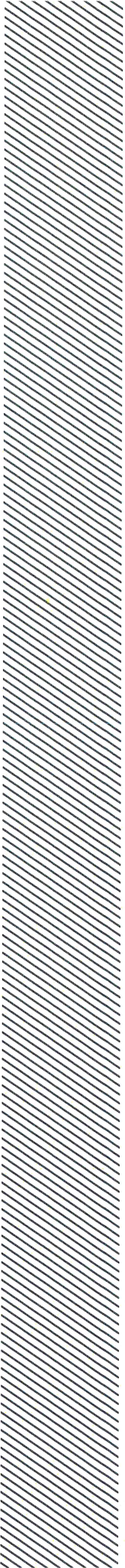


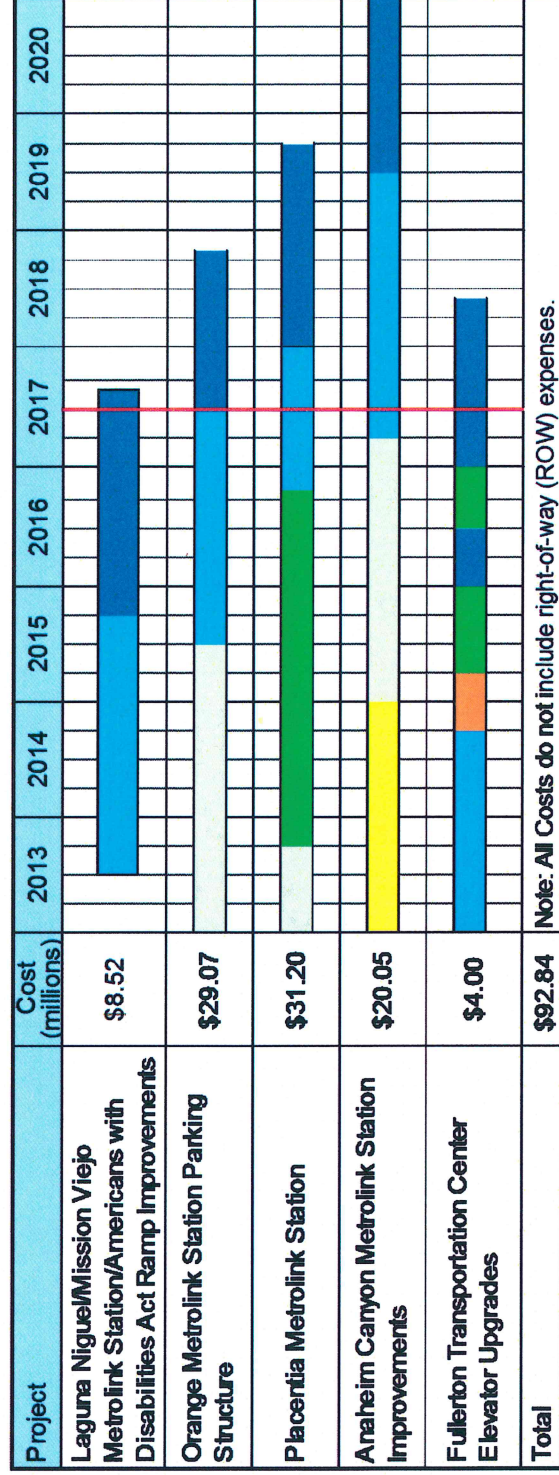
SUPPLEMENTAL

INFORMATION



Regional Rail and Facilities Engineering Quarterly Report

Station Improvements



Rail Corridor Improvements



Schedule / Cost

Project	Cost (millions)	2013	2014	2015	2016	2017	2018	2019
17th Street Grade Separation	\$ 158.32							
Laguna Niguel-San Juan Capistrano Passing Siding	\$ 30.83							
San Juan Creek Bridge Replacement	\$ 38.33							
Control Point Fourth	\$ 8.51							
Positive Train Control Program (Orange County Transportation Authority (OCTA) Share)	\$ 39.92							
Rail ROW Slope Stabilization	\$ 2.00							
Total	\$ 277.91							

