



# OCGO

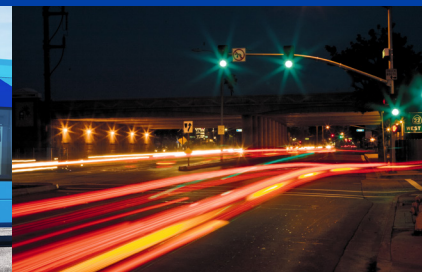
*Local Tax Dollars at Work*

## MEASURE M2 PROGRESS REPORT

Second Quarter of Fiscal Year 2019 – 20  
October 1, 2019 through December 31, 2019

### Second Quarter Highlights:

- Freeway Projects
- Streets and Roads
- Environmental Cleanup & Water Quality
- Freeway Mitigation Program
- Finance Matters
- Program Management Office
- Summary





## MEASURE M2 PROGRESS REPORT

### SUMMARY

On November 7, 2006, Orange County voters, by a margin of 69.7 percent, approved the renewal of the Measure M one-half cent sales tax for transportation improvements. Voters originally endorsed Measure M in 1990 with a sunset in 2011. The renewal of Measure M continues the investment of local tax dollars in Orange County's transportation infrastructure for another 30 years to 2041.

As required by the Measure M2 (M2) Ordinance No. 3, a quarterly report covering activities from October 1, 2019, through December 31, 2019, is provided to update progress in implementing the Measure M2 Transportation Investment Plan. On September 25, 2017, the Board of Directors (Board) approved externally rebranding M2 to OC Go to promote OCTA's Measure M awareness and public perception and to avoid confusion with Measure M in Los Angeles County.

To be cost effective and to facilitate accessibility and transparency of information available to stakeholders and the public, Measure M2 progress reports are presented on the Orange County Transportation Authority (OCTA) website. Hard copies are mailed upon request.



The cover photo shows passengers boarding a Metrolink train at Buena Park Station. On October 14, 2019, three weekday intracounty round trips operating between Laguna Niguel/Mission Viejo and Fullerton were replaced with two weekday roundtrips from Laguna Niguel/Mission Viejo to Los Angeles. This service extension provides additional mobility choices for Orange County riders.



**MEASURE M2 PROGRESS REPORT**

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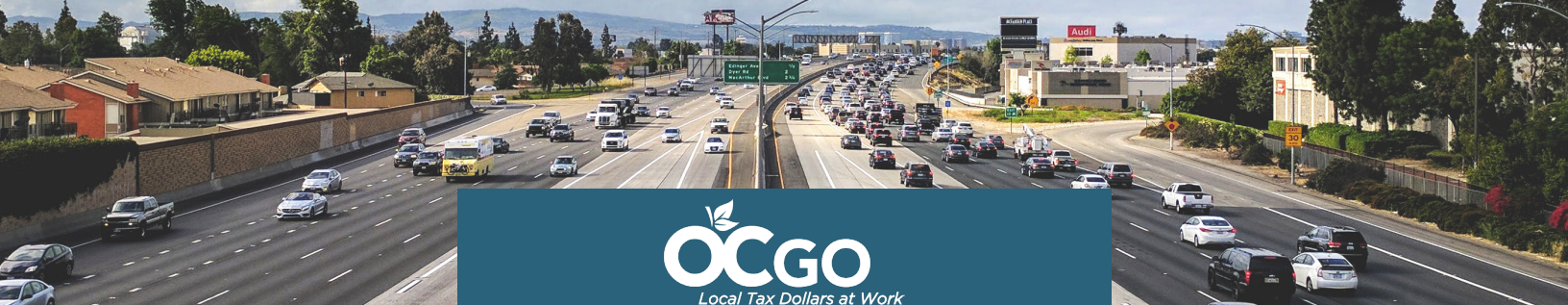
## COMMON ABBREVIATIONS

Americans with Disabilities Act	ADA
Annual Eligibility Review	AER
Board of Directors	Board
Burlington Northern Santa Fe	BNSF
California Department of Fish and Wildlife	CDFW
California Department of Tax and Fee Administration	CDTFA
California Department of Transportation	Caltrans
California Transportation Commission	CTC
Capital Action Plan	CAP
Capital Investment Grant	CIG
Chief Executive Officer	CEO
Cost Estimate Review	CER
Congestion Mitigation and Air Quality	CMAQ
Draft Environmental Document	DED
Draft Project Report	DPR
Environmental Cleanup Allocation Committee	ECAC
Environmental Cleanup Program	ECP
Environmental Document	ED
Environmental Impact Report	EIR
Environmental Impact Statement	EIS
Environmental Mitigation Program	EMP
Environmental Oversight Committee	EOC
Federal Highway Administration	FHWA
Federal Transit Administration	FTA
Federal Transportation Improvement Program	FTIP
Freeway Service Patrol	FSP
Full Funding Grant Agreement	FFGA
High Occupancy Vehicle	HOV
Interstate 15	I-15
Interstate 405	I-405
Interstate 5	I-5
Interstate 605	I-605
Invitation for Bids	IFB
Local Faire Share Program	LFSP
Los Angeles – San Diego – San Luis Obispo	LOSSAN
Los Angeles County Metropolitan Transportation Authority	LA Metro
Measure M2 or Renewed Measure M	M2
Memorandum of Understanding	MOU
Metrolink Service Expansion Program	MSEP



  
**COMMON ABBREVIATIONS**

Next 10 Delivery Plan	Next 10
Natural Community Conservation Plan/Habitat Conservation Plan	Conservation Plan
Orange County Transportation Authority	OCTA
Orange County Unified Transportation Trust	OCUTT
Pacific Coast Highway	PCH
Plans, Specifications and Estimates	PS&E
Program Management Office	PMO
Project Development Team	PDT
Project Study Report	PSR
Ready to List	RTL
Request for Proposals	RFP
Resource Management Plan	RMP
Right-of-Way	ROW
Riverside County Transportation Commission	RCTC
Santa Ana Regional Transportation Center	SARTC
Senate Bill 1	SB 1
Senior Mobility Program	SMP
Senior Non-Emergency Medical Transportation	SNEMT
Southern California Association of Governments	SCAG
State Route 133	SR-133
State Route 22	SR-22
State Route 241	SR-241
State Route 55	SR-55
State Route 57	SR-57
State Route 71	SR-71
State Route 74	SR-74
State Route 91	SR-91
State Transportation Improvement Program	STIP
State Water Resources Control Board	SWRCB
Southern California Regional Rail Authority	SCRRA
Taxpayer Oversight Committee	TOC
To Be Determined	TBD
Trade Corridors Improvement Funds	TCIF
Transportation Infrastructure Finance and Innovation Act	TIFIA
United States Army Corps of Engineers	ACOE
United States Fish and Wildlife Service	USFWS
United States Department of Transportation	USDOT



## MEASURE M2 PROJECT SCHEDULES



Conceptual



Environmental



Design, Advertise, & Award



Design-Build



Construction

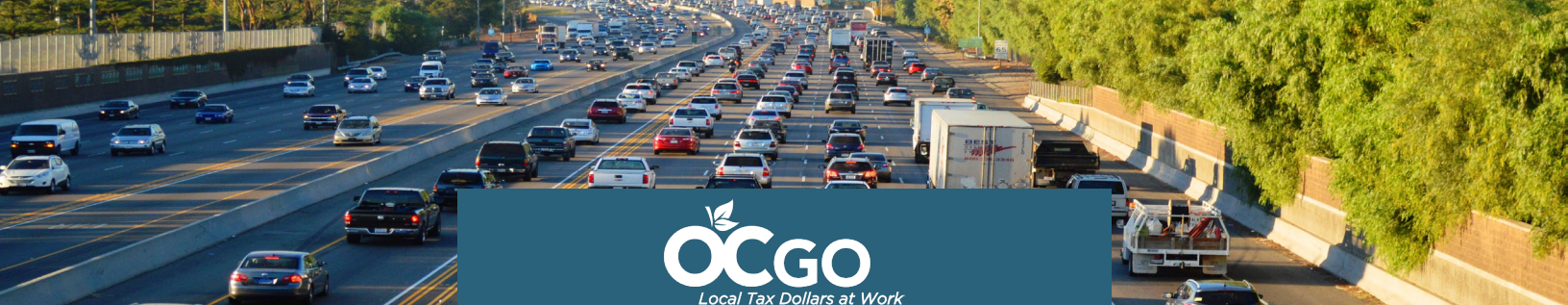


Complete

		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
<b>A</b>	I-5, SR-55 to SR-57															
<b>B</b>	I-5, I-405 to Yale Avenue															
<b>B</b>	I-5, Yale Avenue to SR-55															
<b>C,D</b>	I-5, Avenida Pico to Avenida Vista Hermosa/Avenida Pico Interchange															
<b>C</b>	I-5, Avenida Vista Hermosa to Pacific Coast Highway															
<b>C</b>	I-5, Pacific Coast Highway to San Juan Creek Road															
<b>C,D</b>	I-5, SR-73 to Oso Parkway/Avery Parkway Interchange															
<b>C,D</b>	I-5, Oso Parkway to Alicia Parkway/La Paz Road Interchange															
<b>C</b>	I-5, Alicia Parkway to El Toro Road															
<b>D</b>	I-5, El Toro Interchange (Further Schedule TBD)															
<b>D</b>	I-5, Ortega Interchange															
<b>E</b>	SR-22, Access Improvements	<i>Completed in 2008</i>														
<b>F</b>	SR-55, I-405 to I-5															
<b>F</b>	SR-55, I-5 to SR-91 (Further Schedule TBD)															
<b>G</b>	SR-57 NB, Katella Avenue to Lincoln Avenue															
<b>G</b>	SR-57 NB, Orangethorpe Avenue to Yorba Linda Boulevard															
<b>G</b>	SR-57 NB, Yorba Linda Boulevard to Lambert Road															
<b>G</b>	SR-57 NB, Lambert Road to Tonner Canyon Road (TBD)															
<b>G</b>	SR-57, Oranewood Avenue to Katella Avenue (Further Schedule TBD)															
<b>H</b>	SR-91 WB, I-5 to SR-57															
<b>I</b>	SR-91 WB, SR-55 to Tustin Avenue Interchange															
<b>I</b>	SR-91, SR-55 to Lakeview Avenue															
<b>I</b>	SR-91, La Palma to SR-55															
<b>I</b>	SR-91, Acacia Street to La Palma															

Project schedules are based on phase start dates. Shown schedules are subject to change.

<sup>1</sup> Projects managed by local agencies



## MEASURE M2 PROJECT SCHEDULES

		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
J	SR-91, SR-55 to SR-241	■														
J	SR-91, SR-241 to SR-71	<i>Completed in 2011</i>														
J	SR-91, SR-241 to I-15 (TBD)															
K	I-405, SR-55 to I-605	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
L	I-405, I-5 to SR-55 (Further Schedule TBD)			■	■	■	■	■								
M	I-605, Katella Avenue Interchange (Further Schedule TBD)					■	■	■								
O	Kraemer Boulevard Grade Separation (Placentia)	■	■													
O	Lakeview Avenue Grade Separation (Anaheim/Placentia)	■	■	■	■	■	■									
O	Orangethorpe Avenue Grade Separation (Anaheim/Placentia)	■	■	■	■	■										
O	Placentia Avenue Grade Separation (Placentia)	■	■													
O	Raymond Avenue Grade Separation (Fullerton) <sup>1</sup>	■	■	■	■	■	■	■								
O	State College Blvd Grade Separation (Fullerton) <sup>1</sup>	■	■	■	■	■	■	■								
O	Tustin Ave/Rose Drive Grade Separation (Anaheim/Placentia)	■	■	■	■	■										
R	Sand Canyon Grade Separation (Irvine)	■	■	■	■											
R	Rail-Highway Grade Crossing Safety Enhancement	<i>Completed in 2011</i>														
R	San Clemente Beach Trail Safety Enhancements	■	■													
R	Anaheim Canyon Metrolink Station Improvements				■	■	■	■	■	■	■					
R	Fullerton Transportation Center Improvements	■	■	■	■	■	■	■								
R	Laguna Niguel/Mission Viejo Metrolink Station Americans with Disabilities Act (ADA) Ramps	■	■	■	■	■	■									
R	Orange Transportation Center Metrolink Parking Structure	■	■	■	■	■	■	■								
R	Placentia Metrolink Station Improvements and Parking Structure	■	■	■	■	■	■			■	■	■				
R	San Clemente Pier Station Lighting				■	■	■									
R	Laguna Niguel to San Juan Capistrano Metrolink Station Passing Siding Project	■	■		■	■	■	■	■	■	■					
R	Tustin Metrolink Station Parking Structure	<i>Completed in 2011</i>														
R,T	Anaheim Regional Transportation Intermodal Center (ARTIC) <sup>1</sup>	■	■													
S	OC Streetcar	■	■	■	■	■	■	■	■	■	■	■	■	■	■	

Project schedules are based on phase start dates. Shown schedules are subject to change.

<sup>1</sup> Projects managed by local agencies



## MEASURE M2 PROGRESS REPORT

### M2 DELIVERY RISK UPDATE ▼

This section discusses the risks and challenges related to Measure M2 and the 2018 update of the Next 10 Delivery Plan (Next 10) that the Measure M2 Program Management Office (PMO) is monitoring – complete with associated explanations and proposed actions.

Delivery Risk	Explanation	Proposed Action
<b>Financial</b>		
1	The 2018 M2 revenue forecast estimate is \$13.1 billion, which represents a 46 percent decrease in forecasted revenue since M2 adoption.	Sales tax revenue has been impacted by the recession and changes in consumer spending habits.
		The 2019 forecast that is planned to go to the Board on October 28, 2019 will reflect an updated review forecast of \$13.4 billion. The 2019 higher forecast provides a positive change which gives relief to the reliance on external funding to deliver the Freeway Program. OCTA will continue to actively pursue available state and federal revenue, and work with Caltrans to identify cost effective freeway alternatives.
2	Inability to scale the Freeway Program to available revenue and still deliver the promise.	The M2 Freeway Program includes set project scopes leaving very little flexibility in what is delivered.
		OCTA will work closely with Caltrans to apply value engineering strategies on projects to manage costs.
3	Schedule and scope changes on critical capital projects impacting delivery and project costs.	Changes as a result of updated highway standards or issues identified in the field regularly impact scope and schedule and ultimately costs.
		Continue tight rein on project delivery. Work closely with Caltrans and project contractors to keep changes in scope and schedule to a minimum.
4	Sustain Metrolink train service as an attractive alternative to driving in Orange County with the limits of available revenue.	Operational cost of Metrolink service continues to grow as the system ages, track-sharing arrangements with BNSF are revised, and new air quality requirements are implemented.
		Staff will continue to work closely with Metrolink and our partners to ensure cost increases are minimized, while seeking external revenue.





## MEASURE M2 PROGRESS REPORT

Delivery Risk	Explanation	Proposed Action
<p>5 The Next 10 Market Conditions Forecast and Risk Analysis identified strong potential for an increasing-cost environment during the Next 10 delivery years.</p>	<p>OCTA continues to monitor and track key early warning indicators. A construction cost pressure model was created providing insight on forecasting capital cost risks.</p>	<p>Continue with early delivery of projects providing opportunity for cost savings (reduces outyear escalation). The cash flow includes built in economic uncertainty funding and extremely conservative bonding assumptions which can be increased if needed. While bid items have increased, changes to overall project costs remain manageable.</p>
<b>Resource</b>		
<p>6 Extremely low unemployment and substantial work underway in the region, has resulted in significant demand for professional and skilled labor which can impact delivery given the scope of the M2 capital program.</p>	<p>External demand for key talent creates shortages which drive up project delivery costs. Timely capital project completion is key to reduce project delivery risk.</p>	<p>Expert and timely coordination between OCTA and Caltrans are imperative to manage this risk. Staff is currently working with Caltrans to ensure resource needs are met. Internally OCTA's Human Resources Division continues to implement programs to retain and attract talent.</p>
<p>7 New operational responsibilities with the OC Streetcar.</p>	<p>With the implementation of the OC Streetcar service, OCTA will be increasing its overall role in operations. OCTA holds a strong track record in operating various transportation systems including both a fixed and demand-based bus network.</p>	<p>To ensure success of the OC Streetcar, OCTA hired a streetcar operations manager with proven start-up experience to oversee startup and daily operations.</p>
<b>Regulatory</b>		
<p>8 New federal and statewide directives create additional limitations for use of transportation dollars which could affect freeway projects.</p>	<p>New directives with greenhouse gas reductions, managed lane corridors focus, as well as an emphasis on transit provides new hurdles that eliminate some sources of funding for OC Go freeway improvements.</p>	<p>OCTA will monitor new directives and work closely with our partners including Caltrans to ensure that M2 projects stay true to the voter commitment and compete for funding as appropriate.</p>



## MEASURE M2 PROGRESS REPORT

### Next 10 Delivery Plan ▼

**Contact:** Tami Warren, PMO Manager • (714) 560-5590

On November 14, 2016, the Board approved the Next 10 Delivery Plan (Next 10), providing guidance to staff on delivery of M2 projects and programs between 2017 and 2026. On November 11, 2019, the Next 10 was updated to incorporate the 2019 sales tax revenue forecast of \$13.4 billion. The 2019 updated Next 10 includes updated project costs and schedules, bonding assumptions, and adjustments ensuring continued delivery of the complete M2 Program by 2041 as promised.

