

MEMORANDUM

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: March 25, 2020

From: STEVEN KECK, Chief Financial Officer

Reference Number: 2.1a.(1), Action Item

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

Subject: SHOPP AMENDMENT 18H-015

ISSUE:

Should the California Transportation Commission (Commission) approve the California Department of Transportation's (Department) request to amend the 2018 State Highway Operation and Protection Program (SHOPP) under SHOPP Amendment 18H-015?

RECOMMENDATION:

The Department recommends that the Commission approve SHOPP Amendment 18H-015 that will amend the 2018 SHOPP, in accordance with Senate Bill 486 and the Road Maintenance and Rehabilitation Program component of Senate Bill 1, which require the Commission to approve changes to projects in the SHOPP or to adopt new projects being amended into the SHOPP.

The Department recommends 29 new capital projects be amended into the 2018 SHOPP, as detailed in attached Reference No. 2.1a.(1a). These amendments, summarized below, would be funded from the Major Damage Restoration, Collision Reduction and 2018 SHOPP programming capacity. These projects are consistent with the 2018 Transportation Asset Management Plan (TAMP).

2018 SHOPP Summary of New Projects by Category	No.	FY 2018-19 (\$1,000)	FY 2019-20 (\$1,000)	FY 2020-21 (\$1,000)	FY 2021-22 (\$1,000)
Major Damage Restoration	18	\$0	\$61,266	\$0	\$3,150
Collision Reduction	11	\$0	\$0	\$3,801	\$31,260
Total New Amendments	29	\$0	\$61,266	\$3,801	\$34,410

*"Provide a safe, sustainable, integrated and efficient transportation system
to enhance California's economy and livability"*

The Department recommends one additional new capital project be amended into the 2018 SHOPP, targeted to the four asset classes highlighted in Senate Bill 1, as detailed in Attachment 2.1a.(1b) and summarized below. The amendment would be funded from the Bridge Preservation of Senate Bill 1. This project is consistent with the 2018 TAMP.

2018 SHOPP Summary of New Projects by Category	No.	FY 2018-19 (\$1,000)	FY 2019-20 (\$1,000)	FY 2020-21 (\$1,000)	FY 2021-22 (\$1,000)
Bridge Preservation	1	\$0	\$17,681	\$0	\$0
Total New Amendments	1	\$0	\$17,681	\$0	\$0

Also, the Department further recommends that the capital projects, detailed in Attachment 2.1a.(1d), Attachment 2.1a.(1e), Attachment 2.1a.(1f), and Attachment 2.1a.(1g) be amended in the 2018 SHOPP to update scope, schedule, cost and make other technical changes. The amended projects are consistent with the Commission-adopted 2017 TAMP.

BACKGROUND:

In each even-numbered year, the Department prepares a four-year SHOPP which defines major capital improvements necessary to preserve and protect the State Highway System. Periodically, the Department proposes amendments to the SHOPP to address newly identified needs prior to the next programming cycle. Between programming cycles, the Department updates scope, schedule and cost to effectively deliver projects.

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

Attachments

List of New 2018 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 02-Las-Var Var 3783 0220000048 1J240	In Lassen, Plumas, Shasta, Siskiyou and Tehema Counties, at various locations. Remove and install signal head backplates with retro-reflective borders and install pavement markings.	19-20	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$400 \$0 <u>\$2,525</u> \$2,925	19-20 19-20	201.130 Assembly: 1, 3 Senate: 1, 4 Congress: 1 1 Location(s)
2 03-ED-Var Var 4004 0320000083 1J090	In El Dorado, Butte, Glen, Nevada, Placer, Yolo, and Yuba Counties, at various locations. Remove and install signal head backplates with retro-reflective borders and install pavement markings.	19-20	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$500 \$0 <u>\$2,500</u> \$3,000	19-20 19-20	201.130 Assembly: 1, 3-9 Senate: 1, 3-6, 8 Congress: 1, 3, 4, 6, 7 49 Location(s)
3 03-Pla-80 R56.9L/R58.2L 5145 0320000036 0J880	Near Emigrant Gap, from 0.8 mile east to 2.1 miles east of Carpenter Flat Undercrossing, at two locations. Restore the structural integrity of storm damaged rockfall retention systems by replacing posts and base plates, and installing new ground anchors.	21-22	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$160 \$300 \$50 \$340 \$0 <u>\$2,300</u> \$3,150	19-20 20-21 20-21 21-22 21-22	201.131 Assembly: 1 Senate: 1 Congress: 1 2 Location(s)
	PA&ED: 11/25/2020 R/W: 8/16/2021 RTL: 8/30/2021 BC: 2/16/2022					
	(Concurrent COS allocation under Resolution FP-19-62; March 2020.)					
4 03-Yub-65 R8.0 9734 0320000078 1J070	Near Olivehurst, at McGowan Parkway. Replace failed pump plant.	19-20	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$500 \$0 <u>\$2,000</u> \$2,500	19-20 19-20	201.130 Assembly: 3 Senate: 4 Congress: 3 1 Location(s)

List of New 2018 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.	
5 04-Ala-260 R1.1/R1.9 2034E 0420000159 0W020	In Oakland and Alameda, at the Posey-Webster Tubes (PM R1.1L/R to R1.9L/R). Rent and install temporary backup electrical generators.	19-20	PA&ED	\$0	201.130 Assembly: 18 Senate: 9 Congress: 13 1 Location(s)	
			PS&E	\$0		
			R/W Sup	\$0		
			Con Sup	\$1,500		19-20
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$5,000</u>		19-20
	Total		\$6,500			
6 04-Ala-Var Var 2033D 0420000096 0AC70	In Alameda, Contra Costa, Santa Clara and Solano Counties, on various routes and at various locations. Provide portable generators at signals, traffic control, and detours during high-wind public safety power shutoff outages.	19-20	PA&ED	\$0	201.130 Assembly: 11, 14, 18, 25 Senate: 3, 7, 9, 10 Congress: 3, 11, 13, 17 4 Location(s)	
			PS&E	\$0		
			R/W Sup	\$0		
			Con Sup	\$350		19-20
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$1,500</u>		19-20
	Total		\$1,850			
7 04-CC-24 R0.0 2033F 0420000099 0AC90	In Orinda, at the Caldecott Tunnel No. 28-0015, 28-0015L, 28-0015R, and 28-0015K. Install backup electrical generator systems.	19-20	PA&ED	\$0	201.130 Assembly: 15, 16 Senate: 7, 9 Congress: 11, 13 1 Location(s)	
			PS&E	\$0		
			R/W Sup	\$0		
			Con Sup	\$3,750		19-20
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$15,000</u>		19-20
	Total		\$18,750			
8 04-Mrn-1 8.5/9.5 2034D 0420000114 2AC20	Near Stinson Beach, from Cold Stream Bridge to 0.2 mile south of Lone Tree Creek Bridge. Repair fire damaged lagging wall, drainage systems, pavement, and install erosion control measures.	19-20	PA&ED	\$0	201.130 Assembly: 10 Senate: 2 Congress: 2 1 Location(s)	
			PS&E	\$0		
			R/W Sup	\$100		19-20
			Con Sup	\$1,680		19-20
			R/W Cap	\$50		19-20
			<u>Const Cap</u>	<u>\$5,600</u>		19-20
	Total		\$7,430			
9 04-Mrn-Var Var 2033E 0420000097 0AC80	In Marin, Napa, San Francisco, San Mateo, and Sonoma Counties, on various routes and at various locations. Provide portable generators at signals, traffic control, and detours during high-wind public safety power shutoff outages.	19-20	PA&ED	\$0	201.130 Assembly: 2, 4, 10, 22, 24 Senate: 2, 3, 11, 13 Congress: 2, 5, 12, 14 5 Location(s)	
			PS&E	\$0		
			R/W Sup	\$0		
			Con Sup	\$700		19-20
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$2,400</u>		19-20
	Total		\$3,100			

