

Memorandum

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: May 18-19, 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 14H-496**

RECOMMENDATION:

The California Department of Transportation (Department) recommends the California Transportation Commission (Commission) approve the requested State Highway Operation and Protection Program (SHOPP) Amendment 14H-496; in accordance with Senate Bill 486 which requires the Commission to approve any changes or new projects amended into the SHOPP.

ISSUE:

Since the March 2016 report to the Commission, the Department recommends 28 new capital projects to be amended into the 2014 SHOPP, as summarized in Attachment 1. The amendments noted below would be funded from the Major Damage Restoration, Bridge Preservation and 2014 SHOPP programming capacity.

2014 SHOPP Summary of New Projects by Category	No.	FY 2014/15 (\$1,000)	FY 2015/16 (\$1,000)	FY 2016/17 (\$1,000)	FY 2017/18 (\$1,000)
Major Damage Restoration	27		\$53,390		
Bridge Preservation	1		\$4,874		
Total Amendments	28		\$58,264		

The Department also recommends that the capital projects, as summarized in Attachment 2, be amended into the 2014 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 2014 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						
1120	1-DN-101 12.5/15.5 0G100 01 1600 0125	Near Klamath, from Wilson Creek Road to 1.7 miles north of Rudisill Road. Reconstruct retaining wall, reconstruct roadway, repair sink holes, repair barrier and construct slide monitoring/ warning system.	\$25 (R/W) \$4,000 (C)	15/16	PA & ED PS & E RW Sup Con Sup <u>Total</u> \$0 \$0 \$25 \$1,500 \$1,525	201.130 Assembly: 1 Senate: 4 Congress: 1 1 Location
1123	1-DN-197 6.2 0G270 01 1600 0153	Near Crescent City, at 6.2 miles north of Route 199. Replace failed culvert with bridge and accommodate fish passage.	\$50 (R/W) \$5,250 (C)	15/16	PA & ED PS & E RW Sup Con Sup <u>Total</u> \$0 \$0 \$50 \$1,500 \$1,550	201.131 Assembly: 1 Senate: 4 Congress: 1 1 Location
2448	1-Hum-96 7.8/8.0 0G080 01 1600 0122	Near Hoopa, from 0.3 mile to 0.1 mile west of Tish Tang Campground. Remove slide material, repair/extend rockfall fencing, repair drainage and slope.	\$10 (R/W) \$1,150 (C)	15/16	PA & ED PS & E RW Sup Con Sup <u>Total</u> \$0 \$0 \$15 \$325 \$340	201.130 Assembly: 1 Senate: 2 Congress: 1 1 Location
2450	1-Hum-299 R24.0 0G230 01 1600 0140	Near Willow Creek, at 0.6 mile west of Chezem Road. Construct rock buttress, place drainage and reconstruct roadway.	\$15 (R/W) \$1,250 (C)	15/16	PA & ED PS & E RW Sup Con Sup <u>Total</u> \$0 \$0 \$10 \$250 \$260	201.130 Assembly: 1 Senate: 2 Congress: 1 1 Location
2451	1-Hum-299 R26.3 0G240 01 1600 0141	Near Willow Creek, at 1.7 miles east of Chezem Road. Repair drainage system, reconstruct slope and place erosion control measures.	\$10 (R/W) \$750 (C)	15/16	PA & ED PS & E RW Sup Con Sup <u>Total</u> \$0 \$0 \$10 \$225 \$235	201.130 Assembly: 1 Senate: 2 Congress: 1 1 Location
4642	1-Men-1 31.4 0G180 01 1600 0133	Near Elk, at Elk Creek Bridge No. 10-0120. Repair bridge scour by patching concrete holes, placing rock slope protection (RSP) and improve channel flow to reduce scour.	\$25 (R/W) \$900 (C)	15/16	PA & ED PS & E RW Sup Con Sup <u>Total</u> \$0 \$0 \$25 \$250 \$275	201.130 Assembly: 1 Senate: 2 Congress: 1 1 Location
4643	1-Men-1 82.1 0G190 01 1600 0134	Near Westport, at Union Landing Sidehill Viaduct No. 10-0295. Remove landslide material, repair bridge, and place erosion control measures.	\$10 (R/W) \$1,000 (C)	15/16	PA & ED PS & E RW Sup Con Sup <u>Total</u> \$0 \$0 \$10 \$280 \$290	201.130 Assembly: 1 Senate: 2 Congress: 1 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							
4640	1-Men-20 33.6/R38.5 0G070 01 1600 0121	Near Ukiah, from Russian River Bridge and Overhead to 0.2 mile east of Cold Creek Bridge. Repair accelerated pavement failure.	\$10 (R/W) \$820 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$0 \$0 \$10 \$200 \$210	201.130 Assembly: 1 Senate: 2 Congress: 1 1 Location
4644	1-Men-101 93.5 0G220 01 1600 0138	Near Piercy, 0.4 mile north of Jitney Gulch Bridge. Remove slipout debris, stabilize slope, repair roadway and place erosion control measures.	\$20 (R/W) \$700 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$0 \$0 \$20 \$225 \$245	201.130 Assembly: 1 Senate: 2 Congress: 1 1 Location
3656	2-Sis-96 65.6/65.8 2H120 02 1600 0103	Near Seiad Valley, from 4.5 miles to 4.7 miles east of Klamath River Bridge. Stabilize embankment slipout, construct retaining wall and place rock slope protection (RSP) and drainage.	\$5 (R/W) \$1,600 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$0 \$0 \$5 \$700 \$705	201.130 Assembly: 2 Senate: 4 Congress: 2 1 Location
3659	2-Tri-3 40.0/41.5 2H560 02 1600 0110	Near Weaverville, from 1.4 miles south to 0.2 mile north of Slate Creek Road. Remove major slipout debris, reconstruct total highway loss, reestablish stream bed and establish detour route.	\$75 (R/W) \$10,000 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$0 \$0 \$0 \$3,000 \$3,000	201.130 Assembly: 1 Senate: 4 Congress: 2 1 Location
3658	2-Tri-299 49.9 2H530 02 1600 0113	Near Weaverville, at 1.3 miles east of Glennison Gap Road. Repair slipout with rock buttress, reconstruct shoulder and drainage.	\$5 (R/W) \$550 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$0 \$0 \$0 \$300 \$300	201.130 Assembly: 1 Senate: 4 Congress: 2 1 Location
2113	3-But-32 30.9/31.0 1H510 03 1600 0175	Near Chico, 2.8 miles east of Platt Mountain Road. Repair slipout, reconstruct roadway and replace railing.	\$400 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$5 \$0 \$0 \$50 \$55	201.130 Assembly: 3 Senate: 4 Congress: 2 1 Location
3630	3-ED-193 23.4 1H480 03 1600 0165	Near Placerville, at 2.0 miles north of South Fork American River Bridge. Repair slipout, replace gabion wall and reconstruct roadway and barrier.	\$750 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$10 \$20 \$0 \$100 \$130	201.130 Assembly: 4 Senate: 6 Congress: 4 1 Location

