

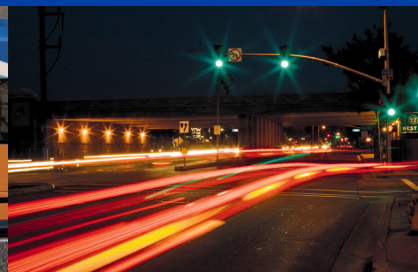


MEASURE M2 PROGRESS REPORT

Fourth Quarter of Fiscal Year 2018 – 19
April 1, 2019 through June 30, 2019

Fourth 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 April 1, 2019, through June 30, 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 the groundbreaking ceremony for the I-5, SR-73 to El Toro Road project that took place in Mission Viejo on June 6th, 2019. The project will be built in three segments and enhance traffic flow with roadway, structural, and operational improvements in South Orange County.



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



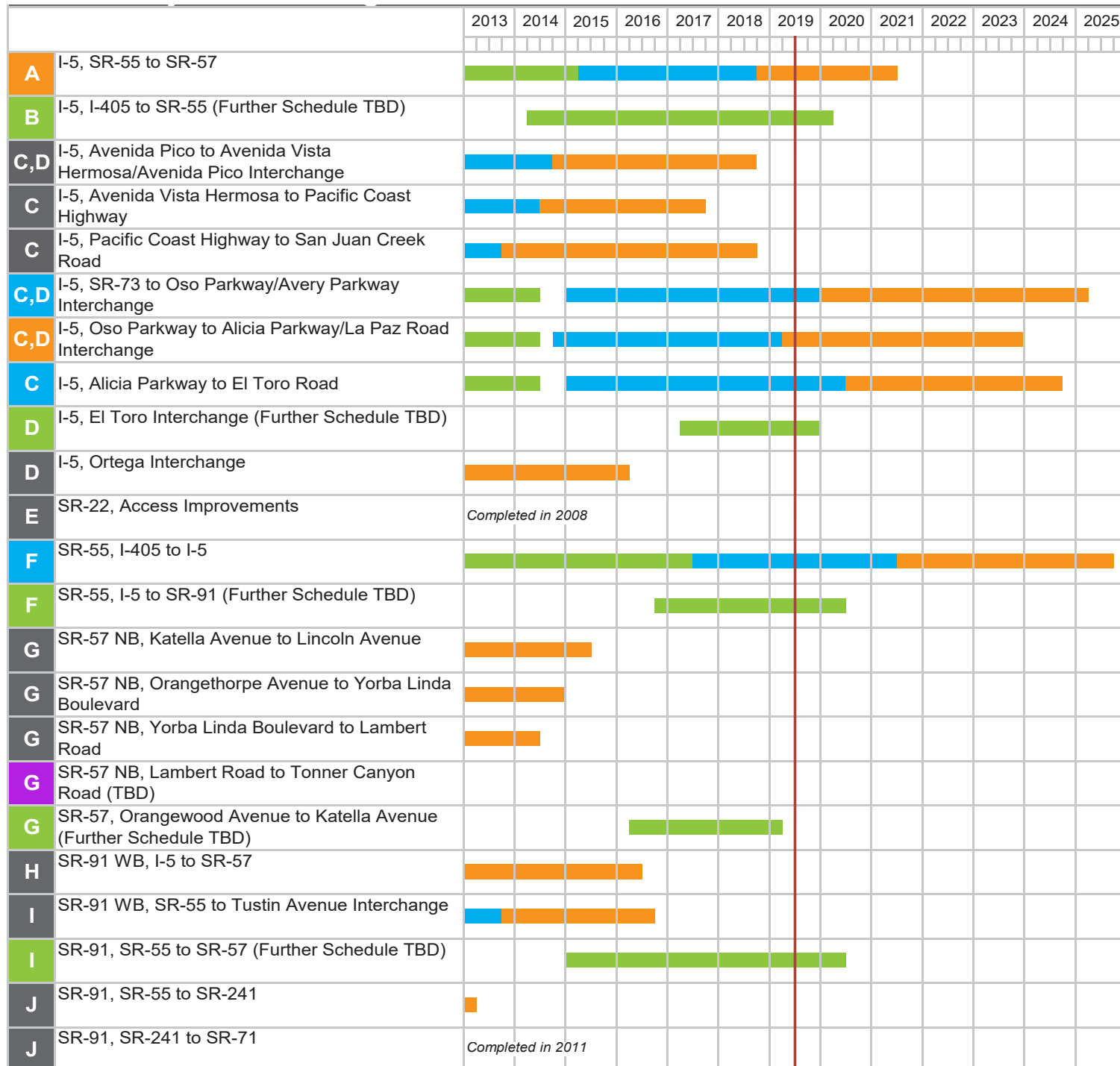
Design-Build



Construction

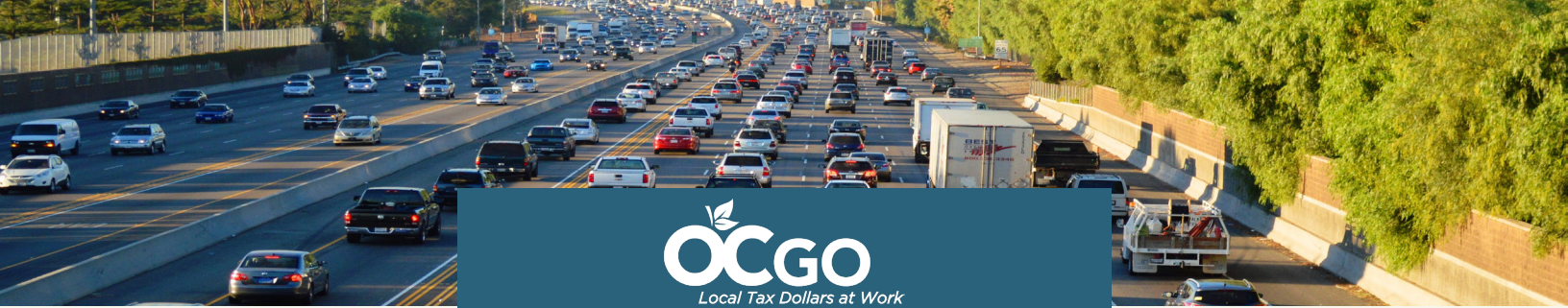


Complete

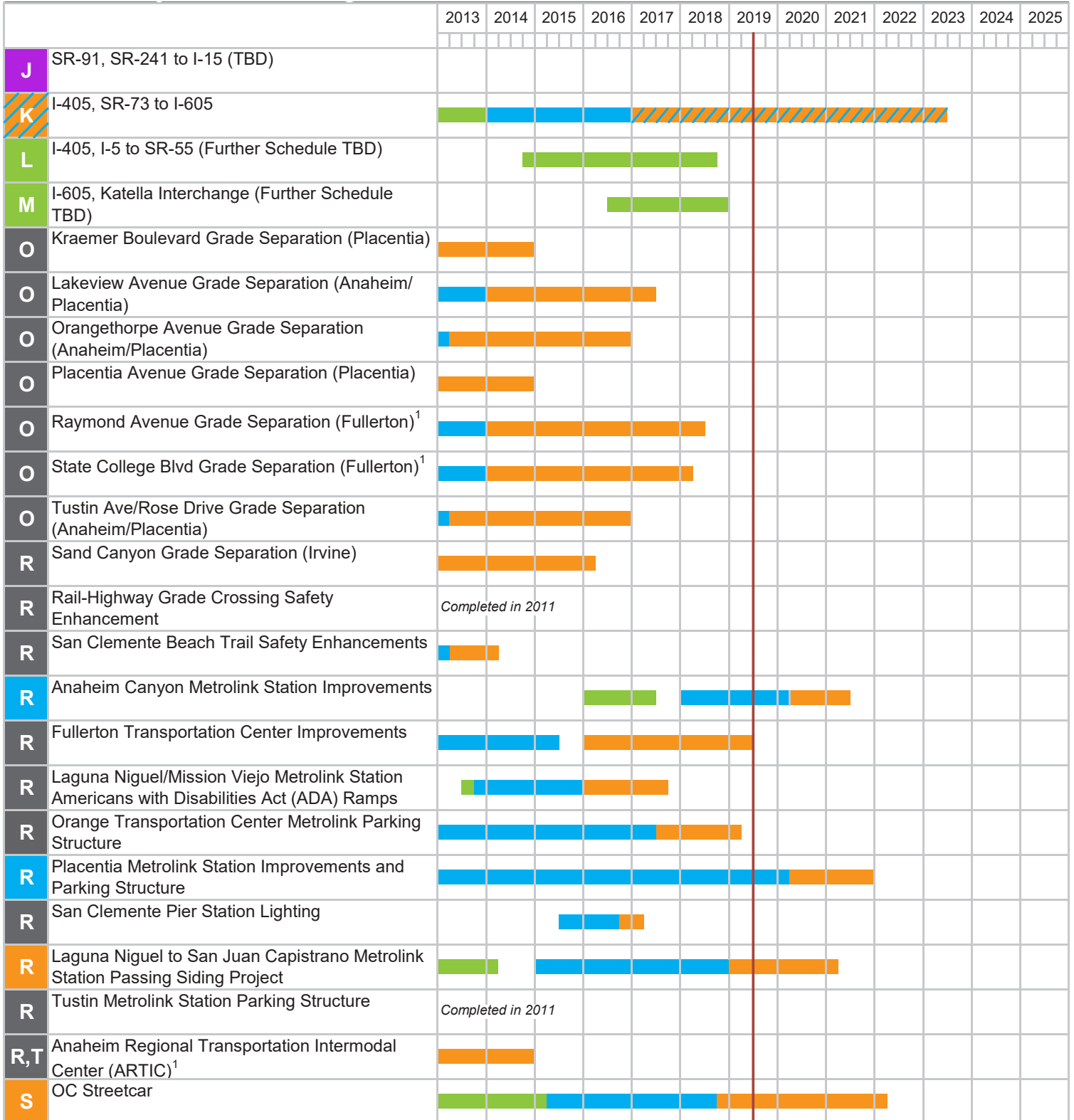


Project schedules are based on phase start dates. Shown schedules are subject to change.

