

Transportation Budget – 2021 - Operating		
Project Name	Project Description	Alignment to Strategic Plan
Guide Rail Repair and Replacement  \$30,000	The Township has approximately 2,000m of guide rails that are deemed to be in poor or very poor condition. This represents 37% of our current inventory. Public Works staff will be continuing the process of replacing a portion of the failed sections of guide rail and instituting an annual inspection and maintenance program to extend the life of these assets.	Replacing and maintain guide rails is an integral part of helping up to achieve our objective of having safe and well-maintained roads.
GIS  \$20,500 (NWMO Funding)	<p>Despite the issues surrounding the COVID-19 pandemic, we were able to hire a local summer student that successfully collected all existing guide rails and most of the culverts on Township roadways.</p> <p>If the funding request is approved by NWMO, we will be in position to hire another summer student in 2021 to continue developing our asset collection plan and purchase mobile devices to improve the operational efficiency of our water/wastewater and road maintenance operations.</p>	
Waste Oil Collection  \$10,000	Public Works is working on a plan to ensure used oil is collected and disposed of in a safe and responsible manner at the Public Works sheds located in Ripley and Holyrood.	
Yard Waste Collection Depots  \$35,000	Due to strong public support of yard waste disposal areas that are available 24/7 from spring to fall, Township staff will be establishing permanent disposal sites in 2021. Further details are included in a separate staff report.	
2021 Bridge Inspections  \$25,000	All bridges and culverts than are 3.0m or greater in diameter must be inspected by a Professional Engineer every 6 years in accordance with the Ontario Structure Inspection Manual (OSIM). The last inspection was in 2015, so another inspection will need to be conducted in	Action Item P5.3: Bridge Strategy

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	<p>2021. The inspection reports are required to provide a list of structures that are recommended for rehabilitation or replacement in a 1-5 and 6-10 year range.</p> <p>In addition to the standard report, Township staff will be working with our consulting engineers, B.M. Ross and Associates, to develop a long term strategy for bridge maintenance over a longer period of time, with a focus on “high priority” structures that are located on concession roads and high volume sideroads.</p>	

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<p>Asphalt Paving</p> <p>2021: \$900,000</p>	<p>The proposed 2021 Budget includes paving the remaining 5.3 km portion of Kairshea Ave that is currently gravel from 1 km west of Paradise Lake St. to Wolfe St. Also included is a topcoat on the existing paved portion east of Bruce Road 1 up to the proposed gravel pit location.</p> <p>Also included in the proposed 2021 Budget is topcoat paving on Outram St., Willoughby St. and Inglis St. in Lucknow. These streets were reconstructed in 2018 and 2020.</p> <p>Township staff are currently in the process of analysing the data collected from the road condition assessment study which was completed on our paved roads in 2020. A recommendation for future paving projects will be brought forward during 2022 budget deliberations.</p>	<p>Action item: A4.2 Pave Concessions.</p>

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	An analysis of the cost of gravel road maintenance is contained in the separate staff report.	
Ripley Main Intersection  \$290,000	<p>The interlocking brick intersection of Huron St. and Queen St. in Ripley has become a significant maintenance issue and staff are currently reviewing various options for the replacement of the bricks. Also included with this project is the replacement of the interlocking brick crosswalks at the intersection of Jessie St. and Huron St. the same surface as the main intersection. Concrete and asphalt surfaces are currently in consideration.</p> <p>This is a difficult project to determine construction estimates due to the lack of comparable projects, especially if a concrete surface is selected. The project may have to be deferred or revised substantially if the tender results are significantly over budget.</p>	Replacing the Ripley Main Intersection aligns with our objective of having safe and well-maintained roads.
Bruce Beach Municipal Drain  \$400,000	The first phase of the construction of the Bruce Beach Municipal Drain is scheduled to begin in 2021. This is to include the construction of the storm water detention pond on the east side of Lake Range Dr. and the rehabilitation of the existing ravine on the west side. It is unlikely that the second phase of this project that will include modifying the outlet and improving drainage to properties on Bruce Beach Road near Concession 8 will be constructed in 2021.	
Park Street Municipal Drain  \$230,000	The planning process for the replacement of the existing Park Street Drain, Ripley Street Drain and the Harris Award Drain in the community of Ripley is ongoing. It is unclear if this project will begin in 2021 at this point. The Drainage Engineer has provided an updated estimate for	