### Next 10 Plan Deliverables

The Next 10 Plan is based on ten deliverables intended to provide guidance on program and project delivery during the ten-year period. With three years of the ten-year plan complete, progress on the ten deliverables and accomplishments to date is provided. Significant progress has been made, with projects completing construction, projects in and advancing towards construction, as well as regular funding allocations to local jurisdictions through local programs.

#### **1. Deliver \$3.5 billion of freeway improvements approved through construction (Projects A-M).**

The M2 freeway program is currently made up of 30 projects or project segments (projects). While the total number of projects increased from 27 to 30, the project delivery commitment remains the same. At the point of Next 10 adoption, nine of the 30 total projects were completed for a total cost of \$463 million. Deliverable 1, includes 12 of the 30 projects to be delivered (or underway) within the Next 10 timeframe including SR-91 between SR-57 to SR-55 (Project I) funded with 91 Express Lanes excess revenue. Together, the projects designated for completion or near completion) by 2026 currently make up a \$3.1 billion delivery promise. The \$3.5 billion deliverable commitment includes prior completed projects. To date, three projects on Interstate 5 (I-5) between Avenida Pico and San Juan Creek Road, opened to traffic, adding six miles of carpool lanes. The remaining nine segments are in design or construction. For more details, see [pages iii-iv](#) (Project Schedules) and the project updates contained in the following pages.

#### **2. Invest approximately \$715 million more in revenues, bringing the completed Freeway Program improvements to \$4.3 billion (Projects A-M).**

The final nine remaining project segments (of the 30 total) are environmentally cleared or on track to be environmentally cleared by 2026, making them shelf-ready for further advancement. Using Board adopted guiding principles, the 2019 updated Next 10 identified five projects to be advanced through construction: I-605/ Katella Interchange (Project M), SR-57 Northbound from Orangewood Avenue to Katella Avenue (Project G), I-5 between I-405 and Yale Avenue (Project B), I-5 between Yale Avenue and SR-55 (Project B) and SR-55 between I-5 and SR-91 (Project F). The remaining four projects have specific reasons related to the application of the guiding principles that require additional time prior to being advanced. In all, during the Next 10 time-period, approximately \$4.3 billion in freeway improvements promised to the voters in M2 will be completed or underway by 2026. For more details, see [pages iii-iv](#) (Project Schedules) and the project updates contained in the following pages.



## MEASURE M2 PROGRESS REPORT

### **3. Allocate \$1 billion, with \$400 million in competitive funding to local jurisdictions to expand roadway capacity and synchronize signals (Project O and P) and \$600 million in flexible funding to local jurisdictions to help maintain aging streets or for use on other transportation needs, as appropriate (Project Q).**

Since the adoption of the Next 10 Plan in November 2016, OCTA has awarded approximately \$91 million in competitive funding through the Regional Capacity Program (Project O) and Regional Traffic Signal Synchronization Program (Project P). Additionally, \$180 million<sup>1</sup> in Local Fair Share (Project Q) funds have been distributed to local agencies. This brings the total allocation to date to \$271 million.

On August 12, 2019, the Board approved the release of the 2019 Call for Projects with a target of approximately \$32 million for Project O and \$8 million for Project P funding. Final programming recommendations will be presented to the Board by June 2020. Additionally, all seven bridges included in the OC Bridges program are complete. For more details, see the project updates on [page 18](#).

<sup>1</sup>Only includes disbursed funds. On May 13, 2019, the Board determined that the City of Santa Ana and the City of Stanton ineligible to receive M2 revenues. Disbursement of M2 funds have been suspended until the cities achieve compliance and the Board reconsiders the matter by May 2020.

### **4. Extend Metrolink service from Orange County into Los Angeles County, contingent upon cooperation and funding participation from route partners; complete six rail station improvements (Project R).**

In October 2019, three weekday intracounty round trips operating between Laguna Niguel/Mission Viejo and Fullerton were replaced with two roundtrips between Laguna Niguel/Mission Viejo (extended from Fullerton) into Los Angeles. Schedules for the extended service were developed consistent with existing schedules. Additional service changes are scheduled to be implemented in April 2020, providing one new evening round trip between Oceanside and Los Angeles and one weekday round trip between Los Angeles and Perris via Fullerton.

Within this program, funding is provided for rail corridor and station improvements to accommodate increased passenger train service - including station upgrades, parking expansions, and safety enhancements. The Next 10 Plan identifies six projects to be completed by 2026: 1) Laguna Niguel/Mission Viejo Metrolink Station ADA ramps (completed September 2017), 2) Orange Metrolink Station Parking Structure (completed February 2019), 3) Placentia Metrolink Station (is ready to begin construction, however, it is contingent on a BNSF Construction and Maintenance Agreement being in place), 4) Anaheim Canyon Metrolink Station Improvement Project (construction to begin summer 2020), 5) Fullerton Transportation Center elevators (completed May 2019), and 6) San Clemente Pier Metrolink/Amtrak Station Lighting Project (completed March 2017). For more details, see the project updates on [page 23](#).



## MEASURE M2 PROGRESS REPORT

### **5. Complete design and construction, secure vehicles, and begin operating the OC Streetcar (Project S) and work with local agencies to consider recommendations from planning studies to guide development of future transit connections (Project S).**

#### OC Streetcar

Activities continue to move forward, including coordination with third parties on utility relocation, finalizing the scope of services for the operations and maintenance request for proposals released on November 12, 2018, and continued coordination with the Federal Transit Administration (FTA). The streetcar vehicle manufacturing contract has been executed and the notice to proceed has been issued. The streetcar construction contract has been executed and Notice to Proceed was issued on March 4, 2019, and construction activities are underway. With strong FTA support for the project, a FFGA was executed in November 2018. Construction is anticipated to be complete in early 2022. See [page 27](#) for more information.

#### Bristol Street Transit Corridor Study

The study is focused on Bristol Street between West 17th Street and Sunflower Avenue (South Coast Metro); and will also evaluate connections to the John Wayne Airport and the Santa Ana Regional Transportation Center. The study will analyze and develop up to six conceptual transit alternatives for the Bristol Street Corridor. During the quarter, six draft conceptual alternatives were presented to the OCTA Transit Committee on October 10, 2019. After a long discussion the committee made a motion to move the study forward without the two streetcar alternatives. The presentation of the draft alternatives to the OCTA Board was subsequently delayed until the Board has an opportunity to discuss the action plans developed in the 2018 Transit Master Plan. A presentation on the Transit Master Plan is planned to go to the Board next quarter.

### **6. Provide up to \$115 million in funding to expand mobility choices for seniors and persons with disabilities (Project U).**

Approximately \$35 million<sup>2</sup> has been provided for the Senior Mobility Program (SMP), the Senior Non-Emergency Medical Transportation Program (SNEMT), and the Fare Stabilization Program since the Next 10 Plan adoption. See [page 29](#) for more information.

<sup>2</sup>Only includes disbursed funds. On May 13, 2019, the Board determined that the City of Santa Ana and the City of Stanton ineligible to receive M2 revenues. Disbursement of M2 funds have been suspended until the cities achieve compliance and the Board reconsiders the matter by May 2020.

### **7. Work with local agencies to develop a plan for the next community circulator projects to provide grant opportunities for local agencies to implement effective local transit services (Project V).**

Along with requests for letters of interest, the Board has authorized four calls for projects in total; with two occurring since the Next 10 Plan adoption. During the Next 10 period, the Board has awarded six projects for a total of \$6.04 million. The Board also authorized the fourth Project V 2020 call for projects for up to \$9.0 million. Programming recommendations for this call for projects are anticipated in Spring, 2020.

Staff continues to work with local jurisdictions through letters of interest requests, workshops, CTFP Guidelines revisions, and calls for projects, to fine tune this program and facilitate successful project implementation. For additional details and information on current project program performance and service see [page 30](#).



## MEASURE M2 PROGRESS REPORT

### **8. Allocate up to \$7 million in funding to improve the top 100 busiest bus stops and support the modernization of the bus system to enhance the customer experience (Project W).**

Through two calls for projects, the Board has approved Project W funds to support 79 city-initiated improvements to busy bus stops on the OCTA transit system. Since Next 10 Plan adoption, the Board has made \$3 million available of which \$872,300 was allocated to eligible local agencies. The program is designed to ease transfers between bus lines and provide passenger amenities such as installation of bus benches or seating, shelters, improved lighting, and other passenger related amenities. For additional details see [page 31](#).

### **9. Ensure the ongoing preservation of purchased open space (Preserves) which provides comprehensive mitigation of the environmental impacts of freeway improvements and higher-value environmental benefits in exchange for streamlined project approvals (Projects A-M).**

The Freeway Mitigation Program Preserves includes seven properties (1,300 acres), and 12 restoration projects (350 acres). In 2017, OCTA received biological resource permits after completing a state and federal Natural Community Conservation Plan/Habitat Conservation Plan (Conservation Plan) for the Environmental Mitigation Program, allowing streamlined project approvals for the freeway improvement projects. The Conservation Plan also includes a streamlined process for coordination of streambed alternation agreements. In 2018, the OCTA secured programmatic permits and assurances for federal and state clean water permitting requirements. Receipt of these permits represent the culmination of years of collaboration and support by the Board, environmental community, and regulatory agencies.

To ensure ongoing preservation of the open space, an endowment was established to pay for the long-term management of the Preserves. Approximately \$2.9 million will be deposited annually. To date, OCTA has made four endowment deposits. Quarterly investment reports are provided to the Board, with the most recent one in November 2019. As of September 30, 2019, the endowment balance is \$12,393,157, and on par with baseline assumptions with respect to interest earnings. For more details, see the project updates on [page 33](#).

### **10. Work with the Environmental Cleanup Allocation Committee (ECAC) to develop the next tiers of water quality programs, with a goal of providing \$40 million in grants to prevent the flow of trash, pollutants, and debris into waterways from transportation facilities. In addition, focus on improving water quality on a regional scale that encourages partnerships among the local agencies as part of the Environmental Cleanup Program (ECP) (Project X).**

Since adoption of the Next 10 Plan in November 2016, OCTA has issued three calls for Tier 1 ECP projects. The Board awarded approximately \$7.6 million to fund 39 Tier 1 projects. Staff anticipates the next Tier 2 call in 2021, dependent on projected cash flow and local jurisdictions' interest in potential viable Tier 2 projects. For more details, see the project updates on [page 32](#).



## FREWAYS

### INTERSTATE 5 (I-5) PROJECTS ▾

**Segment:** I-5, Between SR-55 and SR-57

PROJECT A

**Status:** Construction Underway – 45% complete

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project will increase high occupancy vehicle (HOV) capacity by adding a second HOV lane in both directions along I-5 between SR-55 and SR-57 for approximately 3 miles in Santa Ana. Construction began on February 20, 2019, and during the quarter activities included completion of installation of retaining walls at Lincoln Avenue and removal of debris associated with demolition of the HOV ramp bridge at Main Street (in early August 2019) and construction of retaining walls and roadway sub base in the median. The project is expected to be completed in early 2021.

**Segment:** I-5, I-405 to SR-55

PROJECT B

**Status:** Environmental Phase Underway - 92% Complete

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project is studying the addition of one general purpose lane in each direction of the I-5 corridor and improved interchanges in the area between just north of I-405 to SR-55 in the cities of Tustin and Irvine. Additional features include the addition of auxiliary lanes in some areas and re-establishment in other areas within the project limits. The Draft Environmental Document (DED) was circulated in May 2018 and two open house format public hearings were held in late May 2018. To limit community and business impacts, design variations were recommended to address tight right-of-way constraints in the project area. Due to a lack of agreement over design variations recommended, the completion of the environmental document was delayed 15 months. Following discussions and further study, agreement was reached, and the Project Development Team recommended a preferred alternative in mid-March 2019. The Design Standard Decision Document (formerly Fact Sheet) process is underway to address the agreed upon design variations and completion of the final ED is expected in early January 2020. This project has been segmented into two segments and is advanced through construction in the updated 2019 Next 10 Delivery Plan approved by the Board on November 11, 2019.

# FREWAYS

## PROJECT C AND PART OF PROJECT D

**I-5, Avenida Pico to San Juan Creek Road is one project broken into three segments, as described below.**

**Segment: I-5, Avenida Pico to Avenida Vista Hermosa/Avenida Pico Interchange**

**Status: PROJECT COMPLETE**

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** This segment added a carpool lane in each direction on I-5 between Avenida Pico and Avenida Vista Hermosa for approximately 0.7 miles in San Clemente and included major improvements through reconstruction of the Avenida Pico Interchange (part of Project D). The project also added bicycle lanes in both directions on Avenida Pico. Construction began in February 2015 and all three segments of the I-5 between Avenida Pico to San Juan Creek were opened to traffic on March 13, 2018. The project was officially completed on August 23, 2018, and the one-year plant establishment period for this segment was completed in May 2019.

**Segment: I-5, Avenida Vista Hermosa to Pacific Coast Highway**

**Status: PROJECT COMPLETE**

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** This segment added a carpool lane in each direction of I-5 between Avenida Vista Hermosa and Pacific Coast Highway (PCH) for approximately 2.5 miles in San Clemente, and also reconstructed on- and off-ramps at Avenida Vista Hermosa and Camino de Estrella. Construction began in September 2014 and all three segments of the I-5 between Avenida Pico to San Juan Creek were opened to traffic on March 13, 2018. The project was officially completed on July 31, 2017, and the one-year plant establishment period for this segment was completed in May 2018.

**Segment: I-5, Pacific Coast Highway to San Juan Creek Road**

**Status: PROJECT COMPLETE**

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** This segment added one carpool lane in each direction of the I-5 between PCH and San Juan Creek Road for approximately 2.5 miles in the Cities of San Clemente, Dana Point, and San Juan Capistrano. Project improvements also reconstructed the on and off ramps at PCH/Camino Las Ramblas. Construction began in March 2014 and all three segments of the I-5 between Avenida Pico to San Juan Creek were opened to traffic on March 13, 2018. The project was officially completed on July 3, 2018, and the one-year plant establishment period for this segment was completed in March 2019. During the quarter, all outstanding contractor claims were resolved.

## FREWAYS

**I-5, SR-73 to El Toro Road is one project broken into three segments in early 2018, as described below. With a cost estimate for this project of \$557.11 million, the project was above the \$500 million threshold for a “Major Project” designation, as determined by the Federal Highway Administration (FHWA). Major projects require a Cost Estimate Review (CER) workshop, and a CER was conducted by the FHWA, Caltrans, and OCTA in February 2018 and resulted in an estimated project cost of \$612.6 million. The OCTA cost estimate for the three segments is currently \$595.7 million.**

**Segment:** I-5, SR-73 to Oso Parkway/Avery Parkway Interchange

**Status:** Design Complete. Construction contract awarded.

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project will make improvements along I-5 between SR-73 and Oso Parkway in the Cities of Laguna Hills, Laguna Niguel, and Mission Viejo. The improvements include the addition of a 2.2-mile general-purpose lane in each direction and reconstruction of the Avery Parkway Interchange (part of Project D). During the quarter, the consultant continued working on ROW acquisition and coordination with utility agencies. Due to extended ROW coordination, this project is marked “red” in the CAP, with delay of 12 months beyond the original schedule. The project was advertisement on August 26, 2019 and bids were received on October 15, 2019. ORTIZ Enterprises, Inc was the lowest bidder with \$107,993,733 which was approximately \$3.6 million under the engineers estimate. The project was awarded on December 19, 2019 and construction is anticipated to start mid-March of 2020.

**Segment:** I-5, Oso Parkway to Alicia Parkway/La Paz Road Interchange

**Status:** Construction Underway – 7% Complete

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project will make improvements along I-5 between Oso Parkway and Alicia Parkway in the cities of Mission Viejo, Laguna Hills, and Lake Forest. The proposed improvements include the addition of a 2.6-mile general-purpose lane in each direction and reconstruction of the La Paz Road Interchange (Part of Project D). The construction contract award was on April 4, 2019, and the first working day was May 29, 2019. Activities this quarter include completion of removal and disposal of Aerially Deposited Lead and demolition of the northbound looped on-ramp at La Paz Road. Staff continues coordination of the service contract with SCRR/Metrolink, and with Caltrans on ROW and utility relocations.

**Segment:** I-5, Alicia Parkway to El Toro Road

**Status:** Design Complete. Construction bid package preparation underway

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project will make improvements along I-5 between Alicia Parkway to El Toro Road in the Cities of Lake Forest, Laguna Hills, Laguna Woods and Mission Viejo. The proposed improvements include the addition of a 1.7-mile general-purpose lane in each direction and the extension of the second HOV lane from El Toro



## FREWAYS

Road to Alicia Parkway. The 100 percent Plans, Specifications and Estimates Submittal was on May 3, 2019 for Caltrans review. This quarter, the consultant continued Right-of-Way and Utility efforts, updated and submitted the final plans in coordination with the Caltrans Office Engineer to prepare to achieve Ready to List Status. Due to extended ROW coordination with Caltrans and delayed design start date, this project is marked “red” in the CAP, with a delay of over 16 months beyond the original schedule. The Board has approved \$49.9 million in federal funding and OCTA has received \$9.4 million in state funding.

### PROJECT D

**This project will update and improve key I-5 interchanges at Avenida Pico, Ortega Highway, Avery Parkway, La Paz, and at El Toro Road. Three interchange improvements at La Paz, Avery Parkway, and Avenida Pico are included and discussed as part of the respective segments in Project C.**

**Segment:** I-5, Ortega Highway Interchange

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** Construction began in February 2013 to reconstruct the SR-74 Ortega Highway Bridge over I-5 and improve local traffic flow along SR-74 and Del Obispo Street in the City of San Juan Capistrano. All lanes on the new bridge were opened to traffic on September 4, 2015. A dedication ceremony was held on October 1, 2015. The project was officially completed on January 15, 2016.