List of New 2014 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 (cont.)							
5127	3-Pla-80 54.7 1H490 03 1600 0168	Near Emigrant Gap, at Putts Lake Undercrossing. Reconstruct roadway and replace failed culvert.	\$310 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$5 \$0 \$0 \$40 \$45	201.130 Assembly: 3 Senate: 1 Congress: 4 1 Location
5862	3-Sac-5 15.8/16.9 1H430 03 1600 0152	In the city of Sacramento, from 0.2 mile north of Freeport Boulevard to 0.3 mile south of Florin Road. Eliminate concentrated median drainage runoff.	\$550 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$5 \$0 \$0 \$60 \$65	201.130 Assembly: 9 Senate: 6 Congress: 5 1 Location
7797	3-Sie-49 2.7 1H470 03 1600 0163	Near Camptonville, at 1.0 mile south of North Yuba River Bridge. Construct retaining wall, reconstruct roadway and replace barrier.	\$1,200 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$40 \$0 \$0 \$200 \$240	201.130 Assembly: 3 Senate: 1 Congress: 4 1 Location
1499K	4-Nap-121 16.7/16.9 1K800 04 1600 0316	Near the city of Napa, at 0.6 mile to 0.8 mile north of Wooden Valley Road. Construct retaining wall, replace failed culvert and place rock slope protection (RSP).	\$160 (R/W) \$5,500 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$0 \$350 \$30 \$1,400 \$1,780	201.130 Assembly: 7 Senate: 2 Congress: 1 1 Location
1498B	4-SF-101 1.8 1K330 04 1600 0238	In the city of San Francisco, at Silver Avenue Overcrossing Bridge No. 34-0032. Reconstruct bridge railing and sidewalk due to truck collision damage.	\$1,900 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$0 \$0 \$0 \$480 \$480	201.130 Assembly: 12 Senate: 8 Congress: 8 1 Location
1499C	4-SM-1 15.9 1K660 04 1600 0294	Near Pescadero State Beach, at 2.3 miles south of Route 84. Repair washout with rock slope protection (RSP).	\$10 (R/W) \$510 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$0 \$0 \$0 \$155 \$155	201.130 Assembly: 19 Senate: 11 Congress: 14 1 Location
1499B	4-SM-1 36.2 1K650 04 1600 0279	Near Montara, at Tenth Street. Repair washout with rock slope protection (RSP) and provide traffic control.	\$20 (R/W) \$1,000 (C)	15/16	PA & ED PS & E RW Sup Con Sup Total	\$0 \$0 \$0 \$250 \$250	201.130 Assembly: 19 Senate: 8 Congress: 12 1 Location

