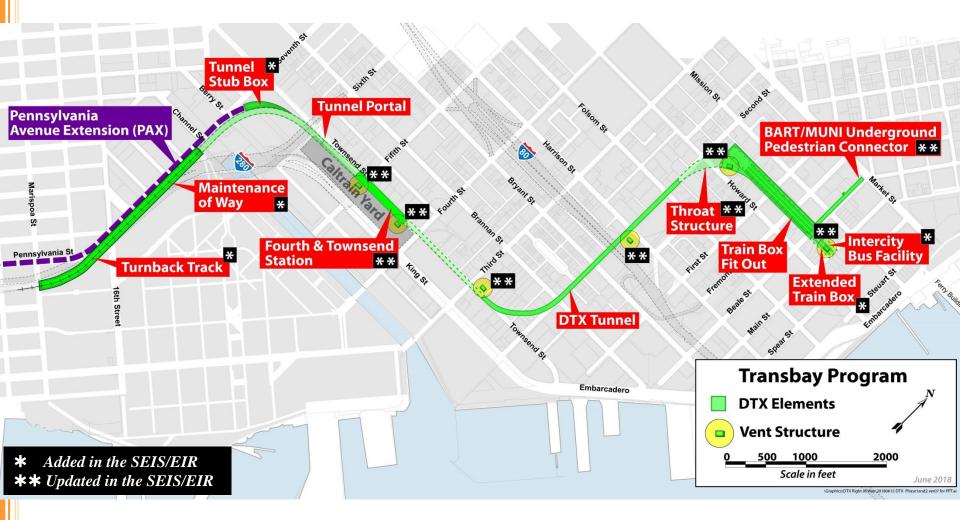
Transbay Program Phase 2 Update

July 10, 2018

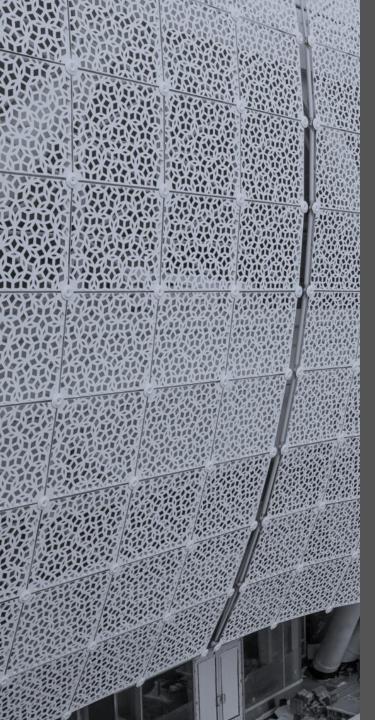




Phase 2 Overview







Phase 2 Activity Since Last Board Update

• 2016

• Cost estimate refresh

• 2017

- Tunnel Options Study
- Ridership study update
- Rail Operations Report
- Right-of-way acquisition cost estimate update

2018

- Tunnel Options Study addenda
- SFCTA rail operations peer review
- RAB coordination completed
- Partial 30% design update completed
- Applied for TIRCP funds
- Coordinated with FTA on SEIS/EIR final review

Project Milestones

1. Enter New Starts

STATE -

2. Complete 30% Design/ New Starts Documentation

3. Shovel Ready

4. Full Funding/ Project Construction

FTA New Starts Program Steps

Request entry to New Starts Capital Investment Grant (CIG) program

Project Development phase

30% non-CIG funds committed 30% Preliminary Engineering SEIS/EIR – FTA Record of Decision & Board approval

> **Engineering phase** 50% non-CIG funds committed Financial Plan for obtaining 100% non-CIG funds

> > Request Full Funding Grant Agreement (FFGA) 100% non-CIG funds committed

2 yrs nax

Receive FFGA *Approximately 18 months after request* **Request entry to FTA New Starts program**

Project Management Plan

Third-party agreements

SEIS/EIR certification

30% Preliminary Engineering design

Geotechnical baseline report

Advanced package design

Value management

Design criteria

Risk assessment

Constructability review

Program cost estimate and schedule

Secure at least 30% of non-New Starts funds

30% Design & New Starts Tasks **Right-of-way acquisition**

Advanced package construction (utility relocation)

Construction documents

FTA New Starts program documentation

Shovel Ready Tasks

Secure FTA Full Funding Grant Agreement (FFGA)

