

## MEMORANDUM

To: CHAIR AND COMMISSIONERS  
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: June 24-25, 2020

From: STEVEN KECK, Chief Financial Officer

Reference Number: 2.1a.(5), Action Item

Prepared By: Bruce De Terra, Chief  
Division of Transportation Programming

Subject: **SHOPP AMENDMENT 20H-001**

### **ISSUE:**

Should the California Transportation Commission (Commission) approve the California Department of Transportation's (Department) request to amend the 2020 State Highway Operation and Protection Program (SHOPP) under SHOPP Amendment 20H-001?

### **RECOMMENDATION:**

The Department recommends that the Commission approve SHOPP Amendment 20H-001 that will amend the 2020 SHOPP, in accordance with Senate Bill 486 and the Road Maintenance and Rehabilitation Program component of Senate Bill 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 10 new capital projects be amended into the 2020 SHOPP, as detailed in attached Reference No. 2.1a.(5a). This amendment, summarized below, would be funded from the Major Damage Restoration, Collision Reduction and 2020 SHOPP programming capacity. These projects are consistent with the 2018 Transportation Asset Management Plan (TAMP).

2020 SHOPP Summary of New Projects by Category	No.	FY 2020-21 (\$1,000)	FY 2021-22 (\$1,000)	FY 2022-23 (\$1,000)	FY 2023-24 (\$1,000)
Major Damage Restoration	4	\$0	\$24,492	\$35,139	\$0
Collision Reduction	6	\$3,945	\$16,441	\$0	\$12,230
Total New Amendments	10	\$3,945	\$40,933	\$35,139	\$12,230

*“Provide a safe, sustainable, integrated and efficient transportation system to enhance California’s economy and livability”*

Also, the Department further recommends that the capital projects, detailed in Attachment 2.1a.(5d) and Attachment 2.1a.(5f) be amended in the 2020 SHOPP to update scope, schedule, cost and make other technical changes. The amended projects are consistent with the Commission-adopted 2018 TAMP.

**BACKGROUND:**

In each even-numbered year, the Department prepares a four-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.

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

Attachments

## List of New 2020 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.
<b>Major Damage Restoration</b>						
1 01-Men-253 1.7/2.5 4747 0120000030 0J631	Near Booneville, from 1.7 miles east to 2.5 miles east of Route 128. Construct retaining wall, reconstruct roadway, improve drainage, place Rock Slope Protection (RSP), and construct debris wall to stabilize storm damaged slope.	22-23	PA&ED	\$1,583	19-20	201.131
			PS&E	\$1,650	21-22	Assembly: 1
			R/W Sup	\$113	21-22	Senate: 2
			Con Sup	\$3,411	22-23	Congress: 1
			R/W Cap	\$41	22-23	
			<u>Const Cap</u>	<u>\$23,499</u>	22-23	1 Location(s)
			Total	\$30,297		
	PA&ED: 3/1/2022					
	R/W: 3/1/2023					
	RTL: 3/15/2023					
	BC: 7/19/2023					
	(Concurrent COS allocation under Resolution FP-19-91; June 2020.)					
2 04-Nap-29 11.6/13.0 2022G 0418000159 0Q820	In Napa, from First Street to 0.1 mile south of Redwood Road/Trancas Street. Repair culvert.	21-22	PA&ED	\$1,437	19-20	201.131
			PS&E	\$1,792	21-22	Assembly: 4
			R/W Sup	\$152	21-22	Senate: 3
			Con Sup	\$1,228	21-22	Congress: 5
			R/W Cap	\$44	21-22	
			<u>Const Cap</u>	<u>\$13,403</u>	21-22	1 Location(s)
			Total	\$18,056		
	PA&ED: 7/1/2021					
	R/W: 5/2/2022					
	RTL: 6/1/2022					
	BC: 4/3/2023					
	(Concurrent COS allocation under Resolution FP-19-91; June 2020.)					
3 05-Mon-1 8.7/9.1 2850 0518000106 1K020	Near Gorda, from north of White Creek Bridge to 2.0 miles south of Los Burros Road. Realign highway, replace temporary safety features with permanent safety devices, and install erosion control measures.	22-23	PA&ED	\$752	19-20	201.131
			PS&E	\$1,046	21-22	Assembly: 30
			R/W Sup	\$26	21-22	Senate: 17
			Con Sup	\$838	22-23	Congress: 20
			R/W Cap	\$4	22-23	
			<u>Const Cap</u>	<u>\$2,176</u>	22-23	1 Location(s)
			Total	\$4,842		
	PA&ED: 7/30/2021					
	R/W: 10/1/2022					
	RTL: 12/7/2022					
	BC: 6/22/2023					
	(Concurrent COS allocation under Resolution FP-19-91; June 2020.)					

## List of New 2020 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 05-Mon-1 44.5 3018 0519000154 1M460	Near Big Sur, at 1.0 mile south of Pfeiffer Canyon Bridge. Construct retaining wall to stabilize slope, widen shoulder, repair pavement drainage, and install erosion control.	21-22	PA&ED	\$0	201.131 Assembly: 29 Senate: 17 Congress: 20 1 Location(s)
			PS&E	\$1,896	
			R/W Sup	\$291	
			Con Sup	\$1,537	
			R/W Cap	\$66	
			<u>Const Cap</u>	<u>\$2,646</u>	
			Total	\$6,436	
PA&ED:	4/15/2020				
R/W:	8/13/2021				
RTL:	8/20/2021				
BC:	2/17/2022				
(Concurrent COS allocations under Resolution FP-19-91; June 2020.)					
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Collision Reduction					
5 03-Sac-99 23.1 6934 0320000059 1J010	In the city of Sacramento, at 12th Avenue and at Florin Road (PM 19.7); also in Yolo County on Route 113 at Russel Boulevard (PM R1.1) and at County Road 31 (PM R2.1). Reconstruct and upgrade existing pedestrian infrastructure, enhance crosswalk and bike lane markings, add lighting and signs to improve pedestrian and bicyclist safety.	21-22	PA&ED	\$450	201.010 Assembly: 4, 7, 9 Senate: 3, 6 Congress: 3, 6 3 Collision(s) reduced
			PS&E	\$625	
			R/W Sup	\$60	
			Con Sup	\$755	
			R/W Cap	\$15	
			<u>Const Cap</u>	<u>\$3,420</u>	
			Total	\$5,325	
PA&ED:	1/15/2021				
R/W:	10/8/2021				
RTL:	11/10/2021				
BC:	4/4/2022				
(Concurrent COS allocation under Resolution FP-19-91; June 2020.)					