**Segment:** I-5, El Toro Interchange

**Status:** Environmental Phase On Hold

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** Caltrans is the lead in the environmental phase of this project which included the study of four build alternatives that consider modifications to the existing interchange, ranging from an I-5 southbound direct connector to El Toro Road to modifications in how existing on and off ramp intersections operate. The project area includes the cities of Laguna Hills, Laguna Woods and Lake Forest who are direct stakeholders of the project improvements. The study began in April 2017 and the Draft Initial Study/Environmental Assessment (IS/EA) was completed in March 2019. The public comment review period was from April 2, 2019, through May 20, 2019, and a public hearing was held on April 18, 2019, in the City of Lake Forest. The four alternatives were reduced to two and the remaining two alternatives have large community and business impacts as a result of the project being in a densely built out area. The three stakeholder cities are not in consensus on a preferred alternative and costs identified for the remaining alternatives are significantly higher than the assumed cost in the Next 10 Plan which creates additional challenges. The environmental phase was anticipated to be completed in late 2019, however without the cities' consensus, OCTA will not support finalization of the document. OCTA has



## FREWAYS

requested Caltrans put completion of the environmental document on hold. Major activities this quarter included two meetings with the three stakeholder cities to request that the cities work together to determine if they can jointly support an alternative. Also, Caltrans completed preparing responses to comments received during the Public Review period.

### STATE ROUTE 22 (SR-22) PROJECTS ▼



#### PROJECT E

**Segment:** SR-22 Access Improvements

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** Completed in 2008, Project E made improvements at three key SR-22 interchanges (Brookhurst Street, Euclid Street, and Harbor Boulevard) in the City of Garden Grove to reduce freeway and street congestion in the area. This M2 project was completed early as a “bonus project” provided by the original Measure M (M1).

### STATE ROUTE 55 (SR-55) PROJECTS ▼

#### PROJECT F

**Segment:** SR-55, I-405 to I-5

**Status:** Design Phase Underway - 90% Complete

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project will widen SR-55 between I-405 and I-5 in the Cities of Irvine, Santa Ana, and Tustin. The improvements will include a 4-mile general purpose lane and a second HOV lane in both directions between the I-405 and I-5. Auxiliary lanes will be added and extended in some segments, within the project limits. Through a cooperative agreement, Caltrans and OCTA’s consultant initiated the design together and on July 19, 2019 the 95 percent design was completed. The 100 percent design will be submitted next quarter. Caltrans originally agreed to be responsible for developing and gaining approval of the required Supplemental Fact Sheet addressing necessary design variations on the project; however, OCTA was notified that Caltrans will not complete the work. On December 9, 2019, OCTA Board approved an amendment to the Caltrans cooperative agreement and amendment to the OCTA consultant contract to transfer the Supplemental Fact Sheet task to OCTA. The Supplemental Fact Sheet will be submitted next quarter to Caltrans for review and approval. The project is anticipated to be ROW Certified and ready to list (RTL) by December 2020. The Board has approved \$103 million in federal funds and OCTA has received \$80 million in state funds through the 2018 STIP. Caltrans has originally committed \$46.8 million in SHOPP funds but that amount was reduced to \$45 million and OCTA will seek to capture another \$75 million in future SB1 funding to fully fund the carpool elements of the project.



# FREWAYS

**Segment:** SR-55, I-5 to SR-91  
**Status:** Environmental Phase Underway - 92% Complete  
**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project is studying approximately 7.5 miles of SR-55 between I-5 and SR-91 in the Cities of Santa Ana, Tustin, Orange and Anaheim. The environmental study is looking at the addition of one general purpose lane in each direction between SR-22 and the I-5 and providing operational improvements between SR-22 and SR-91. During the quarter, the consultant continued working on technical studies and obtained approval on most. The Draft Environmental Document (ED) and Draft Project Report were approved in September 2019. The Draft ED was circulated to the public in late-September, and an open house format Public Hearing was held in mid-October. The Project Development Team recommended a preferred alternative in mid-December 2019. The Design Standard Decision Document (formerly Fact Sheet) process has been underway to address design variations needed to limit right-of-way impacts. The final ED is expected to be approved in early 2020. This is contingent on the project being exempt from new Safe Rule air conformity standards (subsequently enacted) that if applied would require a redo of work already completed. This project was approved for advancement through construction in the updated 2019 Next 10 Delivery Plan by the Board on November 11, 2019.

## STATE ROUTE 57 (SR-57) PROJECTS ▾

### PROJECT G

**Segment:** SR-57 Northbound, Katella Avenue to Lincoln Avenue  
**Status:** PROJECT COMPLETE  
**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** This project increased capacity and improved operations on northbound SR-57 between Katella Avenue and Lincoln Avenue in the City of Anaheim with the addition of a new 3-mile general purpose lane, on- and off-ramp improvements, and sound walls. Bridges at Katella Avenue and Douglas Road were also widened in the northbound direction. The project opened to traffic on November 19, 2014, and completed on April 21, 2015.

**Segment:** SR-57 Northbound, Orangethorpe Avenue to Yorba Linda Boulevard  
**Status:** PROJECT COMPLETE  
**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** This project increased capacity and improved operations on northbound SR-57 with a new 2.5-mile northbound general-purpose lane between Orangethorpe Avenue in the City of Placentia to Yorba Linda Boulevard in the City of Fullerton. In addition to the new lane, capital improvements include reconstruction of northbound on- and off-ramps, widening of seven bridges, and the addition of soundwalls. The new general purpose lane was opened to traffic on April 28, 2014. The project was completed on November 6, 2014.

## FREEWAYS

**Segment:** SR-57 Northbound, Yorba Linda Boulevard to Lambert Road

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** Completed on May 2, 2014, this project improved capacity, operations, and traffic flow on SR-57 with the addition of a new 2.5-mile northbound general-purpose lane between Yorba Linda Boulevard in the City of Fullerton and Lambert Road in the City of Brea. Additional project benefits include on- and off-ramp improvements, the widening and seismic retrofit (as required) of six bridges in the northbound direction and the addition of soundwalls. Existing lanes and shoulders were also widened to standard widths, enhancing safety for motorists. The new general purpose lane was opened to traffic on September 23, 2013. The project was completed on May 2, 2014.

**Segment:** SR-57 Northbound, Lambert Road to Tonner Canyon Road

**Status:** Environmental phase schedule TBD

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** Caltrans previously completed a Project Study Report (PSR)/Project Development Support document for the Lambert Road to Tonner Canyon Road segment, which would add a northbound truck-climbing lane (approximately 2.5 miles) in the City of Brea. The project will require coordination with LA Metro on planned improvements or related work across the county line. The mainline project includes interchange and ramp improvements at Lambert Road. Through the SB 1 Trade Corridor Enhancement Program, funds were allocated to initiate the construction phase for interchange improvements at Lambert Road which will complement and serve as a first phase to the freeway improvement project. Construction began in mid-2019 and is anticipated to be complete at the end of 2021. Phase 2, which is the mainline improvements, was initially approved for STIP funding in March 2018 to initiate the environmental phase. However, due to the 2019 STIP reduction, funding was shifted to cover projects already underway. The schedule for this project will be updated during the annual M2 cash flow review and Next 10 update.

**Segment:** SR-57 Northbound, Orangewood Avenue to Katella Avenue

**Status:** Environmental Phase Complete

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project studied the addition of a new one mile northbound general purpose lane on SR-57 from Orangewood Avenue to Katella Avenue in the Cities of Anaheim and Orange. The northbound general-purpose lane would join the northbound general purpose lane which was opened to traffic in 2014 between Katella Avenue and Lincoln Avenue. The Final Environmental Document and Final Project Report were approved on March 29, 2019. This project was approved for advancement through construction in the updated 2019 Next 10 Delivery Plan by the Board on November 11, 2019. The design phase is scheduled to begin in late 2021.



# FREEWAYS

## STATE ROUTE 91 (SR-91) PROJECTS ▾

**Segment:** SR-91 Westbound, I-5 to SR-57

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



PROJECT H

**Summary:** This project increased capacity in the westbound direction of SR-91 by adding an additional 4.5-mile general purpose lane in the westbound direction between Anaheim and Fullerton and provided operational improvements at on and off-ramps between Brookhurst Street and State College Boulevard. The general purpose lane was opened to traffic on March 7, 2016, and the project was complete on June 23, 2016.

**Segment:** SR-91, SR-55 to Tustin Avenue Interchange

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



PROJECT I

**Summary:** This project improved traffic flow at the SR-55/SR-91 interchange by adding a westbound auxiliary lane beginning at the northbound SR-55 to westbound SR-91 connector through the Tustin Avenue interchange in the City of Anaheim in the approximately 2-mile area. The project reduced weaving congestion in the area and included reconstruction of the westbound side of the Santa Ana River Bridge to accommodate the additional lane. The bypass lane was open to traffic on May 14, 2016, and construction was completed on July 15, 2016.

**Segment:** SR-91, SR-55 to SR-57

**Status:** Environmental Phase Underway - 94% Complete

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project will improve traffic flow and operations along SR-91 within the Cities of Fullerton and Anaheim in the approximately 5-mile study area. The study is looking at the addition of one general purpose lane eastbound between SR-57 and SR-55, and one general purpose lane westbound from the NB SR-57 connector to State College Boulevard. Additional features of this project include improvements to various interchanges. Auxiliary lanes will be added in some segments and re-established in others within the project limits. The Project Development Team recommended the preferred alternative in late-March 2019. Due to Caltrans requiring extra work to study interchange improvements outside of the completed PSR and the M2 promised project, the project is marked “red” in the CAP signifying a delay of 20 months from its original schedule. 91 Express Lanes excess revenue is designated to pay for the mainline freeway improvements included in M2. The Draft ED was circulated to the public late-November 2018 and an open house format public hearing was held in December 2018. The finalization of the document has been delayed due to a requirement by Caltrans that OCTA provide additional information in order to consider approval of necessary design exceptions. This requires a site investigation in the landscape area of the former landfill operating as a metals recycling facility. This is a lengthy process and introduces risk to the project. The permit-to-enter for the site investigation was obtained in December 2019 and field work is scheduled to begin in January 2020. The final ED is anticipated to be complete in June 2020. This project has been segmented into three segments for the design phase which is anticipated to begin in early 2020.



## FREEWAYS

**Segment:** SR-91, SR-55 to SR-241

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



PROJECT J

**Summary:** This completed Project J segment added six miles in the westbound and eastbound direction to a key stretch of SR-91 between SR-55 and SR-241 in the Cities of Anaheim and Yorba Linda. In addition to adding 12 lane miles to SR-91, the project also delivered a much needed second eastbound exit lane at the Lakeview Avenue, Imperial Highway and Yorba Linda Boulevard/Weir Canyon Road off-ramps. Beyond these capital improvements, crews completed work on safety barriers, lane striping and soundwalls. Completion of this project in March 2013 means a total of 18 lane miles have been added to SR-91 since December 2010. The lanes opened to traffic in December 2012, and construction completed on March 5, 2013.

**Segment:** SR-91, SR-241 to SR-71

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** Completed in January 2011, this segment added six miles through a key stretch of SR-91 between Orange County's SR-241 and Riverside County's SR-71. The project improves mobility and operations by reducing traffic weaving from traffic exiting at SR-71 and Green River Road. An additional eastbound general purpose lane on SR-91 was added and all existing eastbound lanes and shoulders were widened. The new facilities were opened to traffic on December 2, 2010, and construction completed January 31, 2011. Because this project was shovel-ready, OCTA was able to obtain American Recovery and Reinvestment Act funding for this M2 project, saving M2 revenues for future projects.

**Segment:** SR-91, SR-241 to I-15

**Status:** RCTC's Design-Build - Initial Phase Complete March 20, 2017

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** Freeway improvements that cross county lines require close coordination to maintain seamless travel. This project adds one general-purpose lane (bringing the total to 6 lanes in each direction) on SR-91 between SR-241 and I-15. Since the SR-91 corridor is one of the busiest in the region, implementation of this project requires constructing the improvements under multiple segments to coordinate improvements and to capitalize on available funding. While the portion of this project between SR-241 and the Orange County/Riverside County line is part of OCTA's OC Go Project J, the matching segment between the county line and SR-71 is part of RCTC's Measure A. The 6th lane addition requires joint implementation to ensure smooth delivery of the project. With significant SR-91 freeway improvements taking place as a result of both counties sales tax measures, the construction timing of the additional general-purpose lane between SR-241 and SR-71 was anticipated to take



# FREEWAYS

place post-2035. However, RCTC requested OCTA’s support to accelerate a portion of the ultimate project in the westbound direction (in Orange County) to address a bottleneck issue affecting the City of Corona. With OCTA’s support, RCTC has initiated the 91 Corridor Operation Project to initiate construction and the project is anticipated to be complete in 2021. In addition, OCTA and RCTC will be jointly conducting a feasibility study to determine how best to implement the 6th general-purpose lane while minimizing environmental and construction impacts in the eastbound direction between SR-241 and SR-71. On October 10, 2019, the Request for Proposals was released for the SR-91 (SR-241 to SR-71) Eastbound Geometric and Design Alternatives Analysis. The consultant recommendation will be presented to the Board on February 10, 2020.

## INTERSTATE 405 (I-405) PROJECTS ▼

PROJECT K

**Segment:** I-405, SR-73 to I-605

**Status:** Design-Build Underway

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** OCTA and Caltrans are working together to widen I-405 through the Cities of Costa Mesa, Fountain Valley, Garden Grove, Huntington Beach, Los Alamitos, Seal Beach, and Westminster in the approximately 16-mile project area. These improvements will add one general purpose lane, add a second lane to be combined with the existing HOV lane to provide a dual express lanes facility, and improve the local interchanges along the corridor from SR-73 to I-605.<sup>3</sup>

During the quarter, work continued on ROW acquisition, utility coordination and public outreach. OCTA is in possession of 98 percent of the property necessary for construction with the remaining two percent on schedule. Other work included review of design-builder submittals along with design and construction submittals. OCTA’s toll lanes system integrator, Kapsch, is under contract and working with OCTA and the design-builder. Significant roadway construction activities including installation of drainage systems, retaining walls, and paving are underway. Additionally, over 40 walls are under construction or completed. The Slater Avenue bridge was the first new bridge completed and was opened to traffic on August 30, 2019. Significant bridge construction continues on Fairview Road, Magnolia Street, Goldenwest Street, Bolsa Chica Road and Westminster Boulevard bridges. These are two-stage bridges, which means traffic is maintained on the remaining portion of the existing bridge while the first half of the new bridge is constructed. Construction also continued at the McFadden Avenue, Talbert Avenue and Bushard Street bridges, which are one-stage bridges that are closed to traffic during construction. In this quarter, construction began on the widening of the existing freeway bridges at Beach Boulevard, Bolsa railroad crossing and an old Navy railroad crossing. Construction continues at the Santa Ana River and Harbor Boulevard bridges which consists of widening the existing freeway bridges over both of those facilities. OCTA also continued targeted public outreach through neighborhood meetings in anticipation of construction activities. Construction is scheduled to be completed in 2023.

<sup>3</sup>The general purpose lane portion of the project is a M2 project and will be funded by a combination of local, state and federal funds, with the express lanes portion of the project financed and paid for by those who choose to pay a toll and use the 405 Express Lanes.



# FREEWAYS

**Segment:** I-405, I-5 to SR-55

PROJECT L

**Status:** Environmental Phase Complete

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project studied the addition of general purpose lanes for approximately 8.5-miles along the I-405 corridor between I-5 and SR-55 in Irvine. The project development team reviewed the alternatives and public comments received during public circulation and as a result of the effort, recommended adding one general purpose lane in each direction. The final Project Report (PR) and Environmental Document (ED) were completed in August 2018. The Next 10 Plan sets direction through 2026 and is reviewed annually. As projects listed are completed, schedules and revenues are reviewed, the Board adopts an updated delivery plan providing direction on project advancement. To ensure coordination with other projects planned for construction and to avoid unreasonable impacts to the public, this project is currently scheduled to be constructed beyond 2026.

## INTERSTATE 605 (I-605) PROJECTS ▾

**Segment:** I-605, Katella Interchange Improvements

PROJECT M

**Status:** Environmental Phase Complete

**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** This project will improve freeway access and the arterial connection to I-605 at Katella Avenue in the City of Los Alamitos and the County of Orange. Improvements under this project will include enhancements at the on-ramps and off-ramps in addition to operational improvements on Katella Avenue at the I-605 Interchange. The final ED was approved in October 2018 and the final PR was approved in November 2018. This project was approved for advancement through construction in the updated 2019 Next 10 Delivery Plan by the Board on November 11, 2019. The design phase is scheduled to begin in late 2020.

## FREEWAY SERVICE PATROL ▾

**Status:** Service Ongoing

PROJECT N

**Contact:** Cliff Thorne • (714) 560-5975

**Summary:** Freeway Service Patrol (FSP) provides assistance to motorists whose vehicles have become disabled on Orange County freeways and removes congestion-causing debris from traffic lanes to reduce freeway congestion and collisions. In June 2012, M2 began supporting FSP with local funds to maintain existing service levels and expand services through 2041. During the quarter, FSP provided 12,216<sup>4</sup> services. Since June 2012, FSP has provided a total of 495,126<sup>4</sup> services on the Orange County freeway system.

