 - GEC is managing the site investigations/studies:
 - Building noise/vibration propagation model is completed.
 - GEC has completed the mitigations plan.
 - *GEC is preparing the draft report; final draft report had been anticipated by late January 2024 but was subsequently re-forecast for June 2024, an approximate 5-month delay; additional required testing will further delay the final draft report.*
 - Noise and vibration model and mitigation plan has been reviewed by project partner agencies – Caltrain and City/County of San Francisco.
 - TJPA completed the initial peer review; an omission in the analysis was identified; additional time was required to re-perform a portion of the analysis and revise the draft report; additionally, modelling software verification took longer than expected; *final internal peer review had been planned to start in June 2024 but will now be delayed because additional noise and vibration testing on the actual structure will be required. TJPA worked with the noise/vibration consultant to develop the scope of work and schedule for the additional field testing, analysis and reporting. The additional testing started in July 2024 to be followed by the analysis, draft report update and final peer review.*

PMOC Concerns and Recommendations

The PMOC remains concerned about the delays reported by TJPA:

- Continued slippage of the start of the initial five property appraisals.
- Significant delay of 7 months, from April to November 2025, for the “Clear ROW/Start Demolition” activity reported during April 2024.

The PMOC recommends that TJPA plan a revised approach to avoid further delays and expedite completion of key real estate acquisition processes to recover some of the schedule delay time. *The PMOC does note, however, that the Project Master Schedule is currently being revised to reflect the new target date of July 2027 for the FFGA. The PMOC will re-evaluate its property acquisitions concerns based on the approved revised Master Schedule.*

2.10 Third-Party Agreements and Utilities

The project requires multiple third-party agreements and the temporary and permanent relocation of a large number of existing utilities. The PMOC continues to review the updated presentation material provided by the Sponsor and will continue in-depth reviews of specific project documents as they are made available. During May 2024, the PMOC completed its Final Report – Review of Third-Party Agreements for Major Capital Projects in accordance with the FTA’s OP39 requirements. The FTA transmitted the Final Report to TJPA in early June 2024.

July 2024 Sponsor updates included:

- San Francisco Peninsula Rail Program MOU
 - The MOU was executed on June 5, 2020.
 - Agency Partners include:
 - Transbay Joint Powers Authority (TJPA)
 - Metropolitan Transportation Commission (MTC)
 - San Francisco Municipal Transportation Authority (SFMTA)
 - Peninsula Corridor Joint Powers Board – Caltrain (PCJPB)
 - California High Speed Rail Authority (CHSRA)
 - City and County of San Francisco (CCSF)
 - The MOU partners recognize that the Transbay DTX project is a critical link in the Bay Area, mega-region, and state transportation system. The partners believe that the Transbay DTX can be more efficiently and effectively developed through a multi-agency partnership among local, regional and state stakeholder agencies with expertise in developing, funding and implementing major transportation infrastructure projects.
 - *The MOU had a 3-year term to June 5, 2023 and has been extended twice. The first amendment extended the term to December 2023 and the second amendment to May 2024. The agreement was allowed to lapse with TJPA's agreement to operate under the framework of the Successor MOU Blueprint adopted by TJPA in August 2023.*
 - The 6 agency project partners continued work on the successor MOU that will effectively and efficiently support the Transbay DTX project as it advances from the Project Development phase to the Engineering phase during 2024. *Action on the successor MOU by the TJPA Board is now anticipated in September 2024.*
- City and County of San Francisco (CCSF) Agencies (10) – Interagency Cooperative Agreement (ICA).

- The ICA will provide a single agreement between CCSF and TJPA for Phase 2 of the Transbay Program, with a common set of terms negotiated with TJPA counsel and one team from City Attorney’s Office (CAO). The ICA is supplemented by two sets of appendices: Appendix A – Real Estate; Appendix B – Technical Scopes by Agency.
- ICA Drafting and Approval Timeline:
 - Approved by full Board of Supervisors on June 27, 2023.
 - Resolution signed by Mayor; ICA was executed on February 7, 2024.
 - *The monthly Technical Advisory Committee Meeting was held during July 2024; TJPA hosts and manages the meeting; the meetings continue to provide an effective clearing house for city and county actions on shared DTX issues, primarily with SFPW, SFPUC, and SFMTA and with other departments as needed for specific input; one critical goal is early identification of potential risks to the Transbay DTX project.*
 - Appendix B to the Agreement addresses scope and budget for FY2024-2025 for each of the 10 agencies; all 10 budgets have been submitted.
- Joint Trench Agreement
 - TJPA continues to work on a single agreement for 9 parties (Astound, Comcast, CVIN, Cogent, Extenet, Lumen, Verizon, Zayo, and the San Francisco Department of Technology) and will share the cost estimate with the 9 telecom entities upon design completion. TJPA is responsible for the costs associated with relocating San Francisco Department of Technology facilities while the private utilities are responsible for their share of the costs.
 - The invitation to participate (Form A) was distributed in July 2023; all participating entities had responded in September 2023; Form A will be modified to reflect schedule changes in accordance with the TJPA notification letter sent in March 2024 and any upcoming TJPA Board actions regarding the project schedule; deadline for completion of modified Form A will be extended by 6 months to May 1, 2025.
 - Cost Estimate (Form B) will be distributed upon 100% Design completion.
 - Coordination with the 11 telecom companies, including those who will not relocate in the joint trench facility, continues in support of the utility relocation design progression and development.
 - The 9 private telecom entities and SFDTPS have agreed to relocate their facilities in the proposed joint trench structure located in the center of Townsend St. between 3rd and 7th Streets.
 - FTA advised that TJPA needs to check their procurement process regarding technical and legal requirements for executed agreements. FTA requested copies of Forms A and B for their review. Form A was provided; *Form B continues in development and will be based on the Final 100% Design.*
 - PG&E has made the decision not to participate in the agreement based on the proposed physical location of the joint trench facility.
 - TJPA is making provisions for spare capacity in the trench structure for future use.

- Vertical alignment is being revised based on updated utility crossing information and to minimize depth of excavation; additional as-built drawings and data from the Central Subway project are being used to inform the Transbay DTX design.
- TJPA continues development of the shared cost breakdown concept.