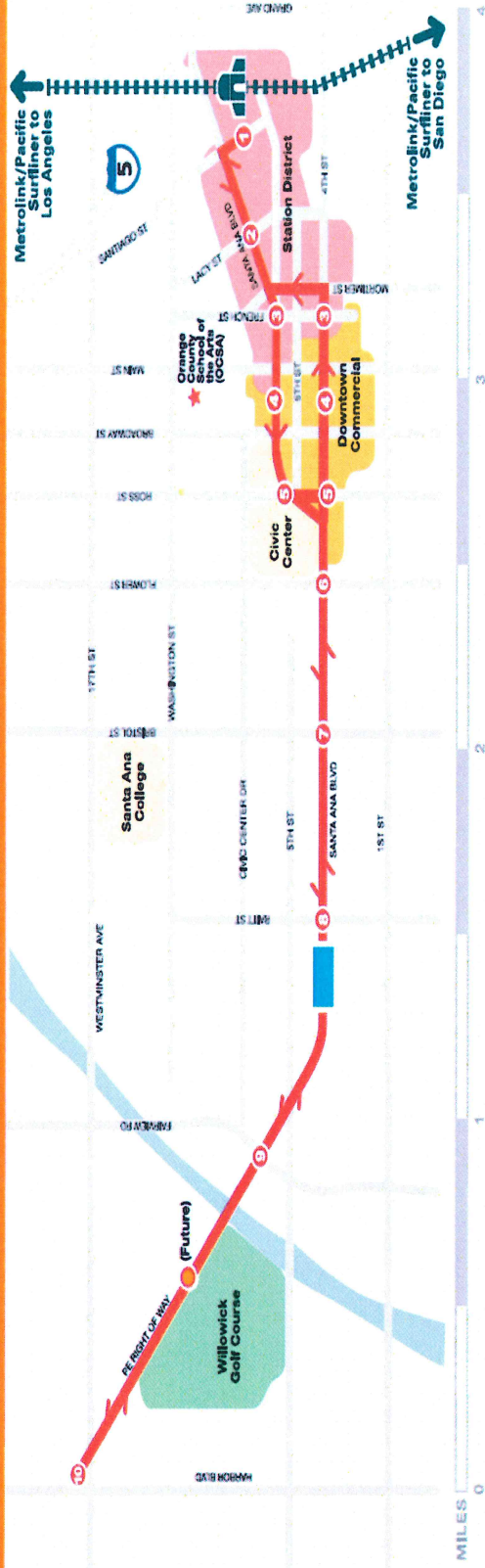
PA/ED

Final Design

Construction

Planning

Transit Extensions to Metrolink: Santa Ana/Garden Grove Fixed-Guideway



LEGEND

- Streetcar Route
- Stop
- Willowick: Potential Future Stop
- Santa Ana Regional Transportation Center Operations and Maintenance Facility
- LOSSAN Rail Corridor

STOPS

- 1 Santa Ana Regional Transportation Center
- 2 Lacy Street
- 3 French Street
- 4 Sycamore Street
- 5 Ross Street
- 6 Flower Street
- 7 Bristol Street
- 8 Rialt Street
- 9 Fairview Street
- 10 Harbor Boulevard

Schedule	2013	2014	2015	2016	2017	2018	2019	2020
Alternatives Analysis, state/federal environmental clearance, and conceptual engineering								
Project Development/Preliminary Engineering/Engineering*								
Construction**								

* Phases partially funded (Future programming and budget action subject to Board of Directors' approval)
 ** Pursuing federal New Starts

Rail Operations

Angels Express

- Special Metrolink service to 54 home games from March 30 to September 29, 2017.
- OCTA received a Mobile Source Air Pollution Reduction Review Committee (MSRC) grant for operation of Metrolink trains with Tier 2 clean emissions locomotives.
- Kids 18 and under ride free in July and August 2017; adult tickets are \$7 round trip.