## List of New 2020 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-Sac-Var PM 6722 0320000039 0J900	In Sacramento, Placer, and Butte Counties, on Routes 50, 51, 80, and 99 at various locations. Apply High Friction Surface Treatment (HFST) and Open Graded Asphalt Concrete (OGAC) at various ramp locations.  PA&ED: 10/1/2020 R/W: 2/18/2021 RTL: 3/5/2021 BC: 7/12/2021  (Concurrent COS allocation under Resolution FP-19-91; June 2020.)	20-21	PA&ED	\$220	19-20	201.010
			PS&E	\$430	20-21	Assembly: 3, 7, 8
			R/W Sup	\$10	20-21	Senate: 1, 6, 7
			Con Sup	\$425	20-21	Congress: 1, 4, 6
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$2,860</u>	20-21	262 Collision(s)
			Total	\$3,945		reduced
7 04-Son-116 39.3 2028S 0419000047 2Q770	Near Petaluma, at the intersection with Lakeville Highway. Intersection improvements.  PA&ED: 3/2/2022 R/W: 1/2/2024 RTL: 2/1/2024 BC: 9/2/2024  (Concurrent COS allocation under Resolution FP-19-91; June 2020.)	23-24	PA&ED	\$1,877	19-20	201.010
			PS&E	\$2,065	21-22	Assembly: 2
			R/W Sup	\$435	21-22	Senate: 2
			Con Sup	\$1,954	23-24	Congress: 2
			R/W Cap	\$755	23-24	
			<u>Const Cap</u>	<u>\$5,144</u>	23-24	31 Collision(s) reduced
			Total	\$12,230		
8 05-Scr-9 Var 3008 0519000115 1M330	In Santa Cruz and San Benito Counties, on Routes 9, 1, 17, 25, 129 and 156 at various locations. Install both centerline and edge line rumble strips and re-stripe with thermoplastic stripe.  PA&ED: 4/30/2020 R/W: 7/2/2021 RTL: 11/10/2021 BC: 5/19/2022  (Concurrent COS allocations under Resolution FP-19-91; June 2020.)	21-22	PA&ED	\$0		201.010
			PS&E	\$807	20-21	Assembly: 29
			R/W Sup	\$35	20-21	Senate: 17
			Con Sup	\$628	21-22	Congress: 20
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$3,291</u>	21-22	753 Collision(s)
			Total	\$4,761		reduced

## List of New 2020 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.
9 08-SBd-10 16.0/20.2 3016E 0820000042 1L330	In and near Fontana, Rialto, and Colton, from west of Sierra Avenue to east of Riverside Avenue; also in and near Chino and Chino Hills on Route 71, from south of Route 60 to south of Euclid Avenue (PM R0.0/R8.2). Install retroreflective markers and upgrade pavement markings at 42 ramps.	21-22	PA&ED	\$480	19-20	201.010
			PS&E	\$377	20-21	Assembly: 47
			R/W Sup	\$11	20-21	Senate: 20
			Con Sup	\$566	21-22	Congress: 35
			R/W Cap	\$20	21-22	
			<u>Const Cap</u>	<u>\$1,917</u>	21-22	3 Collision(s) reduced
			Total	\$3,371		
			PA&ED:	4/5/2021		
			R/W:	9/7/2021		
			RTL:	10/1/2021		
BC:	3/11/2022					
(Concurrent COS allocation under Resolution FP-19-21; June 2020.)						
10 08-SBd-62 15.3/28.9 3016T 0820000011 1L290	In and near Yucca Valley and Twentynine Palms, from east of Yucca Mesa Road/La Contenta Road to Alfalfa Avenue/Sherman Road. Restripe existing two-way left-turn lanes to painted median islands and install rumble strips.	21-22	PA&ED	\$686	19-20	201.010
			PS&E	\$522	20-21	Assembly: 42
			R/W Sup	\$26	20-21	Senate: 16
			Con Sup	\$504	21-22	Congress: 8
			R/W Cap	\$20	21-22	
			<u>Const Cap</u>	<u>\$1,226</u>	21-22	119 Collision(s) reduced
			Total	\$2,984		
			PA&ED:	4/2/2021		
			R/W:	9/2/2021		
			RTL:	10/1/2021		
BC:	4/1/2022					
(Concurrent COS allocation under Resolution FP-19-21; June 2020.)						

## List of 2020 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 02-Tri-299 13.4/13.7 3720 0210000074 4H040	Near Burnt Ranch, from east of China Slide Road to Mill Creek Road. Stabilize the slope by constructing a retaining wall, reconstructing roadway, and modifying drainage systems.  <u>Performance Measure</u> ↑ Location(s)	21-22 201.131	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$920 \$1,280 \$130 \$2,790 \$360 <u>\$11,500</u> \$16,980	Prior 20-21 20-21 21-22 20-21 <u>21-22</u>	

Note: Delete project. The continued monitoring of the slope has found insignificant movement, eliminating the need for the project. Deleting this project will create capacity for statewide Complete Streets opportunities.

2 03-Nev-20 25.1/25.2 3997 0316000006 0H690	Near Nevada City and Emigrant Gap, at west of Pine Needle Way (PM 25.15), and at west of Last Chance Mine Road (PM 37.05); also in Placer County, on Route 193 near Newcastle at various locations from PM 6.7 to 8.5. Operational improvements to upgrade or construct roadway turnouts at five locations.	20-21 201.310	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$170 \$280 \$120 \$460 <del>\$110</del> <u>\$1,280</u> \$2,420	Prior Prior Prior 20-21 20-21 20-21 20-21	\$170 \$280 \$120 \$460 <b>\$309</b> <u>\$1,280</u> <b>\$2,619</b>
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Performance Measure  
 20.0 Daily vehicle hour(s) of delay (DVHD)

Note: During design, it was determined that the length of one proposed turnout on Route 193 needs to be increased. This resulted in new environmental impacts and utility conflicts. Consequently, additional R/W capital is required for environmental permit fees and utility relocation.

**List of 2020 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-Ala-61 19.8/21.2 1452J 0417000013 2K710	In the city of Alameda, from Broadway/Encinal Avenue to Sherman Street. Pavement rehabilitation, upgrade Americans with Disabilities Act (ADA) curb ramps, and improve crosswalks.	20-21 201.121	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,220 \$1,200 \$22 \$1,500 \$5 <del>\$4,874</del> \$8,821	Prior 19-20 19-20 20-21 20-21 20-21 20-21	\$1,220 \$1,200 \$22 \$1,500 <b>\$200</b> <b>\$5,741</b> <b>\$9,883</b>	Prior 19-20 19-20 20-21 20-21 20-21
	<u>Performance Measure</u> 5.6 Lane mile(s)						

(Concurrent COS allocations under Resolution FP-19-91; June 2020.)

Note: This pavement rehabilitation project has been modified to incorporate Complete Streets elements by converting the four lane undivided roadway to a two lane road with a two-way left turn lane, and bicycle lanes. This has resulted in additional construction costs to upgrade signals. Additional R/W capital is required for utility relocation impacted by curb ramp upgrades.

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	2.8	2.8	5.6	
Post Condition	Lane mile(s)	5.6	0.0	0.0	5.6	

4 04-Ala-84 13.0/13.6 1084B 0420000250 16031	In Fremont, at Alameda Creek Bridge No. 33-36. Environmental mitigation and plant establishment work for bridge replacement project EA 16030.	23-24 201.110	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$25 \$1,000 \$0 <b>\$333</b> <b>\$1,358</b>				
	<u>Performance Measure</u> 0 Bridge(s)							

Note: Split environmental mitigation and plant establishment work from EA 16030/PPNO 04-0084B into this project.