- California High Speed Rail Authority (CHSRA)
 - The Master Cooperative Agreement (MCA) with CHSRA will provide the respective roles and responsibilities of TJPA and CHSRA and detail the procedures for both to work cooperatively together for the joint operation of the new rail terminal at the Salesforce Transit Center to be constructed by TJPA as part of the Transbay DTX Project.
 - TJPA continues negotiation of the MCA with CHSRA.
 - Completion of the Agreement is targeted for March 2025.

- Peninsula Corridor Joint Powers Board (PCJPB)
 - The Master Cooperative Agreement (MCA) with Caltrain will provide the respective roles and responsibilities of TJPA and Caltrain and detail the procedures for both to work cooperatively together for the design, construction, commissioning, operation, maintenance, funding, risk allocation and asset disposition of the Transbay DTX Project. TJPA continues working with Caltrain on the new MCA.
 - Workplan timeline and status:
 - Completion of the MCA was anticipated in September 2024 but is now targeted for March 2025.
 - The TJPS/Caltrain Interim Agreement has been completed and was approved by the PCJPB on August 3, 2023 and by the TJPA Board on August 10, 2023. Because of the delay completing the MCA, the Interim Agreement will need to be extended from September 2024 to March 2025.
 - Interim Agreement features:
 - Separate, stand-alone Agreement – August 2023 to September 2024; agreement will be extended to March 2025.
 - Defers work in Rail Yard to another separate TJPA/Caltrain agreement.
 - Focus on Reimbursement Mechanics: Work Scope; Caltrain investments; Resource Scheduling.
 - Other separate agreements:
 - Sitework MOA for Caltrain reimbursement to oversee yard work.
 - *Railyard Agreement draft for the 4KYB work scope continues in review; the final agreement had been anticipated in June 2024, a 3-month delay from the previous forecast; now expected in October 2024.*

- Pacific Gas and Electric (PG&E)
 - TJPA continues negotiating an agreement with PG&E for providing power to the Transbay DTX project for the new underground rail station located at Fourth and

Townsend Streets, the new rail terminal at the Salesforce Transit Center and the tunnel ventilation facilities as well as relocation of existing utilities.

- Agreement targeted completion date – August 2023; not achieved.
 - Includes both temporary and permanent relocation of multiple gas, electric and telecom lines located along the project ROW. A single agreement is anticipated but there may be a need for separate agreements based on work scoping and timing.
 - Additional DTX power requirements have been identified and inputs revised; corresponding revised Load Flow Analysis (LFA) and model for the Caltrain Traction Power system is in progress; Caltrain engaged in review of early draft analysis and continues their involvement as the analysis finalization progresses; *final approved LFA had been anticipated in May 2024 pending further coordination with Caltrain and then during August 2024, but this was not achieved; draft LFA now expected during Q4-2024.. For further information see Section 2.7, Design.*
- TJPA/Caltrain Railyard Agreement for Transbay DTX 4th and King Railyard Site Work
 - Caltrain (permanent easement holder)
 - Weekly technical meetings are also informing negotiating positions.
 - Parties developing CMGC procurement plan for 21-4KYB had anticipated release of RFQ in Q1-2024, but this will be delayed due to design changes to implement the 4KYB Revised Concept based on the 30% Design scope approved by Caltrain.
 - *Draft 4KY Railyard Agreement has been reviewed by Caltrain and the Final Agreement is now expected in late Q4-2024.*
 - The Sitework MOA is executed, expires on September 30, 2024 and needs to be extended; TJPA plans to include the MOA in the 4KY Railyard Agreement.
 - Prologis (property fee owner)
 - TJPA previously advised that the agreement timeline development continues to make progress but remains dependent on outcomes of TJPA’s work with Caltrain.
 - The PMOC remains somewhat concerned about the apparent lack of reported progress advancing the Caltrain/Prologis agreement. TJPA previously noted that there has been real progress in several areas.
 - *The most recent meeting with Prologis involving both TJPA and Caltrain was held on July 17, 2024.*
 - Prologis has been briefed on the 6th Street Sewer re-alignment plans. SFPUC has provided additional information:
 - The sewer outfall to Mission Creek has been changed; SFPUC will need to check the hydraulic analysis for any impacts.
 - SFPUC advised that an access road to the re-aligned sewer will be needed for inspection, maintenance and repair.

PMOC Concerns and Recommendations

The PMOC previously expressed concerns about the challenges presented in negotiating agreements involving three diverse entities: an operating rail transit agency; local city and county government; private sector utilities and property fee owner. Under these circumstances, the negotiation process can require additional time and may require revisions to the project design, including acquisition of additional project Right-of-Way (ROW) property.

The PMOC had previously expressed the opinion is that, in general, the critical third-party agreements present a significant risk to the project based on the following observations:

- Many of the agreements involve multiple parties with diverse interests in both the private and public sectors.
- The scope of the agreements is wide and includes various combinations of the following key project elements:
 - Project design coordination
 - Modifications to existing infrastructure not owned by TJPA.
 - Cost sharing
 - Construction coordination and support
 - Operation and maintenance of the new rail system extension, station and terminal

There are 12 third-party agreements identified by the Project Sponsor as critical for the project. In the PMOC's Review Report – Third-Party Agreements for Major Capital Projects, dated May 2024, it is recommended that three additional agreements be considered as critical. The PMOC does note that while six agreements have been executed, some will require extensions, amendments and one successor agreement. The PMOC further notes that work on advancing and executing the critical third-party agreements remains a top priority of TJPA management. *The PMOC recommends that TJPA continue to maintain its focus on this essential FFGA requirement.*

2.11 Construction

Forecast Construction Start

In January 2023, construction had been forecast to commence during 4Q-2023 with the Advance (Enabling) Work Program contracts. The forecast changed during March 2023 with the utility relocation work forecast to start late in 2Q-2024, a delay of approximately 5-6 months. *The building demolition work is now forecast to start later in 3Q-2025, a total delay of approximately 17-18 months. See also Section 2.14, Project Schedule, for additional discussion.*

Progressive Design-Build Contract

TJPA has selected the Progressive Design-Build (PDB) delivery method for the civil and tunnel scope of work and is currently advancing the procurement of this contract. See Section 2.6, Project Delivery Method and Procurement, for details.

