

**Orange County Transportation Authority
2020 State Transportation Improvement Program
Project Descriptions and Programming Information**

Carryover Projects

State Route 55 (SR-55) Improvement Project from Interstate 405 (I-405) to Interstate 5 (I-5)

This project will add new high-occupancy vehicle (HOV), general-purpose and auxiliary lanes on SR-55 between the I-405 and the I-5 connectors to increase freeway capacity and reduce congestion in central Orange County areas. The project is located in the cities of Irvine, Santa Ana, and Tustin.

Future traffic demand is anticipated to increase traffic volumes to levels that will increase traffic congestion, increase travel delays, and reduce travel speeds. It is anticipated that without additional major capital improvements, the level of service (LOS) for the majority of the study area in the northbound and southbound directions would be unacceptable during AM and PM peak periods.

The Orange County Transportation Authority (OCTA) will seek approval to advance the \$80 million in State Transportation Improvement Program (STIP) funds from fiscal year (FY) 2021-22 to FY 2020-21. The project is a high priority for OCTA and Project F in the Next 10 Delivery Plan.

Staff will negotiate with the California Transportation Commission (CTC) to advance the project based on OCTA's request to delay \$86.589 million in STIP, which is derived from:

- \$69.911 million – I-5 improvements from Alicia Parkway to El Toro Road (Segment 3),
- \$4.050 million – State Route 57 (SR-57) Truck Climbing Lane Phase II – Lambert Road to the County line,
- \$12.628 million – design phase of the I-5 improvements from I-405 to SR-55.

While OCTA is requesting that CTC allow the advancement of STIP funds into FY 2020-21, the funding amounts and sources are not changing. The existing funding is depicted in the table below.

Existing Funding (\$000s)	STIP	SHOPP	STBG	OCTA M2	CMAQ	INFRA/SCCP/ Other	TOTAL
Environmental		\$ 200		\$ 6,332			\$ 6,532
Design		\$ 3,500	\$ 17,000	\$ 1,539			\$ 22,039
Right-of-Way		\$ 27,200	\$ 63,450	\$ 50,899	\$ 20,000		\$ 161,549
Construction	\$ 80,000	\$ 15,900		\$ 51,557	\$ 3,355	\$ 75,000	\$ 225,812
Total	\$ 80,000	\$ 46,800	\$ 80,450	\$ 110,327	\$ 23,355	\$ 75,000	\$ 415,932

SHOPP – State Highway Operation and Protection Program
STBG – Surface Transportation Block Grant
M2 – Measure M2

CMAQ – Congestion Mitigation Air Quality
INFRA – Infrastructure for Rebuilding America
SCCP – Solutions for Congested Corridors Program

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I-5 Improvements from State Route 73 (SR-73) to El Toro Road (Replacement Planting/Landscaping)

This is an existing 2020 STIP project and based on updated schedules, staff is recommending delaying the \$6 million in STIP funding from FY 2022-23 to FY 2024-25. The delay in STIP funding is consistent with the current schedule. This is part of Project C in the Next 10 Delivery Plan and is the replacement planting/landscaping component of the three segments of the I-5 Improvement Project from SR-73 to El Toro Road.

Existing funding level is depicted below.

Existing Funding (\$000s)	STIP	OCTA M2	TOTAL
Environmental	\$ -	\$ -	\$ -
Design	\$ 650	\$ 400	\$ 1,050
Right-of-Way	\$ 50		\$ 50
Construction	\$ 5,300	\$ 5,845	\$ 11,145
Total	\$ 6,000	\$ 6,245	\$ 12,245

Planning, Programming, and Monitoring (PPM)

Orange County is impacted by severe congestion on many regional and interregional facilities. Examination of the problem and potential solutions are necessary for the future construction of improvements. STIP funds will be used to develop project study reports and provide environmental clearance for projects, thus creating a shelf of projects for the future. CTC sets aside five percent of the STIP for regional agencies to carry out planning activities.

OCTA is requesting the set aside of \$5.267 million in STIP PPM to support consultants and staff in developing the Long-Range Transportation Plan and multimodal strategies to address the short- and long-term transportation needs for Orange County and regional connections, and to guide the expenditure of federal, state, and local transportation funds. These funds will be spread out over the five-year period and will support multiple planning projects.

