

Memorandum

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: August 17-18, 2016

Reference No.: 2.1a.(2)
Action Item

From: NORMA ORTEGA
Chief Financial Officer

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

Subject: **SHOPP AMENDMENT 16H-005**

RECOMMENDATION:

The California Department of Transportation (Department) recommends the California Transportation Commission (Commission) approve the requested State Highway Operation and Protection Program (SHOPP) Amendment 16H-005; in accordance with Senate Bill 486 which requires the Commission to approve any changes or new projects amended into the SHOPP.

ISSUE:

Since the June 2016 report to the Commission, the Department recommends 24 new capital projects to be amended into the 2016 SHOPP, as summarized in Attachment 1. The amendments noted below would be funded from the Major Damage Restoration, Safety Improvement, Bridge Preservation, Roadside Preservation, Proposition 1B Bond and 2016 SHOPP programming capacity.

2016 SHOPP Summary of New Projects by Category	No.	FY 2016/17 (\$1,000)	FY 2017/18 (\$1,000)	FY 2018/19 (\$1,000)	FY 2019/20 (\$1,000)
Major Damage Restoration	1	\$2,000			
Collision Reduction	16	\$851	\$10,731	\$6,614	\$36,095
Bridge Preservation	2	\$4,140		\$4,959	
Roadside Preservation	5				\$15,515
Proposition 1B Bond	1		\$3,277		
Total Amendments	25	\$6,991	\$14,008	\$11,573	\$51,610

The Department also recommends that the capital projects, as summarized in Attachment 2 will be amended into the 2016 SHOPP.

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 amends 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.

Resolution G-00-13, established in June 2000, provides the Department with 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.

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

Attachments

List of New 2016 SHOPP Capital Project Amendments

PPNO	Dist-Co-Rte PM EA Project ID	Project Location and Description of Work	R/W Cost Const. Cost (\$1,000)	FY	Support Costs (\$1,000)	Program Code Leg. /Congr. Dists. Perf. Meas.
Major Damage Restoration						
1452M	4-SM-1 39.6/40.1 2K910 04 1700 0049	Near Pacifica, at the Tom Lantos Tunnels. Perform outstanding environmental mitigation commitments.	\$25 (R/W) \$1,975 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$0 \$0 \$25 \$1,500 \$1,525	201.131 Assembly: 19 Senate: 8 Congress: 12 3 Locations
Collision Reduction						
2393	1-Hum-101 78.1/79.6 0E680 01 1400 0123	In Eureka, on 4 th Street from Broadway to Y Street. Restripe to add traffic and bicycle lanes, construct pedestrian bulb-outs and ADA ramps, and install or modify signals. PAED: 12/01/2017 R/W: 12/01/2018 RTL: 12/15/2018 CCA: 12/01/2020	\$360 (R/W) \$6,254 (C)	18/19	PA & ED PS & E RW Sup Con Sup Total \$1,114 \$690 \$362 \$1,236 \$3,402	201.010 Assembly: 1 Senate: 2 Congress: 1 503 Collisions reduced
3102	1-Lak-29 12.8/14.4 0E720 01 1500 0003	Near Lower Lake, from north of Spruce Grove Road to south of Hofacker Lane. Widen shoulders. PAED: 10/01/2018 R/W: 10/01/2019 RTL: 10/15/2019 CCA: 12/01/2021	\$502 (R/W) \$8,813 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total \$1,280 \$1,119 \$88 \$2,464 \$4,951	201.010 Assembly: 4 Senate: 2 Congress: 5 18 Collisions reduced
3203	1-Lak-29 Var 0E730 01 1500 0004	Near Lower Lake, at various locations. Widen for truck climbing lanes and shoulders. PAED: 10/01/2018 R/W: 10/01/2019 RTL: 10/15/2019 CCA: 12/01/2021	\$459 (R/W) \$5,646 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total \$1,355 \$1,216 \$62 \$2,039 \$4,672	201.010 Assembly: 4 Senate: 2 Congress: 5 45 Collisions reduced
2636	5-SCR-1 16.7/17.0 1H060 05 1600 0020	In and near Santa Cruz, from 0.1 mile south of Route 1/17 Separation to 0.4 mile south of Pasatiempo Overcrossing; also on Route 17 (PM 0.0/0.3). Realign southbound Route 17 connector to southbound Route 1. PAED: 08/01/2017 R/W: 03/08/2019 RTL: 07/01/2019 BC: 11/01/2019	\$658 (R/W) \$5,811 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total \$792 \$1,930 \$217 \$1,973 \$4,912	201.010 Assembly: 29 Senate: 17 Congress: 18, 20 140 Collisions reduced