**List of 2020 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 04-Ala-84 <del>17.0/17.4</del> <b>16.9/17.5</b> 0481M 0414000012 0J550	Near Sunol, at Arroyo De La Laguna Bridge No. 33 -0043. <del>Replace/rehabilitate bridge for scour</del> <del>mitigation, bridge rail upgrade, and seismic retrofit.</del> <b>Replace bridge, realign roadway and construct roundabouts.</b>	<del>21-22</del> <b>23-24</b> 201.111	PA&ED PS&E R/W Sup Con Sup R/W Cap <del>Const Cap</del> Total	\$1,863 \$3,600 \$250 <del>\$3,600</del> \$500 <del>\$13,000</del> \$22,813	Prior 19-20 19-20 <del>21-22</del> <del>21-22</del> <del>21-22</del> <del>21-22</del>	\$1,863 \$3,600 \$250 <b>\$4,000</b> <b>\$1,500</b> <b>\$16,000</b> <b>\$27,213</b>	Prior 19-20 19-20 <b>23-24</b> <b>23-24</b> <b>23-24</b> <b>23-24</b>
	<u>Performance Measure</u> 1 Bridge(s)						

Note: During the environmental phase, it was determined that realigning the bridge adjacent to the existing structure will reduce construction duration, correct sharp turns, improve sight distance, avoid impacts to a nearby school, allow for construction of roundabouts for better traffic operations, and provide strong support from the community. Update postmiles, scope, delivery year, and cost to reflect these changes.

Performance Measure: Bridges (1 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	11,776.0	11,776.0
Post Condition	Square feet	22,010.0	0.0	0.0	22,010.0

6 04-Ala-580 Var 1487M 0415000090 3J130	In various cities, on Routes 580, 680, 880, and 980 at various locations. Enhance pedestrian safety by installing Accessible Pedestrian Signals (APS) systems and countdown timers and upgrading crosswalk markings.	<del>21-22</del> <b>20-21</b> 201.015	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$940 \$940 \$130 \$1,030 \$20 <u>\$6,068</u> \$9,128	Prior 19-20 19-20 <del>21-22</del> <del>21-22</del> <del>21-22</del> <del>21-22</del>	\$940 \$940 \$130 \$1,030 \$20 <u>\$6,068</u> \$9,128	Prior 19-20 19-20 <b>20-21</b> <b>20-21</b> <b>20-21</b> <b>20-21</b>
	<u>Performance Measure</u> 8 Collision(s) reduced						

(Concurrent COS allocations under Resolution  
 FP-19-91; June 2020.)

Note: This amendment will accelerate delivery by one fiscal year.

**List of 2020 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)				
7 04-Mrn-1 28.5 0756K 0413000350 0G642	Near Point Reyes Station, at Lagunitas Creek Bridge No. 27-0023. Replace bridge.  <u>Performance Measure</u> 1 Bridge(s)	<del>20-21</del>	PA&ED	\$4,187	Prior	\$4,187	Prior
		<b>21-22</b>	PS&E	\$2,850	Prior	\$2,850	Prior
		201.113	R/W Sup	\$750	Prior	\$750	Prior
			Con Sup	<del>\$2,500</del>	<del>20-21</del>	<b>\$2,625</b>	<b>21-22</b>
			R/W Cap	\$6,500	<del>20-21</del>	\$6,500	<b>21-22</b>
			<u>Const Cap</u>	<del>\$11,552</del>	<del>20-21</del>	<b>\$14,350</b>	<b>21-22</b>
			Total	\$28,339		<b>\$31,262</b>	

Note: A lawsuit filed against the project has encountered court delays due to COVID-19, delaying the environmental approval. Increase in construction capital is due to structural design change, use of ultra-high performance concrete, need for cast-in-drilled-hole concrete piling, and to fulfill permit requirement for 10-year plant establishment period. Additional construction support is required for coordination and oversight of the plant establishment period.

Performance Measure: Bridges (1 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	4,413.0	4,413.0
Post Condition	Square feet	7,820.0	0.0	0.0	7,820.0

8 04-SCI-101 30.7/38.1 2020J 0416000017 4J930	In San Jose, from 0.3 mile south of Yerba Buena Road to 10th Street Overcrossing. Highway planting and modernizing roadside irrigation facilities.  <u>Performance Measure</u> 13.0 Acre(s)	<del>21-22</del>	PA&ED	\$375	Prior	\$375	Prior
		<b>20-21</b>	PS&E	\$500	Prior	\$500	Prior
		201.210	R/W Sup	\$63	Prior	\$63	Prior
			Con Sup	<del>\$625</del>	<del>21-22</del>	<b>\$725</b>	<b>20-21</b>
			R/W Cap	\$15	<del>21-22</del>	\$15	<b>20-21</b>
			<u>Const Cap</u>	<del>\$2,009</del>	<del>21-22</del>	<b>\$2,400</b>	<b>20-21</b>
			Total	\$3,587		<b>\$4,078</b>	

Note: A prior amendment deleted two locations from the scope and added two additional locations, deferring any cost change until now. This amendment will accelerate delivery by one fiscal year and update the cost. A location change resulted in additional highway planting work and jack-and-bore work for irrigation crossovers at higher cost.

**List of 2020 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 04-SF-101 2.0/2.9 1450E 0416000380 2K190	In the City and County of San Francisco, at Alemany Circle Undercrossing (UC) No. 34-0064K, Alemany Circle UC No. 34-0063S and Bayshore Boulevard UC No. 34-0047S; also in San Mateo County in Pacifica, at Paloma Avenue Overcrossing No. 35-0187 (PM R44.21). Upgrade bridge rails.	20-21 201.112	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$657 \$1,751 \$164 \$1,805 <del>\$10</del> <del>\$5,461</del> \$9,848	Prior 19-20 19-20 20-21 20-21 20-21 20-21	\$657 \$1,751 \$164 \$1,805 <b>\$20</b> <b>\$8,241</b> <b>\$12,638</b>	Prior 19-20 19-20 20-21 20-21 20-21

Performance Measure

2,249.0 Linear feet rail

(Concurrent COS allocations under Resolution FP-19-91; June 2020.)

Note: After further studies, additional work is anticipated at various locations that was previously not identified, such as, column shear reinforcement, adding shear studs to girders, additional drainage inlets, water pollution and erosion control, lead compliance plan, asbestos testing, crash cushions, aesthetic treatment, and relocation and installation of lights. Increase in R/W capital is due to additional work for positive location of underground utilities.

Performance Measure: Bridges (4 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Linear feet rail	0.0	0.0	2,249.0	2,249.0
Post Condition	Linear feet rail	2,249.0	0.0	0.0	2,249.0

**List of 2020 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 04-SM-280 6.7/10.5 0732J 0412000161 2A970	Near Redwood City, San Carlos and Belmont, from Edgewood Road to Route 92 and near Hillsborough at PM R12.7; also in Santa Clara County in and near Mountain View and Palo Alto, at various spot locations (PM 11.6, 12.8, 12.9, 18.8). Replace failing culverts and restore damaged slopes, pavement, and bridge approaches at six locations.	21-22 201.151	PA&ED PS&E R/W Sup Con Sup R/W Cap <del>Const Cap</del> Total	\$1,800 \$2,000 \$260 \$3,000 <del>\$13</del> <del>\$16,404</del> \$23,477	Prior Prior Prior 21-22 21-22 21-22 21-22	\$1,800 \$2,000 \$260 \$3,000 <b>\$50</b> <b>\$21,181</b> <b>\$28,291</b>	Prior Prior Prior 21-22 21-22 21-22

Performance Measure

~~28 Culvert(s)~~  
**132 Culvert(s)**

Note: Additional construction capital is required for increased pavement structural section costs to construct bridging slab over shallow culverts, additional CHP enforcement for increased trenching work, and increased erosion control to satisfy trash capture requirements. Increased R/W capital is due to additional potholing needs. Correct performance measures to 132 culverts in 28 drainage systems, which were previously reported as 28 culverts.