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	the Township's portion of this project, which is included in the proposed 2021 Capital Budget.	
Melville Lane Reconstruction  \$195,000	The condition of the asphalt surface on Melville Lane between Jessie St. and Queen St. in Ripley is in very poor condition and is need of replacement, especially after being used as a detour route during the Ripley Main Intersection project. The proposed 2021 Capital Budget includes reconstructing this roadway with curb and gutter and a sidewalk which will significantly improve road surface drainage and enhance pedestrian safety.	Reconstructing Melville Lane aligns with our objective of having safe and well-maintained roads. The addition of a sidewalk enhances the accessibility of our community.
Tanglewood Dr. Ridgewood Rd. Reconstruction  \$8,000	The second phase of the Point Clark reconstruction project that began in 2020 is scheduled to be completed in 2022. The scope of work is to include the reconstruction of Tanglewood Dr. from Laidlaw Pl. to the east limit, Ridgewood Rd. from Tanglewood Dr. to Attawandaron Rd. and Jardine Pl. The project will include a new storm sewer and curb and gutter, which is consistent with the 2020 project. The only work scheduled for 2021 includes the relocation of buried telecommunications cables by Rogers Communications. The amount included in the 2021 Capital Budget includes the Township's portion of the work, which is approximately 50% of the total cost.	Reconstructing Tanglewood Dr., Ridgewood Rd. and Jardine Pl. aligns with our objective of having safe and well-maintained roads
Ripley Trunk Storm Sewer  2021: \$640,000	The replacement of the existing trunk storm sewer south of the Park St. and McGill St. intersection in Ripley is scheduled to be completed in the fall of 2021. The existing 300mm diameter pipe is to be replaced with a 750mm dia. pipe from Park Street to the Fair Municipal Drain south of Ripley. Township staff are currently working on negotiating an easement agreement with the landowners. This project will allow for the eventually reconstruction of Park St., McGill St, Gladstone St., James St. and Tain St.	The reconstruction of streets in the southwest corner of Ripley aligns with our objective of having safe and well-maintained roads. The addition of a sidewalk also enhances our accessibility.

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	with an urban cross-section that will significantly improve surface drainage and pedestrian safety.	
Boiler Beach Road Reconstruction  \$30,000	<p>Township staff are working with engineers on creating a preliminary design for the reconstruction of Boiler Beach Road from Con. 10 to the Kincardine boundary. There are significant challenges with the lack of road allowance width that can be improved. The current road allowance will only provide limited parking and will not allow for a continuous multi-use path. As per Council direction, Township staff are in discussion with a traffic consultant to determine the viability of converting Boiler Beach Road to a one-way road.</p> <p>The 2021 Capital Budget includes allowances for engineering and potential legal costs for this project.</p>	Action item: A4.2 Parking on Boiler Beach Road.
Gravel Pit Licence Applications/ Amendments  \$100,000	Township staff are currently working towards a Class A gravel extraction licence for the Kairshea property that was purchased in 2019 and a below water table licence for the current Kinloss Gravel Pit. More studies are required and borehole drilling on both properties will need to be completed in 2021. Due to the backlog of applications at the MNRF and the changes to the Aggregate Resources Act that comes into effect in April 2021, it appears unlikely that a permit will be received in 2021.	
Ripley Sidewalks  \$130,000	The proposed 2021 Capital Budget includes installing new sidewalks on the west side of William St. N from Queen St. to Finlay St. and the north side of Queen St. from William St. N to Lewis Park in order to provide a link between the existing sidewalk on Queen St. and the new sidewalk on Finlay St.	The addition of a sidewalks enhances the accessibility of our community.

Lakeshore Shed \$200,000	The 2021 Capital Budget has allocated funds to either construct a structure or lease a suitable private building that has the capacity to store two plow trucks, a one tonne plow, a front-end loader and a stockpile of treated sand. Further details are provided in a separate staff report.	
Bridge Repairs \$201,000	<p>Township staff have decided to focus on the replacement of road culverts that are less than 3m (10 feet) in diameter and transfer of portion of the Federal Gas Tax revenue to future years when larger bridge projects are planned such as the rehabilitation of H38 on Lake Range Drive that is currently scheduled in 2023 at an expected cost of \$610,000.</p> <p>The most significant culvert that is planned for replacement in 2021 is a 1.8m (6 foot) diameter corrugated steel culvert on Con. 4 approximate 50m east of Bruce Road 7. Township staff believe that this culvert is likely undersized based on the current storm modelling procedures. An engineer will be analyzing the watershed and assisting staff will preparing a final design and obtain all necessary permits.</p>	

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