2.12 Vehicle Technology and Procurement

There are no direct revenue service vehicle procurements by TJPA included in the final DTX Project scope of work.

During April 2023, TJPA notified the FTA that TJPA was considering a modification to the DTX Project definition to take advantage of a contract option available under Caltrain's current EMU rail car procurement and add one additional 7-car trainset under the Transbay DTX Project. However, at the end of July 2023, TJPA decided not to include the one trainset in the Transbay DTX Project, but Caltrain will continue with its plan to procure four (4) trainsets under the existing option (three diesel replacements and one spare) under a separately funded Caltrain project. During August 2023, TJPA included in the Transbay DTX Project scope of work the acquisition of five non-revenue Maintenance of Way vehicles and the level-boarding door modifications to the 23 new EMU revenue vehicles from Caltrain under their current procurement.

2.13 Project Cost

The Final Capital Cost Estimate, prior to the FTA/PMOC Risk and Contingency Assessment, was approved at the TJPA Board meeting on February 9, 2023. Based on finalization of the Program scope of work and the results of the FTA/PMOC Risk and Contingency Assessment, the Total Project Cost is \$8,255 million YOE, including financing cost and contingency, as presented in TJPA's revised SCC workbook dated August 25, 2023.

July 2024 Sponsor updates included:

1. Program Funding Status

- In September 2023, FRA announced CRISI awards. Transbay DTX was not selected for the anticipated \$60 million award. TJPA re-applied for this grant in May 2024.
- In December 2023, Federal/State Partnership Grant awards were announced. Transbay DTX was not selected for the anticipated \$194 million award. TJPA is seeking replacement funding sources and awaits the Notification Of Funding Opportunity for the Federal/State Partnership Grant for 2024.
- TJPA submitted its application for the USDOT \$227 million National Infrastructure Project Assistance (Mega) Grant on August 21, 2023. In January 2024, TJPA was notified that Transbay DTX was not selected for the award. TJPA re-applied for this grant, jointly with Caltrans, in May 2024.
- For the Community Facilities District Bond Capital Funding Source (CCSF), the updated CCSF forecast has been included in the 20-Year Financial Plan.
- CTC action on budgeted \$60 million from TIRCP (Cycle 6):
 - In October 2023, CTC programmed \$60 million and allocated \$15.5 million.
 - Allocation of \$44.5 million balance expected in early FY24-25.
 - This funding source is for professional services and will be used for engineering/design work.
- *Under California TIRCP Cycle 7 for Greenhouse Gas Reduction, TJPA has decided not to apply. Instead, TJPA plans to apply for the Cycle 8 program which is better aligned*

with the Transbay DTX project scope. Action is anticipated during 2025 with application expected in early to mid-2026.

- Regional Measure 3 funding: MTC allocated \$100.7 million in November 2023 for ROW acquisition, relocation, and professional services.
- Under the SFCTA 5-Year Prioritization Program, the Transbay DTX Project’s cashflow was changed slightly from the 20-Year Financial Plan; instead of \$25 million in FY25 the planned cashflow will be \$10 million in FY25 and \$15 million in FY26.
- *In response to the FTA’s inquiry several months ago, TJPA advised that it is still evaluating a loan from the USDOT’s Transportation Infrastructure Finance and Innovation Act (TIFIA) program.*
- In response to the need to secure funding to replace recent lost opportunities, TJPA has revised and adjusted its funding strategies to optimize approaches for federal discretionary funding and increase focus on additional state, regional and local funding sources.
- *TJPA is analyzing the impact of the reduced CIG funding commitment that is lower than TJPA had requested. The Sponsor is also working with local, regional and state agencies as well as other funding sources, including:*
 - *New Regional Measure (2026 Ballot)*
 - *Re-authorization of California Cap and Trade Program (in development)*
 - *Revisions to local real estate-based funds: net tax increment, community facilities district.*
- *TJPA reported that they are developing the cash flow to support the project through the Engineering Phase to FFGA. It involves an iterative process with the finance group and the project team. The updated project Master Schedule reflecting the new July 2027 target for FFGA will include considerations for funding availability.*

2. Program Cost Status

- Reflecting the results of the FTA/PMOC Risk Assessment, TJPA submitted an updated SCC Workbook dated August 25, 2023. This Workbook is inclusive of the train box constructed under DTX Phase 1, the acquisition of five non-revenue Maintenance of Way (MOW) vehicles and the level-boarding door modifications to the 23 new EMU revenue vehicles from Caltrain under their current procurement. The Workbook also includes contingency and finance costs and reflects a total project cost of \$8,255 million YOE. TJPA completed its bottom-up cost estimate for the SCC80 elements based on its recently developed staffing plan and on the TJPA/Caltrain Interim Agreement. TJPA confirmed that its current estimate is reflected in the updated SCC Workbook dated August 25, 2023. A summary version of the SCC Workbook is shown below:

DTX Project SCC Cost Workbook Summary		
SCC Category	Description	YOE \$'s (\$B)
10	Guideway & Track Elements	\$2.5
20	Stations, Stops, Terminals, Intermodal	\$1.5
30	Support Facilities (Yards, Shops, Admin. Buildings)	\$0.03

40	Sitework & Special Conditions (incl Temp Facilities)	\$0.8
50	Systems	\$0.3
Subtotal	Construction	\$5.1
60	ROW, Land, Existing Improvements (incl Purchase or Lease of Real Estate)	\$0.4
70	Vehicles	\$0.06
80	Professional Services (incl Design and CM)	\$1.1
Subtotal (10-80)	Construction, Real Estate, Vehicles & Prof Services	\$6.6
90	Unallocated Contingency	\$1.2
Subtotal (10-90)	All Costs except Finance Charges	\$7.9*
100	Finance Charges	\$0.4
Total (10-100)	Total Project Cost	\$8.25B
* Where costs do not precisely add, this is due to rounding of numbers above.		