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Major Damage Restoration (cont.)						
2659	5-SB-101 47.1/48.1 1H530 05 1600 0089	Near Gaviota, from the Gaviota Gorge Tunnel to 1.0 mile north of Gaviota Gorge Tunnel; also on Route 154 at Route 101, from PM R0.12 to R0.36. Improve skid resistance with grind and place asphalt overlay.	\$700 (C)	15/16	PA & ED \$5 PS & E \$15 RW Sup \$0 Con Sup \$100 Total \$120	201.130 Assembly: 33, 35 Senate: 17, 19 Congress: 23, 24 1 Location
3005J	8-Riv-10 R130.9 1G950 08 1600 0111	Near Blythe, at Calada Ditch Bridge No. 56-0020R/L. Reconstruct embankment and channel bed and place erosion measures.	\$10 (R/W) \$3,500 (C)	15/16	PA & ED \$71 PS & E \$351 RW Sup \$36 Con Sup \$702 Total \$1,160	201.130 Assembly: 80 Senate: 37, 40 Congress: 45 1 Location
3168	10-SJ-5 R14.8 1F900 10 1600 0150	Near Lathrop, at Route 5/120 Separation and Overhead Bridge No. 29-0251L. Repair bridge railing and overhead sign structure due to vehicular impact.	\$600 (C)	15/16	PA & ED \$20 PS & E \$50 RW Sup \$5 Con Sup \$280 Total \$355	201.130 Assembly: 17, 25 Senate: 5 Congress: 18 1 Location
1215	11-SD-8 7.8 42580 11 1600 0103	In the city of San Diego, at 0.5 mile west of College Avenue. Backfill sinkhole, replace failed drainage system and repair roadway.	\$40 (R/W) \$1,500 (C)	15/16	PA & ED \$0 PS & E \$0 RW Sup \$200 Con Sup \$200 Total \$400	201.130 Assembly: 78 Senate: 36, 39 Congress: 52, 53 1 Location
1214	11-SD-8 28.2/28.5 42660 11 1600 0126	Near Alpine, from 0.3 mile west of Tavern Road to Tavern Road. Replace large deep culvert, pressure grout voided areas and repave roadway.	\$5,000 (C)	15/16	PA & ED \$0 PS & E \$0 RW Sup \$0 Con Sup \$500 Total \$500	201.130 Assembly: 77 Senate: 36 Congress: 52 1 Location
1213	11-SD-52 5.7 42670 11 1600 0127	In the city of San Diego, at 0.2 mile east of Convoy Street. Replace failed culvert, repair roadway and perform slope stabilization.	\$1,500 (C)	15/16	PA & ED \$0 PS & E \$0 RW Sup \$0 Con Sup \$100 Total \$100	201.130 Assembly: 76, 77 Senate: 39 Congress: 50, 52 1 Location

List of New 2014 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						
4807	7-Ven-126 R10.2/R10.4 31060 07 1500 0003	Near Santa Paula, south of Route 126 and west of Briggs Road between Mission Rock Road and Pinkerton Road. Required off-site mitigation along the Santa Clara River for impacts incurred from two bridge projects (EA 07-1760U and 07-0607U). PAED: 01/26/2016 R/W: 01/26/2016 RTL: 01/26/2016 CCA: 12/01/2022	\$4,874 (C)	15/16	PA & ED \$0 PS & E \$0 RW Sup \$0 Con Sup \$737 <hr/> Total \$737	201.111 Assembly: 37 Senate: 19 Congress:26 2 Structures