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Collision Reduction (Cont.)						
6811	6-FRE-198 Var OV310 07 1600 0130	In and near Coalinga, from the Monterey County line to Kings County line at various locations (PM 0.0/42.7). Install centerline rumble strip. PAED: 06/23/2016 R/W: 02/08/2017 RTL: 03/08/2017 BC: 07/14/2017	\$ 1 (R/W) \$ 850 (C)	16/17	PA & ED PS & E RW Sup Con Sup <hr/> Total \$0 \$450 \$1 \$350 \$801	201.010 Assembly: 30, 31 Senate: 12,14 Congress: 21 25 Collisions reduced
6793	6-TUL-198 10.5/11.2 OU720 06 1600 0026	In Visalia, from Burke Street to 0.7 mile east of Ben Maddox Way. Widen inside shoulder and construct rumble strip PAED: 04/30/2017 R/W: 09/15/2017 RTL: 09/30/2017 BC: 03/20/2018	\$4 (R/W) \$915 (C)	17/18	PA & ED PS & E RW Sup Con Sup <hr/> Total \$450 \$425 \$24 \$215 \$1,114	201.010 Assembly: 26 Senate: 16 Congress: 22 12 Collisions reduced
5076	7-LA-1 6.5 33020 07 1600 0212	In Long Beach, at Pacific Avenue. Install left-turn phasing, ladder striping crosswalks and upgrade signals and curb ramps to meet current standards. PAED: 06/30/2016 R/W: 07/06/2017 RTL: 08/15/2017 BC: 12/19/2017	\$126 (R/W) \$525 (C)	17/18	PA & ED PS & E RW Sup Con Sup <hr/> Total \$0 \$235 \$60 \$200 \$495	201.010 Assembly: 64 Senate: 43 Congress: 35 32 Collisions reduced
5085	7-LA-1 10.7 33170 07 1600 0234	In the city of Los Angeles, at North Fries Avenue. Install new traffic signal and surveillance system, safety lighting, pedestrian crosswalks and upgrade ADA curb ramps. PAED: 06/30/2016 R/W: 01/31/2018 RTL: 03/31/2018 BC: 10/31/2018	\$ 185 (R/W) \$ 515 (C)	17/18	PA & ED PS & E RW Sup Con Sup <hr/> Total \$0 \$382 \$178 \$270 \$830	201.010 Assembly: 64 Senate: 35 Congress: 44 4 Collisions reduced
5153	7-LA-5 18.3 33270 07 1600 0290	In the city of Los Angeles, at the westbound Route 10 connector to southbound Route 5. Apply High Friction Surface Treatment (HFST) and upgrade lighting. PAED: 02/28/2018 R/W: 09/30/2019 RTL: 10/30/2019 BC: 05/28/2020	\$ 10 (R/W) \$ 1,813 (C)	19/20	PA & ED PS & E RW Sup Con Sup <hr/> Total \$215 \$450 \$15 \$466 \$1,146	201.010 Assembly: 53 Senate: 24 Congress: 34 62 Collisions reduced