- Current forecast of cost estimate updates for Advance (Enabling) Works Program:
 - 90% Utilities Relocation Design – *Cost estimated submitted on June 28, 2024 and is under review.*
 - 30% 4th and King Railyard Site Work Design – *Final 30% Design cost estimate completed and submitted in May 2024, accepted in July 2024.*
 - 60% Building Demolition Design – *completed in April 2024, comments resolved and cost estimate accepted in May 2024.*

- TJPA continues to work on detailing the \$25 million Rail Yard Allowance cost item.
 - Detailed cost breakdown will be based on 30% Design for 4th and King Railyard sitework; 30% Design completion for Packages 4KYA and 4KYB was completed in April 2024; *the separate cost estimates were submitted in May 2024, reviewed, reconciled and accepted on July 15, 2024.*
 - *Based on the final cost estimates, the fully loaded cost for all of the 4KYA+B work increased \$28.4 million from \$155.7 million to \$184.1 million.*

- Bottom-Up Cost Estimate for SCC 80 Elements
 - TJPA has completed the updated Staffing Plan with the remaining additional 3rd-party staffing from Caltrain, CCSF, the five agency project partners and the PMCM that is based on the top-ranked firm’s staffing plan.
 - TJPA has developed a preliminary cash flow for the next 3 fiscal years.

- *TJPA provided a summary of the recent proposed cost reduction initiatives:*
 - *Eliminate train box extension at the Salesforce Transit Center - \$130M*
 - *Reduce length of PAX tunnel stub box - \$205M*
 - *Defer HSR vertical circulation at Salesforce Transit Center - \$15M*
 - *Delete HSR side platforms at 4th and Townsend St. Station - \$190M*
 - *The four initiatives listed above are still “proposed” until formally approved by TJPA based on environmental review (NEPA, CEQA), and final required stakeholder sign-offs.*
 - *Estimated values are “fully cost loaded.”*
 - *Potential future cost mitigations are based on savings through such areas as reduced escalation and ROW costs.*
 - *Potential future secondary mitigation savings are based on future value engineering, design development and constructability considerations as designs advance from the current 30%.*

PMOC Concerns and Recommendations

Program Funding

The PMOC notes that the Transbay DTX Project was not selected for three key funding source awards (FRA CRISI Grant, Federal/State Partnership Grant, National Infrastructure Project Assistance (Mega) Grant) representing a total of \$241 million in federal funding for the project. This presents an additional challenge to TJPA in their efforts to secure matching funds as required by the FTA Capital Investment Grants Program. The PMOC recommends that TJPA continue to maintain program funding as a critical priority and seek other available funding sources either as a direct recipient or through eligible project stakeholders. The PMOC notes that TJPA has re-applied for two of the grants not awarded for Transbay DTX and continues to work on additional funding sources through new applications to USDOT, FRA and California programs.

Program Cost

At the February 21, 2024 FTA/PMOC monthly meeting with TJPA, the PMOC requested that TJPA commence more detailed cost reporting against the established project budget. This approach would be similar to the current TJPA schedule reporting that includes a detailed quantitative monthly update with a narrative that discusses changes, impacts of current and anticipated project issues and use of contingency. TJPA responded that the incoming PMCM consultant will be developing this reporting for the project cost as a key initial task when the consultant is mobilized, which occurred during July 2024.

2.14 Project Schedule

The Project Master Schedule, prior to the FTA/PMOC Risk and Contingency Assessment, was approved at the TJPA February 9, 2023, Board meeting. Reflecting the result of the FTA/PMOC Risk Assessment completed in August 2023, TJPA accepted the results of the schedule analysis and finalized their updated Master Schedule to align with the analysis outcomes for Planned Revenue Service Date (RSD) of September 30, 2032 and FFGA RSD of June 27, 2035 with contingency.

July 2024 Sponsor updates included:

- *The June 2024 Master Schedule update was provided in early July 2024 and has a data date of May 31, 2024.*
- *The critical path remains unchanged since the last update and includes the following elements:*
 - *Development of the Civil and Tunnel contract documents.*
 - *Advertise and award the Civil and Tunnel contract (pre-construction) by August 2025*
 - *Preconstruction design development, pricing negotiations and construction NTP by December 2026*
 - *Construct the 4th and Townsend Station by October 2031*
 - *Construct the 4th and Townsend headhouse by October 2032*
 - *Complete Stations Fit-Out systems testing by March 2033*
 - *Complete Pre-revenue testing and initiate revenue service by August 2033*
- *Per the schedule narrative, TJPA reported that they are working with utility agencies, GEC and PMPC scheduling specialists to optimize the utility design and construction schedule to mitigate any future schedule impacts. The utility 90% submittal was issued to stakeholders for review. The design team continued with coordination and plan review and approval milestones. The reviews have prepared utility agency stakeholders for review on the forthcoming 100% and IFB deliverables.*
- *TJPA and Caltrain have shifted focus from finalizing the MCA to the 4KY agreement because of the ongoing advancement of 4KY design, and the sequencing of construction. The 4KYA is among the earliest construction activities. As a result, work on the MCA has been paused while the 4KY Agreement has been actively negotiated. The TJPA and Caltrain Board approvals for 4KY agreement have been shifted due to the availability of legal support, and drafting of the actual agreement which requires additional time to complete. This resulted in a variance of the MCA activities of 20 work days.*
- *There was also a 25-work day variance to the Building Demolition 60% comment resolution activity. It resulted from prioritization of cost estimating to support secondary mitigation with a subsequent delay to Building Demolition activities.*
- *The track and systems advertisement slipped 22 work days in the update. There is still a significant amount of float in the schedule update.*
- *Through continuing discussions with TJPA it is apparent that real estate progress continues tracking behind schedule. There may be schedule complications if the real estate*

processes are not maintained. TJPA will continue to prioritize ROW activities to advance the schedule and prevent further need for mitigation. The ROW parcels are now divided in tranches, which allows the team to move forward with the acquisitions and appraisals process in a staggered manner. This allows for a ROW schedule that is reflective of parcels need dates and allows the team to pursue activities that can be advance meeting project needs. Two historical properties are proposed for acquisition and demolition. The TJPA coordinated with the State Historic Preservation Officer (SHPO) received approval for the approach to recordation of those properties in advance of demolition.

