

M e m o r a n d u m

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: January 31-February 1, 2018

Reference No.: 2.1a.(1)
Action Item

From: NORMA ORTEGA
Chief Financial Officer

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

Subject: SHOPP AMENDMENT 16H-022

ISSUE:

Should the California Transportation Commission (Commission) approve the California Department of Transportation (Department) request to amend the State Highway Operation and Protection Program (SHOPP) under SHOPP Amendment 16H-022?

RECOMMENDATION:

The Department recommends that 23 new capital projects to be amended into the 2016 SHOPP, as detailed in Attachment 1. These amendments, summarized below, would be funded from the Major Damage Restoration, Collision Reduction, Roadway Preservation 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	16		\$55,130	\$3,205	
Collision Reduction	6		\$2,916	\$4,115	\$22,834
Roadway Preservation	1			\$9,980	
Total Amendments	23		\$58,046	\$17,300	\$22,834

The Department further recommends that the capital projects, detailed in Attachment 2 be amended in the 2016 SHOPP to update cost, scope and schedules and to make other technical changes.

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 Governor September 30, 2014, requires Commission approval of projects amended into the SHOPP.

Attachments

List of New 2016 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.
Major Damage Restoration				
1 01-DN-101 14.8/15.1 1127 0118000075 0H700	Near Crescent City, from 1.0 mile to 1.3 miles north of Rudsill Road. Construct retaining walls, repair culvert and downdrain, and install subsurface dewatering system.	17-18	PA&ED \$0 PS&E \$0 R/W Sup \$15 Con Sup \$2,200 R/W Cap \$10 <u>Const Cap</u> \$7,000 Total \$9,225	201.130 Assembly: 2 Senate: 2 Congress: 2 1 Location(s)
2 01-DN-101 15.1/15.5 1128 0118000074 0H690	Near Klamath, from Wilson Creek Road to 1.7 miles north of Rudisill Road. Repair four existing retaining walls, construct new retaining wall, replace culvert and downdrain, and stabilize roadway.	17-18	PA&ED \$0 PS&E \$0 R/W Sup \$0 Con Sup \$3,000 R/W Cap \$0 <u>Const Cap</u> \$9,800 Total \$12,800	201.130 Assembly: 2 Senate: 2 Congress: 2 1 Location(s)
3 01-Men-101 R33.0/42.0 4701 0118000101 0H760	Near Ukiah, from 0.2 mile north of West Road to 0.1 mile south of South Willits Overhead bridge. Repair fire damage facilities.	17-18	PA&ED \$0 PS&E \$0 R/W Sup \$25 Con Sup \$1,250 R/W Cap \$10 <u>Const Cap</u> \$5,000 Total \$6,285	201.130 Assembly: 2 Senate: 2 Congress: 2 1 Location(s)
4 03-But-70 46.0/47.0 2293 0318000012 3H540	Near Paradise, from 0.8 mile west to 0.2 mile east of Shady Rest Area. Restore and repair damaged roadway by raising the existing vertical alignment by approximately five feet and protecting the embankment against future flooding with Rock Slope Protection (RSP) or a retaining structure.	20-21	PA&ED \$1,700 * PS&E \$4,200 * R/W Sup \$400 * Con Sup \$6,600 * R/W Cap \$2,120 * <u>Const Cap</u> \$43,846 Total \$58,866	201.131 Assembly: 1 Senate: 4 Congress: 1 1 Location(s)
	PA&ED: 10/11/2019 R/W: 11/10/2020 RTL: 12/05/2020 BC: 06/05/2021			
	* Phase NOT Authorized.			
5 03-ED-49 16.9 3153 0318000121 3H990	Near Placerville, at 0.5 mile north of Diana Street. Replace failed culvert, reconstruct embankment, and repair roadway.	17-18	PA&ED \$0 PS&E \$0 R/W Sup \$20 Con Sup \$200 R/W Cap \$25 <u>Const Cap</u> \$450 Total \$695	201.130 Assembly: 5 Senate: 1 Congress: 4 1 Location(s)

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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.
<i>Major Damage Restoration, continued</i>					
6 03-Pla-65 R23.6/R23.8 4900 0318000112 3H940	Near Wheatland, from 0.2 mile south of Bear River Bridge to Bear River Bridge. Repair eroded embankment, replace asphalt dike, and repair roadway.	17-18	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$10 \$180 \$10 <u>\$540</u> \$740	201.130 Assembly: 6 Senate: 4 Congress: 4 1 Location(s)
7 03-Pla-80 43.5 5136 0318000125 4H010	Near Baxter, at 0.3 mile east of Ridge Road; also at 0.4 mile east of Baxter Overcrossing (PM 47.32); also in Nevada County, near Hinton at 0.4 mile west of Hirschdale Road (PM 21.98). Reconstruct eroded embankment, repair drainage systems, and repair roadway.	17-18	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$250 \$0 <u>\$1,000</u> \$1,250	201.130 Assembly: 1 Senate: 1 Congress: 1 3 Location(s)
8 03-Yol-16 4.0 8668 0318000002 3H460	Near Esparto, west of Cache Creek Bridge No. 22 -0019. Install rock fall barrier to stabilize slope and minimize rock fall onto the traveled way. PA&ED: 09/03/2018 R/W: 06/09/2018 RTL: 06/14/2019 BC: 12/01/2019	18-19	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$500 \$550 \$80 \$220 \$55 <u>\$1,800</u> \$3,205	201.131 Assembly: 4 Senate: 3 Congress: 3 1 Location(s)
9 04-Mrn-1 9.8 2021H 0418000059 0Q260	Near Stinson Beach, at Lone Tree Creek. Remove and reconstruct fifty-four inch CSP culvert and repair sinkhole.	17-18	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$360 \$10 <u>\$1,100</u> \$1,470	201.130 Assembly: 10 Senate: 3 Congress: 2 1 Location(s)
10 04-Nap-Var Var 0269S 0418000172 0Q910	In Napa, Sonoma, and Lake Counties, at various locaitons. Repair fire damaged facilities.	17-18	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$2,100 \$10 <u>\$6,800</u> \$8,910	201.130 Assembly: 2, 4, 10 Senate: 2, 3 Congress: 2, 5 4 Location(s)