¹ Projects managed by local agencies



MEASURE M2 PROJECT SCHEDULES



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

¹ Projects managed by local agencies



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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
Financial			
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 2018 forecast results in greater reliance on external funding to deliver the Freeway Program. OCTA will continue to pursue available state and federal revenue.
2	Inability to scale the Freeway Program to available revenue and still deliver the promise.	The freeway program includes set project scopes leaving very little flexibility in what is delivered.	OCTA will work closely with Caltrans to identify lower cost freeway alternative options for approval.
3	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.
4	The Next 10 Market Conditions Forecast and Risk Analysis identified strong potential for an increasing-cost environment during the Next 10 delivery years.	A construction cost pressure index model was created to provide insight on forecasting capital costs. The index tracks four near-term cost risks: economic trends (building permits and unemployment), material costs, wage pressures, and economic conditions.	A program level line item for an economic uncertainty allowance has been included in the freeway cash flow intended to safeguard the program and protect against over-committing. OCTA will continue to monitor and track key early warning indicators. While bid items have increased, there were no significant changes this quarter.



MEASURE M2 PROGRESS REPORT

Delivery Risk	Explanation	Proposed Action	
Organizational			
5	Availability of specialized staff, given the scope of the M2 capital program.	External demand for key talent is becoming more of an issue as large infrastructure programs move forward in the region. Timely completion of engineering and construction related support of the capital program is key to reduce project delivery risk.	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.
6	New operational responsibilities with the OC Streetcar.	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.	To ensure success of the OC Streetcar, OCTA hired a streetcar operations manager with proven start-up experience to oversee startup and daily operations.
Policy			
7	New statewide directives create additional hurdles for the Freeway Program in particular.	New directives at the State for greenhouse gas emission reductions and concerns related to projects that have the potential to increase vehicles miles traveled, are giving deference to projects that do not increase highway system capacity. The one project type the State appears interested in supporting is managed lane projects. This may limit external funding opportunities for Measure M2 freeway projects.	OCTA will work closely with the California Transportation Commission (CTC), Caltrans and the state legislature to try to maintain funding opportunities for OCTA freeway projects.



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. The Next 10 was updated to address and incorporate the 2018 sales tax revenue forecast of \$13.1 billion. The 2018 update of then Next 10 incorporates current revenue projections, bonding assumptions, project costs and schedule, 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 two 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 \$3.5¹ billion of freeway improvements approved through construction (Projects A-M).

At the point of Next 10 adoption in November 2016 the M2 freeway program consisted of 27 projects or project segments, nine projects were completed, and another nine were designated to be complete within the Next 10 timeframe. Together, the segments designated for completion by 2026 made up a \$3.1 billion delivery promise. Funded with 91 Express Lanes excess revenues, a tenth project (broken into three segments this quarter), the SR-91 between SR-57 to SR-55 (Project I) was designated a priority project and is now part of Deliverable 1 (planned to be complete by 2029). With this project, OCTA will deliver \$3.5 billion of freeway improvements approved through construction. The I-5 between I-405 and SR-55 (Project B) was also broken into two segments this quarter, bringing the total number of projects or project segments to 30. While the total number of segments increased from 27 to 30, the project delivery commitment remains the same. To date, three segments of the Interstate 5 (I-5) between Avenida Pico and San Juan Creek Road, opened to traffic in March 2018, adding six miles of carpool lanes. The remaining eight 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 \$715¹ 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 future advancement. Currently, three of the nine (Projects G, L and M) are environmentally cleared and shelf ready. 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. Using the guiding principles adopted by the Board, Deliverable 2 includes approximately \$715 million in funding to move another project (or projects) directly into design and construction if assumptions on revenues and costs hold. For more details, see [pages iii-iv](#) (Project Schedules) and the project updates contained in the following pages.

¹Because Project I is now included with Deliverable 1, the original Deliverable 1 investment increased to \$3.5 billion, and the original Deliverable 2 investment of \$1.2 billion has been reduced to \$715 million. The overall freeway deliverable commitment remains the same at \$4.3 billion.



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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 \$90 million in competitive funding through the Regional Capacity Program (Project O) and Regional Traffic Signal Synchronization Program (Project P). Additionally, \$153.8² million in Local Fair Share (Project Q) funds have been distributed to local agencies. This brings the total allocation to date to \$243.8 million. On August 13, 2018, the Board approved the release of the 2019 Call for Projects for approximately \$32 million for Project O and \$8 million for Project P funding. Final programming recommendations were presented to the Board on June 10, 2019. Additionally, all seven bridges included in the OC Bridges program are complete. For more details, see the project updates on [page 18](#).

²Only 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).

Contingent upon cooperation and funding participation from route partners, OCTA plans to extend service on four intracounty trips to Los Angeles in two phases beginning in October 2019 and April 2020. Two northbound trips that currently operate between Laguna Niguel/Mission Viejo and Fullerton will be extended to Los Angeles and two southbound trips will begin in Los Angeles instead of Fullerton. Schedules for the extended service are being developed and will be kept consistent with the way schedules are currently written.

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 in February 2019), 3) Placentia Metrolink Station (construction to begin early 2020- contingent on 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 in May 2019), and 6) San Clemente Pier Metrolink/Amtrak Station Lighting Project (completed in March 2017). For more details, see the project updates on [page 23](#).

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,



MEASURE M2 PROGRESS REPORT

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, the project team provided an update on the study purpose and need, mobility needs, and corridor definition to the OCTA Transit Committee on April 11, 2019, and Board of Directors on April 22, 2019. During these updates the Board asked staff to consider options for extending the study limits to include the University of California at Irvine campus. Following staff analysis and an additional presentation, the Board directed staff to proceed forward with the original scope of work and study limits. The outreach activities planned for this quarter were rescheduled for the next quarter, while the team sought final direction from the Board. Monthly Project Development Team (PDT) meetings were held on April 16, 2019, and May 21, 2019, and the PDT began discussing the development of alternatives. A transit field trip to the San Diego Metropolitan Transit System was coordinated for PDT members on June 21st in lieu of the monthly meeting, to allow the PDT to experience first-hand the transit concepts and features being considered for the Bristol Street corridor. During the next quarter, staff will conduct various outreach activities and continue working with the PDT to develop the six draft conceptual alternatives. The first of three Stakeholder workshops is scheduled for July 31, 2019, and open houses have been scheduled for August 3, 2019, and August 7, 2019, to solicit input.

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

Approximately \$29.6³ million 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.

³Only 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).

In December 2017, OCTA staff requested letters from local agencies to determine interest for a 2018 Project V Call for Projects. With 13 letters of interest received the Board initiated a Call for Projects in February 2018 and on June 25, 2018, the Board awarded \$5.2 million to fund five Community-Based Transit Circulators Projects and authorized the use of existing 2016 awarded funds to extend a San Clemente demonstration project out to FY 22-23.

In March 2019, OCTA once again requested letters of interest for another round of Project V funding. Responses



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from eligible local agencies were due at the end of April. The response rate was strong with 10 letters received, and staff will present findings for the Board to consider whether to issue a fourth call for projects in August 2019. For additional details and information on current project program performance and service see [page 30](#).

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 \$2.45 million to support 85 city-initiated improvements and three OCTA-initiated improvements. During the quarter, final funding recommendations were approved by the Board for the second call for projects and \$370,000 was deallocated for an OCTA initiated improvement, as funding was obtained from external sources. To date, the City of Anaheim postponed development of eight stops, 43 city-initiated improvements have been completed, 34 city-initiated improvements were recently approved and one OCTA-initiated improvement has been deallocated. 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 January 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. The third deposit was made in August 2018. 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 \$5.59 million to fund 28 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](#).