<sup>4</sup> Service calculations have changed from the previous quarter. Because FSP is funded by M2 and external sources, it is more accurate to report all services provided, rather than a particular time of day/week.





# STREETS AND ROADS

## REGIONAL CAPACITY PROGRAM ▾

**Status:** 2020 Call for Projects in Progress

PROJECT O

**Contact:** Joseph Alcock, Planning • (714) 560-5372

**Summary:** This program, in combination with required local matching funds, provides funding for improvements on Orange County’s Master Plan of Arterial Highways. Since 2011, 147 projects totaling more than \$296<sup>5</sup> million, including \$24 million in external funding, have been awarded through nine calls for projects by the Board. On August 12, 2019, the Board approved the release of the 2020 Call for Projects. The application deadline for the tenth call closed on October 24, 2019 with 8 applications received and currently under review. Award recommendations are anticipated to go to the Board in mid-2020.

<sup>5</sup>To date, 15 of the 183 phases awarded by OCTA totaling approximately \$21.1 million have been cancelled by the awarded local jurisdictions.



## OC Bridges Railroad Program

This program built seven grade separations (either under or over passes) where high volume streets are impacted by freight trains along the BNSF Railroad in North County. With all seven grade separations open to traffic, an OC Bridges completion ceremony was held on October 24, 2017. To date, the Board has approved approximately \$664 million in committed M2 and external funds for all seven of the OC Bridges Program grade separation projects. Minor activities this quarter include warranty work and close out of projects.

**Segment:** Kraemer Boulevard Grade Separation

**Status:** PROJECT COMPLETE



**Contact:** Rose Casey, Capital Projects • (714) 560-5729

**Summary:** The project located at Kraemer Boulevard railroad crossing is grade separated and open to traffic. The project separated the local street from railroad tracks in the City of Placentia by building an underpass for vehicular traffic. The grade separation was opened to traffic on June 28, 2014, and an event was held on July 8, 2014, to commemorate the opening. Project acceptance by the Cities of Anaheim and of Placentia, respectively, occurred in December 2014 and the cities assumed full maintenance responsibilities. In December 2015, the one-year warranty period expired with no issues or repairs identified.



## STREETS AND ROADS

**Segment:** Lakeview Avenue Grade Separation

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** The project located at Lakeview Avenue railroad crossing grade separated the local street from railroad tracks in the Cities of Anaheim and Placentia by building a bridge for vehicular traffic over the railroad crossing and reconfiguring the intersection of Lakeview Avenue and Orangethorpe Avenue. Construction began on July 1, 2014.

Lakeview Avenue was reopened on June 6, 2017. Construction acceptance from the Cities of Anaheim and Placentia was obtained on June 2, 2017, and OCTA has turned over the maintenance responsibilities to the cities and completed the one-year warranty on some constructed items. The one-year warranty was extended to July 2019 for some minor repair items and close-out activities are completed. Staff presented recommendation for final claim resolution to the Board on July 22, 2019, which was approved. Funding reimbursement and closeout were initiated and are ongoing.

**Segment:** Orangethorpe Avenue Grade Separation

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** The project located at Orangethorpe Avenue railroad crossing is grade separated and open to traffic. The project separated the local street from railroad tracks in the Cities of Placentia and Anaheim by building a bridge for vehicular traffic over the railroad tracks. On May 17, 2016, a joint-grand opening event was held to commemorate the opening to traffic for the Orangethorpe and Tustin/Rose Grade Separation projects. Construction was completed in October 2016 and construction acceptance was obtained from the Cities of Anaheim and Placentia on October 25, 2016. OCTA has turned over the maintenance responsibilities to the cities and completed the one-year warranty on the majority of constructed items. The one-year warranty was extended to June 2019 for some minor repair items. Funding reimbursement and closeout are completed.

**Segment:** Placentia Avenue Grade Separation

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** The project located at Placentia Avenue railroad crossing is grade separated and open to traffic. This project separated the local street from railroad tracks in the City of Placentia by building an underpass for vehicular traffic. An event was held on March 12, 2014, to commemorate the opening. Project acceptance by the Cities of Anaheim and Placentia occurred in December 2014 and the cities assumed full maintenance responsibilities. In December 2015, the one-year warranty period expired with no issues or repairs identified.

## STREETS AND ROADS

**Segment:** Raymond Avenue Grade Separation

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** The project located at Raymond Avenue railroad crossing grade separated the local street from railroad tracks in the City of Fullerton by taking vehicular traffic under the railroad crossing. The City of Fullerton is managing construction and OCTA is providing construction oversight, public outreach, railroad coordination, and ROW support. Construction began on June 2, 2014. Raymond Avenue has been opened to traffic since October 2017. OCTA received conditional construction acceptance in May 2018. Activities this quarter include project closeout documentation and processing final invoices. Funding reimbursement and closeout were initiated and are ongoing.

**Segment:** State College Boulevard Grade Separation

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** The project located at State College Boulevard railroad crossing grade separated the local street from railroad tracks in the City of Fullerton by taking vehicular traffic under the railroad crossing. The City of Fullerton managed the construction and OCTA provided construction oversight, public outreach, railroad coordination, and ROW support. State College Boulevard was opened to through traffic on November 1, 2017. Construction acceptance and maintenance responsibilities from the City of Fullerton was obtained on March 7, 2018, and the one-year warranty began. Close-out activities and warranty work will be ongoing through mid-2019. Funding reimbursement and closeout were initiated and are ongoing.

**Segment:** Tustin Avenue/Rose Drive Grade Separation

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** The project located at Tustin Avenue/Rose Drive railroad crossing is grade separated and open to traffic. The project separated the local street from railroad tracks in the Cities of Placentia and Anaheim by building a bridge over the railroad crossing for vehicular traffic. On May 17, 2016, a joint-grand opening event was held to commemorate the opening to traffic for the Orangethorpe and Tustin/Rose Grade Separation projects. Construction was completed in October 2016 and construction acceptance was obtained from the Cities of Anaheim and Placentia on October 25, 2016. OCTA has turned over the maintenance responsibilities to the cities and completed the one-year warranty on the majority of constructed items. The one-year warranty was extended to November 2018 for some minor repair items. In November 2018, the warranty period expired with no additional issues or repairs identified.



## STREETS AND ROADS

### REGIONAL TRAFFIC SIGNAL SYNCHRONIZATION PROGRAM ▼

**Status:** 2020 Call for Projects in Progress

PROJECT P

**Contact:** Anup Kulkarni, Planning • (714) 560-5867

**Summary:** This program provides funding and assistance to implement multi-agency signal synchronization. The target of the program is to regularly coordinate a network of over 2,000 signalized intersections along 750 miles of roadway within Orange County. OCTA also leverages external funding to further enhance the efficiency of the street grid and reduce travel delay.

To date, OCTA and local agencies have synchronized more than 2,700 intersections over more than 705 miles of streets (79 completed projects). Through a competitive process, there have been nine rounds of M2 funding which awarded a total of 95 projects a total of more than \$95 million. Overall, the program has funded 111 projects<sup>6</sup> totaling more than \$106 million, including \$13.6 million in leveraged external funding.

On August 12, 2019, the Board approved the release of the 2020 Call for Projects. The application deadline for the tenth call closed on October 24, 2019 with seven applications received and currently under review. Award recommendations are anticipated to go to the Board in mid-2020.

<sup>6</sup>To date, three projects totaling approximately \$1.6 million have been cancelled by the awarded local jurisdictions.

### LOCAL FAIR SHARE ▼

**Status:** Ongoing

PROJECT Q

**Contact:** Ben Torres, Finance • (714) 560-5692

**Summary:** In order to help cities and the County of Orange keep up with the rising cost of repairing the aging street system, this program provides flexible funding intended to augment, not replace, existing transportation expenditures by the cities and the County. Annually, all local agencies are reviewed to determine eligibility to receive M2 funds. All local agencies except the City of Santa Ana and City of Stanton have been found eligible to receive Local Fair Share funds. On a bi-monthly basis, 18 percent of net revenues are allocated to local agencies by formula. Approximately \$416 million<sup>7</sup> in Local Fair Share payments have been provided to local agencies as of the end of this quarter.

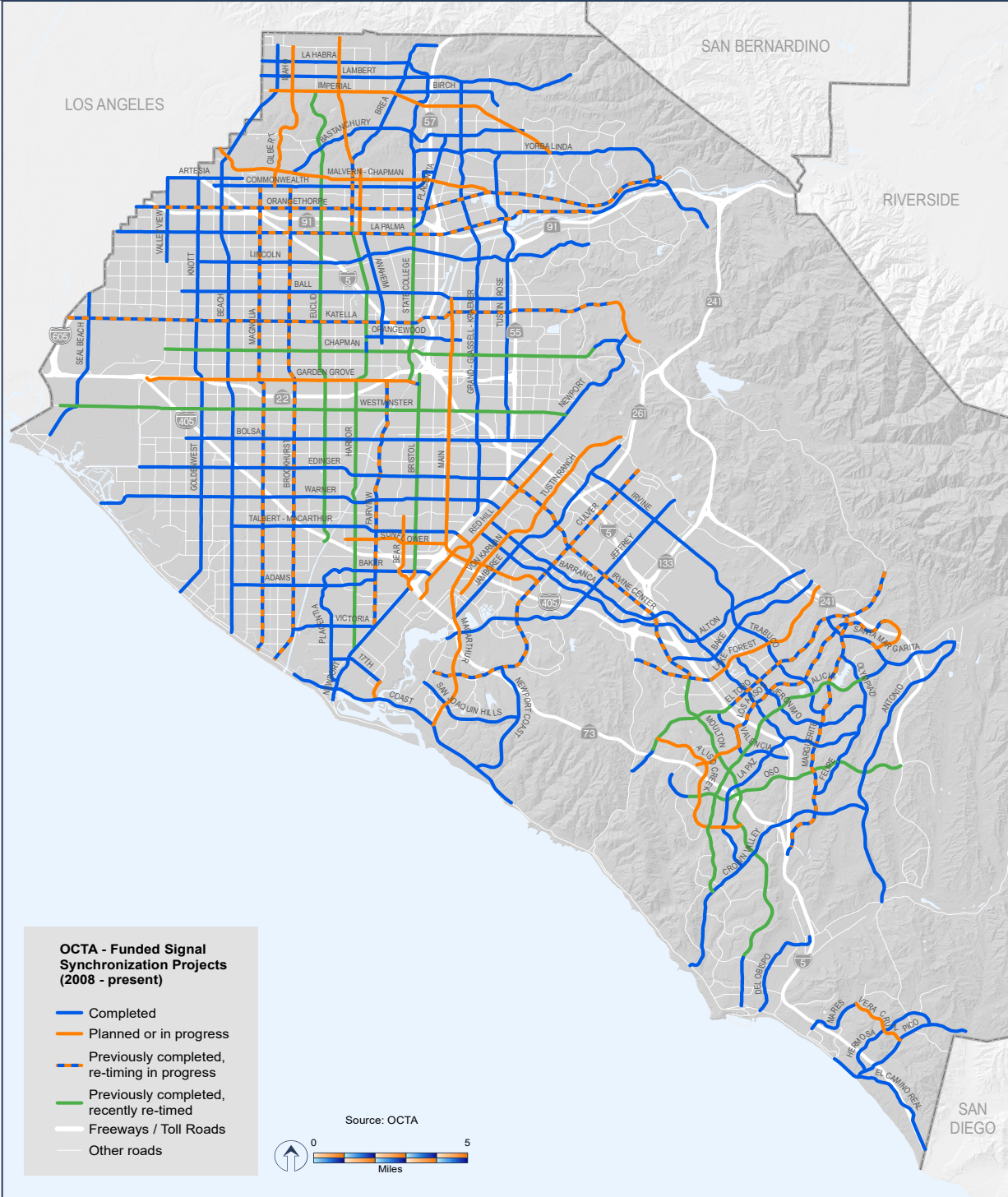
See [pages 49-50](#) for funding allocation by local agency.

<sup>7</sup>Only includes disbursed funds. On May 13, 2019, the Board determined that the City of Santa Ana and the City of Stanton ineligible to receive M2 revenues. Disbursement of M2 funds have been suspended until the cities achieve compliance and the Board reconsiders the matter by May 2020.



# STREETS AND ROADS

## OCTA-Funded Signal Synchronization Projects (2008 - Present)



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## TRANSIT

### HIGH FREQUENCY METROLINK SERVICE ▾

### PROJECT R

Project R will increase rail services within the County and provides additional Metrolink service north of Fullerton to Los Angeles. The program provides for track improvements, the addition of trains and parking capacity, upgraded stations, and safety enhancements to allow cities to establish quiet zones along the tracks. This program also includes funding for grade crossing improvements at high volume arterial streets, which cross Metrolink tracks.

**Project:** Metrolink Grade Crossing Improvements

**Status:** PROJECT COMPLETE

**Contact:** Jennifer Bergener, Rail • (714) 560-5462



**Summary:** Enhancement at 50 of the designated 52 Orange County at-grade rail-highway crossings were completed in support of the Metrolink Service Expansion Program (MSEP) in October 2012. As a result of one private crossing which did not allow for OCTA to make enhancements and one street closure that eliminated the need for enhancements, the final count of enhanced rail-highway crossings was 50. Completion of the safety improvements provided each corridor city with the opportunity to establish a “quiet zone” at their respective crossings. Quiet zones are intended to prohibit the sounding of train horns through designated crossings, except in the case of emergencies, construction work, or safety concerns identified by the train engineer. The Cities of Anaheim, Dana Point, Irvine, Orange, Santa Ana, San Clemente, San Juan Capistrano, and Tustin have established quiet zones within their communities.

**Project:** Metrolink Service Expansion Program

**Status:** Service Ongoing

**Contact:** Jennifer Bergener, Rail • (714) 560-5462

**Summary:** Following the completion of the MSEP improvements in 2012, OCTA deployed a total of ten new Metrolink intracounty trains operating between Fullerton and Laguna Niguel/Mission Viejo, primarily during the midday and evening hours.

In April 2015, a schedule change added a connection between the 91/PV Line and the intracounty service at Fullerton to allow a later southbound peak evening departure from Los Angeles to Orange County. Ridership on these two trains combined has increased by 68 percent since the improvement was implemented, from 130 average boardings in Fiscal Year (FY) 2015-16 to 219 to date for FY 2019-20.

In October 2019, several intracounty trains were extended to Los Angeles to increase ridership through a redeployment of the trains without significantly impacting operating costs. The changes consisted of :

- Orange County (OC) Line: Three weekday intracounty round trips operating between Fullerton and Laguna Niguel/Mission Viejo were replaced with two round trips between Laguna Miguel/Mission Viejo and Los Angeles.



Average daily passenger boardings on the intracounty trains extended to Los Angeles increased by 385 percent following the change.

- 91/Perris Valley (91/PV) Line: Three round trips within Riverside County between Perris–South and Riverside–Downtown were replaced with one roundtrip between Perris–South and Los Angeles Union Station, via Fullerton. The new round trip has averaged 262 daily boardings to date.

Metrolink will implement the addition of two round trips in April 2020. The OC Line will see the addition of one evening weekday round trip from Oceanside to Los Angeles. Along the 91/PV Line, one weekday round trip will be added between Los Angeles and Perris, south via Fullerton. The abovementioned changes are in alignment with OCTA’s redeployment plan.

### Rail Corridor and Station Improvements

Additionally, under MSEP, funding is provided for rail line and station improvements to accommodate increased service. Rail station parking lot expansions, better access to platforms, among other improvements have been made or are underway. For schedule information on station improvement projects, please see the CAP pages on pages [51-55](#).



**Segment:** Anaheim Canyon Metrolink Station Improvements

**Status:** Design Underway – 99% Complete

**Contact:** Jim Beil, Capital Programs • (714) 560-5646

**Summary:** This OCTA-led project will include construction of a second main track and platform, lengthening the existing platform, and improved pedestrian circulation. The project will also include the addition of benches, shade structures, and ticket vending machines. The design plans have been completed to 98 percent. Plans are expected to be complete and ready to bid in March 2020. Construction of the project is expected to begin in June 2020 with completion anticipated in Fall-2021.

**Segment:** Fullerton Transportation Center Improvements

**Status:** PROJECT COMPLETE

**Contact:** Jim Beil, Capital Programs • (714) 560-5646



**Summary:** Completed early on, a new 5-level parking structure was constructed to provide additional transit parking at the Fullerton Transportation Center for both intercity rail service and commuter rail passengers. This City-led project was completed on June 19, 2012. After completion, an elevator upgrade project was initiated with leftover savings. The elevator project modified the existing pedestrian bridge to add two new traction elevators, one on each side. The City of Fullerton was the lead on this project which was completed May 1, 2019. Closeout activities are underway and final invoices are being processed.

## TRANSIT

**Segment:** Laguna Niguel/Mission Viejo Metrolink Station Americans with Disabilities Act (ADA) Ramps

**Status:** PROJECT COMPLETE

**Contact:** Jim Beil, Capital Programs • (714) 560-5646



**Summary:** The Laguna Niguel/Mission Viejo station accessibility improvements project was completed in September 2017. Improvements include new ADA-compliant access ramps on either side of the pedestrian undercrossing and a unisex ADA-compliant restroom, vending machine room, and three passenger canopies. Construction acceptance from the cities was obtained on September 20, 2017, and OCTA has turned over the maintenance responsibilities to the cities and commenced the one-year warranty. Close-out activities and final costs are underway.