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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.
<i>Major Damage Restoration, continued</i>					
11 07-LA-210 R11.1/R14.8 5278 0718000110 1XF80	In the city of Los Angeles, from Sundland Boulevard to 0.6 mile east of La Tuna Canyon Road. Repair fire damaged facilities.	17-18	PA&ED	\$0	201.130
			PS&E	\$0	Assembly: 39
			R/W Sup	\$150	Senate: 25
			Con Sup	\$1,250	Congress: 28
			R/W Cap	\$0	
			<u>Const Cap</u>	<u>\$4,935</u>	1 Location(s)
			Total	\$6,335	
12 07-LA-Var Var 5263 0718000107 1XE30	In Los Angeles County, on Routes 5 and 210 at various locations. Repair drainage systems, reconstruct embankments, and recompact bridge abutment slope.	17-18	PA&ED	\$0	201.130
			PS&E	\$0	Assembly: 36, 38, 39
			R/W Sup	\$50	Senate: 20, 21
			Con Sup	\$120	Congress: 25, 29
			R/W Cap	\$50	
			<u>Const Cap</u>	<u>\$375</u>	4 Location(s)
			Total	\$595	
13 07-Ven-1 0.8 5279 0718000156 1XF90	In Malibu, at Tonga Street. Remove existing drainage pipe, construct drainage junction box, install a twenty-four inch CSP culvert, and repair sinkhole.	17-18	PA&ED	\$0	201.130
			PS&E	\$0	Assembly: 44
			R/W Sup	\$25	Senate: 27
			Con Sup	\$150	Congress: 26
			R/W Cap	\$50	
			<u>Const Cap</u>	<u>\$585</u>	1 Location(s)
			Total	\$810	
14 07-Ven-150 20.2 5299 0718000157 1XG00	Near Ojai, about 0.2 mile east of Reeves Road. Replace existing reinforced concrete box culvert with a precast reinforced concrete box culvert and repair roadway.	17-18	PA&ED	\$0	201.130
			PS&E	\$0	Assembly: 19
			R/W Sup	\$25	Senate: 37
			Con Sup	\$125	Congress: 26
			R/W Cap	\$25	
			<u>Const Cap</u>	<u>\$500</u>	1 Location(s)
			Total	\$675	
15 08-Riv-91 R0.0/R1.1 3009W 0818000061 1J520	In Corona, from Orange/Riverside County line to Green River Drive. Repair embankment and replace MBGR, and culverts.	17-18	PA&ED	\$80	201.130
			PS&E	\$150	Assembly: 60
			R/W Sup	\$50	Senate: 31
			Con Sup	\$350	Congress: 42
			R/W Cap	\$10	
			<u>Const Cap</u>	<u>\$1,100</u>	1 Location(s)
			Total	\$1,740	
16 10-SJ-99 30.7 3287 1018000103 1J320	In Lodi, at East Pine Street Overcrossing No. 29-0149. Remove and replace damaged girder.	17-18	PA&ED	\$20	201.130
			PS&E	\$80	Assembly: 9
			R/W Sup	\$0	Senate: 14
			Con Sup	\$600	Congress: 9
			R/W Cap	\$0	
			<u>Const Cap</u>	<u>\$1,200</u>	1 Location(s)
			Total	\$1,900	

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Collision Reduction					
1 03-Sac-5 10.8/11.6 5870 031800015 3H570	Near Elk Grove, from Elk Grove Boulevard Overcrossing to 0.4 mile south of Laguna Boulevard Overcrossing. Extend Elk Grove Boulevard onramp merge lane in the northbound direction. PA&ED: 02/15/2018 R/W: 04/15/2018 RTL: 05/01/2018 BC: 10/15/2018	17-18	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$40 \$70 \$10 \$440 \$7 <u>\$673</u> \$1,240	201.010 Assembly: 9 Senate: 3 Congress: 7 20 Collisions reduced
2 03-Sac-Var Var 3855 0318000128 4H020	In Sacramento, Yolo, Placer, and Glenn Counties on Routes 5, 16, 45, 49, 50, 65, 80, 99, 113, and 174 at various locations. Install traffic operations elements such as queue warning systems, flashing beacons, and lighting, and modify existing signals to new standards. PA&ED: 06/01/2018 R/W: 12/15/2018 RTL: 01/01/2019 BC: 04/02/2019	18-19	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$330 \$400 \$120 \$390 \$55 <u>\$2,820</u> \$4,115	201.010 Assembly: 1, 3, 4, 6, 7, 8 Senate: 1, 3, 4, 6 Congress: 1, 3, 4, 6, 7 125 Collisions reduced
3 05-SLO-46 R17.2/R17.6 2701 0517000017 1H930	Near Paso Robles, at Route 46 West intersection with Vineyard Drive. Construct roundabout. PA&ED: 01/12/2018 R/W: 10/9/2019 RTL: 1/9/2020 BC: 8/19/2020	19-20	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$1,895 \$105 \$1,806 \$47 <u>\$5,549</u> \$9,402	201.010 Assembly: 35 Senate: 17 Congress: 24 14.0 Collisions reduced
4 07-LA-1 6.0 5239 0717000160 33980	In Long Beach, at Atlantic Avenue. Install protected left-turn signal phases for northbound and southbound movements, and upgrade signal poles, mast arms, and hardware. PA&ED: 11/20/2017 R/W: 7/1/2019 RTL: 9/1/2019 BC: 7/1/2020	19-20	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$1,040 \$16 \$728 \$87 <u>\$442</u> \$2,313	201.010 Assembly: 70 Senate: 33 Congress: 47 32.0 Collisions reduced

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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.
<i>Collision Reduction, continued</i>					
5 08-SBd-95 40.0/40.4 0238T 0816000072 1E581	Near Needles, from 2.7 miles to 3.1 miles north of Havasu Lake Road. Widen shoulders and install ground-in rumble strips. PA&ED: 4/10/2017 R/W: 2/15/2018 RTL: 6/30/2017 BC: 6/15/2018	17-18	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$550 \$0 <u>\$1,126</u> \$1,676	201.010 Assembly: 33 Senate: 16 Congress: 8 11 Collisions reduced
6 08-SBd-215 4.8/5.8 3010E 0817000132 1H770	In the city of San Bernardino, from 0.2 mile south of Orange Show Road/ Auto Center Drive to 0.2 mile north of Inland Center Drive. Lane reconfiguration and pavement widening. PA&ED: 1/15/2019 R/W: 2/1/2020 RTL: 4/1/2020 BC: 11/25/2020	19-20	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,065 \$1,615 \$31 \$1,950 \$10 <u>\$6,448</u> \$11,119	201.010 Assembly: 47 Senate: 20 Congress: 31 123.0 Collision(s) reduced
Roadway Preservation					
1 07-LA-57 R0.0/R4.5 4718 0714000067 30450	In and near Diamond Bar, from the Orange County line to Route 60. Roadway Preservation. (G13 Contingency Project) PA&ED: 7/26/2017 R/W: 4/10/2019 RTL: 6/10/2019 BC: 2/15/2020	18-19	PA&ED PS&E R/W Sup * Con Sup R/W Cap * <u>Const Cap</u> Total	\$0 \$9,900 \$10 \$13,000 \$70 <u>\$75,920</u> \$98,900	201.122 Assembly: 55 Senate: 29 Congress: 39 44.5 Lane Miles
* Phase NOT Authorized.					