There continue to be several facts of significant importance that are monitored and reported:

- There is a continued slippage of the start of the initial five property appraisals.*
- A significant delay of 7 months (168 days) has been reported for the demolition work. It is currently scheduled to begin in August 2025 but has a comfortable level of float in the current update..*
- It appears that the demolition schedule slip does not cause a critical delay to the project at this point but it does place limitations on the successor construction activities and restricts flexibility.*
- TJPA should adjust the Master Schedule to include the delays discussed above so that the impact can be measured and documented.*
- The Master Schedule has a secondary path of 14 work days consisting of completion of utility design and conducting utility relocations on Townsend Street. These remain unchanged since the last update.*
- The Master Schedule has an additional secondary path with a total float of 81 work days. As noted above, this is a variance of 25 work days since the last update. Those activities include:*
 - Building Demolition Design 100% by October 2024*
 - Advertise and award Building Demolition contract by April 2025*
 - Complete the Real Estate process by September 2025*
 - This tied to critical tunnel work and access by the Civil and Tunnel contractor.*
- An additional path with total float of 159 work days. This is unchanged since the last update. The path includes the following work:*
 - 4th and King Yard Design Package B 60% by November 2025*
 - 4th and King Yard Design Package B 90% by May 2026*
 - 4th and King Yard Design Package B 100% by August 2026*
 - Package B Long lead procurements by August 2027*
 - 4th and King Yard construction stages 2 through 7 and U wall by May 2030.*
 - Ties to Test and Revenue Service*
- The target for revenue service remains at August 31, 2033.*
- No contingency time was used during this update period.*
- July 2024 Master Schedule Update Look-Ahead*
 - Continued Industry Review of Civil and Tunnel (PDB short-listed) RFP documents will be performed.*
 - Continued design development and Real Estate activities.*

PMOC Concerns and Recommendations

The delay noted in the January 2024 schedule update was the recognition of extended time needed to finalize the utility relocation plans. This is a concern because the utility relocations are an early work item that controls access to most of the project. Additionally, the PMOC remains concerned that the project is using valuable schedule contingency prior to the actual start of construction when contingency is most needed. The PMOC notes that the total use of schedule contingency remains at 186 WD. *TJPA is in the process of developing and executing the best and most efficient approach to expedite the utility relocation work.*

The PMOC is also concerned that the continued slippage of a number of work tasks causes compression in the following activities in order to maintain milestone targets. For example, the lack of progress in real estate procurement and the recognition of a seven-month delay to the start of building demolition may have significant negative impacts to the project schedule and the ability for successor contractors to conduct their work efficiently. Included in this is the recognized slip in building demolition contract documents. The loss of float could hamper the contractor's flexibility to sequence work elements. By the reasoning above, a significant impact to the program schedule could occur if the required schedule adjustments and modifications are not implemented to address the delays discussed above. TJPA advised that the seven-month delay to Building Demolition noted above will be reflected in the August 2024 schedule update (July 31, 2024 data date) and that it is in alignment with the shift to the later target FFGA date as discussed in the paragraph below.

The PMOC notes that potential adverse schedule impacts due to the issues identified above may be significantly reduced due to development of a new Master Schedule that adds 27 months to the target date for the FFGA. During July 2024, the TJPA Board approved the shift in the FFGA target date and the Project Team commenced development of the new Master Schedule based on the new FFGA date of July 2027. The PMOC will re-evaluate its project schedule concerns based on the approved revised Master Schedule, now expected in September/October 2024.

2.15 Project Risk

The PMOC conducts risk assessments in accordance with OP40 at key project milestones when requested by FTA to support FTA's decision regarding project advancement and funding. To date, the PMOC has conducted one risk assessment of the DTX Project, which supported FTA's evaluation of the project's readiness to advance into the Engineering phase. The pre-Entry to Engineering Risk Assessment was completed between May and August 2023 and indicated an estimated project cost of \$8,255 million including finance cost and contingency, and a forecasted FFGA Revenue Service Date of June 27, 2035, including contingency. These values form the current baseline of the project as it advances through the Engineering phase.

In accordance with the DTX PMP and RCMP, the Sponsor prepared a risk register early in the project development. After the FTA/PMOC risk assessment, TJPA aligned both the project's risk register and its bottom-up cost model with the FTA's top-down model and used them to update

the project's cost and schedule contingency drawdown curves. In compliance with its RCMP, TJPA updates the project risk register and provides a summary report to management on a quarterly basis.

TJPA conducted their 2Q-2024 internal Risk Update Workshop on July 25, 2024, which was attended by the PMOC and primarily focused on top risks in the areas of procurement, funding, permitting, and right-of-way and several other areas. Participants also reviewed the current list of Potential Risks and current list of Issues. For the Potential Risks, one related to construction interface among various contractors was elevated onto the risk register and one related to issuing the RFP for the PDB contract was retired. For the Issues, it was decided to discuss a group of twenty issues with the PMCM team to get additional perspective on whether they should be elevated to risks. The associated updated risk register and the Quarterly Risk Report have not yet been distributed.

The current top project risks are presented in Attachment C of this report.

2.16 Quality Assurance/Quality Control

The Sponsor has completed preparing the Project Quality Assurance Plan, and the PMOC has completed its OP24 review. Refer to the Project Management Plan and Subplans discussion in Section 2.3 of this report for the status of the QAP.

2.17 Safety and Security

The Sponsor has completed the Project Safety and Security Management Plan (SSMP) and provided the SSMP to the PMOC on April 17, 2023, and the PMOC completed its review. Refer to the Project Management Plan and Subplans discussion in Section 2.3 of this report for the status of the SSMP.