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Collision Reduction (Cont.)						
5084	7-LA-110 9.7 33160 07 1600 0233	In the city of Los Angeles, at the northbound Route 110 connector to eastbound Route 91. Apply High Friction Bauxite Surface Treatment (HFBST), install high visibility thermoplastic lane and edge lines and upgrade guardrail to current standards. PAED: 04/16/2018 R/W: 08/20/2019 RTL: 10/11/2019 BC: 05/14/2020	\$10 (R/W) \$1,585 (C)	19/20	PA & ED PS & E RW Sup Con Sup <hr/> Total \$756 \$1,631	201.010 Assembly: 64 Senate: 43 Congress: 35 30 Collisions reduced
4963	7-LA-605 23.4/23.6 31880 07 1600 0001	In Irwindale, at the Route 605 northbound ramp to westbound Live Oak Avenue. Realign and widen ramp, construct retaining wall, install concrete barrier and replace guardrail. PAED: 06/29/2016 R/W: 09/19/2019 RTL: 11/18/2019 BC: 05/29/2020	\$1,077 (R/W) \$3,520 (C)	19/20	PA & ED PS & E RW Sup Con Sup <hr/> Total \$0 \$1,232 \$276 \$1,340 \$2,848	201.010 Assembly: 48 Senate: 32 Congress: 22 20 Collisions reduced
3178	10-Ama-88 Var 1C430 10 1600 0127	In Amador and Alpine Counties on Routes 16, 49, 88, and 104 at various locations. Install centerline and shoulder rumble strips. PAED: 03/01/2017 R/W: 11/01/2017 RTL: 03/02/2018 BC: 11/15/2018	\$2 (R/W) \$5,517 (C)	17/18	PA & ED PS & E RW Sup Con Sup <hr/> Total \$409 \$837 \$57 \$916 \$2,219	201.010 Assembly: 4 Senate: 1 Congress: 4 403 Collisions reduced
3201	10-Mpa-49 0.3/23.0 1E570 10 1600 0126	Near the community of Mariposa, from Mt. Bullion Cutoff Road to Madera County line at various locations; also, in Tuolumne County near Sonora on Route 49 from PM 0.5 to R27.5 at various locations. Install centerline, shoulder, and edgeline rumble strips. PAED: 03/01/2017 R/W: 11/01/2017 RTL: 03/02/2018 BC: 11/15/2018	\$2 (R/W) \$1,654 (C)	17/18	PA & ED PS & E RW Sup Con Sup <hr/> Total \$281 \$725 \$30 \$363 \$1,399	201.010 Assembly: 25 Senate: 12 Congress: 19 78 Collisions reduced

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Collision Reduction (Cont.)						
2861D	12-Ora-5 35.0 0P390 12 1500 0094	In the city of Orange, on Route 5 northbound off-ramp to State College Boulevard. Replace traffic signal system with overhead bridge signal structure including high visibility light emitting diodes (LED) signal heads facing southbound State College Boulevard. PAED: 06/24/2016 R/W: 11/01/2017 RTL: 02/01/2018 BC: 05/01/2018	\$7 (R/W) \$1,279 (C)	17/18	PA & ED PS & E RW Sup Con Sup Total \$0 \$647 \$16 \$615 \$1,278	201.010 Assembly: 68 Senate: 37 Congress: 45 25 Collisions reduced
3167	12-Ora-39 5.1/8.1 0P010 12 1500 0022	In Huntington Beach, Westminster and Garden Grove, at the intersections of Heil Avenue (PM 5.14), MacDonald Street (PM 5.30) and Trask Avenue (PM 8.14); also on Route 90 in Brea at the intersection of Castlegate Lane/Placentia Avenue (PM 5.93). Modify existing signals and lighting and upgrade ADA facilities to current standards. PAED: 08/01/2017 R/W: 06/01/2019 RTL: 07/01/2019 BC: 12/02/2019	\$400 (R/W) \$1,570 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total \$500 \$750 \$420 \$720 \$2,390	201.010 Assembly: 65, 72, 55 Senate: 34, 37, 29 Congress: 47, 48, 39 131 Collisions reduced
4096R	12-Ora-73 24.0 0N860 12 1400 0123	In Newport Beach, on the Route 73 southbound off-ramp to MacArthur Boulevard. Widen ramp, install traffic signal and guardrail. PAED: 03/01/2018 R/W: 02/03/2020 RTL: 03/02/2020 BC: 12/01/2020	\$19 (R/W) \$4,202 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total \$500 \$1,500 \$30 \$1,052 \$3,082	201.010 Assembly: 74 Senate: 37 Congress: 48 82 Collisions reduced
Bridge Preservation						
4649	1-Men-101 48.1 0G380 01 1600 0177	Near Willits, at Upp Creek Bridge No. 10-0070. Replace existing box culvert with bridge to improve fish barrier passage. PAED: 07/01/2016 R/W: 09/15/2016 RTL: 09/30/2016 BC: 05/01/2017	\$4,140 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$0 \$848 \$12 \$1,507 \$2,367	201.110 Assembly: 1 Senate: 2 Congress: 1 1 Bridge

