



Yamhill County Public Works Department

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YAMHILL COUNTY BOARD OF COMMISSIONERS COVERSHEET

DATE: February 2, 2023
TO: Board of Commissioners
FROM: Mark Lago, Public Works Director
RE: Capital Improvement Projects (CIP) for 2023-24

BACKGROUND:

Capital Improvement Projects (CIP) for 2023-24 have three sections: Overlays, Chip-seals, and Bridges.

The County hired Capital Assets and Pavement Services (CAPS) in the summer of 2020 to evaluate, inspect, and update the pavement management system for all paved roads in the County, which is approximately 410 road miles.

The objective of this pavement management strategy is to design a more cost-effective, "best-first" approach. This philosophy prioritizes treating lower-cost roads with preventative maintenance treatments, such as chip and crack seals, to extend the life of the road before it deteriorates to a state where more costly rehabilitation and reconstruction treatments are required.

The County's Road system has a Pavement Condition Index (PCI) rating of 76 out of 100, which is in the "good" category. The goal is to try and keep the PCI as close to 76 as possible over the next 5 years.

This pavement management system report does not include any upgrading of gravel roads to paved roads. Upgrading gravel roads requires much more attention to the sub-base, shaping/profile, and drainage, which require time, design, and funds. Upgrading gravel roads to paved surfaces is a goal, but because our bridges and extending the useful life of our paved roads have been neglected for some time now we are prioritized them ahead of upgrading gravel roads.

BD. 23-39

Chip-seal projects:

The chip-seal roads from 2022 and 2023 were combined, then divided into a north and south section to save mobilization costs as well as time. This year we are proposing to complete the 17-miles in the south section (see attached for 2023-24 Chip Seal Projects).

Overlay projects:

This year we propose to complete 15.8 miles of asphalt overlays (see attached for 2023-24 Overlays Projects).

Bridges:

The County teamed up with a former ODOT bridge maintenance engineer that is now working for David Evans and Associates (DEA) to develop a Bridge Capital Improvement Plan (BCIP) for the next five years. This plan used the bridge inspection data for all the 133 bridges in the County. The inspection data is compiled by a contracted bridge inspector every two years, with some more closely monitored bridges every year (see attached 2023-24 Bridge Replacement Projects).

The CIPs for 2023-24 were presented to the Road Improvement Advisory Committee (RIAC) at their December 2022 meeting. RIAC was in support of the proposed CIPs for 2023-24.

STAFF RECOMMENDATION:

Approve the Capital Improvement Projects (CIP) for 2023-24

FISCAL IMPACT:

Approximately \$5,242,400 will come out of the Road Fund - Capital Outlay account (These projects are in the proposed 2023-24 budget)

ATTACHMENTS:

2023-24 Chip, Crack, and Fog Seal Projects
2023-24 Overlay Projects
2023-24 Bridge Replacement Projects

Accepted by Yamhill County
Board of Commissioners on
2.2.23 by Board Order
BO. 23-39

2023 CIP Projects

Chip and Fog Seal

FC - A - Arterial >2000, C - Collector 2000-400, R - Rural <400

No.	Road Name	FC	Begin	End	Length (FT)	Ave Width	Area (SF)	Area (SY)	Est. LF of Striping	2023 Bid Pricing		Projected Cip Seal Cost
										Est. Striping Cost	2023 Bid Pricing	
1	Fort Hill Road Rd	C	Willamina Creek Rd	Dent	2,361.0	20.0	47,220.0	5,247	5,072	\$ 1,268	\$ 3.20	\$ 16,789
2	Wilamina Creek Rd	C	Fort Hill Road	Buck Hollow	22,950.0	20.0	459,000.0	51,000	83,483	\$ 20,871	\$	\$ 163,200
3	Cherry Hill Rd	R	Hwy 18	End of Gravel	7,067.0	22.0	155,474.0	17,275	11,750	\$ 2,938	\$	\$ 55,280
4	Dejong Rd	C	County Line	Bridge	4,929.0	20.0	98,580.0	10,953	12,565	\$ 3,141	\$	\$ 35,051
5	McCabe Chapel Rd	R	Oldsville Rd	Masonville Rd	7,971.0	20.0	159,420.0	17,713	15,498	\$ 3,875	\$	\$ 56,683
6	Youngberg Hill Rd	R	Masonville Rd	Peavine Rd	9,452.0	20.0	189,040.0	21,004	39,195	\$ 9,799	\$	\$ 67,214
7	Baker Creek Rd	C	High Heaven	New O.L. (Powerhouse Hill)	10,348.0	20.0	206,960.0	22,996	10,463	\$ 2,616	\$	\$ 73,586
8	Airport Rd	R	Hwy 233	SE Cruickshank Rd	11,618.0	20.5	238,169.0	26,463	6,359	\$ 1,590	\$	\$ 84,682
9	Alderman Rd	A	End new AC (Kimsey Rd)	Wallace Rd	4,250.0	20.0	85,000.0	9,444	2,216	\$ 554	\$	\$ 30,222
10	Unionvale Rd	R	End gravel	Hwy 221	2,988.0	20.0	59,760.0	6,640	21,026	\$ 5,257	\$	\$ 21,248
11	Wheatland Rd	C	Hwy 221 Wallace Rd	Wheatland Ferry Ramp	5,605.0	22.00	123,310.0	13,701	13,690	\$ 3,423	\$	\$ 43,844
Subtotal for Medium Chip and Fog							1,821,933	202,437		\$ 55,329	\$	\$ 647,798
Total Estimated Cost for Chip Seal and Paint					17.0	Miles				\$	\$	\$ 703,128

