

MEMORANDUM

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: December 5-6, 2024

From: STEVEN KECK, Chief Financial Officer

Reference Number: 2.1a.(1), Action Item

Prepared By: James R. Anderson, Chief
Division of Financial Programming

Subject: **SHOPP AMENDMENT 24H-006**

ISSUE:

Should the California Transportation Commission (Commission) approve the California Department of Transportation's (Department) request to amend the 2024 State Highway Operation and Protection Program (SHOPP) under SHOPP Amendment 24H-006?

RECOMMENDATION:

The Department recommends that the Commission approve SHOPP Amendment 24H-006 that will amend the 2024 SHOPP, in accordance with Senate Bill (SB) 486 and the Road Maintenance and Rehabilitation Program component of SB 1, which require the Commission to approve changes to projects in the SHOPP or to adopt new projects being amended into the SHOPP.

The Department recommends 16 new capital projects be amended into the 2024 SHOPP, as detailed in 2.1a.(1a). This amendment, summarized below, would be funded from the Bridge Preservation, Collision Reduction, Major Damage Restoration, Mobility, 2024 SHOPP programming capacity and the Infrastructure Investment and Jobs Act (IIJA). These projects are consistent with the 2022 Transportation Asset Management Plan (TAMP).

2024 SHOPP Summary of New Projects	No.	FY 2024-25 (\$1,000)	FY 2025-26 (\$1,000)	FY 2026-27 (\$1,000)	FY 2027-28 (\$1,000)
Bridge Preservation	1	\$82,952	\$0	\$0	\$0
Collision Reduction	3	\$0	\$0	\$21,453	\$0
Major Damage Restoration	11	\$33,609	\$0	\$0	\$0
Mobility	1	\$3,750	\$0	\$0	\$0
Total New Amendments	16	\$120,311	\$0	\$21,453	\$0

“Provide a safe and reliable transportation network that serves all people and respects the environment.”

The Department further recommends that the capital projects detailed in 2.1a.(1d) be amended in the 2024 SHOPP to update scope, schedule, cost and make other technical changes. The amended projects are consistent with the Commission-adopted 2022 TAMP.

BACKGROUND:

In each even-numbered year, the Department prepares a 4-year SHOPP which defines major capital improvements necessary to preserve and protect the State Highway System. Periodically, the Department proposes amendments to the SHOPP to address newly identified needs prior to the next programming cycle. Between programming cycles, the Department updates scope, schedule and cost to effectively deliver projects.

SB 486, approved by the Governor on September 30, 2014, requires Commission approval of projects amended into the SHOPP.

Attachments

“Provide a safe and reliable transportation network that serves all people and respects the environment.”

List of New 2024 SHOPP Capital Project Amendments

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work	FY	Project Costs (\$1,000)		Program Code Leg./Congress. Dists. Perf. Meas.
Bridge Preservation					
1 02-Sha-299 13.55/14.58 3933 0225000023 2K000	Near Shasta, from 0.4 mile west of Whiskey Creek Road to 0.1 mile east of Lake Vista Overlook at Whiskey Creek Bridge No. 06-0096. Remove existing superstructure due to deficient welds found in the fracture critical steel girders, construct new superstructure with bike lanes and 8-foot shoulders on existing piers and abutments, and improve horizontal alignment at bridge approaches. This project will utilize the Emergency Limited Bid contract method.	24-25	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$8,708 \$0 <u>\$74,244</u> \$82,952	201.116 Assembly: 1 Senate: 1 Congress: 1

PA&ED: N/A
 R/W: 11/07/2024
 RTL: 11/07/2024
 BC: 12/10/2024

Performance Measure

1.0 Bridge(s)

Concurrent CONST and CON ENG allocation under Resolution FP-24-42; December 2024.