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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-Plu-70 90.3/96.0 3599 0215000086 0H760	In Plumas and Lassen Counties, near Chilcoot, from west of Summit School Drive Road to Route 395 (Lassen PM 0.0/3.9). Roadway rehabilitation. 18 Lane Mile(s)	19-20 201.122	PA&ED	\$1,030	\$1,030
			PS&E	\$900	\$900
			R/W Sup	\$70	\$70
			Con Sup	\$1,440	\$1,440
			R/W Cap	\$0	\$51
			<u>Const Cap</u>	<u>\$20,547</u>	<u>\$20,547</u>
			Total	\$23,987	\$24,038
2 02-Teh-36 40.3/42.1 3558 0214000024 4G540	In Red Bluff, from east of Baker Road to east of East Sand Slough Bridge. Pavement rehabilitation. 10.1 Lane Mile(s)	19-20 201.121	PA&ED	\$700	\$700
			PS&E	\$650	\$650
			R/W Sup	\$240	\$240
			Con Sup	\$1,020	\$1,020
			R/W Cap	\$57	\$122
			<u>Const Cap</u>	<u>\$6,600</u>	<u>\$6,600</u>
			Total	\$9,267	\$9,332
3 02-Tri-299 1.9/2.1 1.9/2.3 3557 0214000031 4G500	Near Salyer, from 0.1 mile west east to 0.4 mile west 0.6 mile east of White House Gulch Road. Improve roadside clear recovery zone. 3 Collision(s) Reduced	19-20 201.015	PA&ED	\$550	\$550
			PS&E	\$1,220	\$1,655
			R/W Sup	\$70	\$70
			Con Sup	\$1,540	\$2,135
			R/W Cap	\$7	\$166
			<u>Const Cap</u>	<u>\$2,732</u>	<u>\$4,100</u>
			Total	\$6,119	\$8,676
4 02-Tri-299 10.9/11.2 3579 0215000019 0H410	Near Burnt Ranch, from 0.4 mile east of Hennessey Road to 0.3 mile west of Burnt Ranch Road. Install rockfall drapery system. 1 Location(s)	19-20 201.150	PA&ED	\$200	\$200
			PS&E	\$470	\$470
			R/W Sup	\$50	\$70
			Con Sup	\$500	\$500
			R/W Cap	\$0	\$22
			<u>Const Cap</u>	<u>\$2,079</u>	<u>\$2,079</u>
			Total	\$3,299	\$3,341
5 02-Tri-299 43.1/43.3 3592 0215000055 0H690	Near Junction City, at west of Canyon Creek Bridge. Install rockfall drapery system 7 Location(s) 1 Location(s)	19-20 201.150	PA&ED	\$330	\$330
			PS&E	\$580	\$580
			R/W Sup	\$200	\$200
			Con Sup	\$630	\$630
			R/W Cap	\$45	\$32
			<u>Const Cap</u>	<u>\$2,495</u>	<u>\$3,000</u>
			Total	\$4,250	\$4,772

**List of 2016 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 03-But-99 15.4 14.9/15.7 2425 0314000101 0F290	Near Richvale, at Cottonwood Creek Bridge No. 12 -0120, from 0.3 mile south to 0.5 mile north of Nelson Avenue. Replace and realign scour-critical bridge. 1 Bridge(s)	19-20 201.111	PA&ED	\$700	\$700
			PS&E	\$1,390	\$1,390
			R/W Sup	\$270	\$270
			Con Sup	\$2,200	\$2,200
			R/W Cap	\$590	\$590
			<u>Const Cap</u>	<u>\$6,200</u>	<u>\$6,814</u>
Total	\$11,350	\$11,964			
7 03-ED-50 22.0/24.3 21.9/24.5 3290 0314000039 4E620	Near Placerville and Camino, from 0.4 0.2 mile west of Still Meadows Road to 0.4 0.4 mile east of Upper Carson Road. Install median barrier, widen shoulders, and construct acceleration/deceleration lane, construct an undercrossing, and construct access to the undercrossing from local roads. 408 Collision(s) Reduced 117 Collision(s) Reduced	18-19 201.010	PA&ED	\$2,500	\$2,500
			PS&E	\$3,500	\$3,500
			R/W Sup	\$1,200	\$1,200
			Con Sup	\$5,800	\$5,800
			R/W Cap	\$2,000	\$3,000
			<u>Const Cap</u>	<u>\$32,000</u>	<u>\$32,000</u>
Total	\$47,000	\$48,000			
8 03-Nev-80 0.0/20.0 4288 0314000228 4F600	In and near Truckee, from east of Kingvale Undercrossing to west of Union Mills Bridge and Overhead. Replace guardrail with concrete barrier. 24 Collision(s) Reduced	18-19 201.015	PA&ED	\$410	\$410
			PS&E	\$660	\$660
			R/W Sup	\$30	\$30
			Con Sup	\$770	\$950
			R/W Cap	\$62	\$5
			<u>Const Cap</u>	<u>\$6,220</u>	<u>\$12,308</u>
Total	\$8,452	\$14,363			
9 03-Nev-174 9.7/10.1 4450 0313000047 3F680	In Grass Valley, from Park Street to Route 20. Upgrade pedestrian infrastructure to meet ADA requirements. 85 Curb Ramp(s)	18-19 20-21 201.361	PA&ED	\$180	
			PS&E	\$330	
			R/W Sup	\$86	
			Con Sup	\$360	
			R/W Cap	\$150	
			<u>Const Cap</u>	<u>\$1,660</u>	
Total	\$2,766				
10 03-Pla-80 2.8 5113 0315000174 0H460	In Roseville, at the Atlantic Street/Eureka Road westbound onramp. Install ramp meters and widen ramp for storage capacity. (G13 Contingency Project) 563 1,000 Vehicle Hour(s)/Yr * Phase NOT Authorized.	18-19 19-20 201.310	PA&ED	\$700	\$700
			PS&E	\$700	\$700
			R/W Sup	\$130	\$130
			* Con Sup	\$850	\$900
			R/W Cap	\$650	\$270
			* <u>Const Cap</u>	<u>\$5,500</u>	<u>\$6,440</u>
Total	\$8,530	\$9,140			

