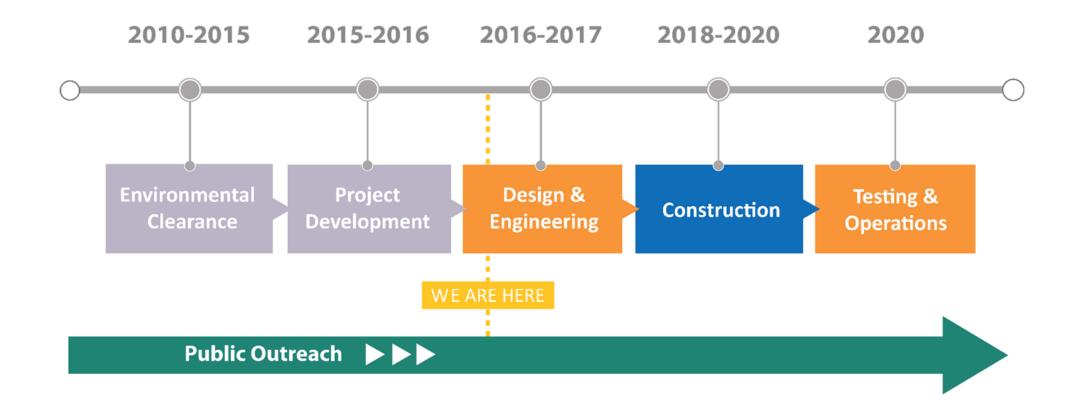
OC Streetcar Project Update and Revised Capital Funding Plan





Recent Activities

- Finalization of appraisals for property acquisition for maintenance and storage facility
- Utility conflict identification and coordination with utilities
- Initiation of effort to develop aesthetic concepts for streetcar stops
- 30 percent design submittal
- Environmental analysis to ensure no new impacts
- Updated cost estimate based on 30 percent design and risk assessment
- Initiation of fiscal year 2018 Federal Transit Administration (FTA) New Starts submittal
- Site visits to explore vehicle contract assignment opportunities

Vehicle Acquisition

- Site visits to Cincinnati and Portland to explore potential assignments on vehicle contracts
- Request for quotes to obtain pricing/schedule/contract provisions July 2016 release





Cincinnati CAF vehicle

Portland Siemens vehicle

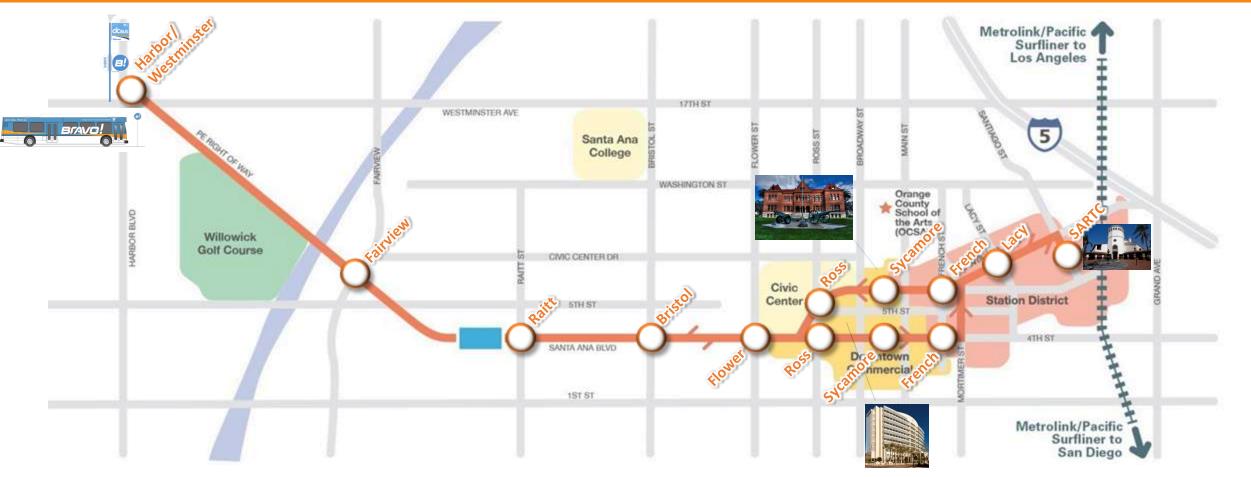
30 Percent Design Milestone

• More defined project

- Track alignment
- Street improvement plans
- Stop locations/footprint
- Traction power substation locations
- Utility conflicts
- Drainage
- o Bridge selection
- Close coordination with cities of Santa Ana and Garden Grove







