

OC Streetcar Cost and Schedule Update

Status

Project progress is 62.7 percent complete. Planned OC Streetcar (Project) progress is 99.4 percent complete. (October 2021)

- \$245.32 million of \$423.44 million current forecast expended (October 2021)
- \$51.11 million of \$53.60 million in contingency expended

Construction is 58.6 percent complete. Planned percent complete is 99.7 percent. (October 2021)

- Westminster Avenue and Santa Ana River bridges substantially complete
- Track installation ongoing
- Installation of maintenance and storage facility (MSF) building floor slabs, perimeter block wall, streetcar vehicle wash
- Fairview and Raitt station platforms ongoing

Utility relocation

- Planned utility relocation is complete

Vehicles are 52.4 percent complete. Planned percent complete is 99.1 percent. (October 2021)

- Cars 1 to 7 are in final stages of equipping with installation of the last remaining vehicle components
- Car 8 is in final assembly in preparation for static and dynamic testing

Background of Project Challenges

- Unknown utility conflicts and unsuitable subgrade conditions within city streets
- Extensive amount of contaminated and hazardous soil in the Pacific Electric Right-of-Way, city streets, and at the MSF* site
- Unforeseen conditions at the MSF
- Unanticipated design revisions
- Contractor non-compliance with construction quality requirements and quality control plans
- Extensive number of change requests and requests for information and submittals

**Maintenance and storage facility*

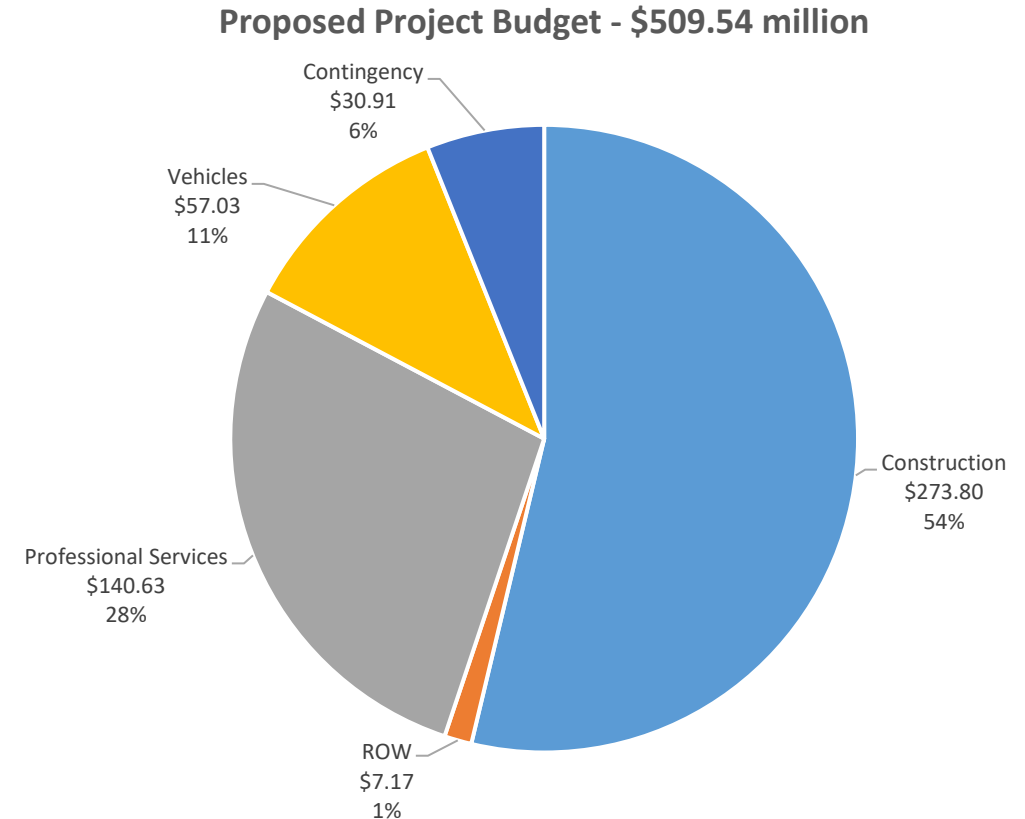
Impacts of Challenges to Cost and Schedule

- Schedule Impacts
 - Extended construction duration
- Costs of Schedule Delay
 - Storage costs for vehicles and equipment
 - Extended performance period for professional services
 - Increased costs to update equipment technology
- Additional Cost Impacts
 - Increased change orders
 - Increased level of oversight for technical and contractual reviews

Proposed Project Budget and Schedule

Based on challenges, contractor progress, and current risks assessed in coordination with the Federal Transit Administration (FTA):

- Anticipated revenue service date is March 2024
- Estimated cost to complete is \$509.54 million
 - Includes \$30.91 million in contingency. This estimate is consistent with FTA's standard percent contingency at current stage of construction.



Project Budget Comparison

Cost Categories	Current Budget March 2021	Proposed Budget December 2021	Change Between Proposed and Current Budget	% Change	Key Changes
Construction	\$234.28	\$273.80	\$39.52	16.9%	<ul style="list-style-type: none"> • Pending/executed contract change orders through October 2021 • Added/increased costs for MSF/operational equipment, ticket vending machines, spare parts
Right-of-Way	\$8.22	\$7.17	(\$1.05)	-12.8%	<ul style="list-style-type: none"> • Cost savings from SA Recycling Acquisition
Professional services	\$74.94	\$140.63	\$65.69	87.7%	<ul style="list-style-type: none"> • Increased costs for professional services including the extended performance period required with the extended revenue service date of March 2024 plus project close-out (professional services, OCTA staff)
Vehicles	\$52.35	\$57.03	\$4.68	8.9%	<ul style="list-style-type: none"> • Vehicle and spare parts/special tools storage. Addition of computer-aided dispatch/automatic vehicle locator technology
Contingency	\$53.64	\$30.91	(\$22.73)	-42.4%	<ul style="list-style-type: none"> • Current budget contingency has been distributed between all cost categories in cost to complete amount • OCTA estimate is 6.5% of base cost
Total	\$423.43	\$509.54	\$86.11	20.3%	

* All costs in millions

**Numbers may be slightly off due to rounding

Proposed Funding Sources

Funding Programs (in 1,000's)	Funding Approved March 2021	Funding Need	Recommended Funding
FTA New Starts	\$148,955		\$148,955
FTA Section 5307	\$13,599		\$13,599
Federal Congestion Mitigation and Air Quality Improvement Program (CMAQ)	\$62,412	\$45,720	\$108,132
Federal American Rescue Plan Act (ARP)*		\$9,407	\$9,407
State Transit and Intercity Rail Capital Program	\$25,586		\$25,586
Subtotal State and Federal	\$250,552	\$55,127	\$305,679
Measure M2 (M2) Project S	\$172,886	\$30,975	\$203,861
Total Funding	\$423,438	\$86,102	\$509,540

*Federal ARP funding is an offset to the M2 amount requested

Next Steps

- Work with Southern California Association of Governments to amend the Federal Transportation Improvement Program
- Work with the FTA to update and/or amend the Full Funding Grant Agreement and execute grants for CMAQ and ARP CIG funds
- Continue to track Project cost and schedule adherence and continue to report to the Board of Directors quarterly