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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)	
11 03-Sac-51 2.6/R3.0 2.0/3.5 6402 0312000054 3F070	In the city of Sacramento, at the American River Bridge No. 24-0003 from north of B Street Underpass to north of Exposition Boulevard Overcrossing. Widen and replace bridge deck. (G13 Contingency Project)	19-20 21-22 201.110	PA&ED PS&E R/W Sup * Con Sup R/W Cap <u>* Const Cap</u> Total	\$4,340 \$10,130 \$360 \$16,120 \$1,000 <u>\$105,300</u> \$137,250	\$4,340 \$12,000 \$600 \$22,000 \$2,000 \$123,000 \$163,940
* Phase NOT Authorized.					
12 03-Sac-99 21.9/23.6 6923B 0317000153 0H342	In the city of Sacramento, at 21st Avenue Undercrossing No. 24-0154. Replace bridge deck.	19-20 201.110	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$210 \$240 \$3 \$500 \$5 <u>\$2,240</u> \$3,278	\$210 \$240 \$3 \$825 \$5 \$4,560 \$5,843
13 03-Sie-49 0.0/15.9 7778 0314000231 4F630	In Sierra, Nevada , and El Dorado Counties on Routes 49, 89 and 193 at various locations. Upgrade guard rail to current standards.	18-19 201.015	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$85 \$605 \$10 \$590 \$60 <u>\$1,410</u> \$2,760	4 Collision(s) Reduced 13 Collision(s) Reduced
14 03-Yol-5 5.5/R17.6 R6.5/R17.6 5833 0312000072 3F140	In and near Woodland, from County Road 102 East Main Street to County Road 13 at various locations; also, in the city of Sacramento, from Seamas Avenue to Richards Boulevard (PM 19.3/24.7) at various locations. Upgrade ADA facilities. (G13 Contingency Project)	18-19 201.361	PA&ED PS&E R/W Sup * Con Sup R/W Cap <u>* Const Cap</u> Total	\$110 \$140 \$30 \$170 \$0 <u>\$690</u> \$1,140	54 Curb Ramp(s) 23 Curb Ramp(s)
* Phase NOT Authorized.					
15 03-Yub-20 13.3/R17.6 13.3/R17.8 9579 0300020593 0A570	Near Marysville, from Marysville Road to Yuba River (Parks Bar) to Bridge. Rehabilitate roadway. (G13 Contingency Project)	18-19 201.120	PA&ED PS&E R/W Sup * Con Sup R/W Cap <u>* Const Cap</u> Total	\$3,700 \$2,210 \$2,300 \$6,900 \$6,800 <u>\$38,100</u> \$60,040	9.9 Lane Mile(s) \$38,100 \$62,610
* Phase NOT Authorized.					

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16 03-Yub-70 16.2/25.8 9819 0314000153 4F380	Near Marysville, from Laurellen Road to South Honcut Creek Bridge. Widen shoulders and improve clear recovery zone. 80 Collision(s) Reduced	19-20 201.010	PA&ED	\$3,906	\$3,906
			PS&E	\$4,884	\$4,884
			R/W Sup	\$6,227	\$6,227
			Con Sup	\$6,094	\$9,030
			R/W Cap	\$9,858	\$9,858
			<u>Const Cap</u>	<u>\$70,735</u>	<u>\$70,735</u>
			Total	\$101,704	\$104,640
17 04-Ala-84 17.2 17.0/17.4 0481M 0414000012 0J550	Near Sunol, at Arroyo De La Laguna Bridge No. 33 -0043. Replace/rehabilitate bridge for bridge scour mitigation, and bridge rail upgrade, and seismic retrofit. 1 Bridge(s)	19-20 21-22 201.111	PA&ED	\$1,863	\$1,863
			PS&E	\$2,392	\$3,600
			R/W Sup	\$23	\$250
			Con Sup	\$2,461	\$3,600
			R/W Cap	\$5	\$500
			<u>Const Cap</u>	<u>\$6,970</u>	<u>\$13,000</u>
			Total	\$13,714	\$22,813
18 04-CC-4 Var. R16.4/R20.7 1480F 0414000412 0418000183 2J000 2J00A	In and near Concord and Pittsburg , from Route 680 west of Willow Pass Road to east of Bailey Road at three two locations. Install safety lighting, high reflective striping and markings. 56 Collision(s) Reduced 62 Collision(s) Reduced	17-18 201.010	PA&ED	\$830	\$830
			PS&E	\$830	\$830
			R/W Sup	\$125	\$125
			Con Sup	\$747	\$747
			R/W Cap	\$217	\$217
			<u>Const Cap</u>	<u>\$3,933</u>	<u>\$2,837</u>
			Total	\$6,682	\$5,586
19 04-CC-4 12.9/R14.4 1480Z 0418000182 2J001	In and near Concord, from Route 680 to Route 242 . Install safety lighting, high reflective striping and markings. 23 Collision(s) Reduced	17-18 201.010	PA&ED		\$0
			PS&E		\$0
			R/W Sup		\$0
			Con Sup		\$0
			R/W Cap		\$0
			<u>Const Cap</u>		<u>\$1,096</u>
			Total		\$1,096
20 04-Mrn-1 28.5 0756K 0413000350 0G642	Near Point Reyes Station, at Lagunitas Creek Bridge No. 27-0023. Replace bridge. (G13 Contingency Project) 1 Bridge(s) * Phase NOT Authorized.	19-20 20-21 201.113	PA&ED	\$4,187	\$4,187
			PS&E	\$1,400	\$2,850
			R/W Sup	\$685	\$750
			* Con Sup	\$1,756	\$2,500
			R/W Cap	\$2,691	\$6,500
			* <u>Const Cap</u>	<u>\$11,552</u>	<u>\$11,552</u>
			Total	\$22,271	\$28,339

**List of 2016 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)	
21 04-Nap-121 0.5/1.0 0775H 0418000217 4G21A	Near Napa, at Huichica Creek (PM 0.75). Mitigation planting, monitoring, and reporting for EA 4G211. 0 Collision(s) Reduced	21-22 201.010	PA&ED		\$0
			PS&E		\$0
			R/W Sup		\$0
			Con Sup		\$900
			R/W Cap		\$0
			<u>Const Cap</u>		<u>\$1,000</u>
			Total		\$1,900
22 04-Nap-121 0.7 0.5/1.0 0775G 0412000310 0418000216 4G210 4G211	Near Napa, at Huichica Creek (PM 0.75). Roadway widening. 0 Collision(s) Reduced	18-19 19-20 201.010	PA&ED	\$1,750	\$1,750
			PS&E	\$1,530	\$1,530
			R/W Sup	\$90	\$90
			Con Sup	\$900	\$3,000
			R/W Cap	\$220	\$1,852
			<u>Const Cap</u>	<u>\$8,700</u>	<u>\$12,247</u>
			Total	\$13,190	\$20,469
23 04-SCI-152 7.6/M10.2 1452D 0417000019 2K750	In Gilroy, from 0.3 miles west of Santa Teresa Boulevard to Route 101. Rehabilitate pavement. 7.9 Lane Mile(s)	19-20 201.121	PA&ED	\$1,400	\$1,400
			PS&E	\$1,600	\$1,600
			R/W Sup	\$58	\$58
			Con Sup	\$1,800	\$1,800
			R/W Cap	\$10	\$125
			<u>Const Cap</u>	<u>\$14,165</u>	<u>\$14,165</u>
			Total	\$19,033	\$19,148
24 04-SF-1 Var 1489B 0415000221 3J890	In the City and County of San Francisco, on Routes 1, 35, 80, 101 and 280 at various locations. Crosswalk safety enhancements. 252 Collision(s) Reduced 55 Collision(s) Reduced	18-19 19-20 201.015	PA&ED	\$440	\$440
			PS&E	\$914	\$914
			R/W Sup	\$91	\$91
			Con Sup	\$914	\$914
			R/W Cap	\$5	\$5
			<u>Const Cap</u>	<u>\$7,060</u>	<u>\$5,800</u>
			Total	\$9,424	\$8,164
25 04-SM-280 R0.2/R3.4 0481J 0414000024 0J670	In and near Woodside, at various locations (also Santa Clara County PM 20.4); also in the City and County of San Francisco on Route 101 at San Bruno Avenue off-ramp (PM 1.7). Construct maintenance worker safety improvements. 61 Locations	18-19 201.235	PA&ED	\$440	\$440
			PS&E	\$880	\$880
			R/W Sup	\$110	\$40
			Con Sup	\$770	\$770
			R/W Cap	\$10	\$10
			<u>Const Cap</u>	<u>\$2,678</u>	<u>\$5,286</u>
			Total	\$4,888	\$7,426