*Pacific Electric (PE) Right-of-Way (ROW)

East Terminus at SARTC



Standard Stall: 8.5' x 18' PARKING SUMMARY:

71 Parking Stalls 6 Compact Stalls 2 Electric Vehicle Stalls 2 ADA Stalls 81 Total Stalls

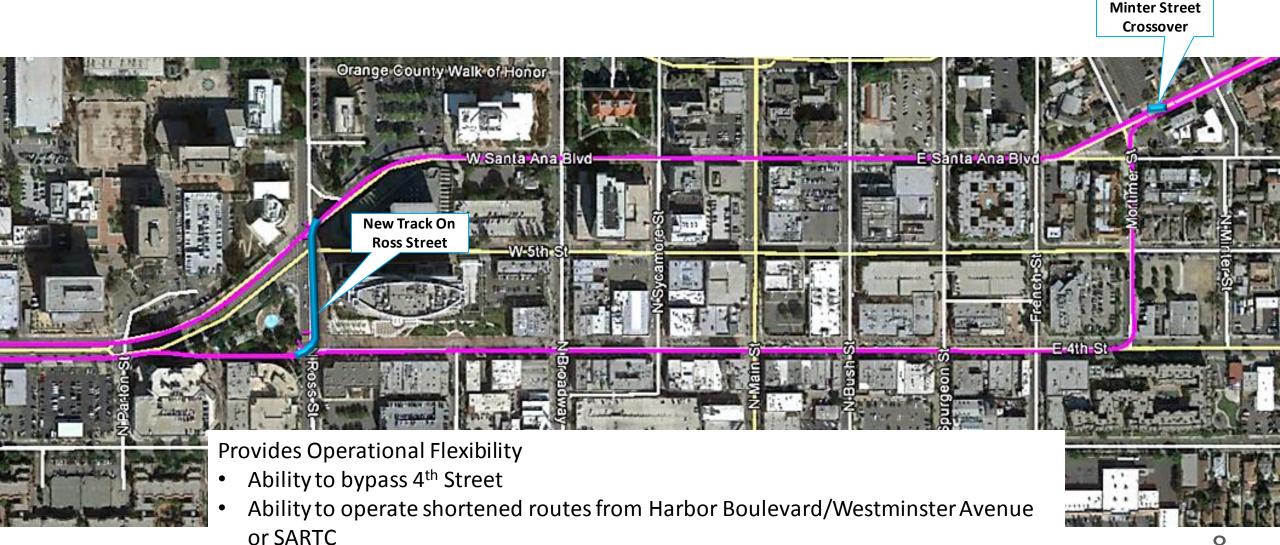
HNTB

OC STREETCAR

SARTC PARKING ALTERNATIVE 3

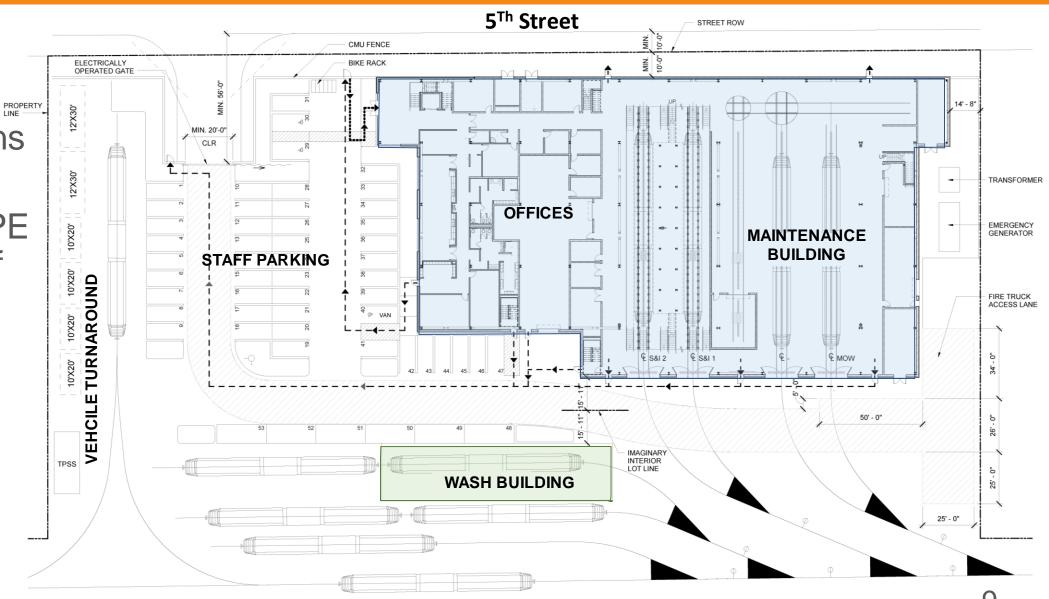
*Santa Ana Regional Transportation Center (SARTC)

