

Memorandum

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: October 19-20, 2016

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-007**

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-007; in accordance with Senate Bill 486 which requires the Commission to approve any changes or new projects amended into the SHOPP.

ISSUE:

Since the August 2016 report to the Commission, the Department recommends 38 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, Collision Reduction, Bridge Preservation, Roadside Preservation 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	20	\$29,475	\$11,461		\$44,824
Collision Reduction	13	\$812	\$8,168	\$10,491	\$41,701
Bridge Preservation	3			\$11,885	
Roadside Preservation	2				\$14,740
Total Amendments	38	\$30,287	\$19,629	\$22,376	\$101,265

The Department also recommends the revisions to 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. Dist. Perf. Meas.
Major Damage Restoration						
4651	1-Men-1 75.5/76.5 0G450 01 1600 0189	Near Westport, from 0.6 mile to 1.4 miles north of Blue Slide Gulch. Repair slide damage and settlement of roadway.	\$25 (R/W) \$4,250 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$0 \$0 \$25 \$1,250 \$1,275	201.130 Assembly: 1 Senate: 2 Congress: 1 1 Location
3666	2-Sha-5 R54.6 2H670 02 1700 0005	Near Castella, at 1.3 miles north of Gibson Road. Stabilize slope, remove debris and reconstruct bench.	\$10 (R/W) \$1,300 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$0 \$0 \$0 \$400 \$400	201.130 Assembly: 2 Senate: 4 Congress: 2 1 Location
3665	2-Tri-299 23.3 2H740 02 1600 0169	Near Del Loma, at Big French Creek Road. Construct a catchment area at the toe of slope.	\$10 (R/W) \$4,500 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$0 \$0 \$50 \$1,400 \$1,450	201.130 Assembly: 1 Senate: 4 Congress: 2 1 Location
5128	3-Pla-80 29.6 1H890 03 1700 0017	Near Weimar, at 0.3 mile north of Weimar Cross Road Overcrossing. Replace corroded large diameter culvert.	\$20 (R/W) \$1,660 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$8 \$0 \$8 \$200 \$216	201.130 Assembly: 3 Senate: 1 Congress: 4 1 Location
5864	3-Sac-5 13.0/13.2 1H750 03 1600 0267	Near Elk Grove, from Beach Lake to 1.6 miles south of Cosumnes River Boulevard Overcrossing. Repair failed concrete base and concrete pavement slabs.	\$710 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$8 \$0 \$0 \$75 \$83	201.130 Assembly: 9, 10 Senate: 6 Congress: 3, 5 1 Location
1451E	4-Ala-123 0.2 2K460 04 1600 0421	In Emeryville, at MacArthur Boulevard ramps to Route 580 and San Pablo Avenue Overcrossing (Route 123). Construct subsurface and horizontal drains, and reconstruct pavement.	\$5,850 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$0 \$0 \$0 \$1,600 \$1,600	201.130 Assembly: 14, 16 Senate: 9 Congress: 9 1 Location
1498J	4-Mrn-101 6.0/6.9 1K630 04 1600 0277	In and near Corte Madera, from 1.4 miles to 0.5 mile south of Tamalpais Drive. Reconstruct culvert riser and repair slope.	\$1,500 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$0 \$0 \$0 \$550 \$550	201.131 Assembly: 6 Senate: 3 Congress: 6 1 Location
2680	5-SCr-1 R4.0/R4.3 1H700 05 1600 0143	Near Watsonville, at Buena Vista Drive Undercrossing. Repair sinkholes, drainage system and install erosion control measures.	\$10 (R/W) \$750 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$15 \$75 \$10 \$250 \$350	201.130 Assembly: 27 Senate: 15 Congress: 17 1 Location