**Segment:** Orange Transportation Center Metrolink Parking Structure

**Status:** PROJECT COMPLETE

**Contact:** Jim Beil, Capital Programs • (714) 560-5646



**Summary:** This project includes a 608-space, 5-level, shared use parking structure that is located on Lemon Street between Chapman Avenue and Maple Street in Orange. Per a cooperative agreement between OCTA and the City of Orange, the City of Orange led the design phase, and OCTA led the construction phase of the project. Construction began on July 17, 2017 and was completed on February 15, 2019. A dedication ceremony was held on February 19, 2019. The project is in the close out phase.

**Segment:** New Placentia Metrolink Station and Parking Structure

**Status:** Design Complete - Ready for Advertisement subject to BNSF construction and maintenance agreement

**Contact:** Jim Beil, Capital Programs • (714) 560-5646

**Summary:** Plans for the proposed Placentia Metrolink Station Project were near completion when the City of Placentia requested to modify them to include a parking structure to be built where surface parking had been designed. On June 27, 2016, the Board approved a new Cooperative Agreement with the City of Placentia that revised the project's scope and budget, and with the changes the City of Placentia will contribute towards the cost. The station will include platforms, parking, a new bus stop, and passenger amenities. OCTA is the lead agency for design and construction of the project. The project will also include a third track which should assist with the on-time performance of train operations and provide operational flexibility for both freight and passenger trains. BNSF will be the lead on the rail construction. Design plans for the station are complete and will be ready to advertise for bidding once a Construction and Maintenance (C&M) agreement with BNSF is in place. Due to the dependency on the C&M agreement, this project is marked as a cost/schedule risk in the CAP.





**Segment:** San Clemente Pier Station Lighting

**Status:** PROJECT COMPLETE

**Contact:** Jim Beil, Capital Programs • (714) 560-5646



**Summary:** This project was completed on March 17, 2017, and project closeout was completed in the same month. OCTA was the lead agency for design and installation of this project which added lighting to the existing platform and new decorative handrails at the San Clemente Pier Station.

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Additional rail corridor improvements include: completed Control Point project at Fourth Street in the City of Santa Ana, which provides rail operational efficiencies; completed Positive Train Control implementation, which improves rail safety by monitoring and controlling train movement; continued with design and environmental work to replace the San Juan Creek railroad bridge in the City of San Juan Capistrano, which will not preclude a future bike trail on the south end along the creek (design is 95 percent complete, environmental clearance and ROW acquisition are in progress); continued with construction of the Railroad ROW Slope Stabilization project, which includes eight locations within the OCTA-owned LOSSAN rail corridor that have been identified for improvements to prevent future erosion and slope instability (construction began in June 2018 and is 75 percent complete); and continued implementation of video surveillance systems.

**Segment:** Sand Canyon Grade Separation

**Status:** PROJECT COMPLETE

**Contact:** Rose Casey, Capital Projects • (714) 560-5729



**Summary:** The project separated the local street from railroad tracks in the City of Irvine by constructing an underpass for vehicular traffic. The westbound lanes were opened to traffic on June 12, 2014, and the eastbound lanes were opened to traffic on July 14, 2014. A road opening ceremony was held on August 11, 2014. The project is complete and construction acceptance was obtained from the City of Irvine on January 15, 2016. The project completed the one-year warranty period and no repairs were identified. The project closed out in January 2017.

**Segment:** Tustin Metrolink Station Parking Structure

**Status:** PROJECT COMPLETE

**Contact:** Jim Beil, Capital Programs • (714) 560-5646



**Summary:** This early completion project, provided additional parking at the Tustin Metrolink Station to meet requirements associated with the MSEP by constructing a new 4-story parking structure with approximately 735 spaces, plus on-site surface parking. The parking structure was opened to the public on September 22, 2011.



## TRANSIT

**Segment:** Laguna Niguel to San Juan Capistrano Passing Siding Project

**Status:** Construction Underway – 40% Complete

**Contact:** Jim Beil, Capital Programs • (714) 560-5646

**Summary:** The project is currently in the construction phase and will add approximately 1.8-miles of new passing siding railroad track adjacent to the existing mainline track, which will enhance operational efficiency of passenger services within the LOSSAN rail corridor. The construction contract was awarded on January 14, 2019, and the Notice to Proceed was issued on March 12, 2019.

Construction continued with the track, track crossovers, retaining walls and removal and replacement of a bridge. With most of the signals and communications infrastructures completed last quarter, a few final activities remain underway. This project is anticipated to be completed by early 2021. The project is marked “red” in the CAP, signifying a delay of 25 months due to design coordination with utilities and water quality control permitting concerns with the City of San Juan Capistrano.

## TRANSIT EXTENSIONS TO METROLINK ▼

In order to broaden the reach of Metrolink to other Orange County cities, communities, and activity centers, Project S includes a competitive program which allows cities to apply for funding to connect passengers to their final destination via transit extensions. There are currently two categories for this program: a fixed guideway program (streetcar) and a rubber tire transit program.

**Project:** OC Streetcar

PROJECT S

**Status:** Full Funding Grant Agreement (FFGA) Executed November 30, 2018, Notice To Proceed Issued to Construction Contractor, Operation and Maintenance Request For Proposals are under review, Vehicle Production Underway, Utility Relocation Work Ongoing

**Contact:** Mary Shavalier, Rail • (714) 560-5725

**Summary:** The will serve the Santa Ana Regional Transportation Center through downtown Santa Ana, and the Civic Center to Harbor Boulevard in the City of Garden Grove. At the request of the two cities, OCTA is serving as the lead agency for the project.

Construction work continues with sewer and water line relocations in several locations, grading and utility duct work installations at the Maintenance and Storage Facility and soil excavations on the PE Right-of-Way. Construction for the installation of foundations and substructure for the new Santa Ana River Streetcar Bridge and Westminster Bridge are complete. OCTA and Siemens conducted the First Article Inspection of the carshell for the first vehicle in production.



# TRANSIT

On October 28, 2019, the Board approved an amendment to HNTB for additional design support services for the OC Streetcar. On November 25, 2019, the Board approved contract change order no. 4.1 to Walsh Construction Company II, LLC, for work to address utility conflicts for the construction of the OC Streetcar project. On December 3, 2019, OCTA and FTA conducted its quarterly meeting to discuss project status and report on the Project schedule and cost estimate.

Work continues to progress on other key OC Streetcar activities, including reviewing the Operations and Maintenance Request for Proposals submissions, coordination with third parties on utility relocation, public outreach and continued coordination with the FTA.

**Project:** Bus and Station Van Extension Projects

**Status:** Service Ongoing for Anaheim Canyon Metrolink Bus Connection

**Contact:** Joseph Alcock, Planning • (714) 560-5372

**Summary:** Bus and Station Van Extension projects help enhance the frequency of service in the Metrolink corridor by linking communities within the central core of Orange County to commuter rail. To date, the Board has approved one round of funding for bus and van extension projects, totaling over \$730,000. One project located within the City of Anaheim and three proposals within the City of Lake Forest were approved for funding by the Board on July 23, 2012. Currently, the Anaheim project is in service and the Lake Forest projects have been canceled. The Anaheim Canyon Metrolink Station Bus Connection began service in February 2013 and is anticipated to continue providing service between the station and the Anaheim Resort area through 2020 when the grant expires. In anticipation of the grant expiration, the city applied for Project V funding to continue this service.

## METROLINK GATEWAYS ▼

**Status:** PROJECT COMPLETE

**Contact:** Jennifer Bergener, Rail • (714) 560-5462



PROJECT T

**Summary:** This project constructed the Anaheim Regional Transportation Intermodal Center (ARTIC) located at 2626 East Katella Avenue in the City of Anaheim. In addition to providing transit connections for OCTA bus service, Metrolink and Amtrak service, shuttle and charter bus service, taxis, bikes, and other public and private transportation services, ARTIC also accommodates future high-speed rail trains. The City of Anaheim, which led the construction effort, opened the facility to rail and bus service on December 6, 2014. A ribbon-cutting ceremony was held on December 8, 2014, with a grand opening celebration hosted on December 13, 2014. This facility replaced the former Anaheim Metrolink Station that was located on the opposite side of the freeway in the Los Angeles Angels of Anaheim Stadium parking lot.



TRANSIT

**EXPAND MOBILITY CHOICES FOR SENIORS AND PERSONS WITH DISABILITIES** ▾

Project U expands mobility choices for seniors and persons with disabilities, and includes the SMP, the SNEMT Program, and the Fare Stabilization Program. Since inception, approximately \$73.7<sup>9</sup> million in Project U funding has been provided under M2.

**Project:** Senior Mobility Program

PROJECT U

**Status:** Ongoing

**Contact:** Beth McCormick, Transit • (714) 560-5964

**Summary:** This program provides one percent of net M2 revenues to continue and expand local community transportation service for seniors under the SMP. According to the SMP Funding and Policy Guidelines, M2 revenue is allocated to local jurisdictions proportionally, relative to the total county’s senior population, by the residents age 60 and above multiplied by available revenues. Remaining unallocated funds are distributed to the M2 Project U Fare Stabilization Program.

Since inception, approximately \$21.68 million<sup>8</sup> and 2,361,000 boardings have been provided for seniors traveling to medical appointments, nutrition programs, shopping destinations, and senior and community center activities. This quarter, approximately \$506,000 was paid out to the 31 participating cities.

**Project:** Senior Non-emergency Medical Transportation Program

**Status:** Ongoing

**Contact:** Beth McCormick, Transit • (714) 560-5964

**Summary:** This program provides one percent of net M2 revenues to supplement existing county-wide senior non-emergency medical transportation services. Since inception, more than \$23.4 million and 919,554 SNEMT boardings have been provided. This quarter, approximately \$582,000 in SNEMT funding was paid<sup>9</sup> to the County of Orange.

<sup>8</sup>Only includes disbursed funds. On May 13, 2019, the Board determined that the City of Santa Ana and the City of Stanton ineligible to receive M2 revenues. Disbursement of M2 funds have been suspended until the cities achieve compliance and the Board reconsiders the matter by May 2020.



# TRANSIT

**Project:** Fare Stabilization Program

**Status:** Ongoing

**Contact:** Sean Murdock, Finance • (714) 560-5685

**Summary:** Between years 2011-2015, one percent of net M2 revenues was dedicated to stabilizing fares and provide fare discounts for bus services and specialized ACCESS services for seniors and persons with disabilities. Effective January 28, 2016, an amendment to the M2 Ordinance No. 3, adjusted this amount to 1.47 percent of net M2 revenues to be dedicated to the Fare Stabilization Program.

Approximately \$855,000<sup>9</sup> in revenue was allocated this quarter to support the Fare Stabilization Program. The amount of funding utilized each quarter varies based on ridership. During the quarter, based on 3,600,000 program-related boardings recorded on fixed route and ACCESS services, approximately \$995,000 was utilized. Since inception of the program, more than \$30 million and 116 million program-related boardings have been provided.

## COMMUNITY BASED TRANSIT/CIRCULATORS ▼

**Status:** Service Updates; Fourth Call for Projects Underway

PROJECT V

**Contact:** Joseph Alcock, Planning • (714) 560-5372

**Summary:** This program provides funding for local jurisdictions to develop local bus transit services such as community-based circulators and shuttles that complement regional bus and rail services and meet needs in areas not adequately served by regional transit. To date, through a competitive process, OCTA has provided three rounds of funding (June 2013, June 2016, and June 2018) which have awarded 29 projects and 7 planning studies totaling approximately \$43 million. Out of the transit circulator projects: 20 are currently active; eight have been cancelled (primarily due to low ridership); and one has been completed.

In March 2019, OCTA requested letters of interest for a future round of Project V funding. Ten responses from eligible local agencies were received and staff reported these findings to the Board in August 2019. At that meeting, the Board directed staff to develop and evaluate potential revisions for the Project V Comprehensive Transportation Funding Programs Guidelines. Approval of these revisions as well as a request to authorize a fourth Project V call for approximately \$9 million was authorized by the Board on October 14, 2019.

OCTA receives ridership reports from local agencies on a regular basis to monitor the success of these services against performance measures adopted by the Board. Currently, most of these services are generally meeting their required performance standards. The most recent Project V Ridership report was presented to the Transit Committee on August 8 and the Board on August 12, 2019. The next Project V Ridership report is scheduled for early 2020. Lessons learned from the success of implemented services are incorporated into recommendations for future funding guidelines and programming recommendations.

<sup>9</sup>Payments are made every other month (January, March, May, July, September, and November). July payments are based on June accruals, and therefore counted as June payments. The amount totaled for one fiscal year quarter either covers one or two payments, depending on the months that fall within that quarter.



## TRANSIT

### SAFE TRANSIT STOPS ▼

### PROJECT W

**Status:** City-Initiated Improvements Underway or Complete

**Contact:** Joseph Alcock, Planning • (714) 560-5372

**Summary:** This program provides funding for passenger amenities at the 100 busiest transit stops across Orange County. Stop improvements are designed to ease transfers between bus lines and provide passenger amenities such as installation of bus benches or seating, shelters, lighting, and other passenger related amenities.

In 2014, the Board approved the first round of funding in the amount of \$1,205,666 to support 51 city-initiated improvements and \$370,000 for OCTA-initiated improvements. The City of Anaheim postponed development of eight stops and the OCTA initiated improvements were funded through another grant source and the funds were de-allocated and returned to the program in June 2019. Improvements funded through the first effort at all 43 stops are now complete.

In October 2018, the Board authorized a second Project W allocation process; providing up to \$3 million (in total) to eligible agencies to support bus stop amenity improvements. Eligible agencies were able to receive between \$20,000 to \$35,000 (per identified bus stop based on ridership). On June 13, 2019, funding recommendations were approved by the Board providing just under \$1 million to support improvements at 36 locations within the seven<sup>10</sup> eligible agencies and OCTA.

<sup>10</sup> The City of Santa Ana (City) submitted 36 Project W funding request applications. However, on May 13, 2019, the Board determined the City ineligible to receive M2 revenues, due to failure to meet maintenance of effort requirements and therefore these applications were not funded.



ENVIRONMENTAL

## CLEAN UP HIGHWAY AND STREET RUNOFF THAT POLLUTES BEACHES ▾

**Project:** Environmental Cleanup Program

**Status:** Ongoing

PROJECT X

**Contact:** Dan Phu, Planning • (714) 560-5907

**Summary:** This program implements street and highway-related water quality improvement programs and projects that assist agencies countywide with federal Clean Water Act standards for urban runoff. It is intended to augment, not replace existing transportation-related water quality expenditures and to emphasize high-impact capital improvements over local operations and maintenance costs. The ECAC is charged with making recommendations to the Board on the allocation of funds for the ECP. These funds are allocated on a countywide, competitive basis to assist agencies in meeting the Clean Water Act standards for controlling transportation-related pollution.

Project X is composed of a two-tiered funding process focusing on early priorities (Tier 1), and a second program designed to prepare for more comprehensive capital investments (Tier 2). To date, there have been nine rounds of funding under the Tier 1 grants program. A total of 177 projects, amounting to more than \$24 million, have been awarded by the Board since 2011. There have been two rounds of funding under the Tier 2 grants program. A total of 22 projects in the amount of \$27.89 million have been awarded by the Board since 2013. To date, all Orange County cities plus the County of Orange have received funding under this program. A tenth Tier 1 call for projects is anticipated to be released in spring 2020 with funding recommendations anticipated by late summer. Staff anticipates the next Tier 2 call in 2021, dependent on projected cash flow and local jurisdictions' interest in potential viable Tier 2 projects.

Staff estimates that over 33 million gallons of trash has been captured as a result of the installation of Tier 1 devices since the inception of the Tier 1 Program in 2011. This is equivalent to over 50 Olympic size swimming pools. Over time, the volume of trash captured is expected to increase. It is estimated that the funded Tier 2 projects, once fully functional, will have an annual groundwater recharge potential of approximately 157 million gallons of water from infiltration or through pumped and treated recharge facilities.



ENVIRONMENTAL

## FREEWAY MITIGATION ▼

**Project:** Environmental Mitigation Program

**Status:** Biological Permits Issued and Conservation Plan in Place

**Contact:** Dan Phu, Planning • (714) 560-5907

**Summary:** In June 2017, the United States Fish and Wildlife Service, and the California Department of Fish and Wildlife (Wildlife Agencies) finalized the issuance of their respective biological opinion, findings, and associated permits, as well as signed the Conservation Plan Implementing Agreement. Receipt of these permits represent the culmination of years of collaboration and support by the Board, environmental community, and Wildlife Agencies. As a result, the environmental process will be streamlined, allowing OCTA to move forward with the M2 freeway projects (as described in the Conservation Plan) with little additional coordination from the Wildlife Agencies. The OCTA Conservation Plan is unique as it is only the second state/federal conservation plan approved in Orange County.

The Conservation Plan also includes a streamlined process for coordination for streambed alteration agreements for portions of freeway projects that cross through streams and riverbeds. In 2017, the United States Army Corps of Engineers (Corps) issued a programmatic permit to OCTA and Caltrans (as owner/operator of the state highway system). The State Board provided a letter to OCTA in 2018, which further secured assurances related to advanced mitigation and freeway project permit issuance. These efforts are the result of years of collaboration between OCTA, the Corps, and State Board, and constitute another groundbreaking milestone for the M2 Environmental Mitigation Program.

The program is proceeding as planned, with seven properties (Preserves) acquired (1,300 acres), and 12 restoration projects approved for funding by the Board, totaling approximately 350 acres. The restoration project plans have been approved by the wildlife agencies and are currently at various stages of implementation. The Board authorized \$42 million (inclusive of setting aside funds for long-term land management) for property acquisitions, \$10.5 million to fund habitat restoration activities, and \$2.5 million for conservation plan development and program support, for a total of approximately \$55 million.