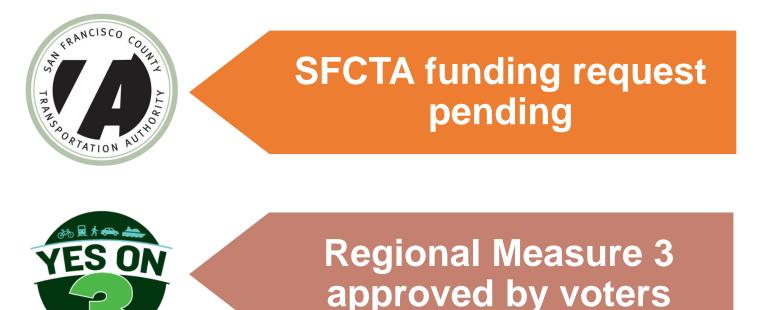
Award construction contracts



Construction

Full Funding & Construction Tasks

Phase 2 Status

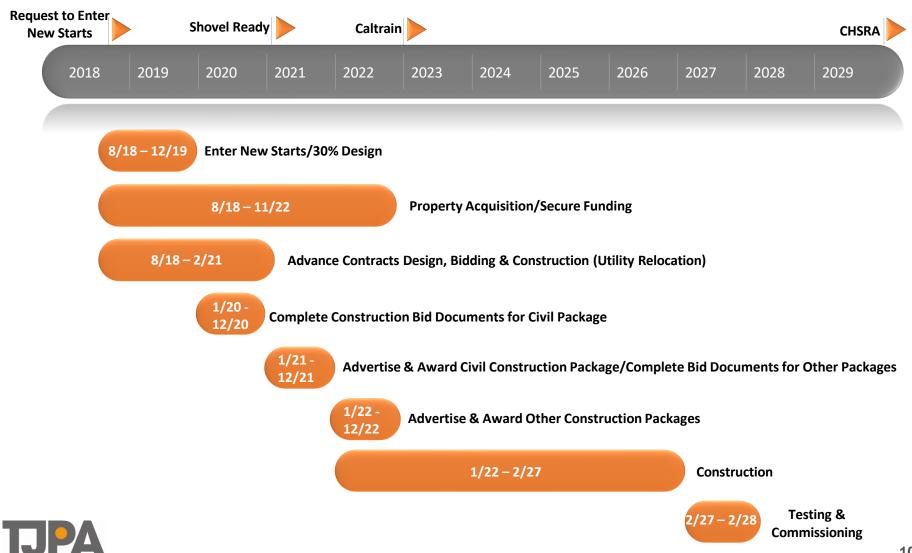




SEIS/EIR to TJPA Board in September

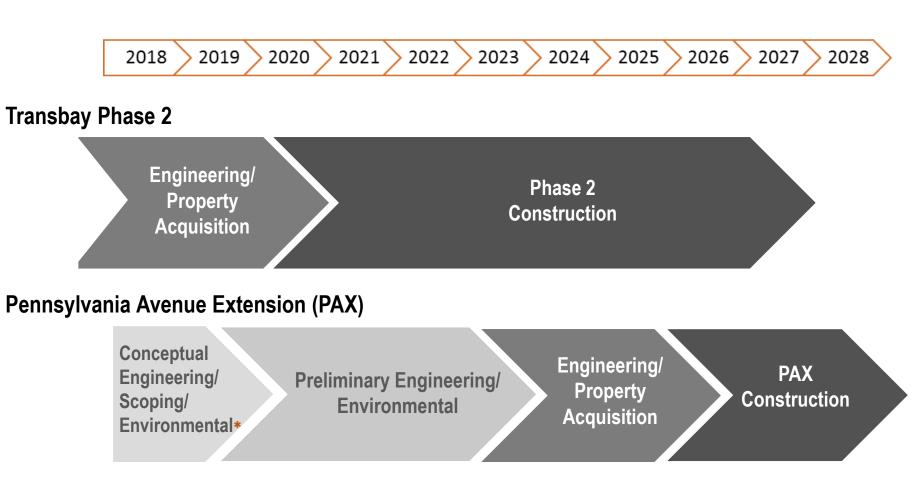


Project Schedule (unconstrained funding)



TRANSBAY IOINT POWERS AUTHORIT

Program Schedule



* The Planning Department has asked the TJPA to take over conceptual engineering, scoping and environmental work for the PAX; staff plans to present this scope to the TJPA Board for approval this fall.