Performance Measure: Bridge(s)					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Square feet	0.0	0.0	29,848.0	29,848.0
Post Condition	Square feet	57,733.0	0.0	0.0	57,733.0

List of New 2024 SHOPP Capital Project Amendments

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work	FY	Project Costs (\$1,000)		Program Code Leg./Congress. Dists. Perf. Meas.	
Collision Reduction						
2 03-Col-5 R6.67/R7.94 3168 0324000166 0N640	In Colusa, El Dorado, Sutter, and Sacramento Counties, on Routes 5, 49, 99, and 104 at various locations. Install curve warning signs, flashing beacons, rumble strips, radar speed feedback signs, and intersection warning systems, and upgrade roadside signs.	26-27	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$510 \$900 \$40 \$930 \$50 <u>\$4,000</u> \$6,430	24-25 25-26 25-26 26-27 26-27 26-27	201.010 Assembly: 3, 4, 5, 9 Senate: 1, 4, 6 Congress: 1, 5, 7
	PA&ED: 7/15/2025 R/W: 5/15/2026 RTL: 7/15/2026 BC: 12/1/2026					
	<u>Performance Measure</u> 1.17 Annual fatal and serious injury collision(s) Concurrent COS allocation under Resolution FP-24-43; December 2024.					
3 08-Riv-86 R2.5/R4.5 3018F 0824000174 1M290	Near Oasis, from 1.0 mile south to 1.0 mile north of 81st Avenue. Install signals and modify existing left-turn lanes at intersection.	26-27	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,573 \$2,060 \$134 \$1,350 \$40 <u>\$4,018</u> \$9,175	24-25 25-26 25-26 26-27 26-27 26-27	201.010 Assembly: 36 Senate: 18 Congress: 25
	PA&ED: 11/3/2025 R/W: 11/3/2026 RTL: 1/4/2027 BC: 7/1/2027					
	<u>Performance Measure</u> 0.36 Annual fatal and serious injury collision(s) Concurrent COS allocation under Resolution FP-24-43; December 2024.					

List of New 2024 SHOPP Capital Project Amendments

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work	FY	Project Costs (\$1,000)		Program Code Leg./Congress. Dists. Perf. Meas.				
4 08-SBd-Var Var 3024R 0824000192 0P040	In San Bernardino County, on Routes 2, 18, 38, and 330 at various locations. Construct warning signs, radar speed feedback signs, and speed reduction markings. PA&ED: 11/3/2025 R/W: 6/1/2026 RTL: 7/6/2026 BC: 1/4/2027	26-27	PA&ED	\$1,118	24-25	201.010 Assembly: 34, 41 Senate: 19, 23 Congress: 23, 28			
			PS&E	\$814	25-26				
			R/W Sup	\$51	25-26				
			Con Sup	\$1,102	26-27				
			R/W Cap	\$20	26-27				
			<u>Const Cap</u>	<u>\$2,743</u>	26-27				
			Total	\$5,848					
			<u>Performance Measure</u>						
			2.75 Annual fatal and serious injury collision(s)						
			Concurrent COS allocation under Resolution FP-24-43; December 2024.						

Major Damage Restoration

5 03-But-32 R17.45/37.749 2125 0325000029 1N440	Near Chico, from 0.5 mile west of Santos Ranch Road to 0.8 mile east of Humboldt Road. Remove hazard trees, repair pavement, replace damaged fencing, guardrail and signs, install catch basins and debris racks, and place erosion control.	24-25	PA&ED	\$0	24-25	201.130 Assembly: 3 Senate: 1 Congress: 1
			PS&E	\$0		
			R/W Sup	\$0		
			Con Sup	\$250		
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$1,000</u>		
			Total	\$1,250		
<u>Performance Measure</u>						
5.0 Location(s)						
<u>Note:</u> On July 24, 2024, the Park Fire began as a result of arson northeast of Chico. As of August 12, 2024, the fire has burned nearly 429,000 acres. It caused damage to trees, fencing, pavement, ditches, and signs. The purpose of this project is to remove hazard trees, repair pavement, replace damaged fencing, guardrail and signs, install catch basins and debris racks, and place erosion control.						

