

COUNCIL REPORT

To: Mayor and Council

From: Operations

Date: June 19, 2024

Subject: 2024 Paving Program Update

RECOMMENDATION:

THAT Council receives this report for information.

BACKGROUND:

In the spring of 2023, the District contracted L&M Engineering Limited (L&M) to assist in the development of a pavement management plan to inform the District’s annual capital expenditures towards paving. L&M advised that it would be beneficial to start with a Pavement Condition Assessment. A Pavement Condition Assessment, along with incorporation of the assessment into the District’s existing asset management program would add value by allowing a prioritization of paving projects based on age of infrastructure, traffic usage, planned or future infrastructure replacement projects or other variables. In the fall of 2023, the District contracted International Cybernetics Canda Inc. (ICC) to complete a Pavement Condition Assessment.

2023 Pavement Condition Assessment Results

The assessment findings were delivered to L&M and the District for review in early 2024. Each segment of road was given a Pavement Condition Index (PCI) rating. Table 1 outlines what the typical categories of PCI mean and recommendations for maintenance and repair going forward.

Table 1. Pavement Condition Index Categories

Category	Typical Distresses and Recommendations	PCI Range
Excellent	Like new condition – little to no maintenance required. Monitor condition or preventive maintenance.	85 < PCI ≤ 100
Very Good	Minor cracking, raveling. Routine or preventive maintenance. <i>E.g., Crack sealing, surface treatment</i>	70 < PCI ≤ 85
Good	Minor to moderate cracking and low severity LAD such as alligator cracking and rutting. Surface treatments with localized repairs and overlays. <i>E.g., Surface treatments, localized surface patching, thin overlay</i>	60 < PCI ≤ 70

Fair	More extensive and severe longitudinal and transverse cracking, as well as moderate severity LAD. Localized repairs or major rehabilitation. <i>E.g., Localized surface and/or full-depth patching</i>	50 < PCI ≤ 60
Marginal	Localized high-severity alligator cracking, and rutting Major rehabilitation. <i>E.g., Localized full-depth patching, mill and overlay, traditional overlay</i>	40 < PCI ≤ 50
Poor	A greater extent of severe alligator cracking, rutting Major rehabilitation. <i>E.g., More extensive full-depth patching, mill and overlay, traditional overlay</i>	25 < PCI ≤ 40
Very Poor	Extensive and severe alligator cracking, more extensive and deeper rutting, and potholes. Major rehabilitation. <i>E.g., Full-depth reclamation, reconstruction</i>	0 < PCI ≤ 25

Map 1 attached to this report provides a visual overview of the condition of the District's townsite road network, based on the above PCI ratings.

2024 Paving Program

L&M Engineering has recommended the following program be completed this year based on the pavement condition assessment and discussion with Public Works and the contractor to ensure efficiency, no duplication of works, and to get as much done as possible with the funding available. GISID# references in the table below can be referenced on Map 1 attached to this report. Work is anticipated to start late June and be completed before snowfall.

First Consideration: Any area with a less than 50 PCI rating

GISID#	Street	Area
1068	Scovil	1,081 m ²
1130	Summit	3,165 m ²
1137	Blackwater	3,135 m ²
1070	Mugaha	824 m ²
1071	Cut Thumb Pl	673 m ²

Second Consideration: Any area with a PCI rating between 50 – 60

GISID#	Street	Area
1110	Scott	2,408 m ²
1164	Rainbow	1,417 m ²

Third Consideration: Collector Roads (primarily) that will see more traffic than the majority of the other Year 1 roads slated for curb relief milling

GISID#	Street	Area
1075	Nation	2,087 m ²
1151	Babine	1,222 m ²
1178	Munro	3,075 m ²

2024 Paving Program Budget

GISID#	Road Name	Paving (m ²)	Price per Site
1068	Scovil	1081	\$ 58,412.92
1070	Mugaha	824	\$ 45,168.38
1071	Cut Thumb	673	\$ 36,891.17
1075	Nation	2087	\$ 88,452.24
1110	Scott	2408	\$ 130,118.69
1130	Summit	3165	\$ 171,023.94
1137	Blackwater	3135	\$ 169,402.86
1151	Babine	1222	\$ 50,155.84
1164	Rainbow	1417	\$ 76,569.01
1178	Munro	3075	\$ 130,307.65
SUBTOTALS		19087	\$ 956,502.70
		Mobilization	\$ 28,825.00
		TOTAL	\$ 985,327.70

2023 – Carry Over Projects

In addition, the District had projects that were unable to be completed in 2023 and will also be added to the workplan in 2024. The carry-over projects in the amount of \$676,112 from 2023 are as follows and should be completed by end of June 2024:

Road Paving: Skeena Drive 11m W. from Centennial Intersection
Stuart Drive Offset Cul-de-sac 50m

Asphalt Pathway: Mackenzie avenue W. 1170m – Pioneer to McIntyre
Mackenzie Avenue E. 360m – Mall Entrance to Stewart

Asphalt Sidewalk with new Curb and Gutter: Centennial Drive 190m
Skeena Drive 99m W. from Centennial Intersection



BUDGETARY IMPACT:

The District allocated \$1,676,112 from the Community Works Gas Tax Reserve Fund and the General Capital Reserve to complete the 2023 and 2024 paving programs.

COUNCIL PRIORITIES:

Community and Social Development

- Our investment in the municipality's services and infrastructure, our commitment to principles of social equity and well-being, and our belief in the value of resident engagement, creates a healthy community in which everyone feels valued and enjoys a high quality of life.

RESPECTFULLY SUBMITTED:

Joe Murray, Director of Operations

Reviewed By: Corporate and Financial Services

Approved By: Chief Administrative Officer