**List of 2016 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 05-Mon-101 R36.9/43.2 47.7 2548 0514000050 1F750	In and near King City, from 0.2 mile south of Wild Horse Road to north of Jolon Road Teague Avenue . Rehabilitate pavement. 17.2 Lane Mile(s)	17-18 201.122	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$2,382 \$70 \$8,177 \$15 <u>\$56,260</u> \$66,904	
27 05-SB-101 56.0 2561 0514000061 1F790	Near Buellton, at Nojoqui Creek Bridge No. 51 -0018L/R. Bridge rail replacement and widening. 768 Linear Feet 773 Linear Feet	19-20 201.112	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$910 \$1,490 \$430 \$1,000 \$442 <u>\$4,890</u> \$8,832	\$910 \$1,789 \$211 \$1,218 \$99 \$5,304 \$9,531
28 05-SCr-9 0.1/7.5 2569 0514000075 1F920	In and near the city of Santa Cruz, from Route 1 to north of Fall Creek Drive. Stormwater improvements. 7.96 Acre(s) Treated/Pollutant 6.3 Acre(s) Treated/Pollutant	19-20 201.335	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$745 \$1,192 \$1,287 \$812 \$214 <u>\$2,356</u> \$6,606	\$745 \$1,192 \$1,287 \$812 \$86 \$2,024 \$6,146
29 06-Ker-99 0.0/19.5 0.0/11.2 6731 0615000035 0T200	In and near Bakersfield, from Route 5 to Panama Lane 0.3 mile north of Old US 99 Overcrossing . Roadway rehabilitation. 58.5 Lane Mile(s) 33.0 Lane Mile(s)	18-19 201.122	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,160 \$1,600 \$100 \$3,600 \$120 <u>\$31,500</u> \$38,080	\$1,160 \$1,600 \$100 \$5,200 \$120 \$48,000 \$56,180
30 06-Ker-99 19.5/21.4 10.4/21.2 6681 0614000010 0Q920	In and near Bakersfield, at Panama Lane Overcrossing and White Lane Overcrossing. Lower highway profile below overcrossings to accommodate clearance requirement for permit vehicles. from 0.5 mile south of Old US 99 Overcrossing to 0.1 mile north of White Lane. Rehabilitate pavement. 2 Bridge(s) 41.4 Lane Mile(s)	19-20 201.322 201.122	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$700 \$1,200 \$20 \$1,100 \$30 <u>\$8,173</u> \$11,223	\$700 \$2,300 \$20 \$4,800 \$30 \$45,440 \$53,290

**List of 2016 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)	
31 06-Ker-166 17.3/17.7 6726 061500047 0S050	Near Mettler, at California Aqueduct Bridge (No. 50 -0323). Bridge rehabilitation. 1 Bridge(s)	18-19 20-21 201.110	PA&ED	\$1,045	\$1,045
			PS&E	\$1,650	\$5,100
			R/W Sup	\$400	\$600
			Con Sup	\$2,400	\$6,200
			R/W Cap	\$430	\$1,100
			<u>Const Cap</u>	<u>\$7,300</u>	<u>\$30,000</u>
			Total	\$12,325	\$44,045
32 06-Kin-Var Var 6797 061600027 0U300	In Kings and Tulare Counties, on Routes 63, 99,137, 198 and 216. Repair and replace stolen and damaged electrical systems and protect electrical and irrigation facilities. The work is required to restore incident management, emergency readiness, mobility, functionality, and operation efficiency. 296 Location(s)	19-20 201.131	PA&ED	\$640	\$640
			PS&E	\$1,880	\$1,880
			R/W Sup	\$1,000	\$1,000
			Con Sup	\$1,850	\$1,850
			R/W Cap	\$60	\$130
			<u>Const Cap</u>	<u>\$15,000</u>	<u>\$15,000</u>
			Total	\$20,430	\$20,500
33 07-LA-1 35.1/35.4 4903 0715000227 31690	In Santa Monica, at McClure Tunnel Bridge No. 53 -0008. Enhance safety lighting inside tunnel. 150 Lighting Fixture(s)	18-19 201.170	PA&ED	\$150	\$150
			PS&E	\$0	\$592
			R/W Sup	\$0	\$50
			Con Sup	\$1,903	\$1,903
			R/W Cap	\$0	\$15
			<u>Const Cap</u>	<u>\$5,180</u>	<u>\$5,180</u>
			Total	\$7,233	\$7,890
34 07-LA-1 37.7/62.8 4846 071500090 31350	In the cities of Los Angeles and Malibu, from south of Tenescal Canyon Road to Ventura County line; also in Ventura County, from Los Angeles County line to Tonga Street (PM 0.0/0.9). Rehabilitate culverts. 20 Drainage System(s)	18-19 20-21 201.151	PA&ED	\$1,950	\$1,950
			PS&E	\$2,000	\$3,250
			R/W Sup	\$70	\$1,850
			Con Sup	\$1,535	\$2,750
			R/W Cap	\$482	\$8,200
			<u>Const Cap</u>	<u>\$4,384</u>	<u>\$7,900</u>
			Total	\$10,124	\$25,900
35 07-LA-1 56.5/56.9 4498 071200094 29140	In Malibu, from Guernsey Avenue to Trancas Canyon Road/Broad Beach Road. Replace bridge. 1 Bridge(s)	18-19 201.110	PA&ED	\$2,342	\$2,342
			PS&E	\$2,123	\$2,123
			R/W Sup	\$740	\$740
			Con Sup	\$1,254	\$3,100
			R/W Cap	\$2,024	\$30,000
			<u>Const Cap</u>	<u>\$5,488</u>	<u>\$11,628</u>
			Total	\$13,965	\$49,933