FREEWAYS

INTERSTATE 5 (I-5) PROJECTS ▼

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

PROJECT A

Status: Construction Underway – 17% 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 the installation of retaining walls at Lincoln Avenue and preparation for the demolition of the HOV ramp bridge, scheduled to take place in early August 2019. 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 late-2019. This project has been segmented into two segments for the design phase which is anticipated to begin in late 2020.

FREEWAYS

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. During the quarter, plant establishment continued and was completed on 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 plant establishment was complete in March 2019. While the project is complete, an outstanding contractor claim remains to be 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 \$593.5 million.

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

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 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. Staff continued to coordinate with Caltrans and obtained approval of all Fact Sheets, ROW certification and Ready to List (RTL) the project. The 100 percent Plans, Specifications, and Estimates (PS&E) was re-submitted to Caltrans on March 15th implementing the latest Caltrans Highway Design Manual standards. The plans identified a higher cost estimate due to unit price increases, rise in Caltrans support costs, and schedule changes to address bird nesting season restrictions. Due to extended ROW coordination, this project is marked “red” in the CAP, due to a delay of 12 months beyond the original schedule. Funding allocation of \$73.73 million in STIP and \$30.26 million in TCIF were approved at the June 2019 CTC meeting.

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

Status: Construction Underway – 3% 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 clearing and grubbing, placing of K rail and restriping. The Construction Management team is working with the contractor on approval of the Baseline Schedule. Staff also continued coordination of the service contract with SCRR/Metrolink, and with Caltrans on ROW and utilities.

FREeways

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 Road to Alicia Parkway. Major activities this quarter included continued coordination with Caltrans, California Department of Fish and Wildlife regarding the planned work at Aliso Creek. Final ROW mapping is approved, although third party utility realignments have necessitated the revision of two parcels. 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 13 months beyond the original schedule. The 100 percent Design Submittal was on May 3, 2019, and the consultant coordinated with the Caltrans Office Engineer to prepare for achieving Ready to List Status. The 2018 STIP increased funding for this segment to \$69.1 million, but the segment is programmed in the STIP three years later than requested. Staff will work with the CTC staff and Caltrans to maintain the existing schedule.

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 Underway - 65% Complete

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



FREWAYS

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 study does not have consensus from the three stakeholder cities and without consensus the project will not be able to move forward. Additionally, 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 is anticipated to be completed in late 2019 however, without the cities' consensus, OCTA will not likely be in support of finalization of the document.

STATE ROUTE 22 (SR-22) PROJECTS ▼

Segment: SR-22 Access Improvements

Status: PROJECT COMPLETE

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



PROJECT E

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 ▼

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

Status: Design Phase Underway - 70% Complete

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

PROJECT F

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. During the quarter, the 95 percent design was completed at the end of June. The 95 percent design submittal will go through quality control reviews and audit before submittal to Caltrans on July 19, 2019. Caltrans is responsible for developing and seeking approval of the required Supplemental Fact Sheet addressing necessary design variations on the project. The Supplemental Fact Sheet is anticipated to be completed in September 2019. ROW and utility coordination have been initiated and are ongoing. The project is anticipated to be ROW Certified and ready to list (RTL) by December 2020. OCTA received \$80 million for this segment through the 2018 STIP, however the segment is currently programmed in the STIP one year later than requested. Staff will work with the CTC staff and Caltrans to maintain the existing schedule.



FREEWAYS

Segment: SR-55, I-5 to SR-91

Status: Environmental Phase Underway - 74% 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 of technical studies. The Draft Environmental Document (ED) and Draft Project Report are anticipated to be complete in October 2019. The Draft ED is anticipated to be circulated for public review, and an open house format Public Hearing is anticipated to be held in late-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.

STATE ROUTE 57 (SR-57) PROJECTS ▼

Segment: SR-57 Northbound, Katella Avenue to Lincoln Avenue



PROJECT G

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 expected to begin in mid-2020

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 truck-climbing lane from Lambert Road to Tonner Canyon Road in the City of Brea in the approximately 2.5 mile area. 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 bids were opened for Phase 1 on February 13, 2019. The lowest responsive bidder was 16% under the engineers estimate. Phase 2, which is the mainline improvements, was approved for STIP funding in March 2018 to initiate the environmental phase to study the truck-climbing lanes in mid-2020. This project will coordinate with and take into consideration any related work by LA Metro across the county line.

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. During the quarter the Final Environmental Document and Final Project Report were approved on March 29, 2019. The Next 10 Plan sets direction through 2026; as projects listed are completed, schedules and revenues will be reviewed, and the Board will adopt a new delivery plan providing direction on further project advancement. Using only Measure M funding, this project is scheduled to move into design beyond 2026, however, projects that compete best for external funding are those that are already environmentally cleared. OCTA continually looks for opportunities to accelerate construction by taking advantage of state and federal dollars.



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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 - 93% 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. 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 13 months from its original schedule. SR-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 at the recycling facility for Caltrans to consider approval of design exceptions. This effort includes a site investigation at a former landfill and is currently operating as a metals recycling facility, which is a lengthy process and introduces significant risk to the project. The final ED is anticipated to be complete in April 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 minimize impacts to the traveling public. 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. To assist with coordination, RCTC included the 6th lane project into the RCTC Corridor Improvement Project between the Riverside/Orange County line to SR-241, which included several components. On March 20, 2017, the general purpose lane between SR-71 and I-15 was completed by RCTC as part of the \$1.3 billion initial phase freeway improvement project which extended the 91 Express Lanes from its terminus in Orange County to I-15 in Riverside County and provided tolled express connectors between SR-91 and I-15 in one direction. With significant SR-91



FREEWAYS

freeway improvements taking place as a result of both counties sales tax measures, the construction of the final additional general purpose lane between SR-241 and SR-71 was anticipated to take place post-2035. However, RCTC has requested OCTA's support accelerating a portion of the ultimate project in the westbound direction to address a bottleneck issue occurring in the City of Corona. With OCTA's support, RCTC has initiated the 91 Corridor Operation Project to look at moving the project forward sooner. Discussions and coordination between OCTA and RCTC are ongoing. In addition, OCTA and RCTC will be jointly conducting an alternative analysis to determine how best to implement the 6th general-purpose lane in the eastbound direction between SR-241 and SR-71, while minimizing environmental and construction impacts.

INTERSTATE 405 (I-405) PROJECTS ▼

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

PROJECT K

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-605.⁴

During the quarter, work continued on ROW acquisition, utility coordination, and public outreach. Other work includes review of design-builder submittals including design and construction submittals. OCTA's toll lanes system integrator, Kapsch, is now under contract and working with OCTA and the design-builder. Significant roadway construction activities, including installation of drainage systems, retaining walls, and paving operations are underway. Additionally, approximately 18 walls are under construction at this time as well. Construction of the Slater Avenue bridge is nearing completion, and construction of the approaching roadways is set to begin. The Slater Avenue bridge will be the first new bridge completed and is anticipated to open to traffic in late August or early September 2019. Construction on the McFadden Avenue bridge continues, and is anticipated to be open to traffic in the summer of 2020. Significant bridge construction also continued at Fairview Road, Magnolia Street, Goldenwest Street, Bolsa Chica Road and Westminster Boulevard bridges. These are two-stage bridges, which means traffic will be maintained on the remaining portion of the bridge while the first half of the new bridge is constructed. Construction also began recently on the Santa Ana River bridge and the Harbor Boulevard bridge. Construction at the Santa Ana River and Harbor Boulevard bridges consists of widening the existing freeway bridge over both of those facilities. Lastly, OCTA continued targeted public outreach this past quarter in the form of neighborhood meetings in anticipation of the construction activities mentioned previously. Construction is scheduled to be completed in 2023.

⁴The 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 on the I-405 corridor between I-5 and SR-55 in Irvine in the approximately 8.5-mile project area. 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; as projects listed are completed, schedules and revenues will be reviewed, and the Board will adopt a new delivery plan providing direction on further project advancement. Using only Measure M funding, this project is scheduled to move into design beyond 2026, however, projects that compete best for external funding are those that are already environmentally cleared. OCTA continually looks for opportunities to accelerate construction by taking advantage of state and federal dollars.

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. The Next 10 Plan sets direction through 2026; as projects listed are completed, schedules and revenues will be reviewed, and the Board will adopt a new delivery plan providing direction on further project advancement. Using only Measure M funding, this project is scheduled to move into design beyond 2026, however, projects that compete best for external funding are those that are already environmentally cleared. OCTA continually looks for opportunities to accelerate construction by taking advantage of state and federal dollars.

FREEWAY SERVICE PATROL ▼

Status: Service Ongoing

PROJECT N

Contact: Cliff Thorne • (714) 560-5975

Summary: M2's Freeway Service Patrol (FSP) began operation in June 2012 and provides tow truck service for motorists with disabled vehicles on the freeway system to help quickly clear freeway lanes and minimize congestion. During the quarter, the FSP provided midday service assistance to 1,125 motorists and provided weekend service assistance to 837 motorists. No M2 funded construction service was needed. Since inception, M2 and construction funded FSP has provided a total of 77,072 assists to motorists on the Orange County freeway system.