Performance Measure: Culverts (132 Each)					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Linear feet	7,045.0	12,621.0	5,260.0	24,926.0
Post Condition	Linear feet	24,926.0	0.0	0.0	24,926.0

11 04-Son-116 9.6 1464F 0416000410 2K360	Near Monte Rio, at 0.2 mile west of Cnopius Road. Repair unstable slope by constructing a retaining wall.  <b>(G13 Contingency)</b>	22-23 201.131	PA&ED PS&E R/W Sup * Con Sup R/W Cap * <u>Const Cap</u> Total	\$1,775 \$1,883 \$204 \$1,441 \$384 <u>\$5,980</u> \$11,667	Prior 21-22 21-22 22-23 22-23 22-23 22-23	\$1,775 \$1,883 \$204 \$1,441 \$384 <u>\$5,980</u> \$11,667	Prior 21-22 21-22 22-23 22-23 22-23
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Performance Measure

1 Location(s)

\* Phase NOT Programmed.

Note: Convert to a G13 Contingency project to create capacity for statewide Complete Streets opportunities.

**List of 2020 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)			
12 05-Mon-101 R6.7 2565A 0520000070 1F821	Near Paso Robles, at San Antonio River Bridge No 44-0141L/R. Environmental mitigation monitoring for project EA 1F820.  <u>Performance Measure</u> 0 Bridge(s)	23-24 201.113	PA&ED PS&E R/W Sup * Con Sup R/W Cap <u>Const Cap</u> Total		\$0 \$0 \$0 \$20 \$0 \$0 \$20	23-24

\* Phase NOT Programmed.

Note: Split environmental mitigation work from parent project EA 1F820/PPNO 05-2565 into this project for long term monitoring.

13 07-LA-5 15.1/22.9 5157 0716000298 33300	In the city of Los Angeles, from Calzona Street to 0.1 mile south of Fletcher Drive; also on Route 2 at 0.1 mile south of Route 134 (PM R18.7). Improve highway worker safety by upgrading guardrail, installing Maintenance Vehicle Pullouts (MVPs), and installing vegetation control, upgrade Transportation Management System (TMS) elements, and widen and extend the deceleration lane on the southbound offramp to Calzona Street.  <u>Performance Measure</u> 45 Location(s)	21-22 201.235	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$650 \$2,800 \$25 \$4,100 <del>\$147</del> \$16,927 \$24,649	Prior Prior Prior 21-22 21-22 21-22	\$650 \$2,800 \$25 \$4,100 <del>\$147</del> \$16,927 \$24,790	Prior Prior Prior 21-22 21-22
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Note: Increase R/W capital to relocate a Los Angeles Department of Water and Power (LADWP) 8" water line that is in conflict with the project. The water line was discovered during design surveys.

## List of 2020 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)				
14 07-LA-5 49-8/36-0 <b>20.1/36.0</b> 5024 0716000079 32490	In the city of Los Angeles various cities, on Route 5 (PM 19.75/35.99), Route 10 (PM 22.32/23.88), Route 91 (PM R11.80), Route 605 (PM R14.07) and Route 710 (PM 18.7/21.04) at Humboldt Street, Glendale Boulevard, and Sheldon Street. Replace pumps with submersible pumps. Upgrade pump plants.	20-21 201.151	PA&ED PS&E R/W Sup Con Sup R/W Cap Const Cap Total	\$254 \$1,075 <del>\$73</del> <del>\$1,110</del> <del>\$14</del> <u>\$5,946</u> \$8,472	Prior Prior 20-21 20-21 20-21 20-21 20-21	\$254 \$1,075 <b>\$32</b> <b>\$1,004</b> <b>\$44</b> <u>\$5,946</u> <b>\$8,355</b>	Prior Prior 20-21 20-21 20-21 20-21 20-21

Performance Measure

45 Culvert(s)  
**3 Culvert(s)**

(Concurrent COS allocations under Resolution FP-19-91; June 2020.)

Note: During PA&ED, it was discovered that upgrades far more significant than originally anticipated were needed for the pump plants, so locations prone to flooding were prioritized to stay within budget. Removed locations are still functional, but will be upgraded at a later date. R/W support and construction support are lowered because of the reduced scope. R/W capital is increased because potholing is needed.

Performance Measure: Culverts (3 Each)					
	Unit	Good	Fair	Poor	Quantity
Existing Condition	Pump plant(s)	0.0	0.0	3.0	3.0
Post Condition	Pump plant(s)	3.0	0.0	0.0	3.0

15 07-LA-10 R13.3 4966 0716000016 31900	In the city of Los Angeles, at the Normandie Avenue Undercrossing Bridge No. 53-1565. Strengthen girders with epoxy and reinforcement steel.	21-22 201.322	PA&ED PS&E R/W Sup Con Sup R/W Cap Const Cap Total	\$508 \$1,493 \$5 <del>\$1,188</del> \$22 <del>\$2,253</del> \$5,469	Prior 20-21 20-21 21-22 21-22 21-22 21-22	\$508 \$1,493 \$5 <b>\$1,816</b> \$22 <b>\$4,904</b> <b>\$8,748</b>	Prior 20-21 20-21 21-22 21-22 21-22 21-22
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Note: Construction operations include specialized drilling and construction methods that will require more effort than originally planned. Increase construction capital because of specialized equipment and methods; and increase construction support because more working days will be needed.

Performance Measure: Bridges (1 Bridge(s))					
	Unit	Good	Fair	Poor	Quantity
Existing Condition	Square feet	0.0	0.0	40,364.0	40,364.0
Post Condition	Square feet	40,364.0	0.0	0.0	40,364.0

**List of 2020 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)				
16 07-LA-10S 28.3 4902 0715000220 31680	In El Monte, at Rio Hondo Busway Bridge No. 53 -2637. Replace bridge deck.  (PA&ED only)  <u>Performance Measure</u> 1 Bridge(s)	<del>19-20</del> <b>21-22</b> 201.110	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$550 \$0 \$0 \$0 \$0 \$0 \$550	Prior       Total	\$550 <b>\$1,633</b> <b>\$304</b> <b>\$2,449</b> <b>\$315</b> <b>\$8,620</b> <b>\$13,871</b>	Prior <b>20-21</b> <b>20-21</b> <b>21-22</b> <b>21-22</b> <b>21-22</b>

Note: Fully program project.