Ross Street – Added Track Connection



Maintenance and Storage Facility

- Maintenance of vehicles and operations center
- Adjacent to PE ROW west of Raitt Street



New Trail Undercrossing West Side Santa Ana River



OC Streetcar -* OCFCD/Santa Ana River Maintenance and Trail Access

Proposed West Levee Undercrossing

* Orange County Flood Control District (OCFCD)

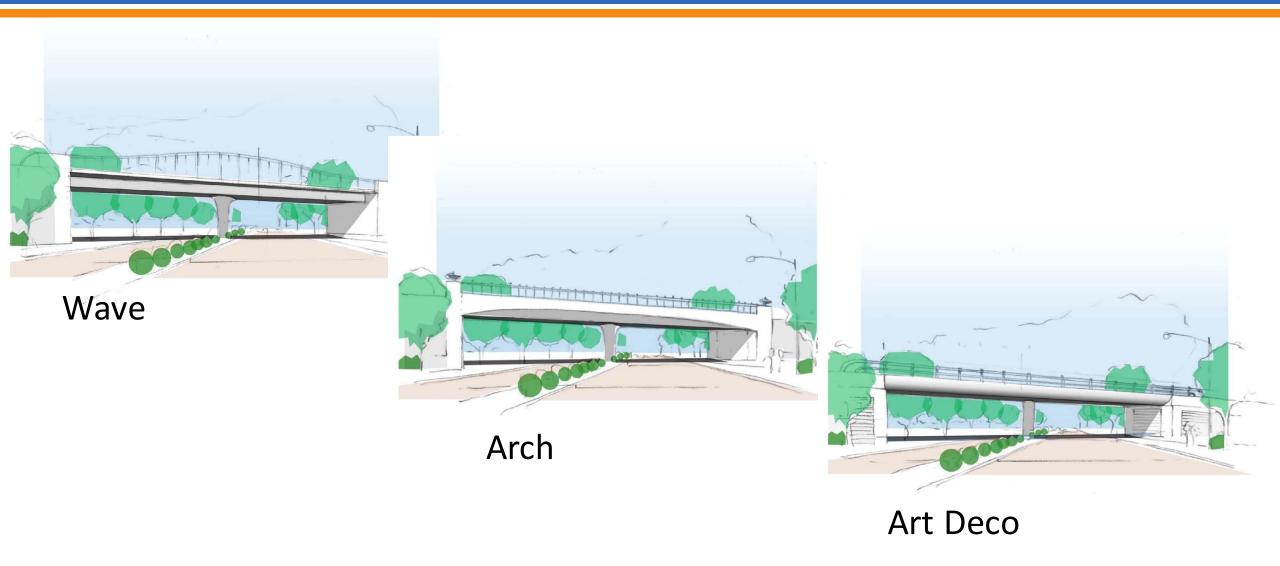
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West Terminus at Harbor Boulevard/ Westminster Avenue

