

# 15-Year Maintenance Preservation Plan - Bridge of the Gods and Approaches

## Adopted by the Port of Cascade Locks Commission - Jan. 17, 2019

Port of Cascade Locks

1/18/2019

Legend	Tier 1 Expenditure	Port Funds
	Tier 2 Expenditure	Possible OR, WA, Fed. Funds

GROUP	NO.	Priority (L/M/H)	TYPE	PROJECT NAME	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
<b>OREGON ROADWAY</b>												
A	1	M	Enhance	Wa Na Pa & Toll Booth Road Intersection Improvements	\$ 1,800,000	\$ 909,000						
<b>TOLL FACILITIES</b>												
	2	L	Enhance	Toll Automation Design (Ultimate)		\$ 650,000						
	3	L	Enhance	Toll Automation & Infrastructure Improvements			\$ 4,250,000	\$ 1,086,000				
	4	M	Enhance	Point of Sale Integration	\$ 25,000							
	5	M	Maint.	Tolling System Maintenance: P-Square	\$ 32,760	\$ 33,907	\$ 35,093	\$ 36,322	\$ 37,593	\$ 38,909	\$ 40,270	\$ 41,680
	6	M	Maint.	Tolling System Maintenance: Kapsch	\$ 18,480	\$ 19,127	\$ 19,796	\$ 20,489	\$ 21,206	\$ 21,948	\$ 22,717	\$ 23,512
	7	M	Maint.	Tolling System Maintenance: Hood River	\$ 100,000	\$ 103,500	\$ 107,123	\$ 110,872	\$ 114,752	\$ 118,769	\$ 122,926	\$ 127,228
<b>BRIDGE OF THE GODS &amp; APPROACH STRUCTURES</b>												
	8	H	Maint.	Engineering Services (Basic Annual Contract)	\$ 75,000	\$ 77,625	\$ 80,342	\$ 83,154	\$ 86,064	\$ 89,076	\$ 92,194	\$ 95,421
	9	H	Maint.	WA Approach - Bridge Deck Overlay				\$ 109,000				
	10	M	Maint.	OR Approach - Bridge Deck Overlay & Joint Rehab			\$ 95,000					
	11	H	Maint.	Cantilever Truss Painting Projects	\$ 100,000	\$ 867,000	\$ 2,023,000	\$ 945,000	\$ 2,205,000	\$ 867,000	\$ 2,023,000	\$ 945,000
	12	H	Maint.	WA Approach - Truss Painting								
	13	H	Maint.	OR Approach - Girder Painting								
	14	H	Maint.	Deck Welding Repairs	\$ 51,750	\$ 53,561	\$ 55,436	\$ 57,376	\$ 59,384	\$ 61,463	\$ 63,614	\$ 65,840
	15	L	Maint.	Bridge Cleaning		\$ 7,490		\$ 8,014		\$ 8,575		\$ 9,176
	16	L	Maint.	Electrical & Navigation Light Maintenance					\$ 5,000			
	17	M	Retrofit	Seismic Retrofit Engineering					\$ 968,000			
	18	M	Retrofit	Seismic Retrofit Construction: Phase 1						\$ 5,887,500	\$ 5,887,500	
	19	M	Rehab.	Open Grid Deck Replacement								
<b>WASHINGTON ROADWAY</b>												
	20	L	Rehab.	WA BOG Sign Replacement		\$ 50,000						
	21	M	Maint.	WA Parking Lot Paving and Parking Blocks				\$ 124,000				
	22	L	Enhance	WA Signage Enhancements								
<b>Pedestrian Crossing</b>												
	23	H	Enhance	BOG Pedestrian Crossing Preliminary Design & Study	\$ 1,185,000							
	24	H	0	BOG Pedestrian Crossing Final Design & Construction		\$ 3,300,000	\$ 1,075,000	\$ 13,325,000	\$ 7,300,000			
<b>SUMMARY OF EXPENDITURES</b>					<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-2023</b>	<b>2023-2024</b>	<b>2024-2025</b>	<b>2025-2026</b>	<b>2026-2027</b>
Unanticipated					\$ 50,000	\$ 51,750	\$ 53,561	\$ 55,436	\$ 57,376	\$ 59,384	\$ 61,463	\$ 63,614
Tier 1 Expenditures					\$ 402,990	\$ 995,210	\$ 392,790	\$ 440,227	\$ 432,999	\$ 338,740	\$ 341,721	\$ 362,857
Total for Tier 1 & Pedestrian Crossing Expenditures					\$ 452,990	\$ 1,046,960	\$ 446,351	\$ 495,663	\$ 490,375	\$ 398,124	\$ 403,184	\$ 426,471
Tier 2 Expenditures					\$ 2,985,000	\$ 5,076,000	\$ 7,348,000	\$ 15,356,000	\$ 10,473,000	\$ 6,754,500	\$ 7,910,500	\$ 945,000
Total for Tier 1 & Tier 2 Expenditures					\$ 3,437,990	\$ 6,122,960	\$ 7,794,351	\$ 15,851,663	\$ 10,963,375	\$ 7,152,624	\$ 8,313,684	\$ 1,371,471

**Table Notes:**

\* All costs presented in this estimate are for planning purposes only. Actual costs will vary depending on the actual scope, market conditions, and the time implementation. Estimates include construction, contingency, and professional services as warranted.

\*\* The Port of Cascade Locks reserves the right to modify and make alterations to the 15-Year Plan as needed.