List of New 2024 SHOPP Capital Project Amendments

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work	FY	Project Costs (\$1,000)		Program Code Leg./Congress. Dists. Perf. Meas.
6 03-But-70 16.63 2310 0325000041 1N500	Near Oroville, at Garden Drive Overcrossing No. 12-0166. Repair damaged girder.	24-25	PA&ED	\$0	201.130 Assembly: 3 Senate: 1 Congress: 1
			PS&E	\$0	
			R/W Sup	\$0	
			Con Sup	\$140	
			R/W Cap	\$0	
			<u>Const Cap</u>	<u>\$480</u>	
			Total	\$620	
<p><u>Note:</u> On September 17, 2024, the overcrossing was hit in the westbound direction by a truck hauling a backhoe. The collision damaged the bridge girder and one lane was closed to traffic. This project will repair the damaged girder. Abatement is being sought from the responsible party.</p>					
7 04-SM-280 R23.18/R23.28 2928P 0425000022 2X010	In Daly City, from King Drive to 0.1 mile north of King Drive. Abandon underdrain and repair sinkhole failure.	24-25	PA&ED	\$0	201.130 Assembly: 19 Senate: 11 Congress: 15
			PS&E	\$0	
			R/W Sup	\$0	
			Con Sup	\$210	
			R/W Cap	\$0	
			<u>Const Cap</u>	<u>\$585</u>	
			Total	\$795	
<p><u>Note:</u> A sinkhole was reported on August 8, 2024. On August 14, 2024, an investigation team conducted a site visit and identified the sinkhole. This project will import borrow, backfill the sinkhole, abandon the existing underdrain with grout, and reconstruct the pavement.</p>					

List of New 2024 SHOPP Capital Project Amendments

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work	FY	Project Costs (\$1,000)		Program Code Leg./Congress. Dists. Perf. Meas.	
8 05-SB-166 58.0/58.5 3238 0524000217 1S350	Near New Cuyama, from 0.5 mile west of Wasioja Road to Wasioja Road. Repairment embankment and drainage systems, and reconstruct roadway shoulder.	24-25	PA&ED	\$0	201.130	
			PS&E	\$0	Assembly: 37	
			R/W Sup	\$0	Senate: 19	
			Con Sup	\$370	24-25	Congress: 24
			R/W Cap	\$50	24-25	
			<u>Const Cap</u>	<u>\$1,500</u>	24-25	
	<u>Performance Measure</u>	Total	\$1,920			
	3.0 Location(s)					
	<u>Note:</u> On September 20, 2024 heavy storms resulted in debris flows that buried and overtopped Route 166, requiring a full closure. This project will repair embankment and drainage systems, and reconstruct roadway shoulder.					
9 05-SCr-1 36.4/37.45 3237 0524000216 1S340	Near Ano Nuevo State Park, from Waddell Creek Bridge to the San Mateo County line. Clear rockfall protection catchment and repair fencing.	24-25	PA&ED	\$0	201.130	
			PS&E	\$0	Assembly: 28	
			R/W Sup	\$0	Senate: 17	
			Con Sup	\$500	24-25	Congress: 19
			R/W Cap	\$10	24-25	
			<u>Const Cap</u>	<u>\$1,450</u>	24-25	
	<u>Performance Measure</u>	Total	\$1,960			
	1.0 Location(s)					
	<u>Note:</u> The Waddell Bluffs are prone to continuously shedding material from the slope. The rockfall protection system is approximately 5000 feet long. On September 12, 2024 the debris catchment system was inspected and has been determined to be at capacity and the rockfall fence has been damaged. The repairs are beyond the Department's forces to address. This project will clear the catchment and repair the fence.					