List of New 2018 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.
10 05-SB-101 19.8/20.1 3022 0520000044 1M630	Near Santa Barbara, at Turnpike Road. Replace failed culvert.	19-20	PA&ED	\$0		201.130
			PS&E	\$35	19-20	Assembly: 37
			R/W Sup	\$15	19-20	Senate: 19
			Con Sup	\$300	19-20	Congress: 24
			R/W Cap	\$25	19-20	
			<u>Const Cap</u>	<u>\$1,000</u>	19-20	1 Location(s)
			Total	\$1,375		
11 05-SCr-17 3.5 3003 0519000081 1M200	In Scotts Valley, at Glen Canyon Road Undercrossing Bridge No. 36-0067. Replace damaged median barrier, repair bridge slab, and provide traffic control.	19-20	PA&ED	\$0		201.130
			PS&E	\$40	19-20	Assembly: 29
			R/W Sup	\$0		Senate: 17
			Con Sup	\$110	19-20	Congress: 18, 20
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$400</u>	19-20	1 Location(s)
			Total	\$550		
12 07-LA-2 80.1 5607 0720000136 1XP80	Near Big Pines, at 0.1 mile west of San Bernardino County line. Remove and replace failed culvert and repair failed pavement.	19-20	PA&ED	\$0		201.130
			PS&E	\$0		Assembly: 36
			R/W Sup	\$30	19-20	Senate: 25
			Con Sup	\$600	19-20	Congress: 27
			R/W Cap	\$70	19-20	
			<u>Const Cap</u>	<u>\$780</u>	19-20	1 Location(s)
			Total	\$1,480		
13 07-LA-105 R2.0/R2.3 5602 0720000123 1XP30	In the cities of Los Angeles and Hawthorne, at the E105-S405 Connector Tunnel No. 53-2436G, the E105-N405 Connector Tunnel No. 53-2437G, and the W105-S405 Connector Tunnel No. 53-2441F. Construct emergency power generator system.	19-20	PA&ED	\$0		201.130
			PS&E	\$0		Assembly: 62
			R/W Sup	\$0		Senate: 26, 35
			Con Sup	\$1,500	19-20	Congress: 43
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$3,030</u>	19-20	3 Location(s)
			Total	\$4,530		
14 08-SBd-10 30.9/31.0 3016K 0820000088 1L500	In Redlands, from Orange Street Undercrossing to 6th Street Undercrossing. Replace failed drainage systems and repair embankment.	19-20	PA&ED	\$25	19-20	201.130
			PS&E	\$100	19-20	Assembly: 40
			R/W Sup	\$25	19-20	Senate: 23
			Con Sup	\$200	19-20	Congress: 31
			R/W Cap	\$10	19-20	
			<u>Const Cap</u>	<u>\$740</u>	19-20	2 Location(s)
			Total	\$1,100		

List of New 2018 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.
15 08-SBd-15 31.8 3016Q 0820000096 1L540	In Hesperia, at the northbound Route 15/395 connector Bridge No. 54-0665G. Repair bridge deck, railing, and joint seals.	19-20	PA&ED	\$50	19-20	201.130 Assembly: 33 Senate: 21 Congress: 8 1 Location(s)
			PS&E	\$200	19-20	
			R/W Sup	\$20	19-20	
			Con Sup	\$680	19-20	
			R/W Cap	\$0		
			<u>Const Cap</u>	<u>\$1,500</u>	19-20	
			Total	\$2,450		
16 08-SBd-18 17.9/19.1 3016J 0820000083 1L480	Near Crestline, from 0.2 mile east of Route 138 to 1.4 mile west of Crest Forest Drive. Remove rock slide and repair damaged rock fence.	19-20	PA&ED	\$15	19-20	201.130 Assembly: 33 Senate: 23 Congress: 8 1 Location(s)
			PS&E	\$90	19-20	
			R/W Sup	\$20	19-20	
			Con Sup	\$120	19-20	
			R/W Cap	\$50	19-20	
			<u>Const Cap</u>	<u>\$800</u>	19-20	
			Total	\$1,095		
17 08-SBd-62 95.0/96.0 3016H 0820000082 1L470	Near Vidal Junction, from 10.0 miles east to 11.0 miles east of Route 177. Repair failed pavement and eroded shoulders.	19-20	PA&ED	\$10	19-20	201.130 Assembly: 33 Senate: 16 Congress: 8 1 Location(s)
			PS&E	\$50	19-20	
			R/W Sup	\$15	19-20	
			Con Sup	\$120	19-20	
			R/W Cap	\$50	19-20	
			<u>Const Cap</u>	<u>\$650</u>	19-20	
			Total	\$895		
18 12-Ora-Var Var 1205 1220000049 0S350	In Orange County, on various routes and at various locations. Remove and install signal head backplates with retro-reflective borders and install pavement markings.	19-20	PA&ED	\$9	19-20	201.130 Assembly: 65, 68, 69, 72, 73, 74 Senate: 29, 34, 36, 37 Congress: 39, 45, 46, 48, 49 47 Location(s)
			PS&E	\$30	19-20	
			R/W Sup	\$5	19-20	
			Con Sup	\$182	19-20	
			R/W Cap	\$10	19-20	
			<u>Const Cap</u>	<u>\$1,500</u>	19-20	
			Total	\$1,736		

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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.
Collision Reduction						
19 02-Teh-99 4.2/4.8 3744 0219000044 0J010	Near Los Molinos, from 0.3 mile south to 0.3 mile north of of South Avenue. Construct roundabout. PA&ED: 6/1/2022 R/W: 11/1/2023 RTL: 11/27/2023 BC: 3/19/2024	23-24	PA&ED PS&E R/W Sup * Con Sup * R/W Cap <u>* Const Cap</u> Total	\$1,050 \$1,430 \$180 \$2,250 \$2,147 <u>\$7,350</u> \$14,407	19-20 21-22 21-22 23-24 23-24 23-24	201.010 Assembly: 3 Senate: 4 Congress: 1 20 Collision(s) reduced
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)						
* Phase NOT Programmed.						
20 04-Son-12 19.8 2026M 0419000048 2Q780	In Santa Rosa, at intersection with Boas Drive. Install traffic signal. PA&ED: 2/4/2022 R/W: 10/6/2023 RTL: 11/10/2023 BC: 5/3/2024	23-24	PA&ED PS&E R/W Sup * Con Sup * R/W Cap <u>* Const Cap</u> Total	\$1,097 \$1,303 \$191 \$1,089 \$365 <u>\$2,099</u> \$6,144	19-20 21-22 21-22 23-24 23-24 23-24	201.010 Assembly: 2 Senate: 2 Congress: 5 9 Collision(s) reduced
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)						
* Phase NOT Programmed.						
21 05-SLO-1 Var 2882 0519000032 1K850	In San Luis Obispo and Monterey Counties, on Routes 1, 41, and 227 at various locations. Install both centerline and edge line rumble strips. PA&ED: 2/3/2020 R/W: 11/20/2020 RTL: 3/2/2021 BC: 7/16/2021	20-21	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$557 \$26 \$658 \$0 <u>\$2,560</u> \$3,801	19-20 19-20 20-21 20-21	201.010 Assembly: 30, 35 Senate: 17 Congress: 20, 24 118 Collision(s) reduced
(Concurrent COS allocations under Resolution FP-19-62; March 2020.)						