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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 (Cont.)						
6797	6-Kin-Var Var 0U300 06 1600 0027	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. PAED: 11/01/2017 R/W: 09/05/2019 RTL: 10/01/2019 BC: 03/23/2020	\$60 (R/W) \$15,000 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total \$640 \$1,880 \$1,000 \$1,850 \$5,370	201.131 Assembly:26, 32 Senate: 16,18 Congress:21 296 Location
3732A	7-LA-1 51.4/51.8 33340 07 1600 0306	In Malibu, from Sea Vista Drive to Via Escondido Drive. Construct tie back anchor system and micro/sheet piles on southbound side of highway and shoring wall with tie backs on northbound side of highway to prevent further landslide distress and restore the integrity of the roadway. PAED: 11/10/2016 R/W: 07/03/2017 RTL: 07/10/2017 BC: 03/23/2018	\$ 1,029 (R/W) \$ 10,432 (C)	17/18	PA & ED PS & E RW Sup Con Sup Total \$50 \$500 \$400 \$3,000 \$3,950	201.131 Assembly: 50 Senate: 33 Congress:27 1 Location
5162	7-LA-14 32.5/36.5 1XA20 07 1700 0019	In and near Santa Clarita, from Lost Canyon Road Undercrossing to Spring Canyon Road Undercrossing. Remove fire debris and sediment, reconstruct barrier railing and install erosion control measures.	\$60 (R/W) \$1,000 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total \$0 \$0 \$20 \$350 \$370	201.130 Assembly: 38 Senate: 17 Congress: 25 1 Location
4930	7-Ven-1 4.0/4.2 31820 07 1500 0286	In Ventura County, south of Point Mugu State Park (PM 4.0) and Sycamore Canyon Road (PM 4.2). Construct secant walls at two locations as a permanent slope restoration solution to stabilize the slope and prevent continued erosion. Two previous Director Orders: 07-4X370 and 07-4X760 were executed to remove slide material and repair embankment, roadway and drainage systems. PAED: 08/07/2017 R/W: 07/14/2019 RTL: 08/15/2019 BC: 04/15/2020	\$766 (R/W) \$27,179 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total \$1,200 \$1,900 \$100 \$2,600 \$5,800	201.131 Assembly: 44 Senate: 26 Congress:27 2 Locations

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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. Dist. Perf. Meas.	
Major Damage Restoration (Cont.)							
3005V	8-Riv-15 R2.2/R2.9 1H310 08 1700 0012	In Temecula, from 1.1 miles north of Truck Inspection Station to Temecula River Bridge. Remove fire damaged trees, reconstruct barrier railing and install erosion control measures.	\$500 (C)	16/17	PA & ED PS & E RW Sup Con Sup <u>Total</u>	\$0 \$60 \$0 \$150 \$210	201.130 Assembly: 66 Senate: 36 Congress: 49 1 Location
3006A	8-SBd-15 14.8/32.5 1H370 08 1700 0027	Near San Bernardino, from Glen Helen Parkway to Route 15/395 junction. Place temporary concrete barrier in areas of burned/ damaged guard rail to allow re-opening of route.	\$1,200 (C)	16/17	PA & ED PS & E RW Sup Con Sup <u>Total</u>	\$0 \$60 \$0 \$150 \$210	201.130 Assembly: 63 Senate: 31, 32 Congress: 26, 43 1 Location
3005T	8-SBd-15 37.4/41.4 1H270 08 1700 0001	Near Victorville, from 0.2 mile south of Bear Valley Road to Roy Rodgers Drive. Remove and dispose of fire damaged trees and reconstruct barrier rail.	\$1,000 (C)	16/17	PA & ED PS & E RW Sup Con Sup <u>Total</u>	\$20 \$75 \$0 \$100 \$195	201.130 Assembly: 36 Senate: 17 Congress: 25 1 Location
3005L	8-SBd-15 R110.0 1G740 08 1600 0060	Near Baker, at 1.6 miles south of Afton Road Overcrossing. Reconstruct eroded earthen dike that protects the highway from inundation and flooding. The failed section of berm is located 750 yards from the southbound 1-15 outside shoulder. PAED: 12/17/2018 R/W: 10/15/2019 RTL: 11/15/2019 BC: 07/01/2020	\$128 (R/W) \$1,691 (C)	19/20	PA & ED PS & E RW Sup Con Sup <u>Total</u>	\$1,000 \$540 \$102 \$540 \$2,182	201.131 Assembly: 33 Senate: 16 Congress: 8 1 Location
3005U	8-SBd-40 0.4 1H300 08 1700 0010	In Barstow, at Blair Ditch. Repair storm damaged concrete lined ditch.	\$5 (R/W) \$1,495 (C)	16/17	PA & ED PS & E RW Sup Con Sup <u>Total</u>	\$0 \$60 \$10 \$250 \$320	201.130 Assembly: 65 Senate: 31 Congress: 41 1 Location
3005Y	8-SBd-173 L3.4/L7.8 1H360 08 1700 0026	Near Hesperia, from Twin F Ranch Road to Old Hesperia Road. Remove fire debris and sediment, reconstruct barrier railing, repair drainage, and install erosion control measures.	\$10 (R/W) \$490 (C)	16/17	PA & ED PS & E RW Sup Con Sup <u>Total</u>	\$0 \$60 \$0 \$200 \$260	201.130 Assembly: 59 Senate: 17 Congress: 41 1 Location
2630	9-Mno-395 52.5/54.5 36780 09 1700 0002	Near Lee Vining, from 0.6 mile north of Visitor Center Drive to 1.2 miles south of Cemetery Road. Restore fire damaged roadside safety elements, construct rockfall containment and slope stabilization.	\$2,220 (C)	16/17	PA & ED PS & E RW Sup Con Sup <u>Total</u>	\$35 \$50 \$5 \$300 \$390	201.130 Assembly: 25 Senate: 6 Congress: 25 1 Location