As part of the Conservation Plan requirement, an endowment has been established to pay for the long-term management of the Preserves. It is estimated that it will take approximately 12 years to fully fund the endowment with deposits annually. Approximately \$2.9 million will be deposited annually. The most recent deposit was made in November 2019. Staff will continue to oversee and provide endowment updates to the Finance and Administration and the Environmental Oversight Committee (EOC) on a regular basis.

Resource management plans (RMPs) for the Preserves were finalized in 2018. These RMPs guide the management of the Preserves as outlined within the Conservation Plan. Staff will continue to oversee and manage the Preserves until a long-term manager(s) is established.

In consultation with the local fire authority, staff has begun to work with a consultant to draft fire management plans (Plans) for the seven Preserves. The Plans will provide guidelines for decision-making at all stages including fire prevention, pre-fire vegetation management, suppression activities, and post-fire responses that are compatible





## ENVIRONMENTAL

with conservation and stewardship responsibilities. These Plans are a requirement of the Conservation Plan and will require approval by the Wildlife Agencies. The Plans are anticipated to be complete in 2020.

The first Conservation Plan Annual Report was presented to the EOC in July 2019. This report includes the tracking of impacts associated with covered freeway improvement projects, other management and monitoring activities on Preserves, status and activities, progress of the restoration projects, plan administration, and public outreach activities. In summary, the Annual Report documents that OCTA's activities through 2018 are in compliance and on target with the Conservation Plan commitments. OCTA will continue with its' efforts to complete the required objectives in a timely manner. This Annual Report has been reviewed and approved by the Wildlife Agencies. The Annual Report is available for public review at [www.PreservingOurLegacy.org](http://www.PreservingOurLegacy.org).

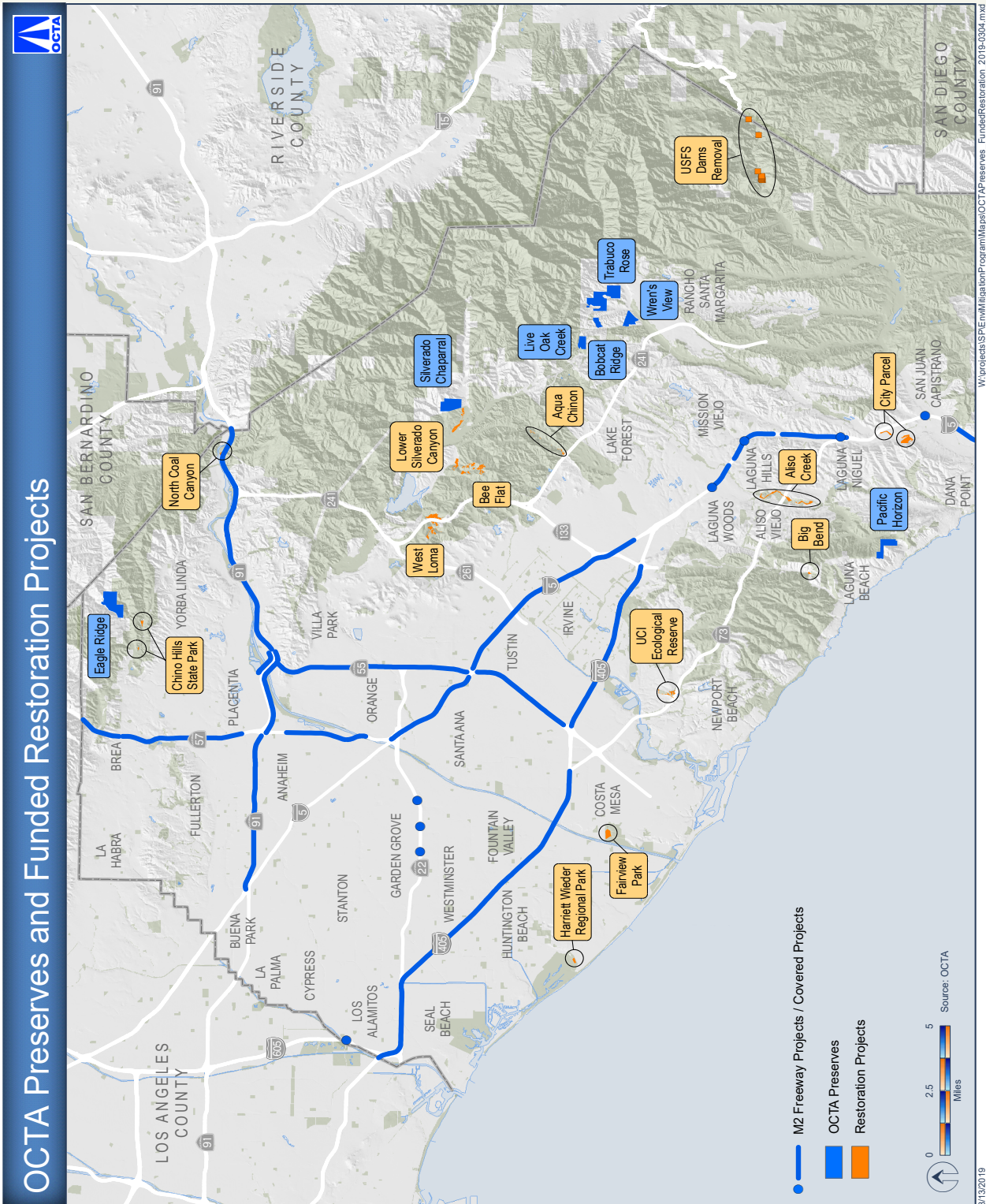
To date, multiple freeway projects have utilized the Conservation Plan and/or the Clean Water Act streamlined permitting process. Some of the projects that benefit from these mechanisms include: Project K (I-405 Improvement Project from SR-73 to I-605), Project C (I-5 from SR-73 to El Toro Road), and Project M (I-605 and Katella Interchange Project). If these mechanisms were not in place, it is anticipated that these projects would incur an additional \$700,000 to \$2.5 million (in 2018 dollars) in mitigation related costs and unknown schedule risks. Furthermore, a strong partnership has been forged through collaboration with the environmental community.

OCTA provides docent led hikes and equestrian rides in the Preserves. A list of scheduled 2019 wilderness Preserve tours is also available on the M2 website at [www.PreservingOurLegacy.org](http://www.PreservingOurLegacy.org).

As part of the safeguards in place for the M2 Program, a 12-member EOC makes recommendations on the allocation of environmental freeway mitigation funds and monitors the implementation of the Conservation Plan between OCTA and state and federal Wildlife Agencies. The EOC has led efforts with policy recommendations to the Board and has operated in an open and transparent manner that has garnered the trust of stakeholders, ranging from the environmental community to the recreational community to Orange County citizens.

See map of Preserves and funded restoration properties on the following page.

# ENVIRONMENTAL





## PROGRAM MANAGEMENT

### PROGRAM MANAGEMENT OFFICE ▼

**Contact:** Tami Warren, PMO Manager • (714) 560-5590

The M2 PMO provides inter-divisional coordination for all M-related projects and programs. To ensure agency-wide compliance, the PMO holds a bi-monthly committee meeting comprised of executive directors and key staff from each of the divisions, who meet to review significant issues and activities within the M2 programs. This quarter, the focus of the PMO has been on several major items, including the following.

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#### Market Conditions Forecast and Risk Analysis

In September 2017, the Board was presented with a Next 10 Delivery Plan Market Conditions Forecast and Risk Analysis Report conducted by Dr. Wallace Walrod and Dr. Marlon Boarnet. The consultant's analysis identified a strong potential for OCTA to experience an increasing cost environment during the Next 10 delivery years. This, coupled with a reduction in revenue, could present the potential for significant challenges in the delivery of M2 and Next 10.

Given this analysis, the Board directed staff to continue to work with the consultant to monitor and track key early warning indicators and provide the Board with updates in a timeline consistent with updates on the M2 sales tax revenue forecast. With a rapidly changing construction market, staff looked to our contracted local economists for insights to better anticipate cost implications to our freeway program delivery. The consultant team continues to analyze trends in material costs, labor costs, and general economic conditions to determine a range of potential cost impacts.

This quarter, the consultant team worked presented to the Board on October 28, 2019. The results of the fall analysis concluded that OCTA may experience a cost increase of between two percent and six percent during the 2020 through 2022 time period of construction activity. To reduce the potential risk of cost pressure and project delivery slowdowns due to unanticipated cost increases, staff incorporated information from this analysis into the M2 cashflow for the 2019 updated Next 10 Delivery Plan.

#### Next 10 Delivery Plan

On November 14, 2016, the Board adopted the Next 10 Delivery Plan (Next 10) providing staff guidance on the delivery of M2 projects and programs between 2017 and 2026. The PMO monitors the progress on the ten deliverables identified in the Plan and reports on them in this report. See pages [3-6](#) for the status on deliverables.

Annually, OCTA reviews the M2 program assumptions and updates the cash flows and Next 10 assumptions as needed based on changes to the revenue forecast and project cost and schedule updates. The 2019 review incorporated an updated forecast of \$13.4 billion (presented to the Board on October 28, 2019). The updated 2019 Next 10 Plan was presented to the Board at the November 11, 2019 meeting. The 2019 updated Next 10 identified five projects to be advanced through construction: I-605/ Katella Interchange (Project M), SR-57 Northbound from Orangewood Avenue to Katella Avenue (Project G), I-5 between I-405 and Yale Avenue



## PROGRAM MANAGEMENT

(Project B), I-5 between Yale Avenue and SR-55 (Project B) and SR-55 between I-5 and SR-91 (Project F). The result of the Next 10 Plan review demonstrated a delivery plan that remains solvent.

### M2 Performance Assessment

The M2 ordinance includes a requirement for a performance assessment to be conducted at least once every three years to evaluate OCTA's efficiency and effectiveness in delivery of M2 as promised to the voters. Three prior performance assessments have been completed covering fiscal years FY 2006-07 through FY 2008-09, FY 2009-10 through FY 2011-12, and FY 2012-13 through FY 2014-15. A fourth assessment covering the period between July 1, 2015 and June 30, 2018 along with findings and recommendations for enhancements were presented to the Board on March 11, 2019. Staff has implemented all eight recommendations for enhancements and will provide an update to the Board in January 2020.

### M2 Ordinance Tracking Matrix

The M2 Ordinance and Transportation Investment Plan (Ordinance No. 3) includes numerous requirements that staff must follow in order to keep the promise to Orange County voters through the passage of M2. The PMO annually updates the M2 Ordinance Tracking Matrix to verify that OCTA is in compliance with all requirements detailed in Ordinance No. 3. The tracking matrix update for 2019 is underway and will be completed by early 2020.

### PMO M2 Tracking Tools

The PMO has developed several tracking tools to assist in reporting consistency and increased transparency of the M2 program. See the following for a brief explanation of PMO M2 tracking tools and their current status:

#### Local Jurisdiction Fact Sheets

Fact Sheets have been created for the County of Orange and each of Orange County's 34 cities. The Fact Sheets provide data on transportation and transit projects (funded through Measure M, state, and federal grants) in a format which emphasizes key points concisely on a single printed page. The City Fact Sheets are utilized when speaking with the jurisdictions to provide a summary overview of how OCTA has provided the local agency with funding (M2 and other) and transportation improvements. During the quarter, staff began updating the City Fact Sheets to include the 2019 Tier 1 ECP projects approved by the Board on September 9, 2019, the September 2019 semi-annual review of CTFP projects approved by the Board on December 9, 2019 and programming updates. Updated City Fact Sheets will be completed next quarter.

#### M2 Financial Picture

The M2 Financial Picture report provides a summary of each M2 project's total expenditures to date (external and internal), programmed funding, current estimate at completion per the latest quarter, and M2 program cash



## PROGRAM MANAGEMENT

flow assumptions through 2041. This document allows the PMO to appropriately track and answer questions regarding the M2 investment. The FY 2019-20 first quarter Financial Picture was updated in November 2019.

### Next 10 Tracking

The Next 10 Tracking report compares the current Next 10 Delivery Plan cash flow assumptions with the latest Project Controls quarterly assumptions. It highlights variances for a project's estimate at completion, project costs, and contingency utilization. The purpose of the Next 10 Tracking report is to highlight the impact to the bottom line when variances occur from the current plan and each quarterly update. The FY 2019-20 first quarter Next 10 Tracking report was updated in November 2019.

### Engineer's Estimate versus Bids Tracking

The Estimate versus Bid Tracking process allows the PMO to monitor the bidding environment for capital projects in the M2 Program. Capital projects that were planned for and began construction early in the M2 program have shown cost savings due to a favorable bidding environment during the recession. For these earlier M2 projects, savings can be primarily traced back to construction costs.

More recent market conditions analyses have indicated that OCTA will experience an increasing cost environment related to increased demand for construction services, lack of labor resources, and increased construction material costs. It should be noted that the engineer's estimate is based on a number of factors – such as bidding history and historical and current market rates (materials, labor, equipment, etc.) – and adjusted accordingly for the project's conditions. Because the estimate uses prior information, there may be a lag between an uptick or downtick in the market.

During the quarter, bids were opened on October 15, 2019 for the construction contract for Project C (I-5 between SR-73 and Oso Parkway, including Avery Parkway Interchange). The apparent low bid was at 3.27 percent under the engineer's estimate. Caltrans reviewed the bid for responsiveness and made a determination on December 20, 2019 to award it to the lowest bidder. Staff has updated the tracking spreadsheet with this bid result.

### **M2 Administrative Safeguards**

M2 includes a one percent cap on administrative expenses for salaries and benefits of OCTA administrative staff on an annual basis. In a legal opinion on M2, it was determined that in years where administrative salaries and benefits are above one percent, only one percent can be allocated with the difference borrowed from other, non-M2 fund sources. Conversely, in years where administrative salaries and benefits are below one percent, OCTA can still allocate the full one percent for administrative salaries and benefits but may use the unused portion to repay the amount borrowed from prior years in which administrative salaries and benefits were above one percent.

Based on the original M2 revenue projections, OCTA expected to receive \$24.3 billion in M2 funds, with one percent of total revenues available to fund administrative salaries and benefits over the life of the program. As M2 revenue projections declined (currently \$13.4 billion or 45 percent lower) as a result of economic conditions, the funds

## PROGRAM MANAGEMENT

available to support administrative salaries and benefits have also declined from the original expectations. While revenue has declined, the administrative effort needed to deliver M2 remains the same. Additionally, the initiation of the Early Action Plan (EAP) in 2007 required administrative functions four years prior to revenue collection. While the EAP resulted in project savings and significant acceleration of the program, administrative functions were required during this time with associated administrative costs.

As a result of the aforementioned factors, OCTA has incurred higher than one percent administrative costs. OCTA currently has Board approval to use funds from the Orange County Unified Transportation Trust (OCUTT) fund to cover costs above the one percent, with the understanding that those funds will be repaid with interest in future years that OCTA administrative costs fall below the one percent cap. As of June 30, 2012, OCTA had borrowed approximately \$5.2 million from OCUTT. Over the last few years, OCTA has experienced under-runs in the one percent administration cap and has made payments to OCUTT to reduce the outstanding balance. As of the most recent September 2019 Taxpayer Oversight Committee Report, the outstanding principal balance was \$0.3 million.

Staff meets quarterly to review all labor costs to ensure proper cost allocation under M2. After the quarter ended, staff met on October 31, 2019 to review labor reports for this quarter to ensure costs attributed to the one percent cap were accurately reported and there were no misplaced project related costs, as well as to ensure project costs were applied to the correct projects.

### Taxpayer Oversight Committee

The M2 Ordinance requires a Taxpayer Oversight Committee (TOC) oversee the implementation of the M2 plan and ensure compliance with all requirements of Measure M2 Ordinance No. 3. With the exception of the elected Auditor/Controller of Orange County who is identified as the chair in the Ordinance, all other members are not elected or appointed officials. Members are recruited and screened for expertise and experience independently by the Orange County Grand Jurors Association and are selected from the qualified pool by lottery. The TOC meets every other month. The TOC upholds the integrity of the measure by monitoring the use of M2 funds and ensuring compliance. The responsibilities of the 11-member Measure M2 TOC are to:

- Ensure all transportation revenue collected from M2 is spent on the projects approved by the voters as part of the plan
- Ratify any changes in the plan and recommend any major changes go back to the voters for approval
- Participate in ensuring that all jurisdictions in Orange County conform with the requirements of M2 before receipt of any tax monies for local projects
- Hold annual public meetings regarding the expenditure and status of funds generated by M2
- Review independent audits of issues regarding the plan and performance of the Orange County local Transportation Authority regarding the expenditure of M2 sales tax monies
- Annually certify whether M2 funds have been spent in compliance with the plan.



## PROGRAM MANAGEMENT

The TOC will meet next on February 11th, 2020. The December 10th, 2019 meeting was cancelled. Taxpayer Oversight Committee vacancies for 2020 will occur in the 2nd and 3rd Supervisorial Districts. The Grand Jurors Association of Orange County will select finalists after an extensive recruitment effort takes place in early spring. Prior to the next meeting OCTA CEO, Darrell Johnson, and Director of Marketing and Public Outreach, Alice Rogan, will be meeting with the newly appointed Auditor Controller, Frank Davies, to provide an orientation for the TOC and Measure M.