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Legend	Tier 1 Expenditure	Port Funds
	Tier 2 Expenditure	Possible OR, WA, Fed. Funds

													15-YR		
GROUP	NO.	Priority (L/M/H)	TYPE	PROJECT NAME	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	2032-2033	2033-2034	Total 15-Year Expenditure*	Changes from 10-Year Plan (Mar. 21, 2016) No Note = No change		
<b>OREGON ROADWAY</b>															
A	1	M	Enhance	Wa Na Pa & Toll Booth Road Intersection Improvements								\$ 2,709,000			
												Subtotal	\$ 2,709,000		
<b>TOLL FACILITIES</b>															
	2	L	Enhance	Toll Automation Design (Ultimate)								\$ 650,000			
	3	L	Enhance	Toll Automation & Infrastructure Improvements								\$ 5,336,000			
	4	M	Enhance	Point of Sale Integration								\$ 25,000			
	5	M	Maint.	Tolling System Maintenance: P-Square	\$ 43,139	\$ 44,649	\$ 46,211	\$ 47,829	\$ 49,503	\$ 51,235	\$ 53,028	\$ 632,127			
	6	M	Maint.	Tolling System Maintenance: Kapsch	\$ 24,335	\$ 25,186	\$ 26,068	\$ 26,980	\$ 27,925	\$ 28,902	\$ 29,913	\$ 356,584			
	7	M	Maint.	Tolling System Maintenance: Hood River	\$ 131,681	\$ 136,290	\$ 141,060	\$ 145,997	\$ 151,107	\$ 156,396	\$ 161,869	\$ 1,929,568			
												Subtotal	\$ 8,929,279		
<b>BRIDGE OF THE GODS &amp; APPROACH STRUCTURES</b>															
	8	H	Maint.	Engineering Services (Basic Annual Contract)	\$ 98,761	\$ 102,217	\$ 105,795	\$ 109,498	\$ 113,330	\$ 117,297	\$ 121,402	\$ 1,447,176			
	9	H	Maint.	WA Approach - Bridge Deck Overlay								\$ 109,000			
	10	M	Maint.	OR Approach - Bridge Deck Overlay & Joint Rehab								\$ 95,000			
	11	H	Maint.	Cantilever Truss Painting Projects	\$ 2,205,000	\$ 717,900	\$ 1,675,100					\$ 14,473,000			
	12	H	Maint.	WA Approach - Truss Painting			\$ 1,575,900	\$ 3,677,100				\$ 5,253,000			
	13	H	Maint.	OR Approach - Girder Painting					\$ 206,100	\$ 480,900		\$ 687,000			
	14	H	Maint.	Deck Welding Repairs	\$ 68,145	\$ 70,530						\$ 607,100			
	15	L	Maint.	Bridge Cleaning		\$ 9,818		\$ 10,505		\$ 11,240		\$ 64,819			
	16	L	Maint.	Electrical & Navigation Light Maintenance		\$ 5,875					\$ 6,903	\$ 17,778			
	17	M	Retrofit	Seismic Retrofit Engineering								\$ 968,000			
	18	M	Retrofit	Seismic Retrofit Construction: Phase 1								\$ 11,775,000			
	19	M	Rehab.	Open Grid Deck Replacement			\$ 2,050,000	\$ 2,050,000				\$ 4,100,000			
												Subtotal	\$ 39,596,872		
<b>WASHINGTON ROADWAY</b>															
D	20	L	Rehab.	WA BOG Sign Replacement								\$ 50,000			
	21	M	Maint.	WA Parking Lot Paving and Parking Blocks								\$ 124,000			
	22	L	Enhance	WA Signage Enhancements		\$ 12,150						\$ 12,150			
												Subtotal	\$ 186,150		
<b>Pedestrian Crossing</b>															
E	23	H	Enhance	BOG Pedestrian Crossing Preliminary Design & Study								\$ 1,185,000			
	24	H	0	BOG Pedestrian Crossing Final Design & Construction								\$ 25,000,000			
												Subtotal	\$ 26,185,000		
<b>SUMMARY OF EXPENDITURES</b>					<b>2027-2028</b>	<b>2028-2029</b>	<b>2029-2030</b>	<b>2030-2031</b>	<b>2031-2032</b>	<b>2032-2033</b>	<b>2033-2034</b>	<b>Total 15-Year Expenditure*</b>			
Unanticipated					\$ 65,840	\$ 68,145	\$ 70,530	\$ 72,998	\$ 75,553	\$ 78,198	\$ 80,935	\$ 964,784			
Tier 1 Expenditures					\$ 366,061	\$ 406,715	\$ 2,369,134	\$ 2,390,809	\$ 341,865	\$ 365,070	\$ 373,115	\$ 10,320,303			
<b>Total for Tier 1 &amp; Pedestrian Crossing Expenditures</b>					<b>\$ 431,901</b>	<b>\$ 474,860</b>	<b>\$ 2,439,664</b>	<b>\$ 2,463,807</b>	<b>\$ 417,418</b>	<b>\$ 443,268</b>	<b>\$ 454,050</b>	<b>\$ 11,285,087</b>			
Tier 2 Expenditures					\$ 2,205,000	\$ 717,900	\$ 3,251,000	\$ 3,677,100	\$ 206,100	\$ 480,900	\$ -	\$ 67,386,000			
<b>Total for Tier 1 &amp; Tier 2 Expenditures</b>					<b>\$ 2,636,901</b>	<b>\$ 1,192,760</b>	<b>\$ 5,690,664</b>	<b>\$ 6,140,907</b>	<b>\$ 623,518</b>	<b>\$ 924,168</b>	<b>\$ 454,050</b>	<b>\$ 78,671,087</b>			

**Table Notes:**

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