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Major Damage Restoration (Cont.)						
3203	10-SJ-26 1.1 1G640 10 1700 0012	In Stockton, at Route 26/99 Separation (Bridge No. 29-0142). Repair steel bridge girders damaged by high-load hit.	\$20 (R/W) \$880 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total	\$20 \$30 \$0 \$300 \$350 201.130 Assembly: 26 Senate: 5, 14 Congress: 18 1 Location
Collision Reduction						
4613	1-Men-20 16.9/17.2 0E860 01 1500 0038	Near Fort Bragg and Dunlap, from 0.34 mile west of Road 200A to 0.13 mile west of Road 200A. Widen shoulders, install center and edge-line rumble strips, and install guardrail. PAED: 12/15/2017 R/W: 01/15/2019 RTL: 02/01/2019 BC: 05/15/2019	\$88 (R/W) \$1,339 (C)	18/19	PA & ED PS & E RW Sup Con Sup Total	\$782 \$1,117 \$129 \$1,063 \$3,091 201.010 Assembly: 1 Senate: 2 Congress: 1 14 Collisions reduced
4785	3-Pla-49 2.2/2.4 1H240 03 1600 0077	In Auburn, from 0.3 mile south of Lincoln Way/Borland Avenue to Lincoln Way/Borland Avenue. Realign curves. PAED: 01/15/2018 R/W: 11/01/2019 RTL: 11/15/2019 BC: 05/15/2019	\$764 (R/W) \$1,697 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total	\$732 \$1,003 \$306 \$819 \$2,860 201.010 Assembly: 5 Senate: 1 Congress: 4 50 Collisions reduced
1488S	4-Ala-80 4.5/R7.6 3J700 04 1500 0183	In Berkeley and Albany, from Route 13 to east of El Cerrito Separation. Install concrete median barriers and lighting. PAED: 11/01/2018 R/W: 04/01/2020 RTL: 06/01/2020 BC: 11/02/2020	\$25 (R/W) \$14,587 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total	\$2,750 \$2,750 \$100 \$2,625 \$8,225 201.010 Assembly: 15 Senate: 9 Congress: 13 185 Collisions reduced
1487G	4-Ala-84 R0.7/R3.1 4J750 04 1600 0005	In Fremont, from north end of Dumbarton Bridge to south of the Toll Plaza. Install outer separation barrier between route and frontage road. PAED: 11/01/2018 R/W: 05/01/2020 RTL: 06/01/2020 BC: 10/01/2020	\$3,280 (R/W) \$15,560 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total	\$2,000 \$2,500 \$240 \$2,500 \$7,240 201.010 Assembly: 20,25 Senate: 10 Congress: 15,17 23 Collisions reduced
0501A	4-SCI-280 18.2/18.6 2G350 04 0002 0738	In and near Los Altos Hills, at ramps to Page Mill Road. Improve signing and striping at ramp intersections with local road. PAED: 02/28/2017 R/W: 05/01/2017 RTL: 05/08/2017 BC: 09/01/2017	\$10 (R/W) \$802 (C)	16/17	PA & ED PS & E RW Sup Con Sup Total	\$150 \$130 \$24 \$150 \$454 201.010 Assembly: 24 Senate: 13 Congress: 18 18 Collisions reduced