New Additions

I-5 Improvements from I-405 to SR-55 (Segments 1 and 2)

This project will add one general-purpose lane in both directions of the I-5 from the I-405 to SR-55. Additional features of the project include improvements to various interchanges. Auxiliary lanes will be added in some segments and re-established in others within the project limits. The overall project length is approximately nine miles.

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Currently, this segment of the I-5 corridor is experiencing congestion and long traffic delays due to demand exceeding capacity, primarily resulting from local, regional, and interregional traffic demand. In addition, forecasted local and regional traffic demand is expected to increase by over 10,000 vehicles per day by the year 2040. This is Project B in the Next 10 Plan.

Due to the inability to advance the project's STIP funding for the design phase of the projects from FY 2022-23 to FY 2020-21, staff is recommending redirecting \$12.628 million in STIP funds programmed to the design phase in FY 2022-23 to the construction phase in FY 2023-24. Additionally, the project will be segmented into two sections, I-5 from I-405 to Yale Avenue (Segment 1) and I-5 from Yale Avenue to SR-55 (Segment 2). Staff is recommending Board of Directors (Board) approval to fund the design, right-of-way, and construction phases of Segment 1, with an additional \$40.512 million in STBG funds, \$44.791 million in SB 1 (Chapter 5, Statutes of 2017) Local Partnership Program (LPP) funds, and an additional \$22.417 million in M2 (M2) funds. Staff will return to the Board with a funding plan for Segment 2 at a future meeting.

Existing and proposed funding levels are depicted below.

Existing Funding (\$000s)	STIP	STBG	LPP	OCTA M2	TOTAL
Environmental		\$ 8,000			\$ 8,000
Design	\$ 12,628	\$ 7,372		\$ 5,000	\$ 25,000
Right-of-Way					
Construction					
Total	\$ 12,628	\$ 15,372		\$ 5,000	\$ 33,000

Proposed Funding for Segment 1 (\$000s)	STIP	STBG	LPP	OCTA M2	TOTAL
Environmental		\$ 8,000			\$ 8,000
Design	-		\$ 14,791	-	\$ 14,791
Right-of-Way		\$ 27,459		\$ 6,729	\$ 34,188
Construction	\$ 95,338	\$ 20,425	\$ 30,000	\$ 20,688	\$ 116,451
Total	\$ 95,338	\$ 55,884	\$ 44,791	\$ 27,417	\$ 223,430
Change	\$ 82,710	\$ 40,512	\$ 44,791	\$ 22,417	\$ 190,430

State Route 74 (SR-74) Ortega Highway Improvements – Calle Entradero to the City/ County Line

This project will widen SR-74/Ortega Highway from two to four lanes by adding one lane in each direction in the City of San Juan Capistrano from Calle Entradero to the City/ County line.

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This is a new project proposed in the 2020 STIP, and staff is recommending \$8.540 million for the design phase in FY 2024-25. This is an important project for the region and one of the most heavily utilized local roads in the area. Currently, the existing traffic demand exceeds traffic capacity and operates at a LOS E, and will operate at LOS F in the year 2025. It has also received funding in the past through M2 Project O – Regional Capacity Program. The M2 Ordinance requires OCTA to seek out state and federal funds that could support projects in place of M2 funds.

Proposed funding levels are depicted below.

Proposed Funding (\$000s)	STIP	TOTAL
Design	\$ 8,540	\$ 8,540
Total	\$ 8,540	\$ 8,540

I-5 Improvement from Avenida Pico to the San Diego County Line

STIP funds are proposed for the environmental phase of the I-5 Improvement Project from Avenida Pico to the San Diego County line, which proposes to add a general-purpose or a managed lane in each direction on the I-5, reestablish existing auxiliary lanes, widen existing undercrossings, and replace existing overcrossings.

Staff is recommending \$5.5 million for the design phase in FY 2023-24. This is adjacent and complementary to Project C in the Next 10 Delivery Plan.

Existing and proposed funding levels are depicted below.

Existing Funding (\$000s)	CMAQ	STBG	STIP	TOTAL
Environmental	\$ 450	\$ 121		\$ 571
Design				
Project Management				
Total	\$ 450	\$ 121		\$ 571

Proposed Funding (\$000s)	CMAQ	STBG	STIP	TOTAL
Environmental	\$ 450	\$ 121		\$ 571
Design			\$ 5,500	\$ 5,500
Project Management				
Total	\$ 450	\$ 121	\$ 5,500	\$ 6,071
Change	\$ -	\$ -	\$ 5,500	\$ 5,500

Interstate 605 (I-605) Katella Avenue Interchange

The I-605 and Katella Avenue Interchange Project will improve freeway access, traffic operations, enhance safety, and improve pedestrian and bicycle facilities. Staff is recommending \$3 million for the design phase in FY 2024-25. This is Project M in the Next 10 Delivery Plan.