2.18 Americans with Disabilities Act (ADA)

The PMOC has reviewed ADA compliance during the following reviews:

- OP20 – Project Management Plan
- OP22 – Project Safety and Security Management Plan
- OP32C – Project Scope Review

2.19 Buy America

The PMOC has reviewed Buy America compliance during the following reviews:

- OP20 – Project Management Plan
- OP32C – Project Scope Review

2.20 Start-Up, Commissioning, Testing

The project is currently at the Preliminary Engineering/Design Stage, approximately 30%. The PMOC evaluated the adequacy of the system start-up, testing and commissioning provisions in the Design Basis and Design Criteria documents, as well as in the SSMP, that was reviewed for the OP32C Project Scope Review.

2.21 Before-and-After Study Reporting

The PMOC will confirm that the Sponsor has addressed the requirements for the Before-and-After Study Reporting during the following reviews:

- OP21 – Management Capacity and Capability
- OP33 – Capital Cost Estimate
- OP51 – Readiness to Enter Engineering

2.22 Lessons Learned

OP26 – Lessons Learned is currently not included in the PMOC scope of work for either the Regional or Programmatic Task Orders for oversight services on the Transbay Downtown Rail Extension Project, Phase 2.

2.23 Actions Items Table

Item No.	Item	Responsible Party	Date Identified	Date Due	Date Completed	Status / Action Required
24-1.	Update Real Estate “ROW Timeline” in Presentation to reflect schedule changes.	TJPA	Jun. 18, 2024 at Monthly Meeting with FTA/PMOC	Next Monthly Meeting – July 16, 2024		Open
24-2.	Provide updated status of Traction Power System Load Flow Analysis.	TJPA	Jun. 18, 2024 at Monthly Meeting with FTA/PMOC	Next Monthly Meeting – July 16, 2024	<i>July 16, 2024</i>	Resolved
24-3.	Arrange working meeting with PMOC for Master Scheule Review.	TJPA	Jun. 18, 2024 at Monthly Meeting with FTA/PMOC	Next Monthly Meeting – July 16, 2024	<i>July 11, 2024</i>	Resolved <i>(Additional Working Mtgs. to be Scheduled)</i>

3.0 PROJECT MONITORING REPORT ATTACHMENTS

- A. List of Acronyms
- B. Safety and Security Checklist – In preparation by the Sponsor.
- C. Top Project Risks
- D. Awarded Contracts – Working with Sponsor to include all current contracts for professional services.
- E. Rolling Stock Vehicle Status Report – N/A.
- F. Project Milestones/Key Events – Will be included in a subsequent Monthly Report based on the risk-informed Final Draft Master Schedule and current schedule updates.
- G. Roadmap to Revenue Operations – Will provide Roadmaps for Entry to Engineering and FFGA based on FTA development details.
- H. Project Map
- I. Monthly FTA/PMOC Meeting Agenda and Attendees

Attachment A: List of Acronyms

ACOR	-	Alternate Contracting Officer Representative
ADA	-	Americans with Disabilities Act
ALTA	-	American Land Title Association
CAO	-	City Attorney’s Office
CCSF	-	City and County of San Francisco
CEQA	-	California Environmental Quality Act
CHSRA	-	California High Speed Rail Authority
CIG	-	Capital Investment Grants
CMGC	-	Construction Manager/General Contractor
CPM	-	Critical Path Method (type of project schedule)
CRISI	-	Consolidated Rail Infrastructure and Safety Improvements Program (FRA)
CTC	-	California Transportation Commission
DTX	-	Downtown Rail Extension (as in “Transbay DTX Project”)
DBB	-	Design/Bid/Build
EMU	-	Electric Multiple-Unit (rail car vehicle)
ESA	-	Environmental Site Assessment
FEIS	-	Final Environmental Impact Statement
FFGA	-	Full Funding Grant Agreement
FMOC	-	Financial Management Oversight Contractor
FRA	-	Federal Railroad Administration
FTA	-	Federal Transit Administration
GEC	-	General Engineering Consultant
HSR	-	High Speed Rail
ICA	-	Interagency Cooperative Agreement
IPMT	-	Integrated Program Management Team
LFA	-	Load Flow Analysis (related to Caltrain’s traction power system)
LONP	-	Letter of No Prejudice
LPA	-	Locally Preferred Alternative
MCA	-	Master Cooperative Agreement (TJPA/Caltrain <u>or</u> TJPA/CHSRA)
MCC	-	Management Capacity and Capability
MMR	-	Mitigation Monitoring Report

MMRQ	-	Quarterly Mitigation Monitoring Report
MOA	-	Memorandum of Agreement
MOU	-	Memorandum of Understanding
MOW	-	Maintenance of Way
MTC	-	Metropolitan Transportation Commission
NEPA	-	National Environmental Policy Act
NSPS	-	National Society of Professional Land Surveyors
NTP	-	Notice to Proceed
OCS	-	Overhead Contact System
PCEP	-	Peninsula Corridor Electrification Project (Caltrain)
PCJPB	-	Peninsula Corridor Joint Powers Board
PD	-	Project Development
PDB	-	Progressive Design-Build
PG&E	-	Pacific Gas & Electric
PMCM	-	Program Management/Construction Management
PMOC	-	Project Management Oversight Contractor
PMPC	-	Program Management/Project Controls
PMP	-	Project Management Plan
QAP	-	Quality Assurance Plan
QA/QC	-	Quality Assurance/Quality Control
QRA	-	Quantitative Risk Assessment
RAMP	-	Real Estate Acquisition and Management Plan
RCMP	-	Risk and Contingency Management Plan
RFMP	-	Rail Fleet Management Plan
RFP	-	Request for Proposal
RFQ	-	Request for Qualifications
ROD	-	Record of Decision
ROW	-	Right-of-Way
RSD	-	Revenue Service Date
SCC	-	Standard Cost Categories
SEQA	-	State Environmental Quality Act (California)
SFDBI	-	San Francisco Department of Building Inspection
SFDTPS	-	San Francisco Department of Technology

- SFMTA - San Francisco Municipal Transportation Agency
- SFPUC - San Francisco Public Utilities Commission
- SFPW - San Francisco Public Works
- SHPO - State Historic Preservation Office (California)
- SSMP - Safety and Security Management Plan
- TIFIA - Transportation Infrastructure Finance and Innovation Act
- TIRCP - Transit and Intercity Rail Capital Program
- TJPA - Transbay Joint Powers Authority (Project Sponsor for Transbay DTX)
- USDOT - United States Department of Transportation
- WD - Work Day
- YOE - Year of Expenditure
- 4KY - 4th and King (Streets) Yard