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Collision Reduction (Cont.)						
6791	6-Ker-184 L0.9/L1.1 0V280 06 1600 0124	Near Lamont, from 0.1 mile south to 0.1 mile north of Sunset Boulevard. Construct roundabout at intersection of Route 184/Sunset Boulevard. PAED: 07/01/2018 R/W: 03/01/2020 RTL: 03/15/2020 BC: 08/01/2020	\$950 (R/W) \$3,600 (C)	19/20	PA & ED PS & E RW Sup Con Sup Total \$1,100 \$1,300 \$530 \$970 \$3,900	201.010 Assembly: 32 Senate: 14 Congress: 21 16 Collisions reduced
3005S	8-SBd-10 5.0/10.0 1F550 08 1400 0248	In Ontario, from 0.2 mile west of 4 th Street Undercrossing to 0.2 miles east of Route 15 Junction. Install double luminaire lighting, replace sign panels and install high mast lighting. This will be combined with EA 08-0C250 (SANBAG) as a FCO. PAED: 05/10/2017 R/W: 06/18/2018 RTL: 07/12/2018 BC: 01/10/2019	\$8,213 (C)	18/19	PA & ED PS & E RW Sup Con Sup Total \$0 \$0 \$0 \$0 \$0	201.010 Assembly: 52 Senate: 20 Congress: 35 336 Collisions reduced
3005K	8-SBd-62 34.2/34.5 1G450 08 1500 0238	In Twentynine Palms, from Utah Trail intersection to 0.3 mile east of Utah Trail. Install traffic signals meeting current ADA standards, crosswalks and flashing beacon system. PAED: 04/05/2017 R/W: 06/05/2017 RTL: 08/15/2018 BC: 03/15/2019	\$25 (R/W) \$826 (C)	18/19	PA & ED PS & E RW Sup Con Sup Total \$397 \$486 \$42 \$590 \$1,515	201.010 Assembly: 42 Senate: 16 Congress: 8 13 Collisions reduced
3196	10-Mer-165 Var 1E580 10 1600 0104	In Merced, Mariposa and Stanislaus counties on Routes 165 and 140, at various locations. Install centerline, edge-line, and shoulder rumble strips. PAED: 06/19/2017 R/W: 03/23/2018 RTL: 05/24/2018 BC: 12/14/2018	\$3 (R/W) \$3,326 (C)	17/18	PA & ED PS & E RW Sup Con Sup Total \$222 \$660 \$28 \$729 \$1,639	201.010 Assembly: 17 Senate: 12 Congress: 18 192 Collisions reduced
3204	10-SJ-4 Var 1C480 10 1600 0085	In San Joaquin and Stanislaus counties on Routes 4 and 88 at various locations. Install centerline, shoulder, and edge-line rumble strips. PAED: 06/30/2017 R/W: 02/19/2018 RTL: 03/20/2018 BC: 08/30/2018	\$5 (R/W) \$1,786 (C)	17/18	PA & ED PS & E RW Sup Con Sup Total \$287 \$295 \$4 \$355 \$941	201.010 Assembly: 12,13 Senate: 5 Congress: 9 92 Collisions reduced