STREETS AND ROADS

REGIONAL CAPACITY PROGRAM ▼

Status: 2019 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 \$296⁵ million, including \$24 million in external funding, have been awarded through nine calls for projects by the Board. On June 10, 2019, the OCTA Board approved the 2019 Programming Recommendations which provided \$0.834 million in Regional Capacity Program funds.

⁵To date, 14 of the 183 phases awarded by OCTA totaling approximately \$21 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. Close-out activities is nearing completion and staff will present recommendation for final claim resolution to the Board on July 22, 2019, for approval. 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 were initiated and are ongoing.

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: 2019 Call for Projects in Progress

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

PROJECT P

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 2,000 signalized intersections over 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.

On June 10, 2019, the OCTA Board approved funding for five projects totaling \$7.7 million as part of the 2019 Call for Projects.

To date, OCTA and local agencies have synchronized more than 2,000 intersections over more than 702 miles of streets (78 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 projects⁶ totaling more than \$106 million, including \$13.6 million in leveraged external funding.

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

LOCAL FAIR SHARE ▼

Status: Ongoing

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

PROJECT Q

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 of the cities and the County. All local agencies 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 \$398⁷ million in Local Fair Share payments have been provided to local agencies as of the end of this quarter.

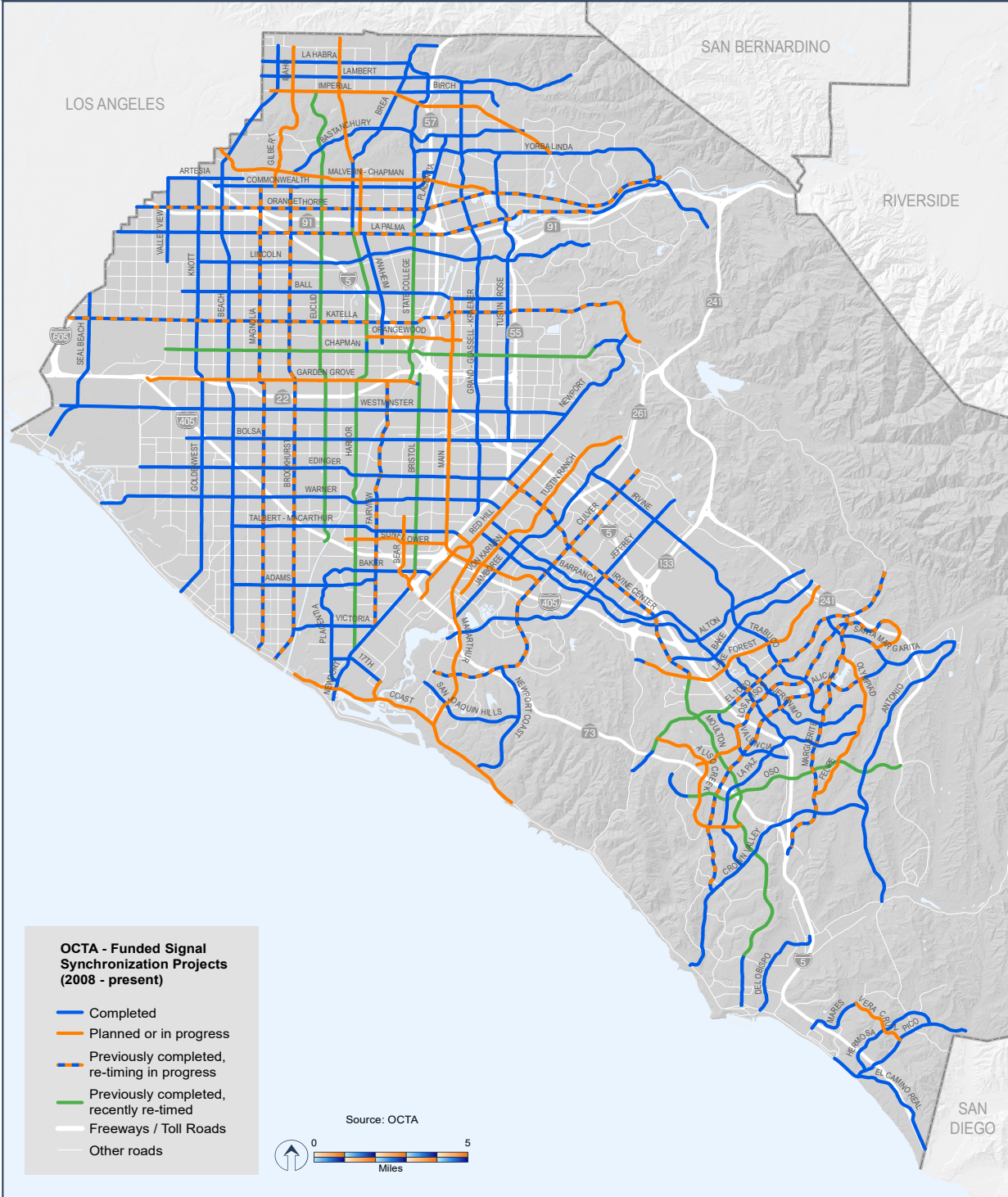
See [pages 49-50](#) for funding allocation by local agency.

⁷Only 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)





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. Efforts to increase ridership through a redeployment of the trains without significantly impacting operating costs have been underway since 2014. Average daily passenger boardings on the ten intracounty trains combined has increased by 23 percent, from 288 boardings in Fiscal Year (FY) 2012-13 to 354 boardings averaged for FY 2018-19.

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 53 percent since the improvement was implemented, from 130 boardings averaged in FY 2015-16 to 199 boardings averaged for FY 2018-19.

Contingent upon cooperation and funding participation from route partners, Metrolink will implement the following service improvements to provide new weekday service between Orange County and Los Angeles, in alignment



with OCTA's redeployment plan:

- OC Line: Replace three midday intracounty round trips with two midday round trips from Laguna Niguel/Mission Viejo to Los Angeles, and add one evening round trip from Oceanside to Los Angeles.
- 91/PV Line: Extend two existing round trips in Riverside County, from Perris – South to Los Angeles Union Station (with stops in Fullerton and Buena Park).

The service improvements are anticipated to roll out in two phases beginning in October 2019 and April 2020.

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 – 95% 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 95 percent. Plans are expected to be complete and ready to bid in December 2019. Construction of the project is expected to begin in March 2020 with completion anticipated in mid-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. Close-out activities are underway. Final invoicing is dependent on the city and the contractor agreeing to the final cost.



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. Close-out activities and final costs are underway.

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. It is anticipated that this agreement will be in place by January 2020. Due to the dependency on the C&M agreement, this project is marked as a cost/schedule risk in the CAP.



TRANSIT

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 hand rails at the San Clemente Pier Station.

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; replacement of 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); 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 increased 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 – 5% 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 continues with submittals review and procurement of materials; preconstruction biological surveys was completed; construction of two temporary at-grade crossings was completed; site preparation with removal of riprap and installation of signal conduits continues; and grading for retaining wall began. This project is anticipated to be completed by early 2021. This 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 Released, Vehicle Exterior Design Selected, Utility Relocation Work Ongoing

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

Summary: The OC Streetcar Project 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. OCTA is serving as the lead agency for the project.

Construction activities have commenced on the western half of the alignment, with the focus on preparations for construction of the Santa Ana River and Westminster Avenue bridges, the maintenance and storage facility, and storm drain sewer and water system relocations within the City of Santa Ana streets. The remaining permits needed from Army Corps of Engineers and the Orange County Flood Control District for the construction of the Project bridge across the Santa Ana River were obtained in April 2019.

Preliminary design review for the vehicles was completed and will transition into final design review beginning in July 2019. Major elements of the vehicle, representing over 34 technical submittals, including the carbody,



TRANSIT

doors, cab layout, exterior/interior design, propulsion, auxiliary power, energy absorbing bumpers, and related manuals have been evaluated with Siemens consistent with the technical specifications.

On May 29, 2019, OCTA and FTA conducted its quarterly meeting to discuss project status and report on the Project schedule and cost estimate.

On June 19, 2019, the Stakeholder Working Group met and staff provided updates on the construction activities, vehicle manufacturing, upcoming procurement for O&M services, and the material developed for the community open houses. Approximately 30 attendees attended open houses on Saturday June 22, 2019, at the Santa Ana Corporate Yard facility and on Monday June 24, 2019, at the Santa Ana Senior Center.

Work continues to progress on other key OC Streetcar activities, including responding to questions on the Operations and Maintenance Request for Proposals, 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.

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 \$69.7⁸ 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 \$20.39⁸ million and 2,230,000 boardings have been provided for seniors traveling to medical appointments, nutrition programs, shopping destinations, and senior and community center activities. This quarter, approximately \$872,000⁹ was paid out to the 31 participating cities during the months of May and July. Additionally, on November 26, 2018, the Board approved revised Guidelines for the program.