Attachment B: Safety and Security Checklist

Attachment C: Top Project Risks

The following are the top Transbay DTX Project risks, and their associated unmitigated risk scores as recorded in the DTX Risk Register Update meeting in July 2024:

Risk ID	Description	Score
CR13	Failure to secure cut and cover off-street muck-out staging area and having to muck out through ports in decking	20
CR3	Delay in acquisition of funding – risk that 100% committed funding plan is not identified by time of FFGA approval (2025).	20
45	Addition of floating slab to minimize operating train noise and vibration	16
3	Premium for work adjacent to operating tracks	16
180	<i>Delay to permitting over disagreement on ownership and liability of relocated utilities</i>	16

Risk Score/Rank

		Probability/Likelihood				
		1	2	3	4	5
Consequence / Severity	1	1	2	3	4	5
	2	2	4	6	8	10
	3	3	6	9	12	15
	4	4	8	12	16	20
	5	5	10	15	20	25

Key for Risk “Score”: 10-25 High (Red), >3-<10 Medium (Yellow), ≤3 Low (Green)

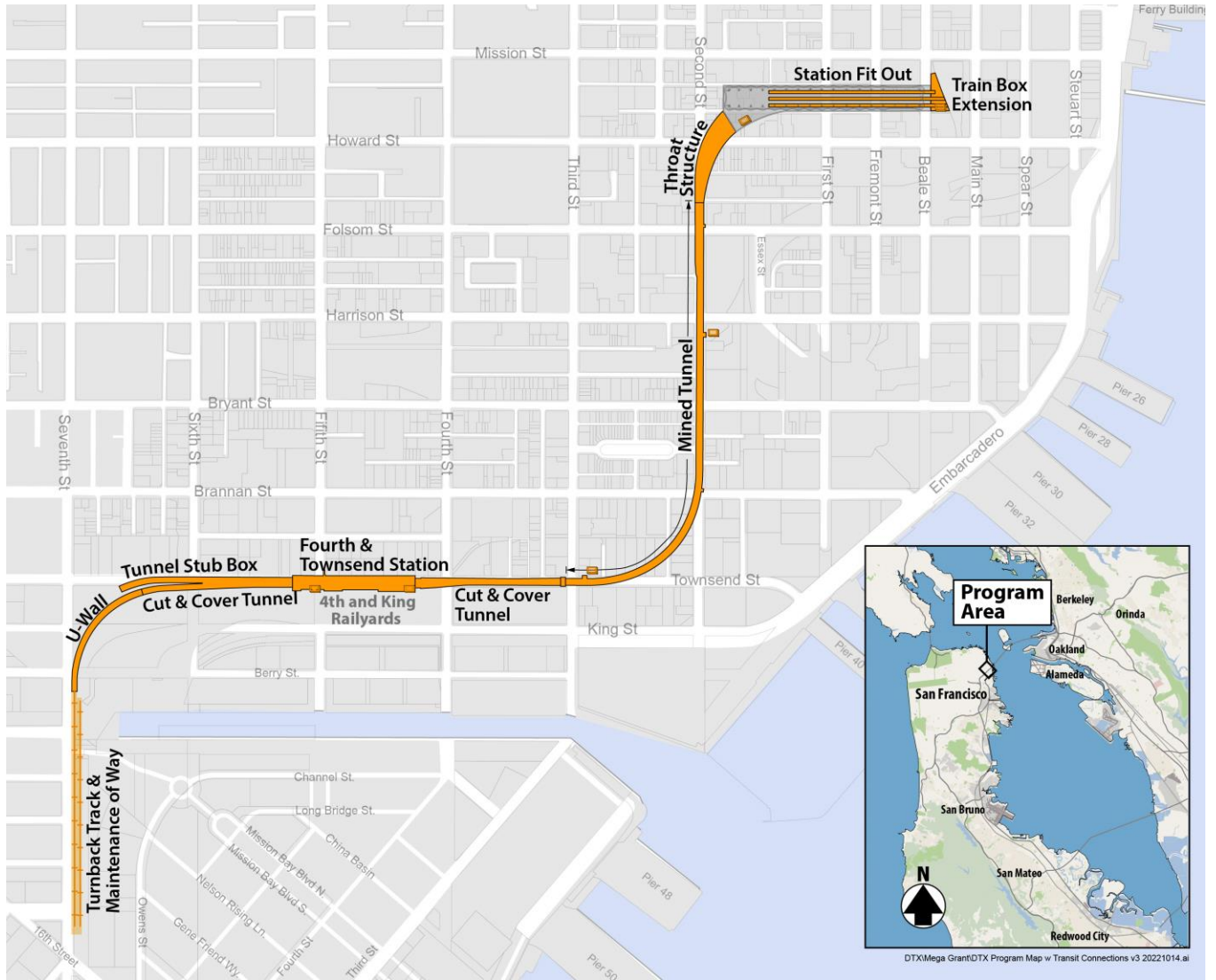
Attachment D: Awarded Contracts

Attachment E: Rolling Stock Vehicle Status Report

Attachment F: Project Milestones/Key Events

Attachment G: Roadmap to Revenue Operations

Attachment H: Project Map



Attachment I: Monthly FTA/PMOC Meeting Agenda and Attendees

Transbay Downtown Rail Extension Project, Phase 2

Grantee/Sponsor: Transbay Joint Powers Authority

FTA/PMOC Monthly Review Meeting – July 16, 2024

AGENDA

1. *Advance to Full Funding Grant Agreement [5 min.]*
 - *Planning Process*

2. *Environmental Process [5 min.]*
 - *National Environmental Policy Act (NEPA)*
 - *Mitigation Monitoring Reports*
 - *Recordation Action – 2 Properties*
 - *California Environmental Quality Act (CEQA)*
 - *Status of Review against PCEP NEPA – Forecast Completion*
 - *Progress on CEQA Addendum for 4KYB Work*
 - *Notice of Determination Process – Caltrain*
 - *Consultant Evaluation – Sep. 2024 Filing of Notice*