Performance Measure: Bridges (1 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	17,082.0	17,082.0
Post Condition	Square feet	17,082.0	0.0	0.0	17,082.0

17 07-Ven-1 28.2 4601 0713000099 29650	Near Sea Cliff, at Willow Creek Bridge No. 52-003; also in Ojai, on Route 33 at North Fork Matilija Bridges No. 52-0044 (PM 15.8) and No. 52-0173 (PM16.1). Upgrade bridge railings to meet current standards.  <u>Performance Measure</u> 724.0 Linear feet	20-21 201.112	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$958 \$2,300 \$465 <del>\$2,000</del> <del>\$818</del> <del>\$2,657</del> \$9,198	Prior Prior Prior 20-21 20-21 20-21 Total	\$958 \$2,300 \$465 <b>\$2,763</b> <b>\$703</b> <b>\$6,789</b> <b>\$13,978</b>	Prior Prior Prior 20-21 20-21 20-21
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Note: Construction capital has increased because necessary seismic retrofitting and bridge deck repairs were discovered during the design phase. Items contributing to the cost increase include structural concrete bridge-polymer fiber, traffic control, excavation, and structural steel. Construction support has increased due to added inspection requirements and more working days. R/W capital has decreased after a review of the estimate.

Performance Measure: Bridges (3 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Linear feet rail	0.0	0.0	724.0	724.0
Post Condition	Linear feet rail	724.0	0.0	0.0	724.0

**List of 2020 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)				
18 07-Ven-33 16.1 5008 071600060 32300	Near Ojai, at North Fork Matilija Creek No. 52-0173. Paint steel portion of bridge and replace missing bottom flange rivets as preventative maintenance to preserve and extend the life of bridge.	<del>21-22</del> <b>20-21</b> 201.119	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$320 \$850 \$50 \$620 \$30 <del>\$660</del> \$2,530	Prior Prior Prior <del>21-22</del> <del>21-22</del> <del>21-22</del> <del>21-22</del>	\$320 \$850 \$50 \$620 \$30 <del>\$660</del> \$2,530	Prior Prior Prior <b>20-21</b> <b>20-21</b> <b>20-21</b> <b>20-21</b>
	<u>Performance Measure</u> 1 Bridge(s)						

Note: Accelerate delivery in order to combine with EA 29650/PPNO 07-4601 for construction.

Performance Measure: Bridges (1 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	1,636.0	1,636.0
Post Condition	Square feet	1,636.0	0.0	0.0	1,636.0

19 07-Ven-101 0.0/R38.9 5231 0717000108 33900	In and near various cities, at various locations, from 0.2 mile south of Lakeview Canyon Road to Hobson Road Undercrossing. <b>Install concrete barrier,</b> <b>upgrade Upgrade</b> guardrails, end treatments, and bridge connections, and add vegetation control under guardrails. Remove and replace dikes.	21-22 201.015	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$950 \$2,800 \$35 <del>\$2,000</del> \$80 <del>\$6,470</del> \$12,335	Prior Prior Prior <del>21-22</del> <del>21-22</del> <del>21-22</del> <del>21-22</del>	\$950 \$2,800 \$35 <del>\$2,248</del> \$80 <del>\$11,556</del> \$17,669	Prior Prior Prior <b>20-21</b> <b>20-21</b> <b>20-21</b> <b>20-21</b>
	<u>Performance Measure</u> <del>9 Collision(s) reduced</del> <b>16 Collision(s) reduced</b>						

Note: Increase construction capital because concrete barriers are needed where guardrail can't be installed, additional guardrail is needed to protect fixed objects, and the amount of Aerial Deposited Lead (ADL) is greater than originally thought. Increase construction support because more working days are needed. Update performance measure to align with project changes. Update delivery year to deliver this safety project sooner.



## List of 2020 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)			
20 07-Ven-118 12-0/13-2 5294 0717000333 34290	Near Moorpark, from Sand Canyon Road to Balcom Canyon Road. Permanent restoration of slope damage by constructing retaining wall, paving shoulder, and placing Rock Slope Protection (RSP):	<del>20-21</del> 201.131	PA&ED	\$850	Prior	
			PS&E	<del>\$3,000</del>	<del>19-20</del>	
			R/W Sup	\$175	<del>19-20</del>	
			Con Sup	\$2,000	<del>20-21</del>	
			R/W Cap	\$353	<del>20-21</del>	
	<u>Performance Measure</u>		<u>Const Cap</u>	<u>\$5,402</u>	<u>20-21</u>	
	↑ Location(s)		Total	\$11,780		

Note: Delete project. The damage was more extensive than originally anticipated. Required work will be addressed by EA 36970/PPNO 07-5705, which is doing overlapping storm damage repair in the same area. Deleting this project will create capacity for statewide Complete Streets opportunities.

21 07-Ven-150 R13.3/19.0 5014 0716000069 32370	In and near Ojai and Mira Monte, from Burham Road to Gorham Road. Cold plane and overlay pavement, upgrade guardrail and signs.	<del>20-21</del> <b>21-22</b> 201.121	PA&ED	\$600	Prior	\$600	Prior
			PS&E	\$1,500	Prior	\$1,500	Prior
			R/W Sup	\$250	Prior	\$250	Prior
			Con Sup	\$1,700	<del>20-21</del>	\$1,700	<b>21-22</b>
	<u>Performance Measure</u>		R/W Cap	\$221	<del>20-21</del>	\$221	<b>21-22</b>
	11.4 Lane mile(s)		<u>Const Cap</u>	<u>\$5,588</u>	<u>20-21</u>	<u>\$5,588</u>	<b>21-22</b>
			Total	\$9,859		\$9,859	

Note: Delay construction year to combine with EA 30670/PPNO 07-4746 for construction.

Performance Measure: Pavement		<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
	<u>Unit</u>				
Existing Condition	Lane mile(s)	0.0	11.4	0.0	11.4
Post Condition	Lane mile(s)	11.4	0.0	0.0	11.4

**List of 2020 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)				
22 07-Ven-150 <del>16.6/34.4</del> <b>15.1/18.4</b> 4746 0714000179 30670	In and near <del>cities of Ojai and Santa Paula</del> , from <del>Route 33 to Route 126</del> <b>0.1 mile east of Loma Drive</b> <b>to Golden West Avenue.</b> Construct and upgrade curb ramps and sidewalks to comply with Americans with Disabilities Act (ADA) standards.	21-22 201.361	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$908 \$1,000 \$100 \$1,000 \$556 <u>\$4,549</u> \$8,113	Prior Prior Prior 21-22 21-22 21-22 21-22	\$908 \$1,000 \$100 \$1,000 \$556 <u>\$4,549</u> \$8,113	Prior Prior Prior 21-22 21-22 21-22
	<u>Performance Measure</u> <del>134</del> Curb ramp(s) <b>78 Curb ramp(s)</b>						

Note: Reduce project limits because proposed EA 07-34450 will reconstruct curb ramps on the removed eastern portion of the project. Extend limits on the west portion to include curb ramps from EA 32370/PPNO 07-5014, which will be combined with this project for construction. Unit prices have gone up, and earthwork and drainage have been added to this project, resulting in no change in programmed amounts.