List of New 2024 SHOPP Capital Project Amendments

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work	FY	Project Costs (\$1,000)		Program Code Leg./Congress. Dists. Perf. Meas.
10 06-Fre-99 20.92 8127 0625000036 1H330	In the city of Fresno, at Tuolumne Street Overcrossing No. 42-0171. Repair bridge.	24-25	PA&ED	\$0	201.130 Assembly: 31 Senate: 14 Congress: 21
			PS&E	\$0	
			R/W Sup	\$0	
			Con Sup	\$514	
			R/W Cap	\$0	
			<u>Const Cap</u>	<u>\$1,285</u>	
	Total		\$1,799		
	<p><u>Note:</u> On July 19, 2024 a towing truck and trailer hauling an excavator struck the bridge. A damage assessment inspection indicates more damage than initially reported. This project will repair multiple reinforced concrete girders including remove unsound concrete, install mechanical reinforcement couplers, and patch girder surface damage. Abatement is being sought from the responsible party.</p>				
11 06-Tul-99 23.49 8129 0625000042 1H340	In and near the city of Tulare, at Avenue 184 Overcrossing No. 46-0192. Repair and replace damaged bridge girders.	24-25	PA&ED	\$0	201.130 Assembly: 33 Senate: 16 Congress: 22
			PS&E	\$0	
			R/W Sup	\$35	
			Con Sup	\$1,450	
			R/W Cap	\$750	
			<u>Const Cap</u>	<u>\$5,820</u>	
	Total		\$8,055		
	<p><u>Note:</u> On August 26, 2024 a towing truck and trailer carrying a large excavator traveling northbound struck and damaged the bridge overcrossing. After continued damage assessment, it was determined that the damages were more extensive than initially evaluated. This project will repair and replace multiple bridge girders. Abatement is being sought from the responsible party.</p>				

List of New 2024 SHOPP Capital Project Amendments

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work	FY	Project Costs (\$1,000)		Program Code Leg./Congress. Dists. Perf. Meas.	
12 07-LA-105 R2.001/R2.003 6097 0724000012 2XJ50	Near Hawthorne, at EB 105 to SB 405 Connector Tunnel No. 53-2436G and EB 105 to NB 405 Connector Tunnel No. 53-2437G. Repair or replace damaged ventilation, electrical, fire detection, and water pumping systems in the tunnels.	24-25	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$1,100 \$0 <u>\$3,510</u> \$4,610	24-25 24-25	201.130 Assembly: 61 Senate: 35 Congress: 43

Performance Measure

2.0 Location(s)

Note: An inspection conducted by CalFire in April 2024 found that the ventilation and fire safety systems are not operational. It was concluded that the heavy winter storms of February 2024 resulted in water infiltrating the control centers and short circuiting the system. The short circuited ventilation system began operating unattended for over six days in fire mode and the electrical equipment was damaged due to thermal overload of the systems. The water intrusion caused a complete failure of the ventilation and electrical distribution systems. These systems are critical for fighting fires in the tunnel and also prevent excessive accumulation of carbon monoxide inside the tunnels. This project will repair or replace the damaged ventilation, electrical, fire detection, and water pumping systems in the tunnels.

List of New 2024 SHOPP Capital Project Amendments

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work	FY	Project Costs (\$1,000)		Program Code Leg./Congress. Dists. Perf. Meas.	
13 11-Imp-Var Var 1543 1124000073 43219	In Imperial County, on Routes 78, 86, 98, and 111 at various locations. Remove debris and repair damaged drainage systems, pavement, and eroded and washed out slope embankments.	24-25	PA&ED	\$0	201.130	
			PS&E	\$0	Assembly: 36	
			R/W Sup	\$0	Senate: 18	
			Con Sup	\$1,200	24-25	Congress: 25
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$6,000</u>	24-25	
	<u>Performance Measure</u>		Total	\$7,200		
	4.0 Location(s)					
	<p><u>Note:</u> In August 2023, a heavy storm resulted in flash flooding causing debris to cover roadways, eroded and washed out slope embankments, and damaged pavement and overside drains. This project will remove the debris from the roadway and repair drainage systems, pavement, and slope embankments.</p>					
14 11-SD-5 4.67 1566 1124000212 43230	In the city of San Diego, at 75/5 Separation Pump Plant ID 57-0180W. Replace damaged pumps and pump control system, and repair the discharge box.	24-25	PA&ED	\$0	201.130	
			PS&E	\$0	Assembly: 80	
			R/W Sup	\$0	Senate: 18	
			Con Sup	\$400	24-25	Congress: 52
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$2,000</u>	24-25	
	<u>Performance Measure</u>		Total	\$2,400		
	1.0 Location(s)					
	<p><u>Note:</u> Heavy storms in April 2023 brought heavy rains that resulted in flooding, causing water to spill into the pumphouse dry-pit submerging pumps and motors and leakage from the discharge box. This project will replace damaged pumps and pump control system, and repair discharge box.</p>					