Two subcommittees assist the TOC with their safeguard responsibilities: the Annual Eligibility Review (AER) Subcommittee and the Audit Subcommittee. The AER Subcommittee meets a few times per year, as needed, to ensure local jurisdictions have submitted the following documents in order to be deemed eligible to receive M2 funding: Congestion Management Program, Mitigation Fee Program, Local Traffic Signal Synchronization Plan, Pavement Management Plan, and an Expenditure Report. The Audit Subcommittee meets bi-monthly and is responsible for reviewing the quarterly M2 Revenue and Expenditure Reports and the Annual M2 Audit, as well as any other items related to M2 audits.

## M2 FINANCING AND SCHEDULE OF FUNDING ▼

**Contact:** Sam Kaur, Revenue and Grants • (714) 560-5685

### Revenue Forecast and Collection

OCTA contracts with three universities (Chapman University; University of California, Los Angeles; and California State University, Fullerton) to provide a long-range forecast of taxable sales to forecast M2 revenues for purposes of planning projects and program expenditures.

In the past, OCTA averaged the three university taxable sales projections to develop a long-range forecast of M2 taxable sales. On March 28, 2016, the Board approved a new sales tax forecast methodology as part of the FY 2016-17 budget development process. This methodology includes a more conservative approach by utilizing MuniServices, Inc forecast for the first five years and the three-university average for the remaining years.

Revenue forecast information is updated quarterly based on the actual revenues received for the previous quarter. As required by law, OCTA pays the California Department of Tax and Fee Administration (CDTFA) a fee to collect the sales tax. The M2 Ordinance estimated this fee to be 1.5 percent of the revenues collected over the life of the program.



## PROGRAM MANAGEMENT

### Current Forecast

Based on long-term forecasts updated in October 2019 , OCTA staff forecasts total nominal sales tax collections over the life of M2 to be approximately \$13.4 billion. Original projections in 2005 during the development of M2 estimated total nominal M2 sales tax collections at \$24.3 billion. This is approximately \$10.9 billion (45 percent) less than the original 2005 projection.

OCTA's assumed growth rate for FY 2019 budget was 3.7 percent or gross annual sales tax of \$332 million. FY 2019 gross actuals were closely in alignment with the budget closing the year at approximately \$332 million. For FY 2020, the assumed budget growth rate is 2.5 percent. Based on actuals to date and information provided by Muni Services Inc., the actual growth rate is anticipated to be in alignment with the budget or higher by the end of the fiscal year. The 2020 updated forecast is anticipated to be brought to the Board in the fall 2020.



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## FINANCING

### Schedule of Revenues, Expenditures and Changes in Fund Balance as of December 31, 2019 (Unaudited) Schedule 1

(\$ in thousands)	Quarter Ended Dec 31, 2019	Year to Date Dec 31, 2019 (A)	Period from Inception to Dec 31, 2019 (B)
<b>Revenues:</b>			
Sales taxes	\$ 86,119	\$ 164,338	\$ 2,578,067
Other agencies' share of Measure M2 costs:			
Project related	27,102	52,247	720,032
Non-project related	-	-	454
Interest:			
Operating:			
Project related	458	298	1,526
Non-project related	4,084	9,668	62,024
Bond proceeds	2,523	5,152	66,639
Debt service	54	165	978
Commercial paper	-	-	393
Right-of-way leases	29	69	1,010
Proceeds on sale of assets held for resale	-	-	12,201
Donated assets held for resale			
Project related	-	-	2,071
Miscellaneous:			
Project related	-	17	287
Non-project related	-	-	100
Total revenues	<u>120,369</u>	<u>231,954</u>	<u>3,445,782</u>
<b>Expenditures:</b>			
Supplies and services:			
Sales tax administration fees	956	1,957	28,249
Professional services:			
Project related	7,596	9,855	391,657
Non-project related	886	1,498	28,283
Administration costs:			
Project related	2,519	5,035	78,304
Non-project related:			
Salaries and Benefits	643	1,286	26,393
Other	1,326	2,653	44,668
Other:			
Project related	78	82	5,109
Non-project related	187	237	5,152
Payments to local agencies:			
Project related	20,926	33,336	979,193
Capital outlay:			
Project related	69,916	84,150	1,110,133
Non-project related	-	-	31
Debt service:			
Principal payments on long-term debt	-	-	50,500
Interest on long-term debt and commercial paper	6	17,524	196,138
Total expenditures	<u>105,039</u>	<u>157,614</u>	<u>2,943,811</u>
Excess of revenues over expenditures	<u>15,330</u>	<u>74,340</u>	<u>501,972</u>
<b>Other financing sources (uses):</b>			
Transfers out:			
Project related	(16,837)	(22,182)	(226,861)
Transfers in:			
Project related	14,460	14,460	172,930
Bond proceeds	-	-	804,625
Payment to refunded bond escrow agent	-	-	(45,062)
Total other financing sources (uses)	<u>(2,377)</u>	<u>(7,722)</u>	<u>705,632</u>
Excess of revenues over expenditures and other sources	<u>\$ 12,953</u>	<u>\$ 66,618</u>	<u>\$ 1,207,604</u>

# FINANCING

## Schedule of Revenues, Expenditures and Changes in Fund Balance as of December 31, 2019 (Unaudited) Schedule 2

(\$ in thousands)	Quarter Ended Dec 31, 2019 (actual)	Year to Date Dec 31, 2019 (actual)	Period from Inception through Dec 31, 2019 (actual)	Period from January 1, 2020 through March 31, 2041 (forecast)	Total
		(C.1)	(D.1)	(E.1)	(F.1)
<b>Revenues:</b>					
Sales taxes	\$ 86,119	\$ 164,338	\$ 2,578,067	\$ 10,794,597	\$ 13,372,664
Operating interest	4,084	9,668	62,024	292,796	354,820
Subtotal	<u>90,203</u>	<u>174,006</u>	<u>2,640,091</u>	<u>11,087,393</u>	<u>13,727,484</u>
Other agencies share of M2 costs	-	-	454	-	454
Miscellaneous	-	-	100	-	100
Total revenues	<u>90,203</u>	<u>174,006</u>	<u>2,640,645</u>	<u>11,087,393</u>	<u>13,728,038</u>
<b>Administrative expenditures:</b>					
Sales tax administration fees	956	1,957	28,249	119,389	147,638
Professional services	886	1,498	24,508	102,326	126,834
<b>Administration costs:</b>					
Salaries and Benefits	643	1,286	26,393	111,544	137,937
Other	1,326	2,653	44,668	187,748	232,416
Other	187	218	2,132	8,425	10,557
Capital outlay	-	-	31	-	31
Environmental cleanup	641	1,024	42,889	215,857	258,746
Total expenditures	<u>4,639</u>	<u>8,636</u>	<u>168,870</u>	<u>745,289</u>	<u>914,159</u>
Net revenues	<u>\$ 85,564</u>	<u>\$ 165,370</u>	<u>\$ 2,471,775</u>	<u>\$ 10,342,104</u>	<u>\$ 12,813,879</u>
<b>Bond revenues:</b>					
Proceeds from issuance of bonds	\$ -	\$ -	\$ 804,625	\$ 298,950	\$ 1,103,575
Interest revenue from bond proceeds	2,523	5,152	66,639	83,659	150,298
Interest revenue from debt service funds	54	165	978	4,650	5,628
Interest revenue from commercial paper	-	-	393	-	393
Total bond revenues	<u>2,577</u>	<u>5,317</u>	<u>872,635</u>	<u>387,259</u>	<u>1,259,894</u>
<b>Financing expenditures and uses:</b>					
Professional services	-	-	3,775	1,046	4,821
Payment to refunded bond escrow	-	-	45,062	-	45,062
Bond debt principal	-	-	50,500	935,220	985,720
Bond debt and other interest expense	6	17,524	196,138	599,405	795,543
Commercial paper interest expense	-	-	-	-	-
Other	-	19	3,020	-	3,020
Total financing expenditures and uses	<u>6</u>	<u>17,543</u>	<u>298,495</u>	<u>1,535,671</u>	<u>1,834,166</u>
Net bond revenues (debt service)	<u>\$ 2,571</u>	<u>\$ (12,226)</u>	<u>\$ 574,140</u>	<u>\$ (1,148,412)</u>	<u>\$ (574,272)</u>

# FINANCING

## Schedule of Revenues, Expenditures and Changes in Fund Balance as of December 31, 2019(Unaudited) Schedule 3

Project	Description	Net Revenues through Dec 31, 2019	Total Net Revenues
(G)		(H)	(I)
(\$ in thousands)			
<b>Freeways (43% of Net Revenues)</b>			
A	I-5 Santa Ana Freeway Interchange Improvements	\$ 97,426	\$ 505,061
B	I-5 Santa Ana/SR-55 to El Toro	62,228	322,594
C	I-5 San Diego/South of El Toro	129,971	673,772
D	I-5 Santa Ana/San Diego Interchange Upgrades	53,480	277,246
E	SR-22 Garden Grove Freeway Access Improvements	24,876	128,951
F	SR-55 Costa Mesa Freeway Improvements	75,867	393,303
G	SR-57 Orange Freeway Improvements	53,625	277,997
H	SR-91 Improvements from I-5 to SR-57	29,020	150,444
I	SR-91 Improvements from SR-57 to SR-55	86,335	447,570
J	SR-91 Improvements from SR-55 to County Line	73,007	378,473
K	I-405 Improvements between I-605 to SR-55	222,378	1,152,828
L	I-405 Improvements between SR-55 to I-5	66,270	343,549
M	I-605 Freeway Access Improvements	4,146	21,492
N	All Freeway Service Patrol	31,093	161,190
	Freeway Mitigation	53,143	275,498
	Subtotal Projects	1,062,865	5,509,968
	Net (Bond Revenue)/Debt Service	-	-
	<b>Total Freeways</b>	<b>\$ 1,062,865</b>	<b>\$ 5,509,968</b>
	%		

### Street and Roads Projects (32% of Net Revenues)

O	Regional Capacity Program	\$ 247,180	\$ 1,281,404
P	Regional Traffic Signal Synchronization Program	98,868	512,539
Q	Local Fair Share Program	444,920	2,306,498
	Subtotal Projects	790,968	4,100,441
	Net (Bond Revenue)/Debt Service	-	-

# FINANCING

## Schedule of Revenues, Expenditures and Changes in Fund Balance as of December 31, 2019 (Unaudited) Schedule 3

Expenditures through Dec 31, 2019 (J)	Reimbursements through Dec 31, 2019 (K)	Net M2 Cost (L)
\$ 8,025	\$ 7,101	\$ 924
9,744	6,515	3,229
163,318	46,759	116,559
2,262	527	1,735
5	-	5
30,399	14,605	15,794
51,298	12,217	39,081
34,855	824	34,031
23,413	22,005	1,408
6,936	5,520	1,416
554,483	114,165	440,318
9,192	6,954	2,238
2,124	16	2,108
5,890	-	5,890
54,048	3,233	50,815
<u>955,992</u>	<u>240,441</u>	<u>715,551</u>
<u>49,388</u>	<u>-</u>	<u>49,388</u>
<u>\$ 1,005,380</u>	<u>\$ 240,441</u>	<u>\$ 764,939</u>
		38.8%
\$ 754,543	\$ 501,300	\$ 253,243
64,391	5,054	59,337
<u>422,953</u>	<u>77</u>	<u>422,876</u>
1,241,887	506,431	735,456
<u>54,856</u>	<u>-</u>	<u>54,856</u>

## FINANCING

**Schedule of Revenues, Expenditures and Changes in Fund Balance as of  
December 31, 2019 (Unaudited)**  
Schedule 3

Project Description	Net Revenues through Dec 31, 2019	Total Net Revenues
(\$ in thousands)		
<b>Transit Projects (25% of Net Revenues)</b>		
High Frequency Metrolink Service	\$ 233,934	\$ 1,277,994
Transit Extensions to Metrolink	218,200	1,131,169
Metrolink Gateways	30,989	65,495
Expand Mobility Choices for Seniors and Persons with Disabilities	79,942	444,323
Community Based Transit/Circulators	49,422	256,210
Safe Transit Stops	5,455	28,279
	<hr/>	<hr/>
Subtotal Projects	617,942	3,203,470
Net (Bond Revenue)/Debt Service	-	-
	<hr/>	<hr/>
<b>Total Transit Projects</b>	<b>\$ 617,942</b>	<b>\$ 3,203,470</b>
%		
<b>Environmental Cleanup (2% of Revenues)</b>		
Clean Up Highway and Street Runoff that Pollutes Beaches	\$ 52,802	\$ 274,550
	<hr/>	<hr/>
Net (Bond Revenue)/Debt Service	-	-
	<hr/>	<hr/>
<b>Total Environmental Cleanup</b>	<b>\$ 52,802</b>	<b>\$ 274,550</b>
%		
<b>Taxpayer Safeguards and Audits</b>		
Collect Sales Taxes (1.5% of Sales Taxes)	\$ 38,671	\$ 200,590
	<hr/>	<hr/>
%		
Oversight and Annual Audits (1% of Revenues)	\$ 26,401	\$ 137,275
	<hr/>	<hr/>
%		

# FINANCING

## Schedule of Revenues, Expenditures and Changes in Fund Balance as of December 31, 2019 (Unaudited) Schedule 3

Expenditures through Dec 31, 2019	Reimbursements through Dec 31, 2019	Net M2 Cost
\$ 290,728	\$ 98,743	\$ 191,985
74,438	2,133	72,305
98,220	60,956	37,264
75,727	88	75,639
10,260	947	9,313
1,117	26	1,091
<u>550,490</u>	<u>162,893</u>	<u>387,597</u>
<u>30,679</u>	<u>-</u>	<u>30,679</u>
<u>\$ 581,169</u>	<u>\$ 162,893</u>	<u>\$ 418,276</u>
		21.2%
<u>\$ 42,889</u>	<u>\$ 292</u>	<u>\$ 42,597</u>
<u>-</u>	<u>-</u>	<u>-</u>
<u>\$ 42,889</u>	<u>\$ 292</u>	<u>\$ 42,597</u>
		1.6%
<u>\$ 28,249</u>	<u>\$ -</u>	<u>\$ 28,249</u>
		1.1%
<u>\$ 26,393</u>	<u>\$ -</u>	<u>\$ 26,393</u>
		1.0%

LOCAL FAIR SHARE

M2 Funds		
ENTITY	2nd Quarter FY 2019-20	FUNDS TO DATE
ALISO VIEJO	\$131,916	\$5,263,918
ANAHEIM	\$557,621	\$44,530,520
BREA	\$186,771	\$7,574,700
BUENA PARK	\$282,459	\$11,835,644
COSTA MESA	\$486,026	\$19,257,843
CYPRESS	\$167,634	\$6,989,998
DANA POINT	\$112,098	\$4,389,730
FOUNTAIN VALLEY	\$200,861	\$8,215,233
FULLERTON	\$422,692	\$17,206,744
GARDEN GROVE	\$482,361	\$19,679,036
HUNTINGTON BEACH	\$642,343	\$25,708,311
IRVINE	\$935,153	\$35,676,177
LAGUNA BEACH	\$82,870	\$3,377,154
LAGUNA HILLS	\$110,319	\$4,510,301
LAGUNA NIGUEL	\$214,806	\$8,816,930
LAGUNA WOODS	\$40,703	\$1,687,048
LA HABRA	\$171,929	\$6,963,893
LAKE FOREST	\$265,073	\$10,463,304



## LOCAL FAIR SHARE

<b>M2 Funds</b>		
<b>ENTITY</b>	<b>2nd Quarter FY 2019-20</b>	<b>FUNDS TO DATE</b>
LA PALMA	\$48,948	\$2,186,693
LOS ALAMITOS	\$42,491	\$1,717,253
MISSION VIEJO	\$301,799	\$12,378,541
NEWPORT BEACH	\$361,389	\$14,549,295
ORANGE	\$538,347	\$21,799,894
PLACENTIA	\$95,395	\$6,172,903
RANCHO SANTA MARGARITA	\$136,935	\$5,606,321
SAN CLEMENTE	\$186,520	\$7,433,240
SAN JUAN CAPISTRANO	\$124,905	\$5,012,738
SANTA ANA	\$0*	\$33,406,560
SEAL BEACH	\$77,875	\$3,321,006
STANTON	\$0*	\$3,605,030
TUSTIN	\$295,839	\$11,823,850
VILLA PARK	\$16,867	\$690,754
WESTMINSTER	\$275,150	\$11,329,479
YORBA LINDA	\$197,808	\$7,947,214
COUNTY UNINCORPORATED	\$636,020	\$24,910,913
<b>TOTAL M2 FUNDS</b>	<b>\$8,829,922</b>	<b>\$416,038,168</b>

\*On May 13, 2019, the Board determined that the City of Santa Ana and the City of Stanton ineligible to receive M2 revenues. Disbursement of M2 funds have been suspended until the cities achieve compliance and the Board reconsiders the matter by May 2020. Below are the M2 Funds withheld from the ineligible cities.