List of New 2018 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.
22 06-Fre-41 R1.8/R2.2 7040 0619000229 1A290	Near Camden, from 0.2 mile south to 0.2 mile north of Mount Whitney Avenue. Construct roundabout. PA&ED: 4/30/2021 R/W: 5/2/2023 RTL: 5/4/2023 BC: 11/27/2023	22-23	PA&ED PS&E R/W Sup * Con Sup * R/W Cap <u>* Const Cap</u> Total	\$1,200 \$2,200 \$350 \$1,600 \$300 <u>\$8,100</u> \$13,750	19-20 20-21 20-21 22-23 22-23 22-23	201.010 Assembly: 31 Senate: 12 Congress: 21 54 Collision(s) reduced
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)						
* Phase NOT Programmed.						
23 06-Fre-41 M5.7/R7.1 7042 0619000230 1A300	Near Wildflower, from 0.3 mile south to 1.0 mile north of East Elkhorn Avenue. Construct roundabout. PA&ED: 4/30/2021 R/W: 5/2/2023 RTL: 5/4/2023 BC: 11/27/2023	22-23	PA&ED PS&E R/W Sup * Con Sup * R/W Cap <u>* Const Cap</u> Total	\$1,200 \$2,200 \$200 \$1,600 \$200 <u>\$8,200</u> \$13,600	19-20 20-21 20-21 22-23 22-23	201.010 Assembly: 31 Senate: 12 Congress: 21 39 Collision(s) reduced
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)						
* Phase NOT Programmed.						
24 06-Tul-190 11.3/11.5 7033 0619000232 1A310	Near Porterville, from 0.1 mile west to 0.1 mile east of Rockford Road. Construct roundabout. PA&ED: 1/5/2022 R/W: 10/7/2023 RTL: 10/15/2023 BC: 3/30/2024	23-24	PA&ED PS&E R/W Sup * Con Sup * R/W Cap <u>* Const Cap</u> Total	\$1,400 \$1,550 \$850 \$1,350 \$750 <u>\$4,200</u> \$10,100	19-20 21-22 21-22 23-24 23-24 23-24	201.010 Assembly: 26 Senate: 14 Congress: 23 23 Collision(s) reduced
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)						
* Phase NOT Programmed.						

List of New 2018 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.
25 07-LA-1 11.2 5612 0719000238 35970	In the city of Los Angeles, in the neighborhood of Wilmington, at the intersection of Wilmington Boulevard. Upgrade traffic signal with protected left-turn phases from north and south approaches, add Audible Pedestrian Signal (APS) and countdown devices, and upgrade facilities to Americans with Disabilities Act (ADA) standards.	21-22	PA&ED	\$444	19-20	201.010 Assembly: 64 Senate: 35 Congress: 44 41 Collision(s) reduced
			PS&E	\$912	20-21	
			R/W Sup	\$14	20-21	
			Con Sup	\$743	21-22	
			R/W Cap	\$48	21-22	
			<u>Const Cap</u>	<u>\$1,135</u>	21-22	
			Total	\$3,296		
PA&ED: 10/9/2020						
R/W: 11/16/2021						
RTL: 1/5/2022						
BC: 7/21/2022						
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)						
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26 08-Riv-74 5.7/11.8 3016R 0819000090 1K690	In and near Lake Elsinore, from west of Monte Vista Street/Vista Road to Grand Avenue. Widen roadway to provide a two-foot median buffer and four-foot shoulders, install rumble strips, upgrade guardrail, and re-grade side slopes.	23-24	PA&ED	\$5,921	19-20	201.010 Assembly: 67 Senate: 28 Congress: 42 21 Collision(s) reduced
			* PS&E	\$5,161	22-23	
			* R/W Sup	\$333	22-23	
			* Con Sup	\$8,798	23-24	
			* R/W Cap	\$3,287	23-24	
			* <u>Const Cap</u>	<u>\$91,974</u>	23-24	
			Total	\$115,474		
PA&ED: 12/1/2022						
R/W: 4/3/2024						
RTL: 5/1/2024						
BC: 12/12/2024						
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)						
* Phase NOT Programmed.						

List of New 2018 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.
27 10-Cal-12 10.1/10.3 3476 1019000055 1J820	Near Valley Springs, from east of Chestnut Street to west of Lime Creek Road (west). Intersection safety improvements.	23-24	PA&ED	\$1,098	20-21	201.010
			* PS&E	\$1,374	22-23	Assembly: 5
			* R/W Sup	\$221	22-23	Senate: 8
			* Con Sup	\$1,216	23-24	Congress: 4
			* R/W Cap	\$1,297	23-24	
			* <u>Const Cap</u>	<u>\$4,319</u>	23-24	18 Collision(s) reduced
			Total	\$9,525		
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)						
* Phase NOT Programmed.						
28 10-SJ-120 11.6 3477 1019000084 1K460	Near Manteca, at French Camp Road. Construct roundabout.	23-24	PA&ED	\$1,660	19-20	201.010
			PS&E	\$1,598	21-22	Assembly: 12
			R/W Sup	\$591	21-22	Senate: 5
			* Con Sup	\$1,819	23-24	Congress: 10
			* R/W Cap	\$2,453	23-24	
			* <u>Const Cap</u>	<u>\$8,083</u>	23-24	50 Collision(s) reduced
			Total	\$16,204		
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)						
* Phase NOT Programmed.						
29 12-Ora-22 R5.5 2916 1218000076 0R290	In Garden Grove, on the westbound onramp from Trask Avenue/Brookhurst Street. Place High Friction Surface Treatment (HFST), add pavement delineation, and install concrete barrier.	22-23	PA&ED	\$311	19-20	201.010
			PS&E	\$384	20-21	Assembly: 72
			R/W Sup	\$0		Senate: 34
			* Con Sup	\$412	22-23	Congress: 47, 48
			R/W Cap	\$0		
			* <u>Const Cap</u>	<u>\$840</u>	22-23	15 Collision(s) reduced
			Total	\$1,947		
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)						
* Phase NOT Programmed.						

List of New 2018 SHOPP Capital Project Amendments for Senate Bill 1 Projects

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.

Bridge Preservation

1	In San Rafael, at Route 101 northbound offramp to	19-20	PA&ED	\$0		201.110
04-Mrn-101	2nd Street at San Rafael Harbor Bridge No.		PS&E	\$250	19-20	Assembly: 6
10.6/10.8	27-0033S. Replace bridge.		R/W Sup	\$0		Senate: 2
0350H			Con Sup	\$2,700	19-20	Congress: 6
0413000049	PA&ED: 7/7/2017		R/W Cap	\$0		
4G820	R/W: 7/1/2019		<u>Const Cap</u>	<u>\$14,731</u>	19-20	
	RTL: 8/2/2019		Total	\$17,681		
	BC: 7/2/2020					

(Concurrent COS allocation under Resolution
 FP-19-62; March 2020.)

(Concurrent CONST and CON ENG allocation under
 Resolution FP-19-72; March 2020.)

Performance Measure: Bridges (1 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Square feet	0.0	0.0	6,867.0	6,867.0
Post Condition	Square feet	6,867.0	0.0	0.0	6,867.0

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)**

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
1 01-DN-101 39.8 1113 0115000108 0F310	Near the Smith River community, at Dominie Creek. Replace box culvert with new bridge and remediate fish passage barrier. <u>Performance Measure</u> 1 Bridge(s)	19-20 201.110	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,068 \$1,141 \$154 \$1,643 \$151 \$5,852 \$10,009	Prior Prior Prior 19-20 19-20 19-20	\$1,068 \$1,141 \$154 \$1,543 \$151 \$5,652 \$9,709	Prior Prior Prior 19-20 19-20 19-20

(Concurrent CONST and CON ENG allocation under Resolution FP-19-61; March 2020.)

Note: Split environmental mitigation work from this project into EA 0F311/PPNO 01-1113M for revegetation.