List of New 2024 SHOPP Capital Project Amendments

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work	FY	Project Costs (\$1,000)		Program Code Leg./Congress. Dists. Perf. Meas.	
15 11-SD-Var Var 1586 1124000251 43250	In San Diego County, on Routes 5, 56, 78, and 905 at various locations. Repair damaged pavement, drainage systems, and slope embankment.	24-25	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$500 \$0 <u>\$2,500</u> \$3,000	24-25 24-25	201.130 Assembly: 74, 76, 77, 80 Senate: 18, 38, 40 Congress: 49, 50, 51, 52

Note: Heavy winter storms on January 22, 2024 and from February 1, 2024 to February 2, 2024, brought heavy rains that caused multiple sinkholes and washouts, as well as damage to drainage systems. On February 4, 2024, the Governor issued an Emergency Proclamation for San Diego County. This project will repair damaged pavement, drainage systems, and slope embankment.

Mobility

16 06-Tul-190 13.1/16.6 8106 0619000026 0Q432	In and near Porterville, from 0.4 mile west of South Westwood Drive to 0.1 mile east of South Main Street. Construct roundabouts, turn lanes, channelization, and signalized intersections. (Additional contribution: \$5,070,000 RW Cap and \$10,100,000 CONST from Tulare County Association of Governments)	24-25	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$70 \$230 \$2,000 \$0 <u>\$1,450</u> \$3,750	24-25 24-25 24-25 24-25	201.310 Assembly: 33 Senate: 16 Congress: 22
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PA&ED: N/A
 R/W: N/A
 RTL: 1/15/2025
 BC: 9/1/2025

Performance Measure
 441.0 Daily vehicle hour(s) of delay (DVHD)

Concurrent COS allocation under Resolution FP-24-43; December 2024.

List of 2024 SHOPP Amendments (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
1 03-Sac-5 25.3/34.4 5859 0316000063 1H170	In and near the city of Sacramento, from American River Bridge to Sacramento River Bridge. Rehabilitate pavement and drainage systems, upgrade facilities to Americans with Disabilities Act (ADA) standards, and upgrade guardrail, signs, and Transportation Management System (TMS) elements.	25-26	PA&ED	\$1,090	Prior	\$1,090	Prior
		201.121	PS&E	\$2,200	Prior	\$2,200	Prior
			R/W Sup	\$600	Prior	\$600	Prior
			Con Sup	\$6,300	25-26	\$6,300	25-26
			R/W Cap	\$1,340	25-26	\$1,340	25-26
			<u>Const Cap</u>	<u>\$49,770</u>	25-26	<u>\$49,770</u>	25-26
			Total	\$61,300		\$61,300	

Performance Measure

48.8 Lane mile(s)

32.1 Lane mile(s)

Note: Reduce performance measures because emergency projects 03-0N310 and 03-0N350 will repair some of the pavement within the project limits that deteriorated during the 2022-23 winter storms. There is no reduction in cost because of increase in cost for asphalt items, additional curb ramp upgrades, additional traffic signal and lighting items, and additional TMS elements that were not originally accounted for.