Rail Series

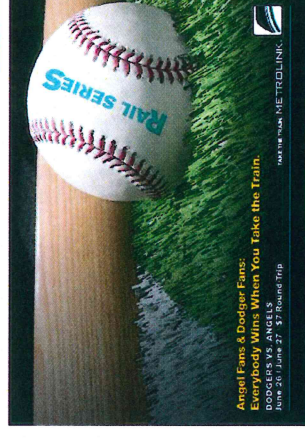
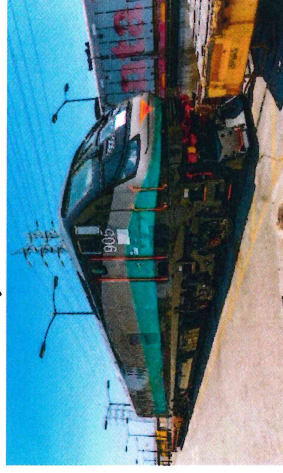
- A combination of regular and special Metrolink service on the Orange County Line for two Dodgers vs. Angels games at Dodger Stadium June 26 - 27, 2017.
- Passengers took regular service to L.A. Union Station, and transferred to the free Dodgers Express bus, and returned to Orange County on the special Metrolink train following the game.
- Ridership neared 150 each night on the return trip to Orange County.
- Special train and bus shuttle was funded by Los Angeles County Metropolitan Transportation Authority's MSRC grant.

New Sunday Service on Holidays

- Metrolink now offers a Sunday train schedule on holidays, on all lines with weekend service.
- The three lines serving Orange County operated a Sunday schedule on May 29 and July 4, 2017.

Tier 4 Locomotives

- Metrolink ordered 40 Tier 4 clean emissions locomotives and delivery has begun.
- With 11 Tier 4 units on site, testing of the new locomotives started on June 1, 2017 and will last up to three months.
- Metrolink expects to operate Tier 4 locomotives in revenue service as early as October 2017.



Facilities Engineering

Project	Cost (millions)	2016	2017	2018
Ana, GG Bases - LNG Underground Storage Tanks Removal	\$ 1.50			
Ana Base - Fence Repair and Bus Parking Stall Wheel Stops	\$ 0.07			
LBTC - Bridge Assessment and Repair	\$ 0.20			
FPNR - Bus Dock Platform Minor Rehabilitation	\$ 0.25			
GG Base - Maintenance Building HV Unit Replacement	\$ 0.29			
GG Base - Vehicle Inspection Station Equipment Canopy	\$ 0.26			
All Bases - Bus Wash Run-Off Mitigation	\$ 0.65			
SA Base - Liquid Hydrogen Fueling Station	\$ 4.77			
SA Base - Facility Modifications for Hydrogen Buses	\$ 1.13			
GG Base - Bus Yard Pavement Striping	\$ 0.07			
SA, GG Bases - Video Surveillance System	\$ 1.20			
TSOC - Preliminary Engineering and Environmental Clearance	\$ 0.92			
TOTAL	\$ 11.31			

Final Design Bid Construction

OCTA Facility Legend:

Ana	Anaheim Bus Base
FPNR	Fullerton Park-and-Ride
GG	Garden Grove Bus Base
IvCC	Irvine Construction Circle Bus Base
IvSC	Irvine Sand Canyon Bus Base
BPNR	Brea Park-and-Ride
GWTC	Golden West Transportation Center
NPTC	Newport Transportation Center
LBTC	Laguna Beach Transportation Center
SA	Santa Ana Bus Base
TSOC	Transit Security Operations Center



GG Maintenance Building
HV Unit Replacement



GG Bus Wash Water
Run-Off Mitigation