23 08-Riv-79 5.4/11.4 3006G 0816000049 1G670	Near Temecula, from 3.1 miles north of Route 371 to 1.1 miles south of Pauba Road. Construct <del>8-foot</del> shoulders and rumble strip.	<del>21-22</del> <b>22-23</b> 201.010	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$4,900 \$4,700 \$751 <del>\$7,700</del> <del>\$1,705</del> <u>\$43,272</u> \$63,028	Prior 19-20 19-20 <del>21-22</del> <del>21-22</del> <del>21-22</del> 21-22	\$4,900 \$4,700 \$751 <b>\$8,520</b> <b>\$2,850</b> <u>\$57,200</u> <b>\$78,921</b>	Prior 19-20 19-20 <b>22-23</b> <b>22-23</b> <b>22-23</b>
	<u>Performance Measure</u> 108 Collision(s) reduced						

Note: Change description because full 8-foot shoulders will not be built in all areas. Increase construction capital due to application of cost escalation rates and due to increased retaining wall costs. Construction support costs have been re-estimated and increased. Increase R/W capital because more parcels, temporary easements, and additional mitigation costs are needed. Construction is delayed one year to address project changes during design.

**List of 2020 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)					
24 10-Cal-4 R10.3/16.4 R14.7/16.1 3067A 1018000164 0E531	Near Copperopolis and Angels Camp, from <b>Pool Station Road to west of Appaloosa Way 2.0 miles east of Main Street to Stallion Way.</b> Realign roadway, implement safety features by improving shoulder width, and rehabilitate culverts. <b>Financial Contribution Only (FCO) to Calaveras County.</b>	20-21 <del>201.999</del> <b>201.120</b>	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$0 \$0 <u>\$10,325</u> \$10,325	Prior 20-21 20-21 21-22 20-21 21-22 20-21	\$757 <del>\$1,604</del> \$60 <del>\$1,540</del> <del>\$8</del> <u>\$4,536</u> \$8,505	Prior 20-21 20-21 21-22 21-22 21-22	\$757 <b>\$1,663</b> \$60 <b>\$1,844</b> <b>\$685</b> <b>\$5,094</b> <b>\$10,103</b>

Performance Measure  
 12.2 Centerline mile(s)  
**2.6 Lane mile(s)**

Note: Due to a recent estimate the project limits were shortened to stay within programmed amount. Updates to the description, post miles, and performance measure were made to align with new limits. Change in program code to better align with scope of work.

Performance Measure: Pavement		<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
	<u>Unit</u>				
Existing Condition	Lane mile(s)	0.0	2.6	0.0	2.6
Post Condition	Lane mile(s)	2.6	0.0	0.0	2.6

25 10-Cal-26 Var 30.0 3247 1015000128 0X751	Near West Point, at South Fork Mokelumne River Bridge No. 30-0022 (PM 30.0), and at North Fork Mokelumne River Bridge No. 30-0049 (PM 38.3); <del>also on Route 4 in Angels Camp, at Angels Creek Bridge No. 30-0008 (PM R21.4).</del> Upgrade bridge railing at <del>three</del> <b>two</b> structures, also seismic retrofit at one location.	21-22 201.112	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$757 <del>\$1,604</del> \$60 <del>\$1,540</del> <del>\$8</del> <u>\$4,536</u> \$8,505	Prior 20-21 20-21 21-22 20-21 21-22 21-22	\$757 <b>\$1,663</b> \$60 <b>\$1,844</b> <b>\$685</b> <b>\$5,094</b> <b>\$10,103</b>
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Performance Measure  
 808.0 Linear feet

Note: Update description to remove bridge scope that has been relinquished. Increase PS&E to determine if retaining walls will be needed. Updated R/W estimate identified need for temp construction easements and increase in mitigation for in-lieu fees, bank credits, and permit fees. Increase in Con Sup is due to additional working days and environmental monitoring. Increase in Con Cap is due to added items identified in current estimate.

Performance Measure: Bridges (2 Bridge(s))		<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
	<u>Unit</u>				
Existing Condition	Linear feet rail	0.0	488.0	320.0	808.0
Post Condition	Linear feet rail	808.0	0.0	0.0	808.0

**List of 2020 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)				
26 10-SJ-5 26.1/26.5 3133 1012000259 0X460	In Stockton, at the Stockton Channel Viaduct Bridge No. 29-0176L/R. Bridge rehabilitation to address structural and load carrying capacity deficiencies. This is a Design-Build project. (PA&ED and PS&E Only)	20-21 201.110	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u>	\$4,169 <del>\$15,000</del> \$0 \$0 \$0 <u>\$0</u>	Prior 20-21	\$4,169 <b>\$18,802</b> \$0 \$0 \$0 <u>\$0</u>	Prior 20-21
	<u>Performance Measure</u> 2 Bridge(s)		Total	\$19,169		<b>\$22,971</b>	

Note: Increase in PS&E is necessary to be more consistent with support required for a Design-Build project.

27 10-SJ-205 R4.5/R9.0 3146 1014000146 1C330	In Tracy, from Byron Road Undercrossing to Paradise Road Overcrossing. Install ramp meters and other Transportation Management System (TMS) elements.	21-22 201.315	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u>	\$1,057 \$3,500 \$979 \$5,600 <del>\$3,260</del> <u>\$26,632</u>	Prior Prior Prior 21-22 21-22 21-22	\$1,057 \$3,500 \$979 \$5,600 <b>\$1,653</b> <u>\$26,632</u>	Prior Prior Prior 21-22 21-22
	<u>Performance Measure</u> <del>28 Field element(s)</del> <b>21 Field element(s)</b>		Total	\$41,028		<b>\$39,421</b>	

Note: Reduction in R/W capital is due to a redesign that resulted in less parcels needed for drainage. Electrical design was able to consolidate the detection needs into one controller cabinet per interchange, eliminating seven field elements per location without affecting performance output.

Performance Measure: TMS Elements		Good	Poor	
	<u>Unit</u>	<u>(Operational)</u>	<u>(Not Operational)</u>	<u>Quantity</u>
Existing Condition	Field element(s)	0.0%	0.0%	0.0
Post Condition	Field element(s)	100.0%	0.0%	21.0

**List of 2020 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)				
28 11-SD-8	In the city of San Diego, at the east Route 8 to south Route 163 Connector Overcrossing No. 57-0355G.	20-21 201.112	PA&ED	\$374	Prior	\$374	Prior
2.2 1256	Bridge rail replacement.		PS&E	\$969	Prior	\$969	Prior
1116000045			R/W Sup	\$0		\$0	
26410			Con Sup	\$848	20-21	\$848	20-21
	<u>Performance Measure</u>		R/W Cap	\$0		\$0	
	318.0 Linear feet		<u>Const Cap</u>	<del>\$1,867</del>	20-21	<del>\$2,474</del>	20-21
			Total	\$4,058		<b>\$4,665</b>	

Note: Item quantities and costs have increased, such as a taller concrete barrier, more traffic handling items, and a higher bridge construction cost index, leading to an increase in construction capital.