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 \$22.2 million and 857,875 SNEMT boardings have been provided. This quarter, approximately \$1 million in SNEMT funding was paid⁹ to the County of Orange in the months of May and July.

⁸Only 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.



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 \$1,473,000⁹ 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 3,400,000 program-related boardings recorded on fixed route and ACCESS services, approximately \$952,000 was utilized. Since inception of the program, more than \$27 million and 109 million program-related boardings have been provided.

COMMUNITY BASED TRANSIT/CIRCULATORS ▼

Status: Service Updates

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

PROJECT V

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, June 2018) which have awarded 28 projects and 7 planning studies totaling \$42 million. Out of the transit circulator projects: 19 are currently active; seven 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 by the end of the April deadline and staff is scheduled to report findings to the Board for their consideration (of whether to issue a fourth call for projects for Project V) on August 12, 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 February 14 and the Board on April 08, 2019. The next Project V Ridership report is scheduled for August 12, 2019. Lessons learned from the success of implemented services are incorporated into recommendations for future funding guidelines and programming recommendations.

⁹Payments 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 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. 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 seven¹⁰ eligible agencies and OCTA.

¹⁰ 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 cannot be considered for funding at this time.

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 eight rounds of funding under the Tier 1 grants program. A total of 166 projects, amounting to approximately \$22.5 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. The ninth Tier 1 call for projects was released on March 11, 2019, in the amount of \$2.8 million and funding recommendations are anticipated to be approved by the Board in September 2019. 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 6.2 million cubic feet 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 2,600 forty-foot shipping containers. 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 August 2018. The next deposit is scheduled for July 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 September 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

A group of people, including a person in the foreground wearing a hat and a backpack, are hiking on a dirt path through a wooded area with large trees and green foliage. The scene is bright and sunny.

ENVIRONMENTAL

prevention, pre-fire vegetation management, suppression activities, and post-fire responses that are compatible 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 will be 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 will be available for a public review in mid-August 2019 at www.PreservingOurLegacy.org.

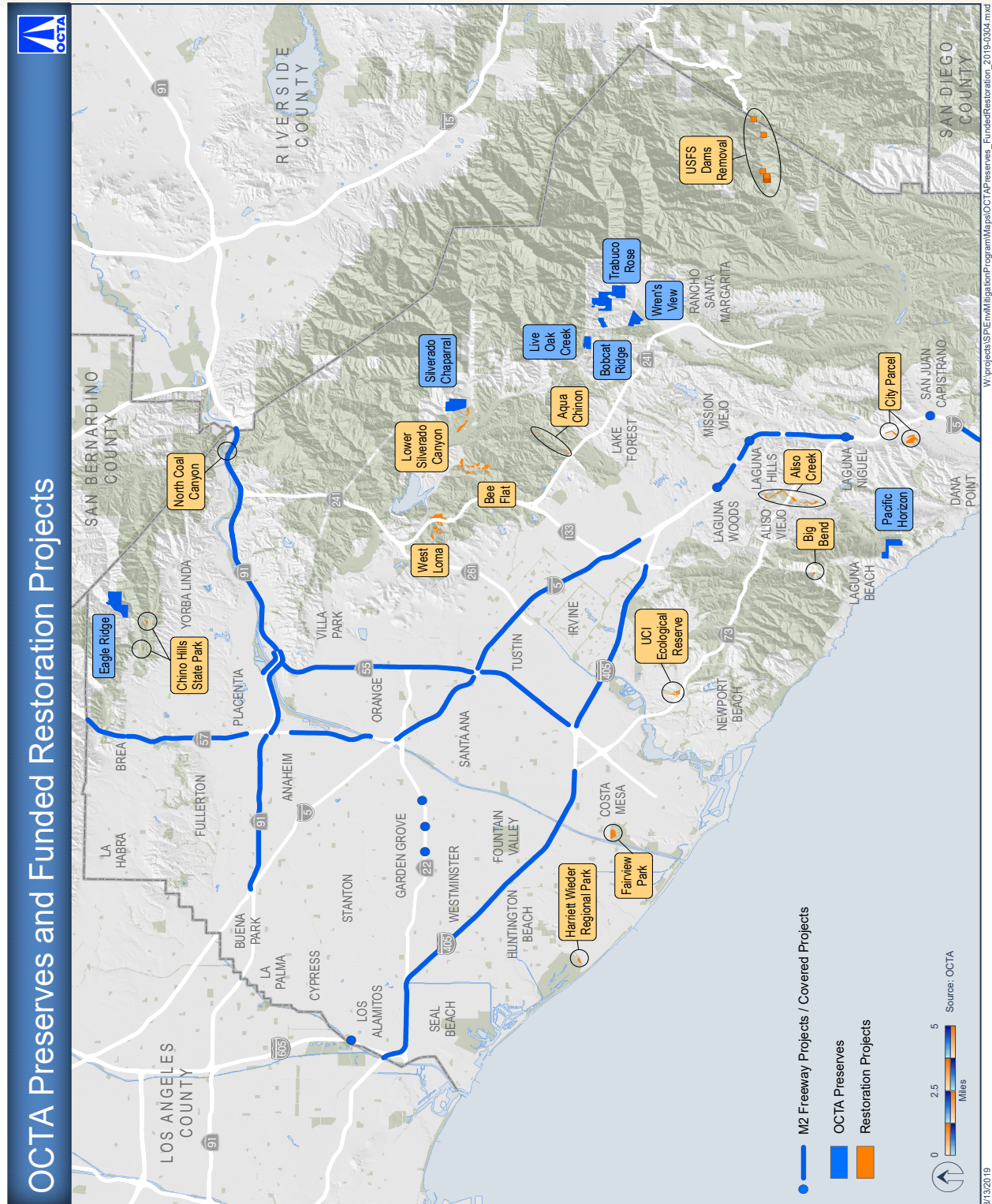
To date, multiple freeway projects have utilized the Conservation Plan and/or the Clean Water Act streamlined permitting process. Some of the projects that benefit from these mechanisms include: Project K (I-405 Improvement Project from SR-73 to I-605) and Project C (I-5 from SR-73 to El Toro Road), 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.

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.

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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.

Market Conditions Forecast and Risk Analysis

In September 2017, the Board was presented with a Next 10 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 contract was renewed to continue monitoring efforts. An updated market conditions forecast will be provided to the Board in the fall.

Next 10 Delivery Plan

On November 14, 2016, the Board adopted the Next 10 Delivery Plan 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. As a result of a lower revenue forecast and the potential of higher costs in the near term as it relates to freeway delivery, staff prepared an updated 2018 Next 10 Plan. The updated 2018 Next 10 Plan was approved by the Board at the September 10, 2018, meeting.

The PMO will review the cash flow assumptions following the 2019 sales tax forecast along with updated project cost and schedule assumptions to determine if changes are needed. A staff update will be provided to the Board in the fall.



PROGRAM MANAGEMENT

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 were presented to the Board on March 11, 2019. The PMO is monitoring progress and implementing the recommendations as appropriate and will report back to the Board by the end of the calendar year.

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 is helpful to the TOC when determining OCTA's compliance with Measure M. The TOC met on June 11, 2019, to conduct the annual M2 audit and determined that Measure M is being delivered as promised to Orange County voters for the 28th consecutive year.

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 March 2019 semi-annual review of CTFP projects approved by the Board on June 10, 2019, the 2019 Regional Capacity Program and signal synchronization projects also approved by the Board on June 10, 2019, and the 2019 Project W projects approved by the Board on June 24, 2019, as well as other programming updates. Updated City Fact Sheets are in progress and will be completed by the 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 flow assumptions through 2041. This document allows the PMO to appropriately track and answer questions



regarding the M2 investment. The FY 2018-19 third quarter Financial Picture was updated in May 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 2018-19 third quarter Next 10 Tracking report was updated in May 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, the construction contract for Project C (I-5 between Oso Parkway and Alicia Parkway/La Paz Road Interchange project was awarded on April 4, 2019. The lowest bidder was 11.68 percent above the engineer's estimate.

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 \$13.1 billion or 46 percent lower) as a result of economic conditions, the funds available to support administrative salaries and benefits have also declined from the original expectations.

PROGRAM MANAGEMENT

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 June 2019 Taxpayer Oversight Committee Report, the outstanding principal balance was \$0.6 million.

Staff meets quarterly to review all labor costs to ensure proper cost allocation under M2. After the quarter ended, staff met on July 17, 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. Staff will meet again on October 16, 2019, to conduct this quarterly review.

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.



The TOC met on April 9, 2019, and again on June 11, 2019. At the April meeting, the TOC received the Measure M2 Performance Assessment as well as updates on both the OC Streetcar and Project V. In addition, Staff Updates were provided on the following areas: Local Agency Expenditure Reports, Measure M2 Bond Issuance, and the I-405 Improvement Project.