Performance Measure: Bridges (1 Bridge(s))					
	Unit	Good	Fair	Poor	Quantity
Existing Condition	Square feet	0.0	0.0	0.0	0.0
Post Condition	Square feet	5,160.0	0.0	0.0	5,160.0

2 01-DN-101 39.8 1113M 0120000053 0F311	Near the Smith River community, at Dominie Creek. Environmental mitigation for EA 0F310. <u>Performance Measure</u> 0 Bridge(s)	19-20 201.110	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$100 \$0 <u>\$200</u> \$300	19-20 19-20
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Note: Split environmental mitigation work from parent project EA 0F310/PPNO 01-1113 into this project for revegetation.

List of 2018 SHOPP Amendments (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)					
3 01-Hum-36 11.3/34.6 2363 0112000292 0C500	Near Bridgeville, at Hely Creek Bridge No. 04-0092, Little Larabee Creek Bridge No. 04-0102 (PM 25.3), and Butte Creek Bridge No. 04-0116. Upgrade bridge rails and widen at one bridge, and replace two bridges.	21-22 201.112	PA&ED	\$2,947	Prior	\$2,947	Prior	
			PS&E	\$3,646	20-21	\$3,646	20-21	
			R/W Sup	\$268	20-21	\$268	20-21	
			Con Sup	\$4,325	21-22	\$4,325	21-22	
			R/W Cap	\$874	21-22	\$1,470	21-22	
			<u>Const Cap</u>	<u>\$16,001</u>	21-22	<u>\$15,405</u>	21-22	
			Total	\$28,061		\$28,061		
<u>Performance Measure</u>								
910.0 Linear feet								
1,026.0 Linear feet								

Note: Increase to R/W capital as the acreage needed for mitigation has more than doubled than what was previously estimated. Reduction in construction capital to account for reduction in escalation rate. Update to performance measure to include 116 linear feet of new barrier rail that was missing in the original performance reporting.

Performance Measure: Bridges (3 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Linear feet rail	0.0	910.0	0.0	910.0
Post Condition	Linear feet rail	1,026.0	0.0	0.0	1,026.0

4 03-ED-50 03-Yol-50 0.0/70.6 0.0/3.0 3318 0317000011 1H870	In Yolo, Sacramento and El Dorado Counties, in and near the cities of West Sacramento, Sacramento, Rancho Cordova, Folsom, and Placerville, from Route 80 to Route 89 at various locations: In West Sacramento, from 0.4 mile west of Route 50/80 Separation to 0.2 mile west of Sacramento County line; also on Route 80 from 0.2 mile west of Enterprise Boulevard to 0.1 mile east of Lake Washington Overhead (PM9.0/R10.7). Upgrade guardrail to make standard.	20-21 201.015	PA&ED	\$271	Prior	\$271	Prior
			PS&E	\$461	Prior	\$461	Prior
			R/W Sup	\$129	Prior	\$129	Prior
			Con Sup	\$570	20-21	\$570	20-21
			R/W Cap	\$5	20-21	\$21	20-21
			<u>Const Cap</u>	<u>\$2,000</u>	20-21	<u>\$2,077</u>	20-21
			Total	\$3,436		\$3,529	

Performance Measure
~~20 Collision(s) reduced~~
3 Collision(s) reduced

Note: Increase to R/W capital and construction capital, and an update to postmiles and project description to reflect more accurate guardrail locations which were left undetermined during project initiation. Update performance measures based on the most recent calculation guidelines.

List of 2018 SHOPP Amendments (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
5 03-Nev-20 28.0/32.4 3996 031600004 0H660	Near Nevada City and Junction House, from east of Conservation Road (Washington Ridge Road) to east of Washington Road. Operational improvements to widen for left-turn pockets and roadway turnouts.	20-21 201.310	PA&ED	\$340	Prior	\$340	Prior
			PS&E	\$470	19-20	\$470	19-20
			R/W Sup	\$60	19-20	\$60	19-20
			Con Sup	\$530	20-21	\$530	20-21
			R/W Cap	\$90	20-21	\$90	20-21
			<u>Const Cap</u>	<u>\$1,900</u>	20-21	<u>\$3,640</u>	20-21
			Total	\$3,390		\$5,130	
			<u>Performance Measure</u>				
20.0 Daily vehicle hour(s) of delay (DVHD)							
<p>Note: Widen shoulders to 8 feet to allow for bicycle and pedestrian use. This has resulted in increased roadway and drainage quantities which require additional construction capital.</p>							
6 03-Nev-80 28.3/28.7 4293 0316000046 1H010	Near Truckee and Floriston, from 0.2 mile east of Truckee River Bridge to 0.8 mile west of Farad Road. Construct measures to address cut slope erosion and rockfall.	20-21 201.150	PA&ED	\$570	Prior	\$570	Prior
			PS&E	\$1,150	Prior	\$1,150	Prior
			R/W Sup	\$160	Prior	\$160	Prior
			Con Sup	\$1,020	20-21	\$1,020	20-21
			R/W Cap	\$90	20-21	\$10	20-21
			<u>Const Cap</u>	<u>\$11,400</u>	20-21	<u>\$5,500</u>	20-21
			Total	\$14,390		\$8,410	
			<u>Performance Measure</u>				
1 Location(s)							
<p>Note: The scope of work changed from slope flattening to building a catchment area for rockfall and adding a concrete barrier between the catchment area and the roadway which reduces construction and R/W capital costs.</p>							
7 04-Ala-580 Var 1487M 0415000090 3J130	In various cities, on Routes 580, 680, 880, and 980 at various locations. Enhance pedestrian safety by installing Accessible Pedestrian Signals (APS) systems and countdown timers and upgrading crosswalk markings.	21-22 201.015	PA&ED	\$940	Prior	\$940	Prior
			PS&E	\$940	19-20	\$940	19-20
			R/W Sup	\$130	19-20	\$130	19-20
			Con Sup	\$1,030	21-22	\$1,030	21-22
			R/W Cap	\$20	21-22	\$20	21-22
			<u>Const Cap</u>	<u>\$6,068</u>	21-22	<u>\$6,068</u>	21-22
			Total	\$9,128		\$9,128	
			<u>Performance Measure</u>				
264 Collision(s) reduced 8 Collision(s) reduced							
<p>Note: Update performance measures based on the most recent calculation guidelines.</p>							

List of 2018 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)				
8 04-CC-4 Var 1487N 0415000091 3J140	In Contra Costa County, on Routes 4, 24, 80, 123, 242, 580, and 680 at various locations. Install Accessible Pedestrian Signals (APS) systems and pedestrian countdown timers, and refresh crosswalk markings with high-visibility striping to enhance pedestrian safety.	21-22 201.015	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,108 \$1,108 \$80 \$1,400 \$20 <u>\$7,487</u> \$11,203	Prior 19-20 19-20 21-22 21-22 21-22	\$1,108 \$1,108 \$80 \$1,400 \$150 <u>\$7,487</u> \$11,333	Prior 19-20 19-20 21-22 21-22 21-22

Performance Measure
~~333 Collision(s) reduced~~
10 Collision(s) reduced

(Concurrent COS allocation under Resolution FP-19-62; March 2020.)

Note: Increase to R/W capital as the number of potential utility verification locations has significantly increased. Update needed to the performance measures based on the most recent calculation guidelines.

9 04-CC-24 R3.5 1493A 0416000027 4J840	In Orinda, at St. Stephens Drive Overcrossing No. 28-0111. Seismic retrofit.	21-22 201.113	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$925 \$1,175 \$175 \$375 \$38 <u>\$2,067</u> \$4,755	Prior 19-20 19-20 21-22 21-22 21-22	\$925 \$1,175 \$175 \$1,700 \$68 <u>\$5,600</u> \$9,643	Prior 19-20 19-20 21-22 21-22 21-22
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Note: Increase to construction capital since the original strategy for seismic retrofit conflicts with Bay Area Rapid Transit (BART) rail lines. The updated strategy transfers work to the abutments and calls for rebuilding the median barrier to work on bent areas. Increase to construction support as the new strategy will require more working days. Increase to R/W capital will address BART expenses, such as work plan reviews and flaggers.