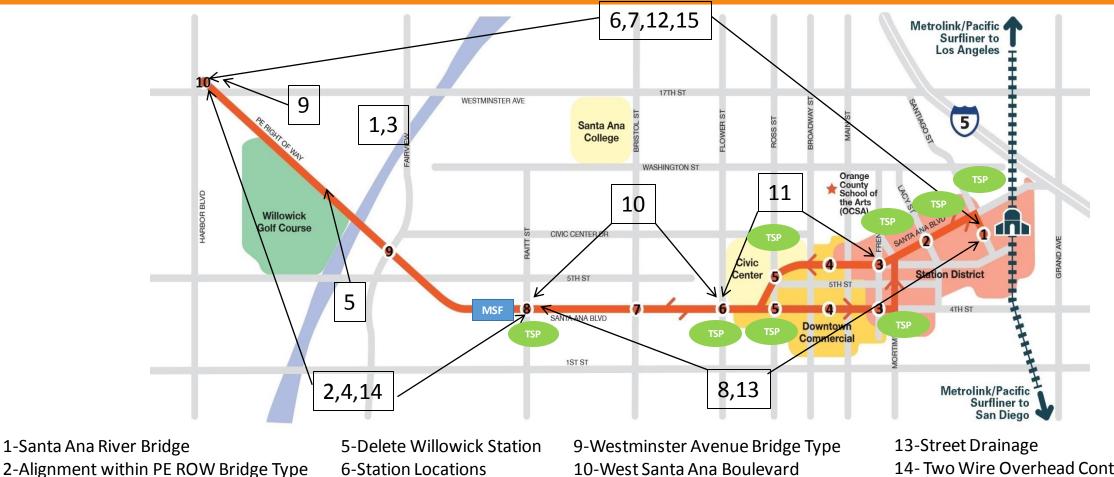




Westminster Bridge



Minor Design Modifications



3-Trail Crossing West Bank Santa Ana River 4-45 miles per hour speed in the PE ROW 5-Delete Willowick Station6-Station Locations7-Crossover Locations8-Traffic Signal Priority (TSP)

9-Westminster Avenue Bridge Type
10-West Santa Ana Boulevard
11-Santa Ana Boulevard Downtown
12-Traction Power Substation Locations

13-Street Drainage 14- Two Wire Overhead Contact System in PE ROW 15-Communications Fiber Run

Environmental Update – 30 percent Design

- Technical Analyses to address minor design modifications
 - Noise and vibration
 - Cultural and historic
 - Parks, recreation areas, wildlife refuges, and historic sites [4(f)]
 - Visual
 - Traffic
- California Environmental Quality Act Addendum
 - No increase to previously identified impacts
 - No new significant impacts

Updated Cost Estimate – 30 percent Design

Cost (millions)	August 2015	30 percent Design July 2016	Change in Cost
Construction/ROW/Utilities(1)	\$129.28	\$123.76	-\$5.52
Vehicles(1)	\$33.00	\$38.01	\$5.01
Professional Services(1)	\$48.55	\$59.86	\$11.31
Contingency(1)	\$53.07	\$54.49	\$1.42
Escalation(2)	\$24.84	\$21.79	-\$3.05
Total Cost(2)	\$288.74	\$297.91	\$9.17

(1) Base Year Cost

(2) Year of Expenditure Cost

-All numbers have been rounded

Updated Cost Estimate – 30 percent Design

- Decreases from August 2015 estimate
 - More traditional bridge design at Westminster Avenue
 - Cost of materials based on "bottoms up" estimate
 - Escalation
- Increases from August 2015 estimate
 - Professional services
 - Vehicle costs (sales tax and non-revenue vehicles)
 - Maintenance facility construction/equipment
 - Additional traffic signal replacements
 - Wheel truing machine for long-term maintenance cost savings
 - New track on Ross Street for operational flexibility

Recommended Capital Funding Plan

Funding Source (millions)	August 2015 Funding Plan	July 2016 Funding Plan	Change in Funding	Status of Funding Source
Federal New Starts*	\$144.37	\$148.96	\$4.59	Pending award by FTA
Federal Congestion Mitigation and Air Quality Improvement	\$48.45	\$53.03	\$4.58	Committed, with the additional \$4.58 million pending Board of Directors' (Board) approval
Federal FTA 5307		\$4.09	\$4.09	Pending Board approval
State Cap-and-Trade*	\$40.00	\$40.00	\$0	Pending award by the California State Transportation Agency
Measure M2 – Project S	\$55.92	\$51.83	-\$4.09	Committed
TOTAL	\$288.74	\$297.91	\$9.17	

* Contingent on state and federal approvals.

-All numbers have been rounded

Next Steps

- Provide Board design criteria for station stops August 2016
- Submittal of annual New Starts Update September 2016
- FTA Administrative Action on National Environmental Policy Act documentation (target) September 2016
- Initiate evaluation of operations and maintenance options October 2016
- FTA Approval of entry into Engineering (target) November 2016
- Board consideration of vehicle contract award (piggyback option) or approval of vehicle manufacturing/delivery request for proposals – December 2016
- 60 percent design completion December 2016

Questions?