Performance Measure: Pavement					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Lane mile(s)	5.2	26.9	0.0	32.1
Post Condition	Lane mile(s)	32.1	0.0	0.0	32.1

2 03-Sac-80 11.7/13.2 6721 0319000302 0J610	Near the city of Sacramento, from east of Route 51 to 0.7 mile east of Madison Avenue. Replace existing Vegetation and rehabilitate irrigation system.	25-26	PA&ED	\$210	Prior	\$210	Prior
		201.210	PS&E	\$581	Prior	\$581	Prior
			R/W Sup	\$51	Prior	\$51	Prior
			Con Sup	\$1,087	25-26	\$1,087	25-26
			R/W Cap	\$5	25-26	\$26	25-26
			<u>Const Cap</u>	<u>\$2,400</u>	25-26	<u>\$2,400</u>	25-26
			Total	\$4,334		\$4,355	

Note: Increase R/W capital due to the need to acquire a permanent easement that was not originally anticipated.

List of 2024 SHOPP Amendments (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
3 04-SM SCI-9 Var 2034K 0420000126 3AC00	In San Mateo and Santa Clara Counties County , on various routes at various locations. Replace or install curve warning signs. <u>Performance Measure</u> 0.14 Annual fatal and serious injury collision(s) 0.40 Annual fatal and serious injury collision(s)	25-26	PA&ED	\$1,730	Prior	\$1,730	Prior
		201.015	PS&E	\$1,829	Prior	\$1,829	Prior
			R/W Sup	\$25	Prior	\$25	Prior
			Con Sup	\$2,183	25-26	\$2,183	25-26
			R/W Cap	\$163	25-26	\$163	25-26
			<u>Const Cap</u>	<u>\$6,076</u>	25-26	<u>\$6,076</u>	25-26
			Total	\$12,006		\$12,006	

Note: Due to the added number of signs during PA&ED, the original project territory has been adjusted to keep the project within originally programmed costs. Overall sign count has increased and number of work locations have decreased. Change description and performance to reflect revised scope.

4 05-SB-101 12.4/22.6 2798 0518000085 1J900	In and near the cities of Santa Barbara and Goleta, from south of Milpas Street Undercrossing to North Fairview Avenue. Rehabilitate pavement, replace bridge rail and concrete barrier, seismic restoration, install Transportation Management System (TMS) elements, rehabilitate drainage systems, and enhance highway worker safety.	25-26	PA&ED	\$3,325	Prior	\$3,325	Prior
		201.121	PS&E	\$3,636	Prior	\$3,636	Prior
			R/W Sup	\$346	Prior	\$346	Prior
			Con Sup	\$7,293	25-26	\$7,293	25-26
			R/W Cap	\$266	25-26	\$425	25-26
			<u>Const Cap</u>	<u>\$57,924</u>	25-26	<u>\$52,677</u>	25-26
			Total	\$72,790		\$67,702	

Performance Measure
56.6 Lane mile(s)

Note: Increase right of way capital for additional utility identifications and railroad permits. After 60 percent constructability review of the bridge seismic retrofit and rubberized asphalt pavement, a construction capital unit cost reduction identified.

Performance Measure: Pavement					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Lane mile(s)	13.3	43.3	0.0	56.6
Post Condition	Lane mile(s)	56.6	0.0	0.0	56.6

List of 2024 SHOPP Amendments (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code		Project Costs (\$1,000)			
5 07-LA-5 16.9/27.0 5635 0719000303 36270	In the city of Los Angeles, on Routes 5, 10, and 101 at various locations; also on Route 10 at East Los Angeles Hub; also on Route 101 at North Hollywood Hub and at the Los Angeles Regional Transportation Management Center (LARTMC) at 2901 West Broadway. Upgrade Transportation Management System (TMS) elements, upgrade fiber optic lines, replace copper wiring with fiber optic cable, and upgrade communication hubs, and traffic electrical system elements.	25-26	PA&ED	\$1,152	Prior	\$1,152	Prior
		201.315	PS&E	\$2,375	Prior	\$2,375	Prior
			R/W Sup	\$92	Prior	\$92	Prior
			Con Sup	\$3,958	25-26	\$3,958	25-26
			R/W Cap	\$134	25-26	\$524	25-26
			<u>Const Cap</u>	<u>\$25,004</u>	25-26	\$19,871	25-26
			Total	\$32,792		\$27,972	

Performance Measure
 50.0 Field element(s)
 34.0 Field element(s)

Note: Update project scope, including to remove fiber optic upgrade as it was already completed through service contract EA 34040, remove some TMS technology components as they are in good condition, and add traffic signal, lighting, complete street upgrades, and additional utility verification work at multiple intersections. Change project scope, description, performance, R/W capital, and construction capital due to the above updates.