List of Capital Project Amendments

Dist	County	Route	Post Miles	Location/Description	PPNO	EA	EFIS#	Prog	RW	Const	FY	Support			
01	Mendocino	101	3.7/5.3	Near Hopland, at 0.6 mile north of Geysers Road; also at 0.6 mile north of Pieta Creek Bridge (Post Mile 5.3). Repair slides.	4550	0B500	0112000133	201.131	300	13,762	15/16	PA&ED	620	620	
													PS&E	2,285	2,285
													RW	128	128
													Const	4,240	1,500
<p>Comments: The foundation report completed during the final design identified the need for increased quantities of ground anchors and piles needed to retain the active landslide which also increased the the support cost during construction. These changes add \$290,000 to the cost of the project.</p>															
03	El Dorado	49	24.0	Near Placerville, at South Fork American River Bridge No. 25-0021. Replace Bridge.	3122	0F310	0300000078	201.113	499	13,908	15/16	PA&ED	710	710	
													PS&E	2,500	2,500
													RW	400	400
													Const	2,800	3,800
<p>Comments: Increased construction support effort is required to address utility relocations during construction that were added later to the project during the design process. In addition, the utilization of large diameter shaft foundations on the project requires greater support during construction. These changes add \$1,000,000 to the cost of the project.</p>															
04	Alameda	880	19.3	Near Hayward, at Hacienda Avenue. Re-grade ground and install rock slope protection. Improve drainage system, construct maintenance access road and reconstruct irrigation system.	0039A	1SS44	0412000603	201.131	30	955	15/16	PA&ED	234	234	
													PS&E	500	500
													RW	20	20
													Const	545	230
<p>Comments: Changes in project scope have resulted due to an overlap with a parallel express lane project by a regional partner. The project will now reconstruct pump plant drainage discharge box, re-line existing pipes to prevent tree root intrusion, construct a maintenance access road and reconstruct the irrigation system. This has resulted in reduced construction support effort. The net decrease to the project is \$285,000.</p>															
04	Alameda			In Alameda County, on various routes at various locations. Upgrade transition railing (Site Group #2).	0107J	2G502	0414000057	201.015	7	2,042	15/16	PA&ED	320	320	
													PS&E	320	320
													RW	24	24
													Const	480	560
<p>Comments: During project design, it was determined that several locations would require concrete barriers instead of the originally planned guard rail, longer sections of guard rail than originally planned, and non-standard end treatment detailing. These changes have increased the size of the project and will require greater resources to administer the project construction. These changes add \$80,000 to the cost of the project.</p>															

Dist	County	Route	Post Miles	Location/Description	PPNO	EA	EFIS#	Prog	RW	Const	FY	Support			
05	Monterey	101	R41.5/49.8	In and near King City, from 0.2 mile south of Canal Street to 0.4 mile north of John Road; also from Central Avenue to Lagomarsino Avenue. Tree removal. In and near King City, from Central Avenue to 0.7 mile south of Teague Avenue and from 0.1 mile north of Teague Avenue to Lagomarsino Avenue. Tree removal.	2312	0T990	0500020243	201.015	60	2,600 1,178	15/16	PA&ED	1,110	1,110	
<p>Comments: Project was split into Revised Parent EA 05-0T990 and Child EA 05-0T991. During the design phase, the project development team identified the need to split the landscape mitigation planting into a child project for delivery in FY 17/18. The net \$1,422,000 reduction in cost will be transferred to the landscape mitigation project.</p>													845	845	
													RW	131	131
													Const	834	834
05	San Luis Obispo	101	63.2/R69.3	In and near San Miguel, from San Marcos Creek Bridge to the Monterey County line; Also in Monterey County (PM R0.0 to R1.9). Pavement rehabilitation.	0040B	0G040	0500020020	201.120	2,000	48,927	15/16	PA&ED	3,029	3,029	
<p>Comments: Project was split into Revised Parent EA 05-0G040 and Landscape Mitigation Child EA 05-0G041. Construction support increased due to an increase in working days. The working day increase is a result of the constructability review that determined that current traffic staging will not allow for the bridge replacements and bridge construction. These changes add \$1,434,000 to the cost of the project.</p>													PS&E	8,487	8,487
													RW	584	584
													Const	7,548	8,982
05	Santa Cruz	17	0.7/1.4	In Santa Cruz, from 0.7 mile north of Route 1/17 Separation to Beulah Park Undercrossing. Storm water mitigation.	1989	0Q600	0500020290	201.335	37	8,543	15/16	PA&ED	1,000	1,000	
<p>Comments: The construction support was evaluated near the end of the design phase and was adjusted due to an evasive plant eradication, monitoring and other construction activities. These changes add \$229,000 to the cost of the project.</p>													PS&E	1,570	1,570
													RW	184	184
													Const	4,899	2,128