The Taxpayer Oversight Committee held its annual Measure M public hearing Tuesday, June 11 and unanimously found that the Orange County Transportation Authority is proceeding in accordance with the Measure M2 Ordinance for 2019 and the Chair certified that M2 revenues have been spent in compliance with the Plan. In addition, the TOC received a presentation on the Measure M2 Quarterly Progress Report for the First Quarter of 2019. Staff updates were also provided at this meeting and covered areas such as the I-405 Improvement Project and the I-5 project from 73 to El Toro Road. The next TOC meeting is scheduled for August 13th, 2019.

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 has taken an average of 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. Historically, MuniServices, Inc. has been more conservative than the three universities over the first five years of M2 revenue collection.

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 September 2018, OCTA staff forecasts total nominal sales tax collections over the life of M2 to be approximately \$13.1 billion. Original projections in 2005 during the development of M2 estimated total nominal M2 sales tax collections at \$24.3 billion. This is approximately \$11.2 billion (46 percent) less than the original 2005 projection.

OCTA's assumed growth rate for FY 2018 budget was 3.3 percent. The actual growth rate for FY 2018 came in higher at 4.8 percent with a total net annual sales tax receipts of \$320 million. For FY 2019, the assumed growth rate is 3.7 percent and the actual growth rate for the M2 Program is currently reported at approximately 1.7 percent as of April 2019. Based on the sales tax forecast information provided by Muni Services to date, the actual growth rate is anticipated to rise and is expected to exceed the assumed growth rate. The forecasted amount of sales tax to support the M2 Program remains at \$13.1 billion (reported to the Board in September 2018). The 2019 updated forecast is anticipated to be brought to the Board in the fall.

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FINANCING

Schedule of Revenues, Expenditures and Changes in Fund Balance as of June 30, 2019 (Unaudited) Schedule 1

(\$ in thousands)	Quarter Ended June 30, 2019	Year to Date June 30, 2019 (A)	Period from Inception to June 30, 2019 (B)
Revenues:			
Sales taxes	\$ 82,990	\$ 338,691	\$ 2,413,754
Other agencies' share of Measure M2 costs:			
Project related	9,010	60,046	684,356
Non-project related	-	-	454
Interest:			
Operating:			
Project related	162	246	838
Non-project related	745	8,616	31,728
Bond proceeds	4,500	9,194	60,512
Debt service	131	449	756
Commercial paper	-	-	393
Right-of-way leases	27	30	941
Proceeds on sale of assets held for resale	-	-	12,201
Donated assets held for resale			
Project related	-	2,071	2,071
Non-project related	-	(1,700)	371
Miscellaneous:			
Project related	-	-	270
Non-project related	-	-	100
Total revenues	97,565	417,643	3,208,745
Expenditures:			
Supplies and services:			
Sales tax administration fees	909	3,473	26,292
Professional services:			
Project related	17,128	36,374	381,484
Non-project related	1,326	4,508	26,509
Administration costs:			
Project related	2,432	9,724	72,905
Non-project related:			
Salaries and Benefits	633	2,533	25,066
Other	1,284	5,135	41,848
Other:			
Project related	29	86	5,027
Non-project related	44	908	4,915
Payments to local agencies:			
Project related	32,495	107,923	945,857
Capital outlay:			
Project related	95,801	168,801	1,025,503
Non-project related	-	-	31
Debt service:			
Principal payments on long-term debt	-	8,165	50,500
Interest on long-term debt and commercial paper	9	20,676	178,614
Total expenditures	152,090	368,306	2,784,551
Excess (deficiency) of revenues over (under) expenditures	(54,525)	49,337	424,194
Other financing sources (uses):			
Transfers out:			
Project related	(2,370)	(151,851)	(190,458)
Transfers in:			
Project related	579	1,379	84,079
Non-project related	-	-	-
Bond proceeds	-	446,032	804,625
Payment to refunded bond escrow agent	-	(45,062)	(45,062)
Total other financing sources (uses)	(1,791)	250,498	653,184
Excess (deficiency) of revenues over (under) expenditures and other sources (uses)	\$ (56,316)	\$ 299,835	\$ 1,077,378

FINANCING

Schedule of Revenues, Expenditures and Changes in Fund Balance as of June 30, 2019 (Unaudited) Schedule 2

(\$ in thousands)	Quarter Ended June 30, 2019 (actual)	Year to Date June 30, 2019 (actual)	Period from Inception through June 30, 2019 (actual)	Period from July 1, 2019 through March 31, 2041 (forecast)	Total
	(C.1)	(D.1)	(E.1)	(F.1)	
Revenues:					
Sales taxes	\$ 82,990	\$ 338,691	\$ 2,413,754	\$ 10,657,522	\$ 13,071,276
Operating interest	745	8,616	31,728	139,989	171,717
Subtotal	83,735	347,307	2,445,482	10,797,511	13,242,993
Other agencies share of M2 costs	-	-	454	-	454
Miscellaneous	-	-	100	-	100
Total revenues	83,735	347,307	2,446,036	10,797,511	13,243,547
Administrative expenditures:					
Sales tax administration fees	909	3,473	26,292	123,125	149,417
Professional services	1,326	4,508	22,734	97,884	120,618
Administration costs:					
Salaries and Benefits	633	2,533	25,066	113,436	138,502
Other	1,284	5,135	41,848	185,485	227,333
Other	44	82	1,914	8,546	10,460
Capital outlay	-	-	31	-	31
Environmental cleanup	2,491	7,173	41,920	213,116	255,036
Total expenditures	6,687	22,904	159,805	741,592	901,397
Net revenues	\$ 77,048	\$ 324,403	\$ 2,286,231	\$ 10,055,919	\$ 12,342,150
	(C.2)	(D.2)	(E.2)	(F.2)	
Bond revenues:					
Proceeds from issuance of bonds	\$ -	\$ 446,032	\$ 804,625	\$ 1,425,000	\$ 2,229,625
Interest revenue from bond proceeds	4,500	9,194	60,512	94,619	155,131
Interest revenue from debt service funds	131	449	756	4,685	5,441
Interest revenue from commercial paper	-	-	393	-	393
Total bond revenues	4,631	455,675	866,286	1,524,304	2,390,590
Financing expenditures and uses:					
Professional services	-	-	3,775	4,988	8,763
Payment to refunded bond escrow	-	45,062	45,062	-	45,062
Bond debt principal	-	8,165	50,500	2,060,220	2,110,720
Bond debt and other interest expense	9	20,676	178,614	932,293	1,110,907
Other	-	826	3,001	-	3,001
Total financing expenditures and uses	9	74,729	280,952	2,997,501	3,278,453
Net bond revenues (debt service)	\$ 4,622	\$ 380,946	\$ 585,334	\$ (1,473,197)	\$ (887,863)

FINANCING

Schedule of Revenues, Expenditures and Changes in Fund Balance as of June 30, 2019(Unaudited) Schedule 3

		(Unaudited)		
Project	Description	Net Revenues through June 30, 2019	Total Net Revenues	
	(G)	(H)	(I)	
	(\$ in thousands)			
Freeways (43% of Net Revenues)				
A	I-5 Santa Ana Freeway Interchange Improvements	\$ 90,112	\$ 486,467	\$
B	I-5 Santa Ana/SR-55 to El Toro	57,557	310,718	
C	I-5 San Diego/South of El Toro	120,213	648,968	
D	I-5 Santa Ana/San Diego Interchange Upgrades	49,466	267,040	
E	SR-22 Garden Grove Freeway Access Improvements	23,007	124,204	
F	SR-55 Costa Mesa Freeway Improvements	70,172	378,824	
G	SR-57 Orange Freeway Improvements	49,600	267,764	
H	SR-91 Improvements from I-5 to SR-57	26,842	144,905	
I	SR-91 Improvements from SR-57 to SR-55	79,855	431,093	
J	SR-91 Improvements from SR-55 to County Line	67,527	364,540	
K	I-405 Improvements between I-605 to SR-55	205,686	1,110,388	
L	I-405 Improvements between SR-55 to I-5	61,295	330,901	
M	I-605 Freeway Access Improvements	3,835	20,701	
N	All Freeway Service Patrol	28,759	155,256	
	Freeway Mitigation	49,154	265,356	
	Subtotal Projects	983,080	5,307,125	
	Net (Bond Revenue)/Debt Service	-	-	
	Total Freeways	\$ 983,080	\$ 5,307,125	\$
	%			
Street and Roads Projects (32% of Net Revenues)				
O	Regional Capacity Program	\$ 228,626	\$ 1,234,231	\$
P	Regional Traffic Signal Synchronization Program	91,446	493,670	
Q	Local Fair Share Program	411,522	2,221,587	
	Subtotal Projects	731,594	3,949,488	
	Net (Bond Revenue)/Debt Service	-	-	
	Total Street and Roads Projects	\$ 731,594	\$ 3,949,488	\$
	%			

FINANCING

Schedule of Revenues, Expenditures and Changes in Fund Balance as of June 30, 2019 (Unaudited) Schedule 3