2016 Phase 2 Cost Estimate

	Total Phase 2 in \$ millions
Construction	\$1,614
Design Contingency	\$211
Subtotal Construction	\$1,825
Escalation 5% to mid construction (2023)	\$620
Total Construction Cost	\$2,445
ROW	\$266
Programwide (21%)	\$517
Program Cost	\$3,228
Construction Contingency @ 10%	\$245
Program Reserve @ 15%	\$462
Subtotal Contingency and Reserve	\$707
Total Program Cost*	\$3,935



*Inclusive of recommendations from MTC's 2015 cost review Total contingency/reserve (28.4%) = \$918m

Phase 2 Shovel Ready Costs

A. Advanced Construction Package (Utilities)	\$2,312,640
B. ROW remaining acquisition	\$204,000,000
C. Support Costs (7/2018 until Tunnel Construction)	\$95,100,000
Complete Update of 30% Design Documents	
Advance packages design and design support during construction	
Design-Build documents	
Advance Packages CM	
Complete transit center (train box) design	
PMPC services thru advance packages construction	
TJPA, Other Professional Services thru advance packages construction	
City and other agencies	
D. Program Reserve (15%)	\$45,180,360

Total Shovel Ready Costs*

* Funding is available to cover the shovel ready costs.



\$346,593,000

Phase 2 Potential Funding

Sources (\$ millions)	Total Funds	Net Proceeds (from debt financing)	
Committed San Francisco County Sales Tax	\$83	\$83	
Committed San Mateo County Sales Tax	\$19	\$19	
Committed MTC/BATA Bridge Tolls	\$7	\$7	
Committed Regional Transportation Improvement Program	\$18	\$18	
Committed Federal Alternatives Analysis Grant	\$1.3	\$1.3	
Transit Center District Plan (Mello-Roos)	\$503 – \$542	\$503 – \$542	
Tax Increment Residual (after TIFIA repayment)	\$665 – \$735	\$200 – \$340	\$1,073M - \$1,252M
New MTC/BATA Bridge Tolls (RM3)	\$325	\$325	⁷ 3M 52M
Land Sales (Block 4)*	\$45	\$45	
FTA New Starts	\$1,000**	\$1,000*	
Future San Francisco County Sales Tax	\$350	\$350	\$2,:
SB1/TIRCP	\$400	\$400	\$2,300M
Future California High-Speed Rail Funds	\$550***	\$550**	
Passenger Facility Charges (PFC) or Maintenance Contribution	\$3,089 – \$7,822	\$749 – \$1,482	
Total Potential Funds	\$7,055 – \$11,897	\$4,250 – \$5,162	

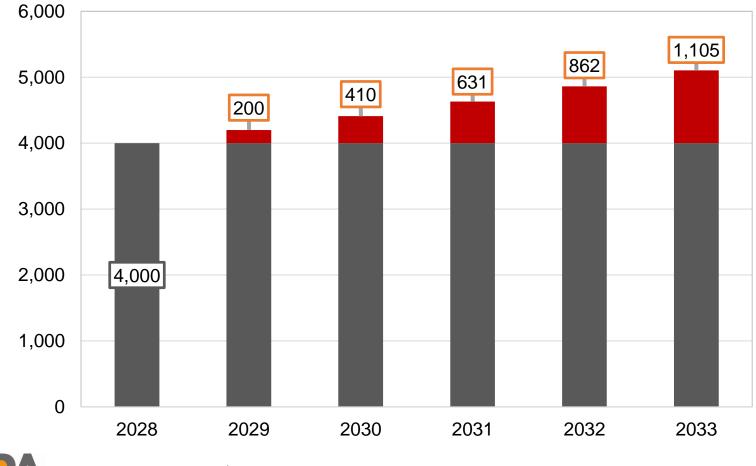
*Amount contingent upon sale.

**Amount in Plan Bay Area 2040

***Amount in California High-Speed Rail Authority's 2018 Business Plan

Cost of Delay

Phase 2 Delay Costs at 5% Escalation (\$ millions)



TJPA IRANSBAY JOINT POWERS AUTHORIT

* Assumes \$4B program costs for 2028 completion

Phase 1 Construction



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Phase 1 & 2 Job Creation

Phase 1 (through May 2018)

- \$1.34B total construction costs
- 5.3 million craft hours
- 24,050 jobs created across the United States

Phase 2

- Projected construction costs of \$2.3B
- 8.7+ million craft hours
- 41,400 anticipated jobs created across the United States





Questions?



201 Mission Street, Suite 2100 San Francisco, CA 94105 • 415.597.4620 • www.tjpa.org