Performance Measure: Bridges (1 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Square feet	0.0	0.0	13,982.0	13,982.0
Post Condition	Square feet	13,982.0	0.0	0.0	13,982.0

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)**

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
10 04-SCI-9 4.9 0386F 0412000409 3G630	Near Saratoga, at Saratoga Creek Bridge No. 37-0074. Replace bridge. <u>Performance Measure</u> 1 Bridge(s)	21-22 201.110	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$2,800 \$4,200 \$1,200 \$4,526 \$6,779 \$11,668 \$28,173	Prior 18-19 18-19 21-22 21-22 21-22 21-22	\$2,800 \$4,200 \$1,200 \$3,100 \$9,111 \$15,432 \$35,843	Prior 18-19 18-19 21-22 21-22 21-22
(Concurrent COS allocation under Resolution FP-19-62; March 2020.)							

Note: A revised Department solution incorporates some of the aesthetic features of the previous structure while minimizing delay in response to public comments. Additional construction capital is needed for the improved design, additional construction support is needed for supervision of multiple concurrent operations, and R/W capital is needed because of a larger environmental footprint.

Performance Measure: Bridges (1 Bridge(s))					
	Unit	Good	Fair	Poor	Quantity
Existing Condition	Square feet	0.0	0.0	4,223.0	4,223.0
Post Condition	Square feet	4,453.0	0.0	0.0	4,453.0

11 04-SCI-101 R26.4/46.4 30.7/38.1 2020J 0416000017 4J930	In the cities of San Jose, Santa Clara, and Sunnyvale, from Route 85 to Route 237, also on Route 85 (PM 0.0 to 1.1) and Route 237 (PM 2.2 to R4.9) from 0.3 mile south of Yerba Buena Road to 10th Street Overcrossing. Highway planting and modernizing Repair and modernized roadside irrigation facilities.	21-22 201.210	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$375 \$500 \$63 \$625 \$15 \$2,009 \$3,587	Prior Prior Prior 21-22 21-22 21-22 21-22	\$375 \$500 \$63 \$625 \$15 \$2,009 \$3,587	Prior Prior Prior 21-22 21-22 21-22
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Performance Measure
12.0 Acre(s)
13.0 Acre(s)

Note: The location at Mathilda Avenue is being eliminated because it will be constructed by a local agency project, and the location at Bernal Road is being eliminated because recycled water is not available at that location. Planting at Yerba Buena Road and Berryessa Road has been added because the existing landscaping is in poor condition. Postmiles and performance have been adjusted because of these scope changes.

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)**

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
12 04-SM-280 R0.0/R21.0 1498G 0416000028 4J850	In and near Menlo Park and San Bruno, from Alpine Road to Route 380 at Alpine Road Undercrossing No. 35-0009L/R (PM R0.05), Sand Hill Road Overcrossing (OC) (South) No. 35-0007 (PM R1.56), Sand Hill Road OC (North) No. 35-0008 (PM R1.62), and Route 280/380 Separation No. 35-0217L/R (PM R20.97). Structure seismic retrofit.	21-22 201.113	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$600 \$1,000 \$100 \$1,000 \$262 \$7,470 \$10,432	Prior 20-21 20-21 21-22 21-22 21-22	\$600 \$2,217 \$100 \$2,584 \$262 \$14,361 \$20,124	Prior 20-21 20-21 21-22 21-22 21-22

Performance Measure

6 Bridge(s)

5 Bridge(s)

Note: Increase to construction capital because structure costs have increased, and additional fish passage work is needed. Increase to construction support because seismic work will require more testing and quality control, and fish passage and environmental support needs are greater than previously estimated. Increase to PS&E support because of additional design work identified. Update to performance measure because one bridge deck was initially counted as two.

Performance Measure: Bridges (5 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Square feet	0.0	0.0	141,857.0	141,857.0
Post Condition	Square feet	141,857.0	0.0	0.0	141,857.0

13 05-SB-101 2.6/R4.8 2426Y 0520000052 1C8A1	In Carpinteria, from Casitas Pass Overcrossing to 0.5 mile south of South Padaro Lane. Environmental mitigation (highway planting) for EA 1C821.	20-21 201.120	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$250 \$0 \$500 \$0 \$2,800 \$3,550	19-20 20-21 20-21
	<u>Performance Measure</u> 0.0 Lane Mile(s)				<u>20-21</u>

Note: Split environmental mitigation work from parent project EA 1C821/PPNO 05-2426 into this project for revegetation.

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)**

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)			
14 05-SB-101 2.6/R4.8 2426X 0520000053 1C8A2	In Carpinteria, from Casitas Pass Overcrossing to 0.5 mile south of South Padaro Lane. Environmental mitigation (biological monitoring) for EA 1C821. <u>Performance Measure</u> 0.0 Lane mile(s)	21-22 201.120	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total		\$0 \$0 \$0 \$40 \$0 \$0 \$40	21-22

Note: Split environmental mitigation work from parent project EA 1C821/PPNO 05-2426 into this project for biological monitoring.

15 05-SB-101 2.6/R4.8 2426 0517000082 1C821	In Carpinteria, from Casitas Pass Overcrossing to 0.5 mile south of South Padaro Lane. Rehabilitate roadway. <u>Performance Measure</u> 7.9 Lane mile(s)	19-20 201.120	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$9,200 \$1,380 \$220 \$10,040 \$4,880 \$41,430 \$67,450	Prior Prior Prior 19-20 Prior 19-20	\$9,200 \$1,380 \$220 \$10,040 \$4,880 \$37,840 \$63,560	Prior Prior Prior 19-20 Prior 19-20
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(Concurrent CONST and CON ENG allocation under Resolution FP-19-61; March 2020.)

Note: Split environmental mitigation work from this project into EA 1C8A1/PPNO 05-2426Y for revegetation and 1C8A2/PPNO 05-2426X for biological monitoring.

Performance Measure: Pavement		<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
	<u>Unit</u>				
Existing Condition	Lane mile(s)	0.0	7.8	0.1	7.9
Post Condition	Lane mile(s)	7.9	0.0	0.0	7.9

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)**

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
16 05-SB-101 46.2/R52.3 2700 0517000002 1H860	Near Gaviota, from 1.0 mile south of Gaviota Gorge Tunnel to 0.1 mile north of Nojoqui Creek Bridge. Upgrade guard railing, widen shoulders, place High Friction Surface Treatment (HSFT), construct retaining walls, cold plane pavement, place Hot Mix Asphalt (HMA) and Rubberized Hot Mix Asphalt (RHMA) pavement. Rehabilitate pavement.	21-22 201-122 201-121	PA&ED PS&E R/W Sup * Con Sup R/W Cap * <u>Const Cap</u> Total	\$2,160 \$2,648 \$74 \$5,026 \$24 <u>\$59,218</u> \$69,147	Prior 19-20 19-20 21-22 21-22 21-22	\$2,160 \$2,648 \$74 \$5,026 \$77 <u>\$59,218</u> \$69,203	Prior 19-20 19-20 21-22 21-22 21-22

(G13 Contingency)

Performance Measure

~~28.4 Lane mile(s)~~

27.6 Lane mile(s)

* Phase NOT Programmed.

Note: The latest pavement survey supports a change in pavement strategy. Performance measure changed to match latest pavement survey data. Items of work missed in previous estimate negate the cost savings due to reduction in scope. Increase in R/W capital due to additional potholing to identify utilities.