Expenditures through June 30, 2019 (J)	Reimbursements through June 30, 2019 (K)	Net M2 Cost (L)
7,423	\$ 2,354	\$ 5,069
9,700	6,515	3,185
143,306	46,775	96,531
2,097	527	1,570
4	-	4
27,423	10,281	17,142
51,219	12,071	39,148
34,816	824	33,992
23,133	7,381	15,752
6,936	5,294	1,642
487,596	33,806	453,790
9,327	6,954	2,373
2,196	16	2,180
2,411	-	2,411
53,535	2,545	50,990
861,122	135,343	725,779
45,291	-	45,291
906,413	\$ 135,343	\$ 771,070
		40.2%
742,805	\$ 481,392	\$ 261,413
60,030	4,957	55,073
401,652	77	401,575
1,204,487	486,426	718,061
50,305	-	50,305
1,254,792	\$ 486,426	\$ 768,366
		40.0%

FINANCING

Schedule of Revenues, Expenditures and Changes in Fund Balance as of June 30, 2019 (Unaudited) Schedule 3

Project	Description	Net Revenues through June 30, 2019	Total Net Revenues
R	High Frequency Metrolink Service	\$ 215,429	\$ 1,230,946
S	Transit Extensions to Metrolink	201,821	1,089,526
T	Metrolink Gateways	30,041	63,084
U	Expand Mobility Choices for Seniors and Persons with Disabilities	73,509	427,966
V	Community Based Transit/Circulators	45,713	246,778
W	Safe Transit Stops	5,046	27,238
	Subtotal Projects	571,559	3,085,538
	Net (Bond Revenue)/Debt Service	-	-
	Total Transit Projects	\$ 571,559	\$ 3,085,538
	%		
	Measure M2 Program	\$ 2,286,233	\$ 12,342,151
	Environmental Cleanup (2% of Revenues)		
X	Clean Up Highway and Street Runoff that Pollutes Beaches	\$ 48,910	\$ 264,860
	Net (Bond Revenue)/Debt Service	-	-
	Total Environmental Cleanup	\$ 48,910	\$ 264,860
	%		
	Taxpayer Safeguards and Audits		
	Collect Sales Taxes (1.5% of Sales Taxes)	\$ 36,206	\$ 196,069
	%		
	Oversight and Annual Audits (1% of Revenues)	\$ 24,455	\$ 132,430
	%		

FINANCING

Schedule of Revenues, Expenditures and Changes in Fund Balance as of June 30, 2019 (Unaudited) Schedule 3

Expenditures through June 30, 2019	Reimbursements through June 30, 2019	Net M2 Cost
\$ 290,411	\$ 98,736	\$ 191,675
44,488	2,133	42,355
98,228	60,956	37,272
71,654	88	71,566
7,874	756	7,118
1,045	26	1,019
513,700	162,695	351,005
28,133	-	28,133
\$ 541,833	\$ 162,695	\$ 379,138
		19.8%
<u>\$ 2,703,038</u>	<u>\$ 784,464</u>	<u>\$ 1,918,574</u>
\$ 41,920	\$ 292	\$ 41,628
-	-	-
\$ 41,920	\$ 292	\$ 41,628
		1.7%
\$ 26,292	\$ -	\$ 26,292
		1.1%
\$ 25,066	\$ 611	\$ 24,455
		1.0%

LOCAL FAIR SHARE

M2 Funds		
ENTITY	4th Quarter FY 2018-19	FUNDS TO DATE
ALISO VIEJO	\$229,094	\$4,996,036
ANAHEIM	\$1,963,625	\$43,380,243
BREA	\$320,163	\$7,195,423
BUENA PARK	\$477,633	\$11,262,053
COSTA MESA	\$830,711	\$18,270,867
CYPRESS	\$288,147	\$6,649,582
DANA POINT	\$193,317	\$4,162,091
FOUNTAIN VALLEY	\$343,626	\$7,807,344
FULLERTON	\$731,643	\$16,348,379
GARDEN GROVE	\$830,336	\$18,699,501
HUNTINGTON BEACH	\$1,096,931	\$24,403,900
IRVINE	\$1,589,583	\$33,777,153
LAGUNA BEACH	\$144,130	\$3,208,869
LAGUNA HILLS	\$191,647	\$4,286,277
LAGUNA NIGUEL	\$366,497	\$8,380,721
LAGUNA WOODS	\$70,632	\$1,604,393
LA HABRA	\$291,604	\$6,614,757
LAKE FOREST	\$450,122	\$9,925,019

LOCAL FAIR SHARE

M2 Funds		
ENTITY	4th Quarter FY 2018-19	FUNDS TO DATE
LA PALMA	\$84,964	\$2,087,294
LOS ALAMITOS	\$73,189	\$1,630,967
MISSION VIEJO	\$520,127	\$11,765,675
NEWPORT BEACH	\$621,217	\$13,815,420
ORANGE	\$930,617	\$20,706,668
PLACENTIA	\$268,500	\$5,979,184
RANCHO SANTA MARGARITA	\$237,987	\$5,328,246
SAN CLEMENTE	\$320,941	\$7,054,473
SAN JUAN CAPISTRANO	\$211,281	\$4,759,093
SANTA ANA	\$0*	\$33,406,560
SEAL BEACH	\$137,063	\$3,162,864
STANTON	\$0*	\$3,605,030
TUSTIN	\$507,201	\$11,223,088
VILLA PARK	\$29,328	\$656,501
WESTMINSTER	\$484,652	\$10,770,729
YORBA LINDA	\$339,550	\$7,545,525
COUNTY UNINCORPORATED	\$1,128,717	\$23,619,343
TOTAL M2 FUNDS	\$16,304,773	\$398,089,266

*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.

ENTITY	4th Quarter FY 2018-19	SUSPENDED FUNDS TO DATE
SANTA ANA	\$1,566,635	\$1,566,635
STANTON	\$166,069	\$166,069
TOTAL M2 FUNDS	\$1,732,704	\$1,732,704

CAPITAL ACTION PLAN

Grey = Milestone achieved

Green = Forecast milestone meets or exceeds plan

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

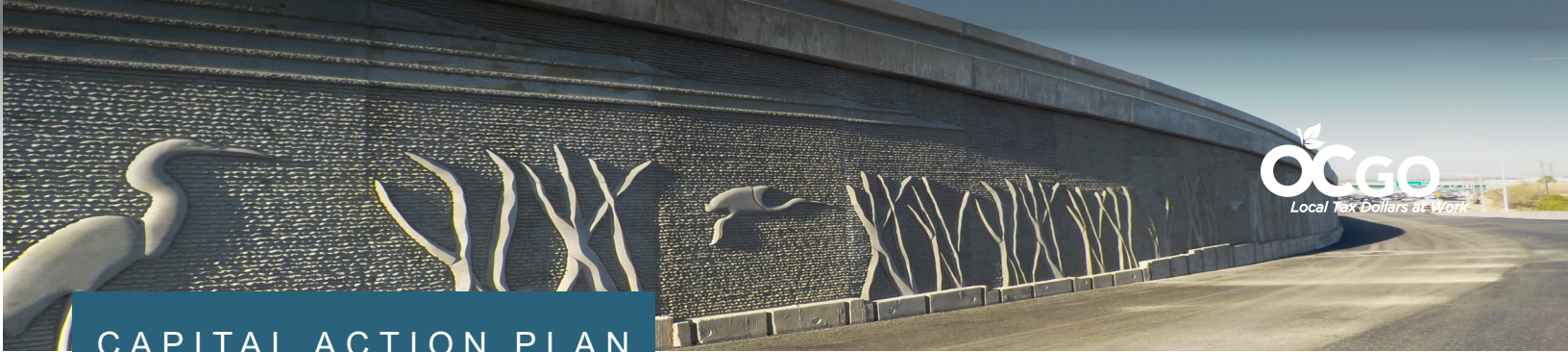
Red = Forecast milestone is over three months later than plan

Non-bolded = Planned/Baseline

Bold = Forecasted/Actual

Capital Projects	Cost	Schedule			
	Baseline/Forecast	Plan/Forecast			
	(millions)	Begin Environmental	Begin Design	Award Contract	Complete Construction
Freeway Projects:					
I-5, SR-55 to SR-57	\$38.1	Jul-11	Jun-15	Dec-17	Apr-21
Project A	\$41.5	Jun-11	Jun-15	Nov-18	Apr-21
I-5, I-405 to SR-55	TBD	May-14	TBD	TBD	TBD
Project B	TBD	May-14	TBD	TBD	TBD
I-5, Pico to Vista Hermosa	\$113.0	Jun-09	Jun-11	Dec-14	Aug-18
Project C	\$83.5	Jun-09	Jun-11	Dec-14	Aug-18
I-5, Vista Hermosa to Pacific Coast Highway	\$75.6	Jun-09	Jun-11	Dec-13	Mar-17
Project C	\$75.7	Jun-09	Jun-11	Jun-14	Jul-17
I-5, Pacific Coast Highway to San Juan Creek Road	\$70.7	Jun-09	Jun-11	Oct-13	Sep-16
Project C Cost/Schedule Risk	\$75.5	Jun-09	Jun-11	Dec-13	Jul-18
I-5, SR-73 to Oso Parkway	\$151.9	Sep-11	Mar-15	Dec-18	Jan-24
Project C & D Cost/Schedule Risk	\$196.1	Oct-11	Mar-15	Dec-19	Feb-25
I-5, Oso Parkway to Alicia Parkway	\$196.2	Sep-11	Nov-14	Jun-18	Nov-23
Project C & D	\$203.1	Oct-11	Nov-14	Mar-19	Nov-23
I-5, Alicia Parkway to El Toro Road	\$133.6	Sep-11	Mar-15	May-19	Jun-23
Project C Cost/Schedule Risk	\$182.0	Oct-11	Mar-15	Jun-20	Jul-24
I-5, SR-73 to El Toro Road (Landscape)	TBD	N/A	TBD	TBD	TBD
Project C	\$12.4	N/A	Jan-22	Jun-24	Dec-25
I-5, I-5/Ortega Interchange	\$90.9	Sep-05	Jan-09	Aug-12	Sep-15
Project D	\$78.2	Sep-05	Jan-09	Aug-12	Jan-16

*Status through June 2019. For detailed project information, please refer to the individual project section within this report.