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Collision Reduction (Cont.)							
3207	10-SJ-88 22.1 1E531 10 1600 0031	Near Clements, at Liberty Road. Improve intersection. PAED: 07/31/2018 R/W: 11/27/2019 RTL: 01/07/2020 BC: 06/26/2020	\$266 (R/W) \$972 (C)	19/20	PA & ED PS & E RW Sup Con Sup <hr/> Total	\$434 \$1,068 \$154 \$948 <hr/> \$2,604	201.010 Assembly: 10 Senate: 5 Congress: 11 18 Collisions reduced
3195	10-Tuo-108 R0.0/50.0 1C440 10 1600 0103	In and near Sonora, from Route 49 to east of Clarks Fork Road at various locations. Install centerline, shoulder, and edge-line rumble strips. PAED: 06/30/2017 R/W: 02/19/2018 RTL: 03/20/2018 BC: 08/30/2018	\$8 (R/W) \$1,285 (C)	17/18	PA & ED PS & E RW Sup Con Sup <hr/> Total	\$183 \$427 \$5 \$364 <hr/> \$979	201.010 Assembly: 25 Senate: 14 Congress: 19 83 Collisions reduced
3202	10-Tuo-120 Var 1C460 10 1600 0075	In Tuolumne, Stanislaus, and Mariposa counties, on Routes 120 and 108 at various locations. Install centerline, shoulder, and edge-line rumble strips. PAED: 05/04/2017 R/W: 10/20/2017 RTL: 01/19/2018 BC: 06/28/2018	\$5 (R/W) \$1,750 (C)	17/18	PA & ED PS & E RW Sup Con Sup <hr/> Total	\$195 \$333 \$4 \$311 <hr/> \$843	201.010 Assembly: 25 Senate: 12 Congress: 4 56 Collisions reduced
Bridge Preservation							
6771	6-Fre-41 R22.0/R22.6 0U160 06 1500 0310	In Fresno, at the South Fresno Viaduct No. 42-0226L/R. Replace failed joint seals and rehabilitate worn bridge decks with polyester concrete overlay PAED: 09/01/2017 R/W: 07/01/2018 RTL: 09/03/2018 BC: 02/15/2019	\$291 (R/W) \$7,050 (C)	18/19	PA & ED PS & E RW Sup Con Sup <hr/> Total	\$237 \$750 \$20 \$1,574 <hr/> \$2,581	201.119 Assembly: 31 Senate: 14 Congress: 16 2 Bridges
3198	10-SJ-4 R17.4 1C860 10 1600 0023	In Stockton, at Crosstown Freeway Viaduct (No. 29-0269). Reconstruct hinge, and replace joint seal and elastomeric bearing pad. PAED: 02/01/2017 R/W: 02/01/2019 RTL: 02/15/2019 BC: 07/15/2019	\$62 (R/W) \$3,308 (C)	18/19	PA & ED PS & E RW Sup Con Sup <hr/> Total	\$648 \$660 \$37 \$580 <hr/> \$1,925	201.119 Assembly: 26 Senate: 5,14 Congress: 11,18 1 Bridge(s)

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.
Bridge Preservation (Cont.)						
3206	10-SJ-99 21.7 1C880 10 1600 0022	Near Stockton, at Wilson Way Overcrossing (No. 29-0118C). Remove existing damaged girder and build new overhang and barrier, resulting in reduced bridge width and increased vertical clearance. PAED: 07/13/2017 R/W: 06/05/2018 RTL: 07/05/2018 BC: 11/22/2018	\$4 (R/W) \$1,170 (C)	18/19	PA & ED PS & E RW Sup Con Sup <hr/> Total \$172 \$562 \$7 \$420 <hr/> \$1,161	201.119 Assembly: 26 Senate: 5,14 Congress: 11 1 Bridge(s)
Roadside Preservation						
1194	11-SD-8 R23.0/R61.3 42210 11 1500 0178	In San Diego County, from 0.7 mile west of Flinn Springs Road Undercrossing to 0.2 mile east of Crestwood Road Undercrossing. Rehabilitate culverts and energy dissipater's. PAED: 01/08/2018 R/W: 05/23/2019 RTL: 07/24/2019 BC: 01/23/2020	\$75 (R/W) \$11,773 (C)	19/20	PA & ED PS & E RW Sup Con Sup <hr/> Total \$1,077 \$2,346 \$519 \$2,836 <hr/> \$6,778	201.151 Assembly: 71 Senate: 38 Congress:53 27 Drainage systems
4792	12-Ora-133 3.1/R4.3 0Q360 12 1600 0133	In Orange County, from 0.3 mile south of El Toro Road to 0.2 mile north of Route 73/133 Interchange. Construct detention basin, reconstruct channel, extend reinforced concrete box and re-grade to prevent adverse flow. PAED: 04/01/2019 R/W: 01/01/2020 RTL: 02/01/2020 BC: 07/01/2021	\$1,467 (R/W) \$1,425 (C)	19/20	PA & ED PS & E RW Sup Con Sup <hr/> Total \$1,125 \$1,712 \$766 \$941 <hr/> \$4,544	201.151 Assembly: 74 Senate: 37 Congress:48 2 Drainage systems