Performance Measure: Pavement					
	Unit	Good	Fair	Poor	Quantity
Existing Condition	Lane mile(s)	8.8	18.8	0.0	27.6
Post Condition	Lane mile(s)	27.6	0.0	0.0	27.6

17 05-SCr-152 1.9/R2.0 2530 0514000039 1F620	Near Watsonville, from 0.1 mile east of Beverly Drive to Holohan Road/College Road. Construct pedestrian bridge next to the Corralitos Creek Bridge, accessible pathway , concrete barrier, retaining wall, curb, gutter and sidewalk to meet Americans with Disabilities Act (ADA) standards.	21-22 201.361	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,621 \$2,430 \$376 \$1,776 \$247 <u>\$3,205</u> \$9,655	Prior 20-21 20-21 21-22 20-21 21-22	\$1,621 \$2,430 \$376 \$1,776 \$355 <u>\$3,205</u> \$9,763	Prior 20-21 20-21 21-22 21-22 21-22
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Performance Measure

5 Curb ramp(s)

Note: Update scope and description to reflect design change to instead widen an existing parallel bridge to provide the accessible pedestrian pathway. The previous strategy to construct a separate pedestrian bridge has been determined infeasible. R/W capital has been delayed to align with project delivery year and the increase is due to additional underground utilities needing further location verification.

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)**

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
18 06-Fre-33 Var 6773 0615000296 0U000	In Fresno County, at Colony Main Canal Bridge No. 42-0031, Helm Canal Bridge No. 42-0033 and Poso Canal Bridge No. 42-0034; also in Kern County, on Route 58 at Main Drain Canal Bridge No. 50-0013. Repair erosion, clean and encase piers in concrete.	20-24 21-22 201.119	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$538 \$893 \$334 \$805 \$630 \$1,782 \$4,982	Prior 19-20 19-20 20-24 20-24 20-24	\$538 \$893 \$334 \$830 \$630 \$2,340 \$5,565	Prior 19-20 19-20 21-22 21-22 21-22
	<u>Performance Measure</u> 4 Bridge(s)						

Note: Construction has been postponed a year due to additional time needed to obtain railroad temporary construction easements after environmental clearance. Construction support increase is due to escalation. Construction capital increase is due to newly identified water diversion systems at three canal locations.

Performance Measure: Bridges (4 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Square feet	0.0	7,438.0	9,063.0	16,501.0
Post Condition	Square feet	16,501.0	0.0	0.0	16,501.0

19 07-LA-1 0.0/19.0 0.0/18.0 4998 0716000049 32160	In and near Redondo Beach; In the cities of Long Beach, Los Angeles, Lomita, and Torrance, from Orange County line to south of Topaz Street Paseo De Las Delicias. Upgrade Americans with Disabilities Act (ADA) curb ramps, upgrade metal beam guardrail, cold plane grind pavement, and place Hot Mix Asphalt (HMA) and Rubberized Hot Mix Asphalt (RHMA) pavement to rehabilitate pavement.	21-22 201.121	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,680 \$4,886 \$920 \$7,684 \$1,554 \$38,220 \$54,944	Prior Prior Prior 21-22 21-22 21-22	\$1,680 \$4,886 \$920 \$7,300 \$1,554 \$36,220 \$52,560	Prior Prior Prior 21-22 21-22 21-22
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Performance Measure
~~99.4 Lane mile(s)~~
81.0 Lane mile(s)

Note: The northern mile of this project is getting transferred to EA 32580/PPNO 07-5034 in order to better coordinate with the City of Redondo Beach with construction staging, permit acquisition, and construction administration. Construction support and construction capital are being adjusted to reflect the updated scope. Update to performance measures using the latest pavement survey data, as well as reflecting the scope change.

Performance Measure: Pavement					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Lane mile(s)	0.0	81.0	0.0	81.0
Post Condition	Lane mile(s)	81.0	0.0	0.0	81.0

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)**

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
20 07-LA-1 19.0/33.3 18.0/33.3 5034 0716000090 32580	In and near Redondo Beach, In the cities of Torrance, Redondo Beach, Hermosa Beach, Manhattan Beach, El Segundo, and Los Angeles, from Topaz Street Paseo De Las Delicias to Dewey Street Machado Drive/Commonwealth Avenue. Upgrade Americans with Disabilities Act (ADA) curb ramps and metal beam guardrail, repair concrete pavement, reconstruct bus pads , replace asphalt concrete pavement with Portland Cement Concrete (PCC) at intersections, cold plane grind pavement, and place Hot Mix Asphalt (HMA) and Rubberized Hot Mix Asphalt (RHMA) pavement to rehabilitate pavement.	21-22 201.121	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$1,960 \$6,770 \$780 \$8,770 \$1,900 \$45,900 \$66,080	Prior Prior Prior 21-22 21-22 21-22 21-22	\$1,960 \$6,770 \$780 \$9,154 \$1,900 \$47,900 \$68,464	Prior Prior Prior 21-22 21-22 21-22

Performance Measure

~~104.9 Lane mile(s)~~

79.9 Lane mile(s)

Note: A mile is being added to the southern end of this project from EA 32160/PPNO 07-4998 in order to better coordinate with the City of Redondo Beach with construction staging, permit acquisition, and construction administration. Construction support and construction capital are being adjusted to reflect the updated scope. Update to performance measures using the latest pavement survey data, as well as reflecting the scope change.

Performance Measure: Pavement		<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	<u>Unit</u> Lane mile(s)	1.6	73.2	5.1	79.9
Post Condition	Lane mile(s)	79.9	0.0	0.0	79.9

**List of 2018 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 07-LA-5 R59.7/R73.7 R59.5/R68.1 5013 0716000064 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 2.1 miles north of Templin Highway. Gold plane pavement and place Rubberized Hot Mix Asphalt concrete (RHMA), repair drainage systems, and perform upgrades to overhead signs, drainage curbs and guardrail. Replace approach slabs, upgrade drainage systems and guardrail, and repair and stabilize slope by performing rock scaling, installing geogrid and rockfall net, and constructing soldier pile wall.	20-21 201.121 201.150	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$100 \$6,000 \$250 \$7,200 \$250 \$43,080 \$56,880	Prior Prior Prior 20-21 20-21 20-21	\$100 \$6,000 \$250 \$6,800 \$10 \$34,000 \$47,160	Prior Prior Prior 20-21 20-21 20-21
<u>Performance Measure</u>							
442.0 Lane-mile(s)							
1 Location(s)							

Note: Change to scope and program because updated pavement survey data shows that pavement rehabilitation is not needed at this time, but drainage improvements, slope repair, guardrail, and sign improvements are still needed at this location. Update to description, postmiles, cost, and performance to align with the updated scope of work.

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)**

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
22 07-LA-10 28.2/31.0 5067 0716000175 32830	In the city of El Monte, from Baldwin Avenue Overcrossing to Route 605 at Rio Hondo Bridge No. 53-0657, East El Monte Overhead No. 53-0867 and San Gabriel River Bridge No. 53-0109L/R. Replace overhang joints with reinforced concrete closure pours.	21-22 201.119	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$813 \$3,927 \$915 \$3,526 \$1,262 <u>\$8,140</u> \$18,583	Prior 19-20 19-20 21-22 21-22 21-22	\$813 \$3,927 \$915 \$3,526 \$1,356 <u>\$8,140</u> \$18,677	Prior 19-20 19-20 21-22 21-22 21-22

Performance Measure

~~3~~ Bridge(s)

4 Bridge(s)

(Concurrent COS allocation under Resolution FP-19-62; March 2020.)

Note: Increase to R/W capital because additional easements, acquisitions, and utility work will be required that was not originally anticipated. Update to performance because the Left and Right (L/R) bridges were originally counted as one bridge rather than two.