Existing and proposed funding levels are depicted below.

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Existing Funding (\$000s)	STIP	OCTA M2	TOTAL
Environmental		\$ 1,824	\$ 1,824
Design			
Total		\$ 1,824	\$ 1,824

Proposed Funding (\$000s)	STIP	OCTA M2	TOTAL
Environmental		\$ 1,824	\$ 1,824
Design	\$ 3,000		\$ 3,000
Total	\$ 3,000	\$ 1,824	\$ 4,824
Change	\$ 3,000	\$ -	\$ 3,000

Locally Funded with M2 and State Funds

I-5 Widening from Alicia Parkway to El Toro Road (Segment 3)

The project will add one general-purpose lane on I-5 in each direction between Alicia Parkway and El Toro Road (approximately 1.7 miles), extend the second HOV lane in both directions, and add auxiliary lanes where needed. The additional lane will increase capacity and improve mainline congestion on I-5 from Alicia Parkway and El Toro Road. This is Project C in the Next 10 Plan. Under current traffic conditions, substantial congestion is experienced, and this project will help alleviate congestion and provide air quality benefits.

This project is expected to be ready to list STIP funding to FY 2019-20 from FY 2022-23. Staff is recommending the \$69.911 million in STIP funds be removed from the project and the funds be redirected to projects, which are anticipated to be delivered in the last two years of the 2020 STIP cycle. Staff is recommending Board approval to use \$69.911 million in M2 in place of the STIP funds.

Existing and proposed funding levels are depicted below.

Existing Funding (\$000s)	STIP	SB 1 Local Partnership	OCTA M2	STBG	TOTAL
Environmental			\$ 181	\$ 1,666	\$ 1,847
Design			\$ 1,387	\$ 8,044	\$ 9,431
Right-of-Way			\$ 17,623	\$ 9,419	\$ 27,042
Construction	\$ 69,911	\$ 9,388	\$ 31,093	\$ 30,768	\$ 141,160
Total	\$ 69,911	\$ 9,388	\$ 50,284	\$ 49,897	\$ 179,480

Proposed Funding (\$000s)	STIP	SB 1 Local Partnership	OCTA M2	STBG	TOTAL
Environmental			\$ 181	\$ 1,666	\$ 1,847
Design			\$ 1,387	\$ 8,044	\$ 9,431
Right-of-Way			\$ 17,623	\$ 9,419	\$ 27,042
Construction		\$ 9,388	\$ 101,004	\$ 30,768	\$ 141,160
Total	-	\$ 9,388	\$ 120,195	\$ 49,897	\$ 179,480
Change	\$ (69,911)	-	\$ 69,911	-	-

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Seek Future Funding

SR-57 Truck Climbing Lane Phase II – Lambert Road to County Line

STIP funding was proposed for the project approval and environmental document phase of this project that would have constructed a truck climbing lane on the SR-57 from the Lambert Road undercrossing to just north of the Orange County/Los Angeles County line. A climbing lane would improve truck traffic travel speeds and would increase the throughput of the northbound SR-57. This project is Project G in the Next 10 Plan.

Due to the diminished STIP capacity and the need to focus on high-priority projects staff is recommending the \$4.05 million in STIP funds be removed and reprogrammed to higher priority projects. Staff will recommend a funding plan for this project at a later date.

Interregional Transportation Improvement Program Project

Orange Olive Wye Connection Project

This project will convert the existing uncontrolled Orange Wye into a fully controlled track at the junction of the Orange Subdivision and the Olive Subdivision, maintained by Southern California Regional Rail Authority, owned by OCTA, and located in the City of Orange. A private grade crossing would also be improved to have automatic warning devices.

This is an ITIP project and OCTA has requested the California Department of Transportation Division of Mass Transit consider this project for their submittal.

Proposed funding levels are depicted below.

Proposed Funding (\$000s)	STIP - ITIP	TOTAL
Environmental		
Design	\$ 1,600	\$ 1,600
Right-of-Way		
Construction	\$ 14,400	\$ 14,400
Total	\$ 16,000	\$ 16,000