2016 SHOPP Amendment 16H-007
 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		Quantity	Perf Measure	
02	Modoc	299	VAR	Near Adin, at Butte Creek Bridge No. 03-001 and at Ash Creek Bridge No. 03-002. Replace bridges.	4F210	3484	0212000072	201.110	2017/18	47 131	5,600	PA&E PS&E RW Const	1,820 680 270 1,150	1,820 940 485 1,860	Bridge(s)	2.0
Comments: During the environmental phase, additional work was identified due to increased project footprint and a new community volunteer fire station in the project vicinity. Additional design support is needed to consider hazardous materials, hydraulics evaluations, community impact coordination and park impacts. Construction Support has increased to account for the use of consultants for inspection over two seasons instead of one. R/W support has increased to cover the cost for two additional parcels and their environmental mitigation. These changes add \$1,269,000 to the cost of the project.																
03	Sacramento	99	15.7/23.8	In Sacramento and Placer Counties, on Routes 51, 65 and 99 at various locations. Install ramp meters. In Sacramento County, on Routes 51 and 99 at various locations. Install ramp meters.	0F350 0F351	6913	0313000034 0316000080	201.315	2016/17	30 10	19,100 16,300	PA&E PS&E RW Const	1,000 2,100 1,000 5,300	770 1,700 500 4,300	Miles of Cable Field Elements	15.0 14.0
Comments: Split off single isolated location in Placer County into a child project EA 0F352, and convert parent EA 0F350 into child project EA 0F351. Remaining 14 locations for EA 0F351 are well grouped within a 12.5 mile segment on Routes 51 and 99 in Sacramento County. This change adds no cost to the project.																
03	Placer	65	R5.9	In Placer County, on Route 65. Install ramp meter.	0F352	6913A	0316000081	201.315	2016/17	20	2,800	PA&E PS&E RW Const	230 400 500 1,000		Field Elements	1.0
Comments: Parent project EA 0F350 to be split into child projects EA 0F351 and EA 0F352. EA 0F352 consists of one location on Route 65 in Placer County that requires additional environmental consultation. By splitting this location into a separate project, it can be environmentally cleared by overlapping local oversight project EA 4E320; thus minimizing expenses for redundant environmental effort. This change adds no cost to either project.																
04	Alameda	880	10.7	In Fremont, at Crandall Creek Bridge No. 33-0273. Seismic retrofit. (G13 Contingency Project)	4G880	0086Q	0413000058	201.113	2017/18	20	0	PA&E PS&E RW Const	846 540 90 0	846 1,874 90 0	Bridge(s)	1.0
Comments: The planning phase underestimated resource needs which have now been refined utilizing a bottoms-up approach. This change adds \$1,334,000 to the cost of the project.																
04	Sonoma	1	15.1/15.8	Near Camet, 0.1 mile north of Del Sol Road. Realign roadway.	0A020	0748E	040000129	201.131	2017/18	3,000 5,000	21,800 24,300	PA&E PS&E RW Const	8,000 1,800 500 3,270	8,000 5,000 500 4,000	Location(s)	1.0
Comments: Additional design support, construction support and construction capital is needed for the now identified preferred alternative and evolved scope associated with a new longer roadway bridge and pedestrian/bicycle bridge required by the California Coastal Commission permit process. Additional support costs are also required for extensive coordination with community and resource agencies to fulfil environmental commitment. Increase in R/W capital cost is needed for mitigations identified during environmental phase. These changes add \$8,430,000 to the cost of the project.																