Dist	County	Route	Post Miles	Location/Description	PPNO	EA	EFIS#	Prog	RW	Const	FY	Support		
06	Fresno	Var	Var	In Fresno, Kings and Madera Counties at structure Nos. 42-0134, 42-0216F, 45-0007, 45-0064 and 41-0059E. Bridge seismic restoration. In Fresno and Kings Counties at Structures Nos. 42-0134, 42-0216F, 45-0007 and 45-0064. Bridge seismic restoration.	6596	0K800	0612000110	201.113	873	8,220	15/16	PA&ED	456	456
												PS&E	2,460	2,460
												RW	65	65
												Const	2,460	1,375
Comments: The decrease in construction support is a result of reduced scope of work and the deletion of one bridge based upon further structural analysis in the design phase. As a result of the number of working days decreasing, there is a reduction of \$1,085,000 in construction support.														
06	Kern	46	57.3/57.8	Near Wasco, at Route 99 Separation Bridge No. 50-0184E (Also Route 99 PM 43.9/44.6). Replace bridge and realign southbound ramps.	6601	0K460	0612000105	201.110	1,265	19,375	15/16	PA&ED	701	701
												PS&E	2,920	2,920
												RW	900	900
												Const	2,600	2,757
Comments: The Construction Support has increased due to labor cost adjustments. These changes add \$157,000 to the cost of the project.														
07	Los Angeles	101	29.3/38.2	Near Hidden Hills, from Calabasas Parkway in Los Angeles County to Hampshire Road in Ventura County. Storm water mitigation through erosion control.	4279	28150	0700000552	201.335	52	42,900	15/16	PA&ED	350	350
												PS&E	5,000	5,000
												RW	500	500
												Const	5,000	3,500
Comments: Several of the Best Management Practice (BMP) devices were constructed and installed in other projects however during the design phase, others were discovered not to be feasible. The reduction in BMP devices results in a reduction of \$1,500,000 in construction support.														

Dist	County	Route	Post Miles	Location/Description	PPNO	EA	EFIS#	Prog	RW	Const	FY	Support		
07	Los Angeles	1	2.6/30.7	In the cities of Long Beach, Los Angeles, Lomita, Torrance, Redondo Beach and Manhattan Beach, from south of Anaheim Street to Fiji Way. Install channelization or rumble strips along center line median at various locations.	4651	29950	0713000313	201.010	5	1,160	15/16	PA&ED	88	88
												PS&E	180	180
												RW	24	24
												Const	495	360
Comments: The refinement of the traffic handling through the constructability review and increased rate matrix has increased the construction support. These changes add \$165,000 to the cost of the project.														
08	Riverside	60	26.5/29.9	In and near Beaumont, from east of Gilman Springs Road to west of Route 10. Construct shoulder rumble strips and install concrete barrier markers.	0045L	4F840	0815000052	201.010	40	485	15/16	PA&ED	456	
												PS&E	345	
												RW	9	
												Const	457	
Comments: Delete project and transfer work to EA 08-1C091 (pavement rehabilitation) as construction contract addendum to avoid contract cooperation risks.														
10	Stanislaus	99	M18.7 R18.0/R19.7	In Modesto, at the southbound off-ramp at Carpenter/Briggsmore Avenue. Reconstruct off-ramp. In Modesto, from 0.1 mile north of West Modesto Overhead to 0.5 mile south of Beckwith Road. Reconstruct off-ramp and construct acceleration and deceleration lanes at southbound ramps.	3011	0X560	1012000313	201.010	3 10	2,184 5,934	15/16	PA&ED	455	725
												PS&E	669	530
												RW	4	28
												Const	645	1,500
Comments: Combine safety projects EA 10-0X560 and EA 10-0W280 to address overlap of project limits, eliminate construction conflicts, and increase construction efficiencies. Split landscape portion of work into own project under EA 10-0X56Y to address plant establishment scope requirements. This is an increase to construction support for EA 10- 0X560 as a result of updated review of combined project resources. These changes add \$895,000 to the cost of the project.														

Dist	County	Route	Post Miles	Location/Description	PPNO	EA	EFIS#	Prog	RW	Const	FY	Support		
10	Stanislaus	99	R18.0/R19.7	In Modesto, from north of West Modesto Overhead to south of Beckwith Road. Construct acceleration and deceleration lanes at southbound ramps to improve safety.	3157	0W280	1014000159	201.010	7 0	4,200 0	15/16	PA&ED PS&E RW Const	645 184 29 424	0 0 0 0
Comments: Combine EA 10-0X560 with EA 10-0W280.														
12	Orange	405	2.6/6.5	In Irvine, from south of Sand Canyon Avenue to north of Culver Drive. Extend auxiliary lane and replace temporary railing (type K) with permanent concrete median barrier.	4952B	0M350	1212000018	201.010	0	16,280	15/16	PA&ED PS&E RW Const	0 2,884 13 2,880	0 2,884 13 3,400
Comments: Near the end of the design phase it was determined that additional retaining wall was needed. This change increased the number of working days which caused an increase in construction support. These changes add \$520,000 to the cost of the project.														