Performance Measure: Bridges (4 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Square feet	252,478.0	0.0	0.0	252,478.0
Post Condition	Square feet	252,478.0	0.0	0.0	252,478.0

**List of 2018 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)				
23 08-SBd-15 R20.6/R20.9 R25.5L/R29.0 3006U 0817000032 1H390	Near Hesperia, from 0.6 mile north of Cleghorn Road Undercrossing to 0.5 mile south of Route 138 at the southbound Cajon Truck Facility; also from 0.5 mile south of Cajon Summit to 1.8 0.4 mile miles south north of Oak Hill Road (PM R25.5L/R26.8L); also from 0.6 mile north of Cleghorn Road Undercrossing to 0.5 mile south of Route 138 at the southbound Cajon Truck Facility (R20.6/R20.9). Construct new southbound weigh station and truck safety inspection facility at Cajon Pass and perform demo work at previous location, which was destroyed by the Blue Cut Fire close the existing southbound Cajon Truck Scale facility.	21-22 201.321	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$286 \$2,400 \$110 \$3,300 \$20 \$11,010 \$17,126	Prior Prior Prior 21-22 21-22 21-22 21-22	\$286 \$2,400 \$110 \$3,300 \$20 \$15,224 \$21,340	Prior Prior Prior 21-22 21-22 21-22

Performance Measure

1 Location(s)

Note: Change to postmiles to accommodate construction area signs for the new weigh station. Update to the description because the existing facility will be closed to the public and used by Caltrans maintenance rather than demolishing the facility. Increase construction capital because of cost increases in the weigh station hardware, an additional truss structure and lighting, additional concrete pavement at the scales, and other construction costs.

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)**

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
24 09-Ker-14 R4.7/R12.6 2633 0916000025 36740	In and near Near Rosamond and Mojave, from 1.4 miles south of Dawn Road Overcrossing (OC) to 0.5 mile north of Silver Queen Road OC. Rehabilitate lanes with Continuous Reinforced Concrete Pavement (CRCP), cold plane and overlay ramps with Rubberized Hot Mix Asphalt (RHMA-G). Replace guardrail, construct rumble strip, replace signs using retroreflective sheeting, and refresh pavement delineation.	19-20 201.122	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$370 \$1,460 \$250 \$0 \$22 \$0 \$2,102	Prior Prior Prior 19-20 19-20 19-20	\$370 \$1,460 \$250 \$4,750 \$22 \$66,763 \$73,615	Prior Prior Prior 19-20 19-20 19-20

(G13 Contingency)

Performance Measure

31.6 Lane mile(s)

(Concurrent CONST and CON ENG allocation under Resolution FP-19-61; March 2020.)

Note: Fully programming this previous G13 Contingency project.

Performance Measure: Pavement		<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
	<u>Unit</u>				
Existing Condition	Lane mile(s)	0.0	31.6	0.0	31.6
Post Condition	Lane mile(s)	31.6	0.0	0.0	31.6

25 10-SJ-99 41.5/29.4 14.4/29.4 3237 1017000015 1C760	In and near In and near Stockton and Lodi, at various locations from 0.3 mile south of Arch Road Undercrossing to south of Kettleman Lane. French Camp Road to Kettleman Lane; also at the Route 4 (PM R15.7 to R46.6) and Route 5 (PM 25.8 to 26.6) Interchange. Pave areas behind the gore; and slopes; and at narrow locations, and construct access gates and Maintenance Vehicle Pullouts (MVPs) to reduce maintenance and improve highway worker safety.	20-21 201.235	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$495 \$1,130 \$15 \$790 \$23 \$1,922 \$4,375	Prior Prior 19-20 20-21 19-20 20-21	\$495 \$1,130 \$15 \$790 \$23 \$1,922 \$4,375	Prior Prior 19-20 20-21 19-20 20-21
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Performance Measure

~~88 Location(s)~~

26 Location(s)

Note: Performance measure updated due to removal of 76 locations and 14 new locations added. The removed locations were or will be completed by other projects, identified as not necessary, or incorrectly listed in the programming initiation document. No significant cost savings is expected as the added locations have higher scope cost than the work being deleted. Update in post mile and description to encompass new limits of work.

**List of 2018 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	Near Long Barn, from 0.1 mile east of the east	20-21	PA&ED	\$687	Prior	\$687	Prior
10-Tuo-108	junction of Long Barn Road to 2.3 miles east of Cow	201.121	PS&E	\$1,152	Prior	\$1,152	Prior
R18.9/38.8	Creek Road. Pavement rehabilitation.		R/W Sup	\$8	Prior	\$8	Prior
0157			Con Sup	\$2,092	20-21	\$2,092	20-21
1013000266	<u>Performance Measure</u>		R/W Cap	\$88	20-21	\$8	20-21
46210	51.6 Lane mile(s)		<u>Const Cap</u>	<u>\$17,970</u>	20-21	<u>\$16,406</u>	20-21
	41.8 Lane mile(s)		Total	\$21,997		\$20,353	

Note: Reduce construction capital to account for recent unit pricing and updated quantities. Decrease in R/W capital because environmental mitigation and utility costs are lower than expected. Performance measure updated to match latest pavement survey data.

Performance Measure: Pavement		<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
	<u>Unit</u>				
Existing Condition	Lane mile(s)	32.4	9.4	0.0	41.8
Post Condition	Lane mile(s)	41.8	0.0	0.0	41.8

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency.)
 for Senate Bill 1 Projects**

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 05-SB-135 R7.2 2567 0514000065 1F830	Near Los Alamos, at San Antonio Creek Bridge No. 51-0006. Bridge seismic restoration. <u>Performance Measure</u> 4 Bridge(s)	19-20 201.113	PA&ED \$676 PS&E \$1,228 R/W Sup \$23 Con Sup \$640 R/W Cap \$132 <u>Const Cap \$1,978</u> Total \$4,677	Prior Prior Prior 19-20 19-20 <u>19-20</u>

Note: Delete project. A seismic analysis completed in 2019 determined the structure is not seismically deficient.

List of 2018 SHOPP Long Lead Project Amendments

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

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)				
1 02-Sis-96 43.4/57.0 3620 0216000025 1H590	Near Happy Camp, from 0.9 mile west to 0.4 mile west of Gordons Ferry Road at Cade Creek (PM 43.4 to 43.8); also near Seiad Valley at Portuguese Creek (PM 57.0). Replace deteriorated large-diameter culverts with natural-bottom structures, reduce fish passage barriers, and adjust new approaches.	23-24 201.110	PA&ED * PS&E * R/W Sup * Con Sup * R/W Cap * <u>Const Cap</u> Total	\$1,720 \$2,740 \$160 \$2,840 \$48 \$6,760 \$14,268	Prior 21-22 21-22 23-24 23-24 23-24 23-24	\$1,720 \$2,740 \$160 \$2,840 \$79 \$12,200 \$19,739	Prior 21-22 21-22 23-24 23-24 23-24

(Long Lead Project)

Performance Measure

2 Bridge(s)

* Phase NOT Programmed.

Note: After additional studies were completed, it was determined that longer full span bridges are needed at both locations, thus increasing the construction capital. Increase to R/W capital is for two additional temporary construction easements, and the increase in underground utility verification and utility relocation needs.