2016 SHOPP Amendment 16H-007
 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			Quantity	Perf Measure
05	Santa Cruz	1	10.2/17.5	Near the city of Santa Cruz, from North Aptos Underpass to Route 9. Rehabilitate pavement.	1C850	2432	0512000240	201.121	2017/18	9 19	44,974 14,952	PA&ED PS&E RW Const	606 1,082 10 1,082	606 1,082 10 1,082	Lane Miles	32.0
Comments: Preliminary design has identified additional right of way requirements for upgrading two curb ramps to current standards. This increase is balanced by further refinement of the construction capital estimate. There is no net increase in the project cost.																
05	San Luis Obispo	1	34.5/44.4	In and near Cayucos, from Old Creek Bridge to north of Harmony Valley Road. Pavement rehabilitation. Rehabilitate pavement and construct shoulders on ramps.	1G140	2587	0514000111	201.121	2017/18	0	44,789 14,469	PA&ED PS&E RW Const	0 1,194 30 4,837	0 1,194 30 2,157	Lane Miles	27.4 25.6
Comments: There are six ramps where bicyclists currently ride in the traveled lane with motorist's. The revised scope would remove the E-curb and provide standard 8-foot shoulders for the bicyclists and relocate drainage inlets. Construction capital has been reduced due to refinement of the original estimate and support has increased due to an increase in project working days. The performance value is being corrected to match the PID. There is no net change in the cost of the project.																
07	Ventura	33	0.0/6.3	In and near the city of Ventura, from Route 101 to south of Park View Drive. Rehabilitate pavement.	30340	4697	0714000006	201.121	2017/18	20	44,809 12,309	PA&ED PS&E RW Const	80 1,165 5 1,785	80 1,165 5 1,785	Lane Miles	24.6
Comments: A detailed estimate was developed that resulted in lower quantities from the original estimate when the project was programmed. This resulted in a reduction in the construction cost estimate. This change reduces the project cost by \$2,500,000.																
07	Los Angeles	187	3.5/8.9	In the cities of Los Angeles and Culver City, on Venice Boulevard from Lincoln Boulevard (Route 1) to Cadillac Avenue. Rehabilitate pavement.	30300	4691	0713000493	204.424 201.160	2017/18	10	10,500	PA&ED PS&E RW Const	100 3,631 30 1,200	100 3,631 30 1,200	Lane Miles	32.4
Comments: Change program code from 201.121 Pavement Rehabilitation to 201.160 Relinquishment. The Department intends to relinquish to City of Los Angeles this portion of State Route 187 between Lincoln Boulevard and Route 10 per executed Relinquishment Agreement (07-5097). A related SHOPP FCO allocation is being requested under 2.5d October 2016.																
07	Los Angeles	213	0.0/8.0	In the cities of Rancho Palos Verdes, Lomita and Los Angeles, from W 25th Street to W Carson Street at various locations. Upgrade curb ramps, sidewalks and driveways to meet ADA standards. (G13 Contingency Project)	30660	4743	0714000178	201.361	2018/19	176	0	PA&ED PS&E RW Const	250 500 50 0	1,087 500 50 0	Curb Ramps	188.0
Comments: Underground oil lines and extensive utilities that serve the port require additional surveys and photogrammetry. In addition, preliminary design has determined the need for retaining walls. These changes add \$837,000 to the cost of the project.																