Performance Measure: Bridges (1 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Linear feet rail	0.0	0.0	318.0	318.0
Post Condition	Linear feet rail	318.0	0.0	0.0	318.0

29 11-SD-8	In San Diego County, from 0.7 mile west of Flinn Springs Road Undercrossing to 0.2 mile east of	20-21 201.151	PA&ED	\$1,077	Prior	\$1,077	Prior
R23.0/R61.3	Crestwood Road Undercrossing. Rehabilitate		PS&E	\$1,246	Prior	\$1,246	Prior
1194	culverts and energy dissipaters.		R/W Sup	\$319	Prior	\$319	Prior
1115000178			Con Sup	<del>\$1,636</del>	20-21	<b>\$1,851</b>	20-21
42210			R/W Cap	\$50	20-21	\$50	20-21
	<u>Performance Measure</u>		<u>Const Cap</u>	<del>\$6,573</del>	20-21	<del>\$8,850</del>	20-21
	44 Culvert(s)		Total	\$10,901		<b>\$13,393</b>	
	<b>20 Culvert(s)</b>						

Note: Performance was originally measured as 14 drainage systems and 24 culverts. Four culverts were removed because they were in good condition, two were removed because they were repaired under an emergency project, and two were added from another project for efficiency. Construction capital has increased because of thicker concrete sections, more welding, and difficult terrain. Construction support has increased with more working days.

Performance Measure: Culverts (20 Each)					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Linear feet	0.0	3,319.0	4,419.0	7,738.0
Post Condition	Linear feet	7,738.0	0.0	0.0	7,738.0

**List of 2020 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)				
30 11-SD-8 Var 1189 1116000075 42460	In San Diego County, on Routes 8, 67, <del>and 79, and 94</del> at various locations. Widen and grade existing hinges at end treatment platforms and to upgrade guardrails and end treatments to current standards.  <u>Performance Measure</u> 6 Collision(s) reduced	20-21 201.015	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$526 \$1,046 \$0 <del>\$824</del> \$0 <u>\$4,552</u> \$6,948	Prior Prior 20-21 20-21 20-21	\$526 \$1,046 \$0 <b>\$960</b> \$0 <b>\$4,186</b> <b>\$6,718</b>	Prior Prior 20-21 20-21

Note: Both locations on Route 94 were removed due to constructability issues and five locations are being removed on Route 67 to be constructed on pavement rehab project EA 43056/PPNO 11-1344. Update construction capital to account for removed locations as well as increased unit prices. Production rates were re-estimated and the work will take longer than expected, increasing construction support.

31 11-SD-52 0.4/5.7 1219 1112000155 41180	In the city of San Diego, from 0.1 mile east of Route 5 to 0.2 mile east of Convoy Street; also on Route 805 from 0.2 mile south of Route 52 to Governor Drive (PM 23.5/24.4). Construct Maintenance Vehicle Pullouts (MVPs), pave slopes under bridge structures, pave narrow areas, upgrade irrigation controllers, replace signs, and pave beyond gores.	20-21 201.235	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$394 \$1,118 \$0 <del>\$539</del> \$0 <u>\$3,296</u> \$5,347	Prior Prior 20-21 20-21 20-21	\$394 \$1,118 \$0 <b>\$1,039</b> \$0 <b>\$4,117</b> <b>\$6,668</b>	Prior Prior 20-21 20-21
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Performance Measure  
52 Location(s)

Note: A previous amendment approved in October 2019 increased the number of locations from 28 to 52 because of additional maintenance needs that were identified. The estimate for the updated scope has been completed and resulted in an increase in construction capital. Working days have also been increased, resulting in an increase in construction support.

**List of 2020 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)				
32 11-SD-67 R6.0/24.4 1344 1119000015 43056	Near Lakeside and Ramona, from 0.2 mile north of San Diego River Bridge to Route 78. Rehabilitate asphalt pavement, drainage system restoration, curb ramp upgrades, guardrail upgrades, and enhance crosswalk visibility.	20-21 201.120	PA&ED	\$807	Prior	\$807	Prior
			PS&E	\$2,690	Prior	\$2,690	Prior
			R/W Sup	\$85	Prior	\$85	Prior
			Con Sup	\$5,110	20-21	\$5,110	20-21
			R/W Cap	\$0		<b>\$326</b>	<b>20-21</b>
			<u>Const Cap</u>	<u>\$26,891</u>	20-21	<u>\$26,891</u>	20-21
			<b>Total</b>	<b>\$35,583</b>		<b>\$35,909</b>	
	<u>Performance Measure</u> 49.8 Lane mile(s)						

Note: Program R/W capital because resources are needed for utility relocations.

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	49.8	0.0	49.8
Post Condition	Lane mile(s)	49.8	0.0	0.0	49.8

33 11-SD-94 4.4/7.3 1253 1112000160 41220	In the cities of San Diego and Lemon Grove, at various locations from 0.2 mile west of 47th Street Overcrossing to 0.6 mile west of College Avenue Undercrossing. Construct Maintenance Vehicle Pullouts (MVPs), pave areas beyond gore, upgrade guardrail, install concrete barrier/crash cushions, relocate irrigation/electrical equipment and upgrade curb ramps to current Americans with Disabilities Act (ADA) standards.	20-21 201.235	PA&ED	\$340	Prior	\$340	Prior
			PS&E	\$901	Prior	\$901	Prior
			R/W Sup	\$0		<b>\$10</b>	<b>20-21</b>
			Con Sup	\$858	20-21	\$858	20-21
			R/W Cap	\$0		<b>\$10</b>	<b>20-21</b>
			<u>Const Cap</u>	<u>\$2,973</u>	20-21	<u>\$2,737</u>	20-21
			<b>Total</b>	<b>\$5,072</b>		<b>\$4,856</b>	

Performance Measure  
~~38~~ Location(s)  
**28** Location(s)

Note: During PS&E, a number of locations were removed for a variety of reasons, lowering construction capital. Some curb ramp work will require utility coordination, resulting in a need for R/W support and R/W capital. Construction support will remain the same, since additional electrical work offsets the lower number of highway worker safety locations.

**List of 2020 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)				
34 11-SD-805 <del>0.7/3.3</del> <b>0.6/3.3</b> 1244 1117000038 42880	In the city of San Diego, from San Ysidro Boulevard Undercrossing to Otay River Bridge; also on Route 905, from 0.3 mile east of Picador Boulevard Undercrossing to <del>Caliente Avenue</del> <b>Overcrossing 0.6 mile east of Route 805 (PM 4.7/5.7)</b> . Convert potable irrigation systems to recycled water.	20-21 201.210	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$327 \$1,149 \$3 \$1,174 \$30 <del>\$8,220</del> \$10,903	Prior Prior Prior 20-21 Prior 20-21	\$327 \$1,149 \$3 \$1,174 \$30 <b>\$6,987</b> <b>\$9,670</b>	Prior Prior Prior 20-21 Prior 20-21

Performance Measure

~~139.0 Acre(s)~~

**118.0 Acre(s)**

Note: Approximately one mile of work on Route 905 was eliminated. The identified elevation gains mean the associated irrigation work is no longer cost-effective because of required booster pumps and cisterns. Additional work on Route 905 was eliminated due to discovered cultural resources. Construction capital is lowered because of the reduced scope, but construction support was re-estimated and will remain unchanged.