**List of 2016 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 07-LA-5 R59.7/R73.7 5013 071600064 32340	Near Castaic and Valencia, from 0.2 mile north of Lake Hughes Road Undercrossing to 0.7 mile south of Vista Del Lago Road Overcrossing. Cold plane pavement and place Rubberized Hot Mix Asphalt concrete (RHMA), repair drainage systems, and perform upgrades to overhead signs, drainage curbs and guardrail.	17-18 201.121	PA&ED	\$100	\$100
			* PS&E	\$2,549	\$6,000
			* R/W Sup	\$50	\$250
			* Con Sup	\$4,006	\$7,200
			* R/W Cap	\$55	\$250
			* <u>Const Cap</u>	\$43,080	\$43,080
			Total	\$49,840	\$56,880
112 Lane Mile(s)					
* Phase NOT Authorized.					
37 07-LA-14 R24.8/R31.4 4809 071500007 31080	In and near Santa Clarita, from Route 5 to Canyon Park Boulevard. Construct roadside safety improvements.	18-19 201.235	PA&ED	\$118	\$118
			PS&E	\$429	\$1,100
			R/W Sup	\$5	\$48
			Con Sup	\$548	\$1,400
			R/W Cap	\$0	\$30
			<u>Const Cap</u>	\$2,552	\$3,152
			Total	\$3,652	\$5,848
38 07-LA-101 7.7/27.7 4709 0714000035 30370	In the city of Los Angeles, from Highland Avenue to south of Parkway Calabasas. Upgrade median concrete barrier to meet the current standards.	19-20 18-19 201.015	PA&ED	\$550	\$550
			PS&E	\$2,325	\$4,800
			R/W Sup	\$15	\$27
			Con Sup	\$3,050	\$6,000
			R/W Cap	\$20	\$27
			<u>Const Cap</u>	\$20,100	\$35,300
			Total	\$26,060	\$46,704
39 07-LA-210 R0.0/R9.7 4801 0714000299 30960	In the city of Los Angeles, from Route 5 to North Wheatland Avenue. Rehabilitate roadway.	18-19 201.122	PA&ED	\$500	\$500
			PS&E	\$6,000	\$6,000
			R/W Sup	\$500	\$500
			Con Sup	\$14,000	\$16,500
			R/W Cap	\$358	\$490
			<u>Const Cap</u>	\$104,084	\$120,000
			Total	\$125,442	\$143,990
40 08-Riv-10 0.0/R156.4 3005C 0815000162 1F372	In Riverside County, on Routes 10, 15, 71 and 215 at various locations. Replace existing guide signs with Type XI reflectivity. (G13 Contingency Project)	18-19 201.170	PA&ED	\$333	\$333
			PS&E	\$722	\$722
			R/W Sup	\$45	\$45
			* Con Sup	\$508	\$1,214
			R/W Cap	\$10	\$10
			* <u>Const Cap</u>	\$3,449	\$9,069
			Total	\$5,067	\$11,393
* Phase NOT Authorized.					

**List of 2016 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)	
41 08-Riv-10 27.7 3002F 0814000051 1E570	Near Palm Springs, at Whitewater River Bridge No. 56 -0004 L/R. Bridge rehabilitation and scour mitigation. 2 Bridge(s)	18-19 201.110	PA&ED	\$953	\$953
			PS&E	\$1,645	\$1,645
			R/W Sup	\$8	\$8
			Con Sup	\$2,076	\$2,300
			R/W Cap	\$20	\$20
			<u>Const Cap</u>	<u>\$10,434</u>	<u>\$12,399</u>
			Total	\$15,133	\$17,325
42 08-Riv-10 R110.5 3002L 0814000216 1F410	Near Desert Center, at Palen Ditch Bridge No. 56-0040 R/L. Bridge rail replacement. 440 Linear Feet 520 Linear Feet	18-19 201.112	PA&ED	\$139	\$139
			PS&E	\$342	\$342
			R/W Sup	\$10	\$10
			Con Sup	\$449	\$1,567
			R/W Cap	\$10	\$10
			<u>Const Cap</u>	<u>\$592</u>	<u>\$1,846</u>
			Total	\$1,242	\$3,914
43 08-Riv-15 38.2/51.5 3003M 0815000233 1F143	In and near Corona, from south of Ontario Avenue to Route 60. Concrete pavement slab replacement. 79.8 Lane Mile(s)	18-19 19-20 201.121	PA&ED	\$1,022	
			PS&E	\$930	
			R/W Sup	\$10	
			Con Sup	\$4,771	
			R/W Cap	\$10	
			<u>Const Cap</u>	<u>\$24,040</u>	
			Total	\$30,783	
44 08-Riv-74 13.2/34.0 3002C 0812000343 1C680	In and near the cities of Lake Elsinore, Perris, Menifee and Hemet, at Leach Canyon Channel Bridge No. 56 -0750 and Blue Ridge Wash Bridge No. 56-0257; also on Routes 79 and 371, at Arroyo Seco Bridge No. 56 -0189 , Temecula Creek Bridge, and Cahuilla Bridge No. 56-0490 . Bridge rail replacement, replace two bridges, and extend one culvert. 1394 Linear Feet 800 Linear Feet	19-20 201.112	PA&ED	\$505	\$505
			PS&E	\$859	\$2,700
			R/W Sup	\$14	\$80
			Con Sup	\$532	\$2,800
			R/W Cap	\$20	\$50
			<u>Const Cap</u>	<u>\$2,884</u>	<u>\$6,245</u>
			Total	\$4,814	\$12,380
45 08-Riv-74 36.9/43.6 3003P 0814000256 1F590	In Hemet, from Warren Avenue to Soboba Street. Construct and upgrade pedestrian facilities to current ADA standards. 124 Curb Ramp(s) 93 Curb Ramp(s)	19-20 201.361	PA&ED	\$710	\$710
			PS&E	\$1,815	\$1,815
			R/W Sup	\$467	\$467
			Con Sup	\$1,100	\$1,320
			R/W Cap	\$246	\$30
			<u>Const Cap</u>	<u>\$2,188</u>	<u>\$2,753</u>
			Total	\$6,526	\$7,095