3. *Engineering/Design – Advance (Enabling) Works [15 min.]*
 - *Utility Relocation Package*
 - *90% Design Package Review – Status*
 - *Updated Schedule – Forecast Completion Date*
 - *DTX 4th and King Yard Preparation Packages*
 - *30% Design Review Status - 4KYA and 4KYB Packages*
 - *30% Cost Estimate Status*
 - *Design Progress – 4KYA 60 %, 4KYB Revised Concept 30%*
 - *Building Demolition Package*
 - *90% Design Progress – Target Completion*
 - *Demolition Schedule Status*

4. *Program Funding [10 min.]*
 - *Funding Applications for CY2024 – USDOT Mega, FRA CRISI*
 - *CTC Action on budgeted \$60M from TIRCP(6) – October 2023*
 - *California TIRCP Cycle 8 – Application Status*
 - *Community Facilities District Bond Capital Funding Source (CCSF)*
 - *Regional Measure 3 Funding - MTC allocated \$100.7 million (Nov. 2023)*
 - *SFCTA 5-Year Prioritizations Program*
 - *Funding Plan Update*
 - *Cash Flow through Engineering Phase to FFGA*

5. *Program Cost Status Update [10 min.]*
 - *Bottom-up Cost Estimate: SCC80 Elements – Master Schedule Update*
 - *Caltrain Review of 30% Cost Estimate for 4KYA and 4KYB*
 - *Reporting Cost Performance Against Budget – Evaluation and Set-Up*
 - *Summary of Cost Reduction Initiatives (VE, Scope Change, Etc.)*

6. *Program Schedule Status Update [10 min.]*
 - *Monthly Schedule Discussion – June 2024 Update [May 31, 2024 Data Date]*
 - *Critical Path and Progress on work to Key Milestones*
 - *Report on any late/delayed activities*
 - *Status of Critical Path activities scheduled for 3Q-2024*
 - *Delay Impacts and Mitigations*
 - *90% Utility Relocation Design*
 - *Start of Real Estate Acquisition Appraisals*
 - *Schedule Workshop with PMOC*

7. *Risk and Contingency Review [10 min.]*
 - *April 2024 Quarterly Risk Workshop (Q1-2024)*
 - *Quarterly Risk Update Memo – June 19, 2024*
 - *July 2024 Quarterly Risk Workshop (Q2-2024) - Date*

8. *Critical Third-Party Agreements – Status [15 min.]*
 - *Master Cooperative Agreement (MCA) with CHSRA*
 - *Status of Negotiations*
 - *San Francisco Peninsula Rail Program MOU*
 - *Status of Successor MOU*
 - *ICA with (10) CCSF Agencies*
 - *June 2024 Technical Advisory Meeting Outcomes*
 - *Master Cooperative Agreement (MCA) with Caltrain*
 - *Overall Progress on MCA*
 - *Progress on 4KY Railyard Agreement*
 - *Joint Trench Agreement*
 - *Discuss delay impacts due to 90% Design hold*
 - *Status of Forms A and B*
 - *Pacific Gas & Electric Agreement*
 - *Status of determination of total power requirements for Transbay DXT*
 - *Caltrain review – Traction Power LFA; study finalization*
 - *Transbay DTX work at Fourth and King Streets*
 - *Caltrain and Prologis*
 - *Progress on term sheet development/finalization; meetings held*

- *Target date for transactional approach selection: Caltrain, TJPA*
 - *Status of timeline development for agreement with TJPA/Caltrain*
 - *Tishman Speyer MOU*
 - *Scope/Timing for Construction Coordination Agreement*
9. *Real Estate Acquisitions [10 min.]*
- *Status of Appraisals for Initial Five Total Acquisitions*
 - *Status of Balance of Acquisitions and Easements*
 - *Environmental Site Assessments*
 - *Notices of Decision to Appraise*
 - *Total Acquisition Offers*
 - *Status of Total Acquisition of CalTrans Property at SEC 2nd & Harrison*
 - *Status for Additional Study Required for Property at 235 Second Street*
 - *Noise/Vibration Mitigation Plan Review by Project Partner Agencies*
 - *Status of Draft Report*
 - *Status of Additional Field Testing on Structure*
10. *Procurement [10 min.]*
- *Progressive Design-Build Contract (40-CT)*
 - *Issue Draft Contract – June/July 2024*
 - *Discussions with Short-Listed Respondents – Summer 2024*
 - *Program Management/Construction Management Contract*
 - *PMCM Organization*
 - *Integration into TJPA Project Team*
 - *Anticipated Work Plan for Q3/Q4-2024*
11. *Letter of No Prejudice (LONP) [\]*
- *No need for LONP at this time*
12. *FTA/PMOC Review of TJPA Third-Party Agreements [10 min.]*
- *TJPA Review of PMOC OP39 Report*
13. *2024 Project Management Plan Update [5 min.]*
- *TJPA Approach and Schedule*
14. *Additional Discussion [5 min.]*
15. *Next Monthly Meeting*
- *Date/Time: Wed., August 21, 2024 / Time: 11:30 AM-1:30 PM (PDT)*
 - *Location: Virtual MS Teams Meeting.*

Meeting Attendees:

Federal Transit Administration (FTA)

- *S. Ko (TRO-9)*
- *M. T. Khattak (HQ)*

Federal Railroad Administration (FRA)

- *S. Khalid*
- *M. Salahuddin*

Project Management Oversight Contractor (PMOC)

- *W. Thomsen*
- *E. Williamson*
- *D. Boe*
- *B. Kohlman*
- *W. King*

Transbay Joint Powers Authority (TJPA)

- *A. Rodriguez*
- *A. Harvey*
- *S. Polechronis*
- *M. Murphy*
- *D. Hunt*
- *J. Updike*
- *S. Mirzaei*
- *L. Ahmadi*

Caltrain

- *D. Chazan*
- *G. Osland*
- *R. Marler*