Performance Measure: TMS Elements				
	<u>Unit</u>	<u>Good (Operational)</u>	<u>Poor (Not Operational)</u>	<u>Quantity</u>
Existing Condition	Field element(s)	37.9%	62.1%	29.0
Post Condition	Field element(s)	100.0%	0.0%	34.0

List of 2024 SHOPP Amendments (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
6 07-LA-405 13.6/29.5 5796 0721000067 37540	In and near the cities of Los Angeles, Torrance, Lawndale, Redondo Beach, Hawthorne, Inglewood, and Culver City, from south of Normandie Avenue to Route 10. Rehabilitate drainage systems. <u>Performance Measure</u> 52.0 Culvert(s) (ea)	25-26	PA&ED	\$1,700	Prior	\$1,700	Prior
		201.151	PS&E	\$3,271	Prior	\$3,271	Prior
			R/W Sup	\$1,827	Prior	\$1,827	Prior
			Con Sup	\$2,169	25-26	\$2,690	25-26
			R/W Cap	\$3,544	25-26	\$1,099	25-26
			<u>Const Cap</u>	\$6,903	25-26	\$10,029	25-26
			Total	\$19,411		\$20,616	

Note: After detailed field inspections, number of culverts needing replacement has increased, with two locations to utilize a more expensive jack and bore method of construction. Two new Gross Solids Removal Devices (GSRDs) were also added. These changes resulted in an increase of construction capital and support costs. Decreased R/W capital is due to reduction in temporary construction easements and partial takes needed for the project.

Performance Measure: Culverts					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Linear feet	0.0	1,982.5	1,842.5	3,825.0
Post Condition	Linear feet	3,825.0	0.0	0.0	3,825.0

7 08-SBd-15 R121.0/144.0 3015J 0819000152 1L150	Near Baker, from 0.6 mile north of Basin Road to 7.4 miles north of Route 127. Rehabilitate pavement, drainage systems, and lighting, upgrade guardrail, replace sign panels, and install fiber optic cable, high tension cable barrier, and guardrail. <u>Performance Measure</u> 50.6 Lane mile(s)	25-26	PA&ED	\$2,211	Prior	\$2,211	Prior
		201.121	PS&E	\$2,543	Prior	\$2,543	Prior
			R/W Sup	\$25	Prior	\$25	Prior
			Con Sup	\$5,582	25-26	\$5,582	25-26
			R/W Cap	\$79	25-26	\$202	25-26
			<u>Const Cap</u>	\$39,592	25-26	\$42,424	25-26
			Total	\$50,032		\$52,987	

Concurrent SB 1 Baseline Agreement approval under Resolution SHOPP-P-2425-03B; December 2024.

Note: Increase R/W capital due to regulatory requirements identified during PA&ED that required the addition of offsite mitigation. Increase construction capital due to revised estimate including updated unit costs, quantity adjustments to roadway bid items, and adjustments to miscellaneous minor items.

Performance Measure: Pavement					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Lane mile(s)	0.0	50.6	0.0	50.6
Post Condition	Lane mile(s)	50.6	0.0	0.0	50.6

List of 2024 SHOPP Amendments (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
8	Near Big Bear Lake, from 2.0 miles south of	25-26	PA&ED	\$1,694	Prior	\$1,694	Prior
08-SBd-18	Holcomb Valley Road to Camp Rock Road.	201.121	PS&E	\$1,642	23-24	\$1,642	23-24
56.2/66.9	Rehabilitate pavement and drainage systems, upgrade guardrail, replace sign panels, construct rumble strips, widen shoulders, and apply pavement delineation.		R/W Sup	\$944	23-24	\$944	23-24
3016F			Con Sup	\$3,691	25-26	\$3,691	25-26
0820000076			R/W Cap	\$150	25-26	\$150	25-26
1L420			<u>Const Cap</u>	<u>\$18,760</u>	25-26	<u>\$18,760</u>	25-26
				Total	\$26,881		\$26,881