35 11-SD-805 <del>3.5/13.4</del> <b>3.5/13.9</b> 1248 1117000045 42900	In <del>various cities</del> and near the cities of Chula Vista, National City, and San Diego, from 0.2 mile south of Main Street/Auto Park Drive Undercrossing to <del>Market Street</del> <b>Overcrossing 0.1 mile south of Home Avenue</b> . Construct and upgrade pedestrian curb ramps to meet Americans with Disabilities Act (ADA) standards. Replace pedestrian signal heads, push buttons and relocate pull boxes, light poles and controller <del>cabinet</del> <b>cabinets</b> .	21-22 201.361	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$843 \$1,960 \$0 <del>\$1,189</del> \$42 <del>\$3,098</del> \$7,102	Prior 20-21 21-22 20-21 21-22	\$843 \$1,960 \$0 <b>\$1,700</b> <b>\$496</b> <b>\$6,548</b> <b>\$11,547</b>	Prior 20-21 21-22 21-22
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Performance Measure

~~49 Curb ramp(s)~~

**44 Curb ramp(s)**

Note: Extend postmiles to include ADA curb ramps at Home Avenue. Update performance because twelve curb ramps were removed for a variety of reasons, and seven new curb ramp locations were added. Increase construction capital because of increases in traffic, earthwork, and pavement costs. Increase support because more working days are needed. Increase R/W capital because more utility work is necessary.



**List of 2020 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)				
36 12-Ora-1 5.5/7.9 2255 1216000003 0P690	In Laguna Beach, from 7th Avenue to north of Moss Street. Upgrade existing curb ramps, sidewalks, and driveways to Americans with Disabilities Act (ADA) standards.	20-21 201.361	PA&ED	\$0		\$0	
			PS&E	\$3,399	Prior	\$3,399	Prior
			R/W Sup	\$2,864	Prior	\$2,864	Prior
			Con Sup	<del>\$3,554</del>	20-21	<b>\$2,500</b>	20-21
			R/W Cap	\$3,121	Prior	\$3,121	Prior
	<u>Performance Measure</u>		<u>Const Cap</u>	<del>\$1,909</del>	20-21	<b>\$5,960</b>	20-21
	<del>57 Curb ramp(s)</del>		Total	\$14,844		<b>\$17,844</b>	
	<b>53 Curb ramp(s)</b>						

Note: Due to the COVID-19 emergency, the city of Laguna Beach will not be able to provide a planned \$7.9M contribution towards construction. Consequently, three of five retaining walls, 700 linear feet of sidewalk, and 4 curb ramps have been removed from the scope. Reduction in construction support is due to the reduced project scope, but construction capital is increased to cover some remaining work after the loss of contributing funds.

## List of 2020 SHOPP Long Lead Project Amendments

Resolution G-00-13, established in June 2000, provides the Department with the means to develop SHOPP projects which require periods longer than the four-year SHOPP cycle. The Commission authorized the Department to program projects for development only when appropriate. Long lead projects must identify challenges that require additional time beyond the typical four years to complete.

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 01-Hum-36 25.4/26.0 2488 0117000220 0G921	Near Bridgeville, from Caltrans Maintenance Station to 0.6 mile east of Caltrans Maintenance Station. Construct soldier pile ground anchor wall to address the slide below the roadway.  (Long Lead Project)	<del>22-23</del> <b>24-25</b> 201.131	PA&ED * PS&E * R/W Sup * Con Sup * R/W Cap * <u>Const Cap</u> Total	\$1,473 \$1,476 \$60 \$1,700 \$12 <u>\$12,376</u> \$17,097	Prior <del>20-24</del> <del>20-24</del> <del>22-23</del> <del>22-23</del> <del>22-23</del> <del>22-23</del>	\$1,473 \$1,476 \$60 \$1,700 \$12 <u>\$12,376</u> \$17,097	Prior <b>22-23</b> <b>22-23</b> <b>24-25</b> <b>24-25</b> <b>24-25</b> <b>24-25</b>

Performance Measure

1 Location(s)

\* Phase NOT Programmed.

Note: Delay existing long lead project to continue working on gathering geotechnical data and developing recommendations. The funds made available from this delay will be used for Complete Streets projects.

2 05-Mon-1 27.5/27.7 2853 0518000105 1K010	Near Lucia, from 0.6 mile to 0.8 mile south of Big Creek Bridge. Construct tieback wall, restore roadway and drainage facilities, and install permanent erosion control measures.  (Long Lead Project)	<del>21-22</del> <b>24-25</b> 201.131	PA&ED * PS&E * R/W Sup * Con Sup * R/W Cap * <u>Const Cap</u> Total	\$1,049 <del>\$1,607</del> <del>\$359</del> <del>\$2,092</del> <del>\$163</del> <u>\$6,925</u> \$12,195	Prior <del>20-24</del> <del>20-24</del> <del>21-22</del> <del>21-22</del> <del>21-22</del> <del>21-22</del>	\$1,049 <b>\$1,743</b> <b>\$416</b> <b>\$2,366</b> <b>\$185</b> <u><b>\$8,093</b></u> <b>\$13,852</b>	Prior <b>22-23</b> <b>22-23</b> <b>24-25</b> <b>24-25</b> <b>24-25</b> <b>24-25</b>
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Performance Measure

1 Location(s)

\* Phase NOT Programmed.

Note: Delay project to continue working on environmental studies to identify potential impacts and mitigation strategies. The increases in future phases is due to the escalation associated with postponement. The funds made available from this delay will be used for Complete Streets projects.

## List of 2020 SHOPP Long Lead Project Amendments

Resolution G-00-13, established in June 2000, provides the Department with the means to develop SHOPP projects which require periods longer than the four-year SHOPP cycle. The Commission authorized the Department to program projects for development only when appropriate. Long lead projects must identify challenges that require additional time beyond the typical four years to complete.

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 05-SLO-1 0.0/0.3 2650 0516000074 1H440	Near Guadalupe, at the Santa Maria River Bridge No. 49-0042; also in Santa Barbara County (PM 50.3/50.6). The bridge is scour critical and needs to be replaced. The existing bridge will be used for traffic handling during construction and then demolished. The highway will need to be realigned as a result of the new bridge location. The new bridge will provide standard lane and shoulder widths and include a protected walkway.	22-23 201.110	PA&ED	\$2,294	Prior	\$2,294	Prior
			* PS&E	<del>\$4,290</del>	20-21	<b>\$3,517</b>	20-21
			* R/W Sup	\$455	20-21	\$455	20-21
			* Con Sup	\$9,660	22-23	\$9,660	22-23
			* R/W Cap	<del>\$530</del>	22-23	<b>\$744</b>	22-23
			* <u>Const Cap</u>	<u>\$33,880</u>	22-23	<u>\$33,880</u>	22-23
			Total	\$51,109		<b>\$50,550</b>	

(Long Lead Project)

Performance Measure

1 Bridge(s)

\* Phase NOT Programmed.

Note: Decrease PS&E due to the use of a new lower escalation rate of 3.2% and revised support estimate. Increase R/W capital due to added parcel, title and escrow, increase in mitigation permit fees, and additional underground utility identification.

Performance Measure: Bridges (1 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	39,826.0	39,826.0
Post Condition	Square feet	66,300.0	0.0	0.0	66,300.0