2016 SHOPP Amendment 16H-007
 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		Quantity	Perf Measure	
07	Los Angeles	66	0/3.2	In La Verne and Pomona, from Baseline Road to Towne Avenue. Construct and upgrade curb ramps and sidewalks to comply with ADA standards.	30650	4744	0714000177	201.361	2018/19	0	3,800	PA&ED PS&E RW Const	360 800 30 650	753 800 30 650	Curb Ramps	67.0
Comments: In the PA&ED phase, it was determined that additional survey data and design is required to minimize R/W acquisition. These changes add \$403,000 to the cost of the project.																
07	Ventura	150	16.6/34.4	In and near cities of Ojai and Santa Paula, from Route 33 to Route 126. Construct and upgrade curb ramps and sidewalks to comply with ADA standards.	30670	4746	0714000179	201.361	2019/20	556	4,549	PA&ED PS&E RW Const	500 1,000 100 1,000	908 1,000 100 1,000	Curb Ramps	134.0
Comments: Due to the discovery of utility conflicts, additional PA&ED support costs are required for surveys, detailed design work, R/W easements and evaluation of acquisitions. Additional support is also necessary to plan for overlapping projects initiated by the cities of Ojai and Santa Paula. These changes add \$408,000 to the cost of the project.																
08	Riverside San Bernardino	94- 210	7.4/15.6 0.0/10.3	In the cities of Corona and Riverside, from Route 15 to Adams Street; also in Upland and Rancho Cucamonga on Route 210 from Los Angeles County line to east of Etiwanda Avenue. In the cities of Upland and Rancho Cucamonga, from Los Angeles County line to east of Etiwanda Avenue. Convert existing limited access HOV lanes to continuous access HOV lanes to allow safer ingress and egress movements for HOV.	4G190 1G191	3003Q	0815000166 0818000193	201.310	2018/19 2016/17	10	1,112 649	PA&ED PS&E RW Const	67 192 10 324	34 96 10 162	1000 Vehicle Hours/Yr	341.0 215.0
Comments: Project EA 1G190, consisting of two segments is being split into child projects EA 1G191 PPNO 3003Q and EA 1G192 PPNO 2005X. The Route 210 segment will be EA 1G191 and is scheduled for early delivery in FY 16/17. These changes add \$20,000 to the combined amount of both projects.																
08	Riverside	91	7.4/15.6	In the cities from Corona and Riverside, from Route 15/91 separator to Adams street overcrossing. Convert existing limited access HOV lanes to continuous access HOV lanes to allow safer ingress and egress movements for HOV.	1G192	2005X	0818000194	201.310	2018/19	10	463	PA&ED PS&E RW Const	33 96 10 162		1000 Vehicle Hours/Yr	126.0
Comments: Project EA 1G190, consisting of two segments is being split into child projects EA 1G191 and EA 1G192. The Route 91 segment will be covered under EA 1G192 and is scheduled for original delivery schedule in FY 18/19.																
11	San Diego	94	29.6/29.8	Near Dulzura, from north of Marron Valley Road to south of Dutchman Canyon Road. Roadway realignment, curve improvement, and shoulder widening.	41660	1163	1113000090	201.010	2017/18	496 572	3,775	PA&ED PS&E RW Const	0 2,123 272 1,056	0 2,123 350 1,056	Collisions Reduced	44.0
Comments: During preliminary design, the excavation boundary increased. This will result in additional easement and acquisition areas. Furthermore, to allow for future maintenance for proposed drainage outlets, additional utility relocations and access easements are required. These changes add \$154,000 to the cost of the project.																
12	Orange	55	R8.0/R9.2	In the cities of Santa Ana and Tustin, from Dyer Road on ramp to Edinger Avenue off ramp. Construct northbound auxiliary lane.	0G950	3483	1215000045	201.310	2018/19	24,500	13,100	PA&ED PS&E RW Const	4,400 3,500 4,500 2,800	200 3,500 2,700 2,800	1000 Vehicle Hours/Yr	710.0
Comments: The project is proposed to be combined with a mobility OCTA Measure M improvement project 12-0J340 on Route 55 from Route 405 to Route 5. The final environmental document for 12-0J340 will incorporate the north bound auxiliary lane from 12-0G950. The environmental document will clear the auxiliary lane as an independent project in the event 12-0J340 does not proceed forward. As a result, of creating one single environmental document there is a reduction in resources to complete PA&ED. However, there is an increase in right of way support to address condemnation activities that were not accounted for while programming the project. These changes result in a net zero cost change in the project.																