CAPITAL ACTION PLAN

- Grey = Milestone achieved
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- 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
I-5, I-5/El Toro Road Interchange	TBD	Apr-17	TBD	TBD	TBD
Project D	TBD	Apr-17	TBD	TBD	TBD
I-5, I-5/Ortega Interchange (Landscape)	N/A	N/A	N/A	N/A	N/A
Project D	N/A	N/A	Jan-14	Sep-15	Sep-16
SR-55, I-405 to I-5	\$410.9	Feb-11	Sep-17	Jul-21	Aug-25
Project F Cost/Schedule Risk	\$410.9	May-11	Sep-17	Jul-21	Aug-25
SR-55, I-5 to SR-91	TBD	Dec-16	TBD	TBD	TBD
Project F	TBD	Dec-16	TBD	TBD	TBD
SR-57 Northbound (NB), Orangewood Avenue to Katella Avenue	TBD	Apr-16	TBD	TBD	TBD
Project G	TBD	Apr-16	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	Apr-08	Aug-08	Oct-11	Apr-15
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	May-09	Sep-17	Jun-18
SR-57 (NB), Orangethorpe Avenue to Yorba Linda Boulevard	\$80.2	Aug-05	Feb-08	Oct-10	May-14
Project G	\$52.3	Aug-05	Feb-08	Oct-10	Nov-14
SR-57 (NB), Yorba Linda Boulevard to Lambert Road	\$79.3	Aug-05	Feb-08	Oct-10	Sep-14
Project G	\$54.1	Aug-05	Feb-08	Oct-10	May-14
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	Oct-14	Feb-18	Apr-19

*Status through June 2019. For detailed project information, please refer to the individual project section within this report.

CAPITAL ACTION PLAN

Grey = Milestone achieved

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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
SR-57 (NB), Lambert Road to Tonner Canyon	TBD	TBD	TBD	TBD	TBD
Project G	TBD	Jul-20	TBD	TBD	TBD
SR-91 Westbound (WB), I-5 to SR-57	\$78.1	Jul-07	Oct-09	Nov-12	Apr-16
Project H	\$59.2	Jul-07	Mar-10	Jan-13	Jun-16
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	Nov-14	Mar-17	Nov-17
SR-91, SR-57 to SR-55	TBD	Jan-15	TBD	TBD	TBD
Project I Cost/Schedule Risk	TBD	Jan-15	TBD	TBD	TBD
SR-91 (WB), Tustin Interchange to SR-55	\$49.9	Jul-08	Jul-11	Oct-13	Jul-16
Project I	\$42.5	Jul-08	Jun-11	Oct-13	Jul-16
SR-91, SR-55 to SR-241	\$128.4	Jul-07	Jun-09	Sep-11	Dec-12
Project J	\$79.7	Jul-07	Apr-09	May-11	Mar-13
SR-91, SR-55 to SR-241 (Landscape)	N/A	N/A	N/A	N/A	N/A
Project J	N/A	N/A	May-12	Oct-13	Feb-15
SR-91 Eastbound, SR-241 to SR-71	\$104.5	Mar-05	Jul-07	Jul-09	Nov-10
Project J	\$57.8	Mar-05	Jul-07	Aug-09	Jan-11
I-405, I-5 to SR-55	TBD	Dec-14	TBD	TBD	TBD
Project L	TBD	Dec-14	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	Mar-09	Mar-14	Nov-16	May-23

*Status through June 2019. For detailed project information, please refer to the individual project section within this report.



CAPITAL ACTION PLAN

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 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
I-605, I-605/Katella Interchange	TBD	Aug-16	TBD	TBD	TBD
Project M	TBD	Aug-16	TBD	TBD	TBD
Grade Separation Projects:					
Kraemer Boulevard Railroad Grade Separation	\$70.4	Jan-01	Jan-09	Aug-11	Oct-14
Project O	\$63.8	Jan-01	Feb-09	Sep-11	Dec-14
Lakeview Avenue Railroad Grade Separation	\$70.2	Jan-01	Feb-09	May-13	Mar-17
Project O	\$110.6	Jan-01	Feb-09	Nov-13	Jun-17
Orangethorpe Avenue Railroad Grade Separation	\$117.4	Jan-01	Feb-09	May-12	Sep-16
Project O	\$108.6	Jan-01	Feb-09	Jan-13	Oct-16
Placentia Avenue Railroad Grade Separation	\$78.2	Jan-01	Jan-09	Jun-11	Nov-14
Project O	\$64.5	Jan-01	Jan-09	Jul-11	Dec-14
Raymond Avenue Railroad Grade Separation	\$77.2	Feb-09	Mar-10	May-13	Aug-18
Project O	\$125.1	Feb-09	Mar-10	Feb-14	May-18
State College Boulevard Railroad Grade Separation (Fullerton)	\$73.6	Dec-08	Jul-06	May-13	May-18
Project O	\$100.3	Dec-08	Jul-06	Feb-14	Mar-18
Tustin Avenue/Rose Drive Railroad Grade Separation	\$103.0	Jan-01	Feb-09	Aug-12	May-16
Project O	\$98.3	Jan-01	Feb-09	Feb-13	Oct-16
Rail and Station Projects:					
17th Street Railroad Grade Separation	TBD	Oct-14	TBD	TBD	TBD
Project R	TBD	Oct-14	TBD	TBD	TBD

*Status through June 2019. For detailed project information, please refer to the individual project section within this report.

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
Sand Canyon Avenue Railroad Grade Separation	\$55.6	N/A	Jan-04	Feb-11	May-14
Project R	\$61.9	N/A	Jan-04	Feb-11	Jan-16
Rail-Highway Grade Crossing Safety Enhancement	\$94.4	Jan-08	Jan-08	Aug-09	Dec-11
Project R	\$90.4	Jan-08	Jan-08	Aug-09	Dec-11
San Clemente Beach Trail Safety Enhancements	\$6.0	Sep-10	Feb-12	Oct-12	Jan-14
Project R	\$5.0	Sep-10	Feb-12	May-13	Mar-14
San Juan Capistrano Passing Siding	\$25.3	Aug-11	Mar-15	Dec-16	Feb-21
	\$34.1	Aug-11	Mar-15	Mar-19	Feb-21
Placentia Metrolink Station and Parking Structure	\$34.8	Jan-03	Oct-08	TBD	TBD
Project R Cost/Schedule Risk	\$34.8	Jan-03	Oct-08	May-20	Dec-21
Anaheim Canyon Station	\$27.9	Jan-16	Mar-19	Nov-19	Mar-21
	\$29.9	Jan-16	Mar-18	Apr-20	Aug-21
Orange Station Parking Expansion	\$33.2	Dec-09	Nov-10	Nov-16	Feb-19
	\$32.3	Dec-09	Nov-10	Jun-17	Feb-19
Fullerton Transportation Center - Elevator Upgrades	\$3.5	N/A	Jan-12	Sep-14	Mar-17
Cost/Schedule Risk	\$4.6	N/A	Jan-12	Apr-15	May-19
Laguna Niguel/Mission Viejo Station ADA Ramps	\$3.5	Jul-13	Jul-13	Jan-15	Apr-17
	\$5.0	Jul-13	Jul-13	Oct-15	Sep-17
Anaheim Regional Transportation Intermodal Center	\$227.4	Apr-09	Jun-09	Jul-12	Nov-14
Project R & T	\$232.2	Apr-09	Jun-09	Sep-12	Dec-14
OC Streetcar	\$424.4	Aug-09	Feb-16	Aug-18	Dec-21
Project S Cost/Schedule Risk	\$424.4	Aug-09	Feb-16	Sep-18	Feb-22

*Status through June 2019. For detailed project information, please refer to the individual project section within this report.

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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
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