**List of 2016 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)	
46 08-SBd-15 12.8/14.8 3003T 0815000245 0K121	In and near Near Fontana and Rialto, from Sierra Avenue to Devore Road Glen Helen Parkway . Rehabilitate roadway. 16 Lane Mile(s)	19-20 201.122	PA&ED	\$570	\$570
			PS&E	\$900	\$900
			R/W Sup	\$10	\$10
			Con Sup	\$2,350	\$2,850
			R/W Cap	\$10	\$10
			<u>Const Cap</u>	\$22,104	\$26,073
			Total	\$25,944	\$30,413
47 08-SBd-15 R96.1/R124.3 3002E 0813000003 1C720	Near Barstow, from 0.3 mile south of Harvard Road to Razor Road. Re-grade and flatten median cross slope. 87 Collision(s) Reduced	19-20 201.015	PA&ED	\$890	\$890
			PS&E	\$920	\$920
			R/W Sup	\$50	\$50
			Con Sup	\$3,160	\$3,160
			R/W Cap	\$10	\$10
			<u>Const Cap</u>	\$12,248	\$15,058
			Total	\$17,278	\$20,088
48 08-SBd-62 121.5/142.7 3004A 0816000003 1F133	Near Vidal, from 3.8 miles west of Route 95 to Arizona State line; also on Route 95 at various locations . Rehabilitate pavement and upgrade guardrail. 42.4 Lane Mile(s)	19-20 201.121	PA&ED	\$400	\$400
			PS&E	\$300	\$515
			R/W Sup	\$10	\$87
			Con Sup	\$1,400	\$2,660
			R/W Cap	\$65	\$65
			<u>Const Cap</u>	\$8,666	\$11,314
			Total	\$10,841	\$15,041
49 08-SBd-210 10.5/12.7 3003X 0815000170 1G210	In Rancho Cucamonga and Fontana, from East Avenue to west of Beech Avenue; also on Route 15 at Route 210/15 Separation. Install Transportation Management System elements. 4 Field Element(s)	18-19 201.315	PA&ED	\$135	\$135
			PS&E	\$390	\$390
			R/W Sup	\$10	\$10
			Con Sup	\$450	\$450
			R/W Cap	\$10	\$19
			<u>Const Cap</u>	\$2,295	\$2,692
			Total	\$3,290	\$3,696
50 08-SBd-210 R21.7/R33.2 3005A 0816000011 1F362	In San Bernardino County, on Routes 71, 210, 215 and 259 at various locations. Replace existing guide signs with Type XI reflectivity. (G13 Contingency Project) 89 Sign(s) 149 Sign(s)	18-19 201.170	PA&ED	\$301	\$301
			PS&E	\$614	\$614
			R/W Sup	\$32	\$32
			* Con Sup	\$425	\$625
			R/W Cap	\$10	\$10
			* <u>Const Cap</u>	\$1,846	\$2,069
			Total	\$3,228	\$3,651

* Phase NOT Authorized.

**List of 2016 SHOPP Amendments
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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)	
51 08-SBd-330 37.1/39.8 3002H 0814000103 1E780	Near Smiley Park, from 6.9 miles south of Running Spring to 3.4 miles east of Fork City Creek Bridge. Construct rockfall barrier to stabilize hillside slopes. 2 Location(s)	18-19 201.150	PA&ED	\$370	\$370
			PS&E	\$400	\$400
			R/W Sup	\$20	\$20
			Con Sup	\$470	\$600
			R/W Cap	\$20	\$30
			<u>Const Cap</u>	<u>\$2,011</u>	<u>\$2,955</u>
			Total	\$3,294	\$4,375
52 10-Alp-4 Var 3142 1014000100 0S680	In Alpine County, on Routes 4, 88, and 89 at various locations. Rehabilitate culverts. 32 Drainage System(s) 36 Drainage System(s)	19-20 201.151	PA&ED	\$870	
			PS&E	\$1,176	
			R/W Sup	\$359	
			Con Sup	\$851	
			R/W Cap	\$71	
			<u>Const Cap</u>	<u>\$3,319</u>	
			Total	\$6,646	
53 10-Alp-88 0.0 3138 1014000099 0S750	In Alpine County, on Routes 4, 88 and 207; in Amador County on Routes 16 and 49; and in Tuolumne County on Route 108; at various locations. Rehabilitate culverts. 50 Drainage System(s) 39 Drainage System(s)	19-20 201.151	PA&ED	\$698	
			PS&E	\$1,043	
			R/W Sup	\$317	
			Con Sup	\$762	
			R/W Cap	\$269	
			<u>Const Cap</u>	<u>\$4,290</u>	
			Total	\$7,379	
54 10-Mer-152 Var 3139 1015000005 0S120	In Merced County, on Routes 152, 59, and 99 and in San Joaquin County on Routes 5 and 12, at various locations. Rehabilitate culverts. 20 Drainage System(s) 19 Drainage System(s)	19-20 201.151	PA&ED	\$622	
			PS&E	\$743	
			R/W Sup	\$124	
			Con Sup	\$765	
			R/W Cap	\$151	
			<u>Const Cap</u>	<u>\$1,768</u>	
			Total	\$4,173	
55 10-SJ-5 10.7 3235B 1018000078 1H342	In and near Lathrop, at Deuel Overhead No. 29 -0262R/L. Improve to standard truck capacity. (PA&ED Only) 2 Bridge(s)	17-18 201.322	PA&ED	\$498	\$498
			PS&E	\$0	\$925
			R/W Sup	\$0	\$70
			Con Sup	\$0	\$1,700
			R/W Cap	\$0	\$440
			<u>Const Cap</u>	<u>\$0</u>	<u>\$7,700</u>
			Total	\$498	\$11,333

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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)	
56 10-SJ-88 22.1 3207 1016000031 1E531	Near Clements, at Liberty Road. Improve intersection. 18 Collision(s) Reduced	19-20 201.010	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$434 \$1,068 \$154 \$948 \$266 <u>\$972</u> \$3,842	\$434 \$1,400 \$460 \$1,200 \$715 \$5,500 \$9,709
57 10-SJ-99 30.9/31.3 3145 1014000134 1C280	In Lodi, from south of Route 12 (Victor Road) to south of Turner Road. Realign northbound onramp, lower mainline ramp vertical profile for increased vertical clearance increase bridge vertical clearance , and construct auxiliary lane. 80 1,000 Vehicle Hour(s)/Yr	18-19 201.310	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$910 \$1,296 \$75 \$1,575 \$92 <u>\$7,136</u> \$11,084	\$910 \$1,417 \$75 \$2,199 \$92 \$11,110 \$15,803
58 10-SJ-205 10.0/R13.4 R4.5/R9.0 3146 1014000146 1C330	In and near Tracy and Lathrop, from Route 580 to Route 5 from Byron Road Undercrossing to Paradise Road Overcrossing. Paradise Road Overcrossing. Install ramp meters and other Intelligent Transportation System (ITS) elements. 7 Field Element(s) 14 Field Element(s)	19-20 20-21 201.315	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,057 \$1,772 \$6 \$2,333 \$10 <u>\$10,857</u> \$16,035	\$1,057 \$2,512 \$979 \$2,831 \$4,830 \$13,257 \$25,466
59 10-Sta-5 0-0 27.0/27.5 3209 3209B 1017000033 1018000068 1G720 1G722	At Northbound (NB) and Southbound (SB) Westley Safety Roadside Rest Area (SRRA) (PM 27.0/27.5); also in Merced County at NB and SB John "Chuck" Erreca SRRA (PM 0.4/0.9), and in San Joaquin County on Route 99 at Lodi Park-and-Ride lot. Transportation infrastructure improvement for zero-emission vehicle charging. 5 Location(s) 2 Location(s)	17-18 201.999	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$154 \$0 \$0 \$0 \$0 <u>\$0</u> \$154	\$154 \$189 \$6 \$201 \$3 \$1,070 \$1,623