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Bridge Preservation (Cont.)							
3192	10-Sta-99 R13.9/R15.1 1C870 10 1600 0024	In and near Modesto, from north of Hatch Road to south of Tuolumne Boulevard at Tuolumne River Bridge (No. 38-0078L/R), South Modesto Undercrossing (No. 38-0082L/R), and South Modesto Overhead (No. 38-0076L/R). Replace bridge approach slabs and joint seals at six bridges, and repair bridge deck at one location. PAED: 03/28/2017 R/W: 12/18/2018 RTL: 01/17/2019 BC: 06/14/2019	\$30 (R/W) \$4,929 (C)	18/19	PA & ED PS & E RW Sup Con Sup <hr/> Total	\$310 \$845 \$10 \$1,040 <hr/> \$2,205	201.119 Assembly: 25, 26 Senate: 12, 13 Congress: 18, 19 6 Bridge(s)
Roadside Preservation							
3588	2-But-70 22.0/48.0 0H560 02 1500 0051	Near Pulga, from 3.0 miles west of Coal Canyon Road to Plumas County line at various locations. Drainage system restoration. PAED: 07/24/2018 R/W: 09/04/2019 RTL: 10/11/2019 BC: 02/13/2020	\$290 (R/W) \$2,525 (C)	19/20	PA & ED PS & E RW Sup Con Sup <hr/> Total	\$780 \$760 \$1,060 \$850 <hr/> \$3,450	201.151 Assembly: 3,1 Senate: 4 Congress: 1 25 Drainage systems
3601	2-Sis-96 23.0/103.4 1H090 02 1500 0105	Near Happy Camp, from 0.3 miles west of Swillup Creek Bridge to Route 263. Drainage system restoration. PAED: 10/19/2018 R/W: 10/25/2019 RTL: 11/22/2019 BC: 04/24/2020	\$200 (R/W) \$2,070 (C)	19/20	PA & ED PS & E RW Sup Con Sup <hr/> Total	\$1,040 \$730 \$530 \$1,060 <hr/> \$3,360	201.151 Assembly: 1 Senate: 1 Congress: 1 20 Drainage systems
3550	2-Teh-36 0.0/100.0 4G560 02 1400 0025	Near Red Bluff, from Shasta County line to Route 32 at various locations. Drainage system restoration. PAED: 07/23/2018 R/W: 09/03/2019 RTL: 10/10/2019 BC: 02/13/2020	\$351 (R/W) \$2,525 (C)	19/20	PA & ED PS & E RW Sup Con Sup <hr/> Total	\$760 \$660 \$620 \$1,310 <hr/> \$3,350	201.151 Assembly: 3 Senate: 4 Congress: 1 25 Drainage systems
3586	2-Tri-3 30.0/T85.0 0H540 02 1500 0049	Near Trinity Center, from 0.9 miles south of Trinity River Bridge to Siskiyou County line at various locations. Drainage system restoration. PAED: 07/23/2018 R/W: 09/03/2019 RTL: 10/10/2019 BC: 02/13/2020	\$365 (R/W) \$3,443 (C)	19/20	PA & ED PS & E RW Sup Con Sup <hr/> Total	\$1,390 \$850 \$1,450 \$1,580 <hr/> \$5,270	201.151 Assembly: 2 Senate: 2 Congress: 2 35 Drainage systems