Performance Measure

49.8 Lane mile(s)

17.8 Lane mile(s)

Note: Change performance because work is already a part of Highway Maintenance project EA 1H491, which is currently under construction. There is no cost savings for construction capital and support as other items have a cost increase that offset the cost reduction of pavement and number of working days is based on recent work production experienced.

Performance Measure: Pavement					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Lane mile(s)	0.0	13.1	4.7	17.8
Post Condition	Lane mile(s)	17.8	0.0	0.0	17.8

List of 2024 SHOPP Amendments (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
9 08-SBd-127 10.5/37.7 3004C 0815000173 1G200	Near Baker, from 2.3 miles north of Silver Lake Road to 3.8 miles south of the Inyo County line. Rehabilitate pavement, upgrade guardrail, construct shoulder backing and rumble strips, apply pavement delineation, replace sign panels, install warning signs and Rapid Rectangular Flashing Beacon (RRFB), and improve/construct pedestrian and bicycle infrastructure.	25-26 201.121	PA&ED	\$1,749	Prior	\$1,749	Prior
			PS&E	\$2,753	24-25	\$2,753	24-25
			R/W Sup	\$1,825	24-25	\$1,825	24-25
			Con Sup	\$3,677	25-26	\$3,677	25-26
			R/W Cap	\$405	25-26	\$405	25-26
			<u>Const Cap</u>	<u>\$38,492</u>	25-26	<u>\$38,492</u>	25-26
			Total	\$48,901		\$48,896	

Performance Measure

60.7 Lane mile(s)

58.2 Lane mile(s)

Note: Decrease performance because work already performed under emergency project EA 1P700. Update existing condition performance to reflect updated pavement survey. Increase R/W capital due to additional acquisition and condemnation fees for two easements. Decrease construction capital costs due to reduced pavement work.

Performance Measure: Pavement					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Lane mile(s)	4.2	54.0	0.0	58.2
Post Condition	Lane mile(s)	58.2	0.0	0.0	58.2

**List of 2024 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)**

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
10	In and near the cities of Tustin, Orange, Santa Ana,	25-26	PA&ED	\$12,800	Prior	\$12,800	Prior
12-Ora-5	Anaheim, Fullerton, and Buena Park, from 0.2 mile	26-27	PS&E	\$0	0-0	\$19,000	24-25
R28.9 R29.100/44.382	south of Red Hill Avenue to the Los Angeles County	201.310	R/W Sup	\$0	0-0	\$0	0-0
2833C	line. Address High Occupancy Vehicle (HOV) lane		Con Sup	\$0	0-0	\$14,000	26-27
1218000006	degradation. Upgrade High Occupancy Vehicle		R/W Cap	\$0	0-0	\$0	0-0
0Q950	(HOV) lanes to express lanes, upgrade signs and		<u>Const Cap</u>	<u>\$0</u>	<u>0-0</u>	<u>\$52,000</u>	26-27
	median barrier, install pavement delineation,		Total	\$12,800		\$97,800	
	replace signs, relocate retaining wall and sound						
	walls, and implement Toll System. This is a						
	Progressive Design-Build (PD-B) project.						
	 (Additional \$2,200,000 from Interregional Improvement Program (IIP) contribution.)						
	 <u>Performance Measure</u> 7,250.0 Daily vehicle hour(s) of delay (DVHD)						
	 <u>Note:</u> Update project description due to revised post mile, scope, and funding source. Update cost to program PS&E and Construction for FY 24-25 and 26-27 respectively. This additional need will be funded through Infrastructure Investment and Jobs Act (IIJA) Carbon Reduction Program (CRP) funds. Update delivery year from 25-26 to 26-27.						