Exhibit "A"

FY 2023-2024 Overlays

	2023	2021	Increase
2" Overlay (\$/yd)	\$10.46	\$7.80	134%
3" Overlay (\$/yd)	\$18.51	\$12.66	146%

Cost includes Traffic Control, Pre-levels, Mon. boxes, & cold planing and Striping

2" OVERLAY							
Road Name	Length (FT)	Width (FT)	Area (SQYD)	Paint L.f. 4"	EST. Cost	Begin	End
1. GOPHER VALLEY RD	10948	20	24329	63,654	\$ 342,911	BEAVER CR RD	THOMPSON
2. CHRISTENEN RD	6815	20	15,144	21,892	\$ 206,331	HWY 153	BEGIN CHIP SEAL
3. WHITESON RD	6614	20	14,698	20,410	\$ 203,143	HWY 99W	HWY 233
4. MOORES VALLEY RD	17212	22	42,074	23,725	\$ 516,768	OLIVE ST	PUDDY GULCH RD
5. RED HILLS RD	5369	20	11,931	7,961	\$ 153,613	SUNNYCREST RD	HWY 240
6. BALD PEAK RD	11283	20	25,073	4,930	\$ 294,253	WASHINGTON COUNTY	KINGS GRADE
		TOTAL	108,920	142,572	\$ 1,717,020		
3" OVERLAY							
7. WEST SIDE RD	12200	22	29,822	31,662.0	\$ 538,315	POVERTY BEND RD	MEADOW LAKE
	14.5 Miles	TOTAL	29,822		\$ 538,315		

3" OVERLAY BID ALTERNATIVE							
8. ALBERTSON ROAD	6744	22	16,485	13,488.0	\$ 303,912	BALD PEAK	MID PT. ON HILL
	15.8 Miles	TOTAL	16,485		\$ 303,912		
TOTAL ESTIMATE FOR ROADS 1-8					\$ 2,559,247		

Exhibit "A"

Bridge Replacement List:

BRIDGE #	STRUCNAME	Replacement Year	NBI Status	NBI Deck	NBI Super	NBI Sub	YEAR BUILT	ADT	# of Maint Recs	# Priority Maint Recs	# Priority >4	Proposed Length	Proposed Width	PE	CN	Replacement Cost	Notes
11501	Deer Creek, Deer Creek Park Rd	2022	NBI	7	6	6	1967	37	10	4	1	73	16	\$ 300,000	\$ 645,000	\$1,145,000 \$115K YC	SFLP Grant 90/10. Construction complete Spring 2023. \$200K material acquisition by YC.
11822	Deer Creek, Gopher Valley Rd @ MP 8.80	2023	NBI	5	4	5	1962	274	7	3	2	47	30	\$ 100,000	\$ 800,000	\$ 900,000	Replacement in design. Proposed width from SOW, length is estimated.
11502F	Rowland Creek, NW Pike Rd (County Rd 7)	2024	Non-NBI	7	7	2	1959	317	6	3	3	32	30	\$ 200,000	\$ 400,000	\$ 600,000	Design/Bid, begin Construction. Materials on Hand, work outside in-water work window
11517	Turner Creek, Pike Rd at Rocky Ford	2024	Non-NBI	6	4	5	1959	785	6	2	0	41	24	\$ 80,000	\$ 400,000	\$ 480,000	ODOT identified this bridge as possible closure or Load Rating. Bridge was prioritized over 11824. (Proposed Superstructure replacement only)
11824	Small Stream, SE Stringtown Rd (County Rd. 32)	2025	Non-NBI	6	6	3	1962	164	8	5	2	36	30	\$350,000	\$800,000	\$1,150,000	Channel beams on timber abutments. Approachs are settling and rotating. Widespread defects. Replacement Candidate
11629	Ash Swale, Patty Ln	2027	NBI	6	6	4	1958	129	5	3	1	142	32	\$ 80,000	\$ 510,000	\$ 590,000	ODOT selected for replacement. Total cost estimate = \$5,720,000. Match is \$590,000
11526	North Yamhill River, Old Railroad Grade Rd	2027	NBI	5	6	5	1972	244	13	11	3	175	32	\$ 90,000	\$ 630,000	\$ 720,000	Being scoped by ODOT for repalcement funding. Total Cost Estimate = \$6,980,000. Match is \$720,000. Widespread defects. This bridgehas been approved. ODOT Working on IGA

Exhibit "A"