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Roadside Preservation (Cont.)						
3330	5-SB-101 45.5 0K330 05 1200 0068	Near Gaviota State Park. Rehabilitate and upgrade existing drainage system. PAED: 07/10/2018 R/W: 05/13/2020 RTL: 05/13/2020 BC: 10/23/2020	\$ 146 (R/W) \$ 3,600 (C)	19/20	PA & ED PS & E RW Sup Con Sup <u>Total</u> \$780 \$1,430 \$245 \$1,111 \$3,566	201.151 Assembly: 37 Senate: 19 Congress: 24 1 Drainage systems
Proposition 1B Bond						
6814	6-Ker-14 L16.7 0T301 06 1600 0183	In Mojave, at the Mojave Maintenance Station (L-5713). Demolish deteriorated facilities and construct new crew room, equipment storage building and modifications to the existing wash pad. PAED: 7/26/2016 R/W: 09/15/2017 RTL: 10/01/2017 BC: 04/15/2018	\$520 (R/W) \$2,757 (C)	17/18	PA & ED PS & E RW Sup Con Sup <u>Total</u> \$0 \$938 \$230 \$1,250 \$2,418	201.352 Assembly: 33 Senate: 16 Congress:23 1 Location

2016 SHOPP Amendment 16H-005
 Cost, Scope, Schedule and Technical Changes
 Includes Federal Emergency Relief Funds
 (\$ Thousands)

Dist	County	Route	Post Miles	Description/Location	EA	PPNO	EFIS	Prog Code	FY	RW	Const	Support			Quantiv.	Perf Measure
												PA&ED	PS&E	RW		
05	Santa Cruz	17	0-1/0-4 0.2/0.5	Near the city of Santa Cruz, from southbound exit ramp to Route 1 to entrance ramp from Pasatiempo Drive. Widen shoulder and construct retaining wall.	10670	2422	0512000194	201.010	2017/18	93 181	5,713	PA&ED PS&E RW Const	1,101 1,451 198 1,413	1,101 1,451 198 1,413	100.00	Collisions Reduced
Comments: The refinement of the scope resulted in updated retaining wall type selection which requires additional partial acquisition, environmental fees for 1600 and 401 Permits and four utility pole relocations. These changes add \$88,000 to the cost of the project.																
08	San Bernardino	395	35.5/39.1	Near Adelanto, from 1.0 mile south of Kramer Hills to 2.6 miles north of Kramer Hills. Widen median and shoulders; contract rumble strips.	0N972	0358P	0815000102	201.010	2017/18	4,493 1,567	13,570	PA&ED PS&E RW Const	1,987 2,278 2,026 3,467	1,987 2,278 2,026 3,467	7.00	Collisions Reduced
Comments: The scope of the offsite mitigation was refined resulting in additional costs due to cultural impacts to the San Manuel Indian Tribe and impacts to the Desert Tortoise requiring the acquisition of 43.9 acres. A permit with the U.S. Fish and Wildlife is also needed. These changes add \$464,000 to the cost of the project.																
10	Mariposa	140	21.2/21.8	In the community of Mariposa, from Route 49 to 12th Street. Improve pedestrian access facilities to reduce collision severity.	0Y600	3131	1013000244	201.015	2019/20	159	1,550	PA&ED PS&E RW Const	483 294 77 398	296 528 411 390	24.00	Collisions Reduced
Comments: An increase to support costs are required to implement previously under-estimated effort for project improvements within a historical town. These costs were incorrectly based on an early percentage-based estimate for a typical safety project and are now updated, although late. After the project was programmed, greater effort was realized to gather survey data for the PA&ED phase. Design support costs were found to be underestimated for complex ADA/pedestrian infrastructure and utility conflicts. Greater RW support effort was found to be necessary to acquire temporary construction easements (TCEs) and to address utilities. Construction support effort increased as a result of a work plan review and escalation/inflationary rates.																
12	Orange	91	R13.8	Near Anaheim, at the westbound Peralta Weigh Station. Rehabilitate Commercial Vehicle Enforcement Facility (CVEF).	0N270	4644A	1213000187	201.321	2017/18	0	3,373 4,687	PA&ED PS&E RW Const	422 774 18 899	422 952 18 951	1.00	Location(s)
Comments: The project team determined an updated scope was needed to meet the project purpose which results in a cost increase to PS&E Support, Construction Support and Construction Capital. The scale-lane pavement needs to be reconstructed, the scale needs to be replaced with a multi-platform scale, and the Weigh Station needs to be repaved to accommodate parking and repairing disabled trucks. These changes add \$1,634,000 to the cost of the project.																