**List of 2016 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)	
60 12-Ora-1 4.7/14.1 4.9/5.5 2246 4216000055 1218000056 0H150 0H152	In Laguna Beach and Newport Beach, from south of Vista Del Sol to Newport Coast Drive. Gold plane pavement and place rubberized hot mix asphalt concrete (RHMA). In Laguna Beach and Newport Beach, from 1,000 feet south of Vista Del Sol to Moss Street; also, from Ledroit Street to Newport Coast Drive (PM 10.5/14.1). Remove and replace existing pavement with Rubberized Hot Mix Asphalt (RHMA).	19-20 201.121	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$3,200 \$0 \$2,950 \$65 \$12,160 \$18,375	\$0 \$3,200 \$400 \$1,739 \$65 \$7,071 \$12,475
	36 Lane Mile(s) 15.6 Lane Mile(s)				
61 12-Ora-1 5.5/7.9 2246A 1218000057 0H151	In Laguna Beach, from 7th Street to Moss Street. Remove and replace pavement and with Rubberized Hot Mix Asphalt (RHMA). 9.5 Lane Mile(s)	20-21 201.121	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$779 \$0 <u>\$3,206</u> \$3,985	
62 12-Ora-1 7.9/10.5 2246B 1218000058 0H153	In Laguna Beach, from south of Ruby Street to Ledroit Street. Remove and replace pavement with Rubberized Hot Mix Asphalt (RHMA). 10.8 Lane Mile(s)	19-20 201.121	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$832 \$0 <u>\$3,473</u> \$4,305	
63 12-Ora-1 7.9/10.5 2300 1214000041 0M820	In Laguna Beach, from south of Ruby Street to Ledroit Street. Upgrade pedestrian facilities to ADA standards. 187 Curb Ramp(s)	19-20 201.378	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,225 \$1,825 \$1,450 \$1,600 \$815 <u>\$3,566</u> \$10,481	\$1,225 \$1,825 \$2,715 \$1,600 \$2,100 \$8,328 \$17,793
64 12-Ora-1 24.9 2527 1214000116 0N850	In Huntington Beach, at 6th Street; also in Seal Beach at Seal Beach Boulevard (PM 32.7). Modify traffic signals and install additional lighting. 47 Collision(s) Reduced	19-20 18-19 201.010	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$150 \$412 \$224 \$386 \$67 <u>\$835</u> \$2,074	\$150 \$412 \$750 \$490 \$172 \$960 \$2,934

**List of 2016 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)	
65 12-Ora-1 29.9/33.7 2499A 1215000149 0P590	In Huntington Beach, from Warner Avenue to Los Angeles County line. Upgrade ADA curb ramps, cold plane pavement, and place Rubberized Hot Mix Asphalt concrete (RHMA). 14.9 Lane Mile(s)	19-20 20-21 201.121	PA&ED	\$1,720	
			PS&E	\$2,932	
			R/W Sup	\$1,245	
			Con Sup	\$2,358	
			R/W Cap	\$111	
			<u>Const Cap</u>	<u>\$8,770</u>	
	Total	\$17,136			
66 12-Ora-22 R6.9 2930 1216000070 0P980	In Garden Grove, at westbound on ramp from Euclid Street. Overlay with open graded friction course. 17 Collision(s) Reduced	18-19 201.010	PA&ED	\$0	\$0
			PS&E	\$381	\$381
			R/W Sup	\$0	\$0
			Con Sup	\$254	\$327
			R/W Cap	\$0	\$0
			<u>Const Cap</u>	<u>\$430</u>	<u>\$559</u>
	Total	\$1,062	\$1,267		
67 12-Ora-39 19.4 3279 1216000122 0Q290	In the city of La Habra, at Fashion Square Lane. Modify traffic signal and add lighting. 25 Collision(s) Reduced	18-19 201.010	PA&ED	\$185	\$185
			PS&E	\$320	\$575
			R/W Sup	\$0	\$0
			Con Sup	\$260	\$400
			R/W Cap	\$10	\$10
			<u>Const Cap</u>	<u>\$709</u>	<u>\$820</u>
	Total	\$1,484	\$1,990		
68 12-Ora-73 24.0 4096R 1214000123 0N860	In Newport Beach, on the Route 73 southbound off-ramp to MacArthur Boulevard. Widen ramp, install traffic signal and guardrail. 82 Collision(s) Reduced	19-20 201.010	PA&ED	\$500	\$500
			PS&E	\$1,500	\$1,500
			R/W Sup	\$30	\$130
			Con Sup	\$1,052	\$1,531
			R/W Cap	\$19	\$388
			<u>Const Cap</u>	<u>\$4,202</u>	<u>\$7,347</u>
	Total	\$7,303	\$11,396		
69 12-Ora-142 3.5/4.7 5380A 1214000095 0N730	In Brea, from east of Chino Hills State Park entrance to east of Olinda Drive. Storm water mitigation. 1.74 Acre(s) Treated/Pollutant	19-20 201.335	PA&ED	\$456	\$456
			PS&E	\$800	\$1,250
			R/W Sup	\$380	\$380
			Con Sup	\$785	\$920
			R/W Cap	\$200	\$200
			<u>Const Cap</u>	<u>\$3,100</u>	<u>\$3,400</u>
	Total	\$5,724	\$6,606		

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 (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)	
70	In Irvine and Costa Mesa, from Jamboree Road to Route 73. Replace existing temporary railing with permanent concrete barrier.	18-19	PA&ED	\$200	\$200
12-Ora-405 6.9/10.3 4995A		201.010	PS&E	\$1,300	\$1,300
1215000053 0P220	8 Collision(s) Reduced		R/W Sup	\$0	\$0
			Con Sup	\$1,000	\$1,200
			R/W Cap	\$0	\$0
			<u>Const Cap</u>	<u>\$2,710</u>	\$3,170
			Total	\$5,210	\$5,870