Performance Measure: Bridges (2 Bridge(s))					
	Unit	Good	Fair	Poor	Quantity
Existing Condition	Square feet	0.0	0.0	0.0	0.0
Post Condition	Square feet	8,844.0	0.0	0.0	8,844.0

2 02-Sis-96 76.8/78.0 3629 0216000040 1H360	Near Horse Creek, at Horse Creek Bridge No. 02-0117, from 0.4 mile west of Klamath River Bridge to 2.0 miles west of Kohl Creek. Replace bridge on new alignment to correct scour critical conditions, improve safety, and reduce operational deficiencies.	23-24 201.111	PA&ED * PS&E * R/W Sup * Con Sup * R/W Cap * <u>Const Cap</u> Total	\$2,640 \$2,810 \$830 \$4,300 \$993 \$19,760 \$31,333	Prior 21-22 21-22 23-24 23-24 23-24 23-24	\$2,640 \$2,810 \$830 \$4,300 \$993 \$32,300 \$43,873	Prior 21-22 21-22 23-24 23-24 23-24
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(Long Lead Project)

Performance Measure

1 Bridge(s)

* Phase NOT Programmed.

Note: After additional studies were completed on this long lead project, it was determined that a taller, longer span bridge will require higher cost precast girders at this location in order to accommodate a 100-year flood. This resulted in increased structures and roadway costs, thus increasing the construction capital.

Performance Measure: Bridges (1 Bridge(s))					
	Unit	Good	Fair	Poor	Quantity
Existing Condition	Square feet	0.0	0.0	12,572.0	12,572.0
Post Condition	Square feet	22,880.0	0.0	0.0	22,880.0

List of 2018 SHOPP Long Lead Project Amendments

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

Project No. Dist-Co-Rte PM PPNO Project ID EA	Project Location and Description of Work Performance Measure	FY Program Code	Project Costs (\$1,000)					
3 05-SB-101 R36.0/R37.0 2448 0513000018 1C950	Near Goleta, from 0.6 mile south and 0.4 mile north of Refugio Road Undercrossing No. 51-0215L/R and Canada del Refugio No. 51-0030S . Replace two bridges and upgrade bridge railing on one bridge. (Long Lead Project)	22-23 201.110	PA&ED	\$2,200	Prior	\$2,200	Prior	
			* PS&E	\$4,467	20-21	\$4,467	20-21	
			* R/W Sup	\$100	20-21	\$100	20-21	
			* Con Sup	\$4,900	22-23	\$4,900	22-23	
			* R/W Cap	\$622	22-23	\$622	22-23	
			* <u>Const Cap</u>	<u>\$34,640</u>	22-23	<u>\$34,640</u>	22-23	
			Total	\$46,929		\$46,929		

Performance Measure

~~2 Bridge(s)~~

3 Bridge(s)

* Phase NOT Programmed.

Note: Update description to include the bridge rail work on one bridge which was previously planned but left out of the project description.

Performance Measure: Bridges (3 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Square feet	0.0	2,573.0	35,606.0	38,179.0
Post Condition	Square feet	35,606.0	2,573.0	0.0	38,179.0

4 09-Mno-395 91.6/93.4 2460 0917000011 36800	Near Bridgeport, from Burcham Flat Road to 0.3 mile south of Route 395/108 Junction. Widen shoulders, install rumble strips, and correct superelevation at three curves. (Long Lead Project)	22-23 201.015	PA&ED	\$1,395	Prior	\$1,395	Prior
			* PS&E	\$1,764	20-21	\$1,764	21-22
			* R/W Sup	\$395	20-21	\$395	21-22
			* Con Sup	\$2,084	22-23	\$2,084	22-23
			* R/W Cap	\$1,855	22-23	\$1,855	22-23
			* <u>Const Cap</u>	<u>\$12,567</u>	22-23	<u>\$12,567</u>	22-23
			Total	\$20,060		\$20,060	

Performance Measure

~~55 Collision(s) reduced~~

19 Collision(s) reduced

* Phase NOT Programmed.

Note: Align PS&E and R/W support year with anticipated allocation request year. Update performance measure based on the most recent calculation guidelines.

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)
 for Construction Manager/General Contractor Project**

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 03-Sac-99 7.1/9.4 6912 0312000069 0F280	In and near Elk Grove, from 0.3 mile south of Dillard Road Overcrossing to 0.6 mile south of Grant Line Road (replace Cosumnes River Bridge No. 24-0020L/R, and Cosumnes River Overflow Bridge No. 24-0021L/R; upgrade bridge rails at Dillard Road Overcrossing No. 24-0163; construct new McConnell Overhead No. 24-0048L). Bridge seismic retrofit, bridge scour retrofit, bridge rail replacement, and bridge replacement. This is a Construction Manager/General Contractor (CMGC) project.	19-20 201.112	PA&ED PS&E R/W Sup * Con Sup R/W Cap * <u>Const Cap</u> Total	\$1,700 \$3,500 \$600 \$12,144 \$6,000 \$132,311 \$156,255	Prior Prior Prior 19-20 19-20 19-20	\$1,700 \$3,500 \$600 \$5,044 \$6,000 \$48,841 \$65,685	Prior Prior Prior 19-20 19-20 19-20

(G13 Contingency)

Performance Measure

5,946.0 Linear Feet

* Phase NOT Programmed.

Note: Split the Construction Manager/General Contractor (CMGC) parent project EA 0F280/PPNO 03-6912 into project EAs 0F284/PPNO 03-6912D and 0F286/PPNO 03-6912F as Early Work Package Numbers 4 and 6 to be constructed as independent construction contracts. Approved in June 2019 as a pilot process, this will allow the Department flexibility to split this project into early work packages within the year of delivery.

Performance Measure: Bridges (6 Bridge(s))					
	<u>Unit</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Quantity</u>
Existing Condition	Linear feet rail	2,762.0	2,756.0	428.0	5,946.0
Post Condition	Linear feet rail	5,946.0	0.0	0.0	5,946.0

**List of 2018 SHOPP Amendments
 (Cost, Scope, Schedule and Technical Changes. Includes Federal Emergency Relief.)
 for Construction Manager/General Contractor Project**

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)	
2 03-Sac-99 7.1/9.4 6912D 0319000204 0F284	In and near Elk Grove, from 0.3 mile south of Dillard Road Overcrossing to 0.6 mile south of Grant Line Road. Early Work Package No. 4 for Cosumnes River Bridge Construction Manager/General Contractor (CMGC) parent project EA 0F280. Construct bridge over the railroad at McConnell Overhead No. 24-0048L.	19-20 201.112	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$1,600 \$0 <u>\$18,610</u> \$20,210	19-20 <u>19-20</u>

Performance Measure
0.0 Linear Feet

(Concurrent CONST and CON ENG allocation under Resolution FP-19-61; March 2020.)

Note: Split the Construction Manager/General Contractor (CMGC) parent project EA 0F280/PPNO 03-6912 into project EA 0F284/PPNO 03-6912D to be constructed as an independent construction contract-Early Work Package No. 4. Approved in June 2019 as a pilot process, this will allow the Department flexibility to split this project into early work packages within the year of delivery.

3 03-Sac-99 7.1/9.4 6912F 0319000206 0F286	In and near Elk Grove, from 0.3 mile south of Dillard Road Overcrossing to 0.6 mile south of Grant Line Road. Early Work Package No. 6 for Cosumnes River Bridge Construction Manager/General Contractor (CMGC) parent project EA 0F280. Remove and replace Cosumnes River Bridge No. 24-0020L/R and Cosumnes River Overflow No. 24-0021L/R (structure work only).	19-20 201.112	PA&ED PS&E R/W Sup Con Sup R/W Cap <u>Const Cap</u> Total	\$0 \$0 \$0 \$5,500 \$0 <u>\$64,860</u> \$70,360	19-20 <u>19-20</u>
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Performance Measure
0.0 Linear Feet

(Concurrent CONST and CON ENG allocation under Resolution FP-19-61; March 2020.)

Note: Split the Construction Manager/General Contractor (CMGC) parent project EA 0F280/PPNO 03-6912 into project EA 0F286/PPNO 03-6912F to be constructed as an independent construction contract-Early Work Package No. 6. Approved in June 2019 as a pilot process, this will allow the Department flexibility to split this project into early work packages within the year of delivery.