<b>ENTITY</b>	<b>2nd Quarter FY 2019-20</b>	<b>SUSPENDED FUNDS TO DATE</b>
SANTA ANA	\$905,287	\$3,405,008
STANTON	\$95,679	\$360,365
<b>TOTAL M2 FUNDS</b>	<b>\$1,000,966</b>	<b>\$3,765,373</b>

# CAPITAL ACTION PLAN

Grey = Milestone achieved

Green = Forecast milestone meets or exceeds plan

Yellow = Forecast milestone is one to three months later than plan

Red = Forecast milestone is over three months later than plan

Non-bolded = Planned/Baseline

**Bold = Forecasted/Actual**

Capital Projects	Cost	Schedule			
	Baseline/Forecast	Plan/Forecast			
	(millions)	Begin Environmental	Begin Design	Award Contract	Complete Construction
<b>Freeway Projects:</b>					
I-5, SR-55 to SR-57	\$38.1	Jul-11	Jun-15	Dec-17	Apr-21
Project A	\$41.5	<b>Jun-11</b>	<b>Jun-15</b>	<b>Nov-18</b>	Apr-21
I-5, I-405 to SR-55	TBD	May-14	TBD	TBD	TBD
Project B	TBD	<b>May-14</b>	TBD	TBD	TBD
I-5, Pico to Vista Hermosa	\$113.0	Jun-09	Jun-11	Dec-14	Aug-18
Project C	\$83.5	<b>Jun-09</b>	<b>Jun-11</b>	<b>Dec-14</b>	<b>Aug-18</b>
I-5, Vista Hermosa to Pacific Coast Highway	\$75.6	Jun-09	Jun-11	Dec-13	Mar-17
Project C	\$75.6	<b>Jun-09</b>	<b>Jun-11</b>	<b>Jun-14</b>	<b>Jul-17</b>
I-5, Pacific Coast Highway to San Juan Creek Road	\$70.7	Jun-09	Jun-11	Oct-13	Sep-16
Project C	\$75.5	<b>Jun-09</b>	<b>Jun-11</b>	<b>Dec-13</b>	<b>Jul-18</b>
I-5, I-5/Ortega Interchange	\$90.9	Sep-05	Jan-09	Aug-12	Sep-15
Project D	\$79.8	<b>Sep-05</b>	<b>Jan-09</b>	<b>Aug-12</b>	<b>Jan-16</b>
I-5, SR-73 to Oso Parkway	\$151.9	Sep-11	Mar-15	Dec-18	Jan-24
Project C & D	\$196.1	<b>Oct-11</b>	<b>Mar-15</b>	<b>Dec-19</b>	Mar-25
I-5, Oso Parkway to Alicia Parkway	\$196.2	Sep-11	Nov-14	Jun-18	Nov-23
Project C & D	\$203.1	<b>Oct-11</b>	<b>Nov-14</b>	<b>Mar-19</b>	Nov-23
I-5, Alicia Parkway to El Toro Road	\$133.6	Sep-11	Mar-15	May-19	Jun-23
Project C	\$184.1	<b>Oct-11</b>	<b>Mar-15</b>	Oct-20	Oct-24
I-5, SR-73 to El Toro Road (Landscape)	TBD	N/A	TBD	TBD	TBD
Project C	\$12.4	N/A	Jul-22	Nov-24	Jun-26

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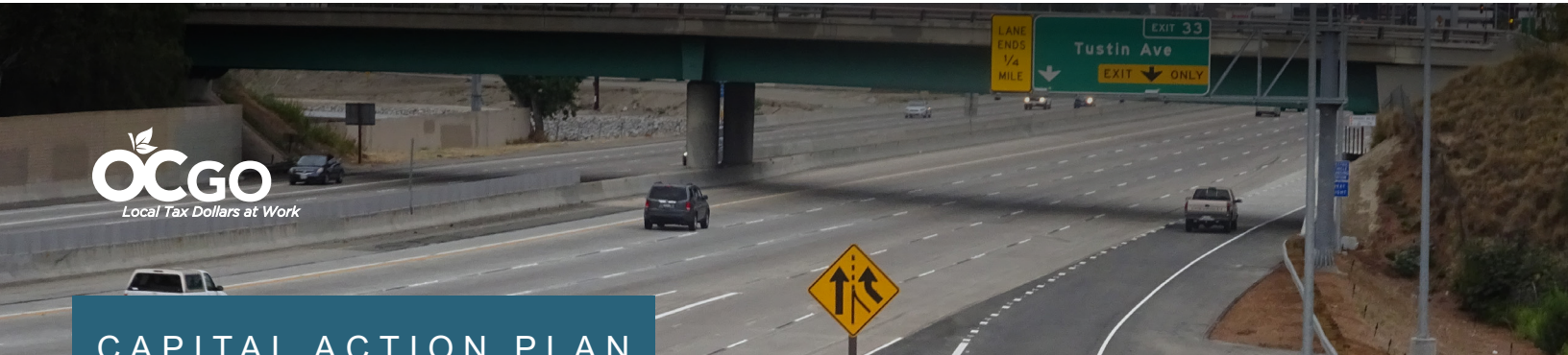
Red = Forecast milestone is over three months later than plan

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Capital Projects	Cost	Schedule			
	Baseline/Forecast	Plan/Forecast			
	(millions)	Begin Environmental	Begin Design	Award Contract	Complete Construction
I-5, I-5/EI Toro Road Interchange (on hold)	TBD	Apr-17	TBD	TBD	TBD
Project D <b>Cost/Schedule Risk</b>	TBD	<b>Apr-17</b>	TBD	TBD	TBD
SR-55, I-405 to I-5	\$410.9	Feb-11	Sep-17	Jul-21	Aug-25
Project F <b>Cost/Schedule Risk</b>	\$410.9	<b>May-11</b>	<b>Sep-17</b>	<b>Jul-21</b>	<b>Aug-25</b>
SR-55, I-5 to SR-91	TBD	Dec-16	TBD	TBD	TBD
Project F	TBD	<b>Dec-16</b>	TBD	TBD	TBD
SR-57 Northbound (NB), Orangewood Avenue to Katella Avenue	TBD	Apr-16	TBD	TBD	TBD
Project G	TBD	<b>Apr-16</b>	TBD	TBD	TBD
SR-57 (NB), Katella Avenue to Lincoln Avenue	\$78.7	Apr-08	Jul-08	Aug-11	Sep-14
Project G	\$38.0	<b>Apr-08</b>	<b>Aug-08</b>	<b>Oct-11</b>	<b>Apr-15</b>
SR-57 (NB), Katella Avenue to Lincoln Avenue (Landscape)	N/A	N/A	N/A	N/A	N/A
Project G	N/A	N/A	<b>May-09</b>	<b>Sep-17</b>	<b>Jun-18</b>
SR-57 (NB), Orangethorpe Avenue to Yorba Linda Boulevard	\$80.2	Aug-05	Feb-08	Oct-10	May-14
Project G	\$52.3	<b>Aug-05</b>	<b>Feb-08</b>	<b>Oct-10</b>	<b>Nov-14</b>
SR-57 (NB), Yorba Linda Boulevard to Lambert Road	\$79.3	Aug-05	Feb-08	Oct-10	Sep-14
Project G	\$54.1	<b>Aug-05</b>	<b>Feb-08</b>	<b>Oct-10</b>	<b>May-14</b>
SR-57 (NB), Orangethorpe Avenue to Lambert Road (Landscape)	N/A	N/A	N/A	N/A	N/A
Project G	N/A	N/A	<b>Oct-14</b>	<b>Feb-18</b>	<b>Apr-19</b>
SR-57 (NB), Lambert Road to Tonner Canyon	TBD	TBD	TBD	TBD	TBD
Project G	TBD	Jul-23	TBD	TBD	TBD

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Capital Projects	Cost	Schedule			
	Baseline/Forecast	Plan/Forecast			
	(millions)	Begin Environmental	Begin Design	Award Contract	Complete Construction
SR-91 Westbound (WB), I-5 to SR-57	\$78.1	Jul-07	Oct-09	Nov-12	Apr-16
Project H	\$59.2	<b>Jul-07</b>	<b>Mar-10</b>	<b>Jan-13</b>	<b>Jun-16</b>
SR-91 Westbound (WB), I-5 to SR-57 (Landscape)	N/A	N/A	N/A	N/A	N/A
Project H	N/A	N/A	<b>Nov-14</b>	<b>Mar-17</b>	<b>Nov-17</b>
SR-91, SR-55 to Lakeview Avenue (Segment 1)	TBD	Jan-15	TBD	TBD	TBD
Project I	\$102.5	<b>Jan-15</b>	Mar-20	Jan-24	Sep-27
SR-91, La Palma Avenue to SR-55 (Segment 2)	TBD	Jan-15	TBD	TBD	TBD
Project I	\$223.1	<b>Jan-15</b>	Jul-20	Apr-24	Nov-27
SR-91, Acacia Street to La Palma Ave (Segment 3)	TBD	Jan-15	TBD	TBD	TBD
Project I	\$109.7	<b>Jan-15</b>	Nov-20	Sep-24	May-28
SR-91 (WB), Tustin Interchange to SR-55	\$49.9	Jul-08	Jul-11	Oct-13	Jul-16
Project I	\$42.5	<b>Jul-08</b>	<b>Jun-11</b>	<b>Oct-13</b>	<b>Jul-16</b>
SR-91, SR-55 to SR-241	\$128.4	Jul-07	Jun-09	Sep-11	Dec-12
Project J	\$79.7	<b>Jul-07</b>	<b>Apr-09</b>	<b>May-11</b>	<b>Mar-13</b>
SR-91, SR-55 to SR-241 (Landscape)	N/A	N/A	N/A	N/A	N/A
Project J	N/A	N/A	<b>May-12</b>	<b>Oct-13</b>	<b>Feb-15</b>
SR-91 Eastbound, SR-241 to SR-71	\$104.5	Mar-05	Jul-07	Jul-09	Nov-10
Project J	\$57.8	<b>Mar-05</b>	<b>Jul-07</b>	<b>Aug-09</b>	<b>Jan-11</b>
I-405, I-5 to SR-55	TBD	Dec-14	TBD	TBD	TBD
Project L	TBD	<b>Dec-14</b>	TBD	TBD	TBD
I-405, SR-55 to I-605 (Design-Build)	\$1,900.0	Mar-09	Mar-14	Nov-16	May-23
Project K	\$1,900.0	<b>Mar-09</b>	<b>Mar-14</b>	<b>Nov-16</b>	<b>May-23</b>

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Capital Projects	Cost	Schedule			
	Baseline/Forecast	Plan/Forecast			
	(millions)	Begin Environmental	Begin Design	Award Contract	Complete Construction
I-605, I-605/Katella Interchange	TBD	Aug-16	TBD	TBD	TBD
Project M	TBD	<b>Aug-16</b>	TBD	TBD	TBD
<b>Grade Separation Projects:</b>					
Raymond Avenue Railroad Grade Separation	\$77.2	Feb-09	Mar-10	May-13	Aug-18
Project O	\$125.6	<b>Feb-09</b>	<b>Mar-10</b>	<b>Feb-14</b>	<b>May-18</b>
State College Boulevard Railroad Grade Separation (Fullerton)	\$73.6	Dec-08	Jul-06	May-13	May-18
Project O	\$100.3	<b>Dec-08</b>	<b>Jul-06</b>	<b>Feb-14</b>	<b>Mar-18</b>
Placentia Avenue Railroad Grade Separation	\$78.2	Jan-01	Jan-09	Jun-11	Nov-14
Project O	\$64.5	<b>Jan-01</b>	<b>Jan-09</b>	<b>Jul-11</b>	<b>Dec-14</b>
Kraemer Boulevard Railroad Grade Separation	\$70.4	Jan-01	Jan-09	Aug-11	Oct-14
Project O	\$63.8	<b>Jan-01</b>	<b>Feb-09</b>	<b>Sep-11</b>	<b>Dec-14</b>
Orangethorpe Avenue Railroad Grade Separation	\$117.4	Jan-01	Feb-09	May-12	Sep-16
Project O	\$105.9	<b>Jan-01</b>	<b>Feb-09</b>	<b>Jan-13</b>	<b>Oct-16</b>
Tustin Avenue/Rose Drive Railroad Grade Separation	\$103.0	Jan-01	Feb-09	Aug-12	May-16
Project O	\$96.7	<b>Jan-01</b>	<b>Feb-09</b>	<b>Feb-13</b>	<b>Oct-16</b>
Lakeview Avenue Railroad Grade Separation	\$70.2	Jan-01	Feb-09	May-13	Mar-17
Project O	\$110.5	<b>Jan-01</b>	<b>Feb-09</b>	<b>Nov-13</b>	<b>Jun-17</b>
<b>Rail and Station Projects:</b>					
Sand Canyon Avenue Railroad Grade Separation	\$55.6	N/A	Jan-04	Feb-11	May-14
Project R	\$61.9	N/A	<b>Jan-04</b>	<b>Feb-11</b>	<b>Jan-16</b>

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Capital Projects	Cost	Schedule			
	Baseline/Forecast (millions)	Begin Environmental	Begin Design	Award Contract	Complete Construction
Rail-Highway Grade Crossing Safety Enhancement	\$94.4	Jan-08	Jan-08	Aug-09	Dec-11
Project R	\$90.4	<b>Jan-08</b>	<b>Jan-08</b>	<b>Aug-09</b>	<b>Dec-11</b>
San Clemente Beach Trail Safety Enhancements	\$6.0	Sep-10	Feb-12	Oct-12	Jan-14
Project R	\$5.0	<b>Sep-10</b>	<b>Feb-12</b>	<b>May-13</b>	<b>Mar-14</b>
San Juan Capistrano Passing Siding	\$25.3	Aug-11	Mar-15	Dec-16	Feb-21
	\$36.4	<b>Aug-11</b>	<b>Mar-15</b>	<b>Mar-19</b>	Feb-21
Placentia Metrolink Station and Parking Structure	\$34.8	Jan-03	Oct-08	TBD	TBD
Project R <b>Cost/Schedule Risk</b>	\$40.1	<b>Jan-03</b>	<b>Oct-08</b>	Oct-20	May-22
Orange County Maintenance Facility	TBD	TBD	TBD	TBD	TBD
Project R	TBD	Feb-20	TBD	TBD	TBD
Anaheim Canyon Station	\$27.9	Jan-16	Mar-19	Nov-19	Mar-21
	\$29.9	<b>Jan-16</b>	<b>Mar-18</b>	Jun-20	Oct-21
Orange Station Parking Expansion	\$33.2	Dec-09	Nov-10	Nov-16	Feb-19
	\$30.9	<b>Dec-09</b>	<b>Nov-10</b>	<b>Jun-17</b>	<b>Feb-19</b>
Fullerton Transportation Center - Elevator Upgrades	\$3.5	N/A	Jan-12	Sep-14	Mar-17
	\$4.2	N/A	<b>Jan-12</b>	<b>Apr-15</b>	<b>May-19</b>
Laguna Niguel/Mission Viejo Station ADA Ramps	\$3.5	Jul-13	Jul-13	Jan-15	Apr-17
	\$5.0	<b>Jul-13</b>	<b>Jul-13</b>	<b>Oct-15</b>	<b>Sep-17</b>
Anaheim Regional Transportation Intermodal Center	\$227.4	Apr-09	Jun-09	Jul-12	Nov-14
Project R & T	\$232.2	<b>Apr-09</b>	<b>Jun-09</b>	<b>Sep-12</b>	<b>Dec-14</b>
OC Streetcar	\$424.4	Aug-09	Feb-16	Aug-18	Dec-21
Project S <b>Cost/Schedule Risk</b>	\$424.4	<b>Aug-09</b>	<b>Feb-16</b>	<b>Sep-18</b>	Apr-22

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January 2018

## FREEWAY IMPROVEMENT PROGRAM

### Interstate 5 (I-5) Projects

- A** I-5, SR-55 to SR-57
- B** I-5, El Toro "Y" Area to SR-55
- C** I-5, SR-73 to El Toro Road
- C** I-5, Avenida Pico to San Juan Creek Road
- D** I-5 Highway Interchanges

### State Route 22 (SR-22) Projects

- E** SR-22 Access Improvements

### State Route 55 (SR-55) Projects

- F** SR-55, I-405 to I-5
- F** SR-55, I-5 to SR-91

### State Route 57 (SR-57) Projects

- G** SR-57 NB, Orangewood Avenue to Katella Avenue
- G** SR-57 NB, Katella Avenue to Lincoln Avenue
- G** SR-57 NB, Orangethorpe Avenue to Lambert Road
- G** SR-57 NB, Lambert Road to Tonner Canyon Road

### State Route 91 (SR-91) Projects

- H** SR-91 WB, I-5 to SR-57
- I** SR-91, SR-57 to SR-55
- J** SR-91, SR-55 to Riverside County Line

### Interstate 405 (I-405) Projects

- K** I-405, I-605 to SR-73
- L** I-405, SR-55 to El Toro "Y" Area

### Interstate 605 (I-605) Projects

- M** I-605 Katella Interchange Improvements

**Freeway Mitigation Restoration Projects**  
Part of Projects A-M

**Freeway Mitigation Acquisition Projects**  
Part of Projects A-M

## STREETS & ROADS

- O** Grade Separation Program (shown)
- P** Signal Synchronization Project Corridors

## TRANSIT PROJECTS

- R** Grade Separation and Station Improvement Projects
- S** Transit Extensions to Metrolink
- T** Metrolink Station Conversion to accept Future High-Speed Rail Systems

## OC GO PROJECTS NOT SHOWN

- Project N:** Freeway Service Patrol
- Project O:** Streets & Roads - Regional Capacity Program
- Project Q:** Local Fair Share Program
- Project R:** Grade crossing and Trail Safety Enhancements
- Project S:** Metrolink Service Expansion Program

- Project U:** Senior Mobility Program (SMP), Senior Non-emergency Medical Transportation Program (SNEMT), and Fare Stabilization Programs
- Project V:** Community Based Transit/Circulators
- Project W:** Safe Transit Stops
- Project X:** Environmental Cleanup Program