Established 1793 Incorporated Wolford 1850 Merrickville 1860 Amalgamated 1996



VILLAGE OF MERRICKVILLE-WOLFORD

Agenda for Council Council Chambers

Regular Council Meeting 7:00 p.m.

Monday, August 14, 2023

IMPORTANT NOTICE: This meeting will be held in person and will be open to the public in the Council Chambers. It will also be recorded and livestreamed electronically on the "Village of Merrickville-Wolford" YouTube channel accessible by clicking <a href="https://example.com/here

- 1. Call to Order
- 2. Disclosure of Pecuniary Interest and the general nature thereof

local board employees.

3. Approval of the Agenda

4. In-Camera	1. Advice that is subject to solicitor-client privilege, including communications
	necessary for that purpose.
	2. Personal matters about an identifiable individual, including municipal or

5. Minutes	Approval of Minutes – special Council meeting of July 10, 2023
	Approval of Minutes – regular Council meeting of July 10, 2023
	Approval of Minutes – special Council meeting of July 25, 2023

Receipt of Library Board Minutes – meeting of March 8, 2023
Receipt of Library Board Minutes – meeting of June 6, 2023
Receipt of Library Board Minutes – meeting of June 27, 2023

6. **Planning** Report – Comments on Draft Plan of Subdivision (Carley's Corners)

Report – Consent Application B-60-23 (Turgeon)

STP Capacity Consultant Verbal Update – Jp2g Consultants Inc.

7. **Public Works** 2023 Gravel Roads Needs Study

Report PW-06-2023: Paving of Read Street

Report PW-05-2023: 1st & 2nd Quarter Operations Department Report

8. **Delegations** Dr. Linna Li – Leeds, Grenville & Lanark District Health Unit

Tina Stevens - Valley Heartland CFDC

9. **Fire Department** Report FD-01-2023: 1st & 2nd Quarter Fire Department Report

10. **Finance** Report FIN-08-2023: 1st and 2nd Quarter Finance Department Report

11. **CBO** Report CBO-02-2023: 1st and 2nd Quarter Building Department Report

12. **Correspondence** Merrickville European Classic Car Show - Fee Waiver Request Letter

Merrickville Artists' Guild - Signage By-law Exemption Request

TNIM – Community Centre Boxcar Request Letter

13. CAO By-law 41-2023: Establishment of Blockhouse Museum Board

14. **Notices of Motion** Pride Month (Deputy Mayor Barr)

Replacement of Baseball Diamond Lights (Mayor Cameron)

Municipal Wide Garbage and Recycling Service (Mayor Cameron)
Request RFQ to Improve Road Infrastructure (Mayor Cameron)

Committee of the Whole (Councillor Ireland)

15. **Deferred Items** Formation of Finance Committee (Councillor Ireland)

16. Public Question Period to Council

17. Next meeting of Council: Monday, September 11, 2023 at 7:00 p.m.

18. **Confirming By-Law:** 40-2023 re: Confirm Proceedings of Council meeting of August 14, 2023

19. Adjournment

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby approve the agenda of the regular Council meeting of August 14, 2023 as:	
	circulated.
	amended.

Carried / Defeated

Michael Cameron, Mayor

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby move to an "In-Camera" session at _____p.m. under Section 239 (2) of the *Municipal Act, 2001,* as amended, to address matters pertaining to:

- 1. Advice that is subject to solicitor-client privilege, including communications necessary for that purpose.
- 2. Personal matters about an identifiable individual, including municipal or local board employees.

Carried / Defeated

Michael Cameron, Mayor

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby rise and report from the "In Camera" session of the regular Council meeting, with staff being given direction, at _____p.m.

Carried / Defeated	
	_
Michael Cameron, Mayor	

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

	cil of the Corporation of the Village of Merrickville-Wolford does hereby ne Minutes of the special Council meeting of July 10, 2023, as
cii	culated.
ar	nended.

Carried / Defeated	
Michael Cameron, Mayor	

The Corporation of the Village of Merrickville-Wolford

Monday, July 10, 2023, 6:00 p.m.

Chaired by: Mayor Michael Cameron

Members of Council: Deputy Mayor Anne Barr

Councillor Margaret Gural Councillor Stephen Ireland Councillor Ronnie Maitland

Staff in Attendance: Doug Robertson, CAO/Clerk

Julia McCaugherty-Jansman, Deputy Clerk Forbes Symon, Senior Planner, Jp2g Consultants

Guests: Kate Folk, Applicant

Marilou Arends, Applicant

IMPORTANT NOTICE: This meeting was held in person and was open to the public in the Council Chambers. It was recorded and livestreamed electronically on the "Village of Merrickville-Wolford" YouTube Channel accessible by clicking here.

Disclosure of Pecuniary Interest and the general nature thereof: None.

Approval of Agenda

R-213-23 Moved by Councillor Ireland, Seconded by Councillor Gural

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby approve the agenda of the special Council meeting of July 10, 2023, as circulated.

Carried.

Move to Public Meeting

R-214-23 Moved by Deputy Mayor Barr, Seconded by Councillor Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby move to a Public Meeting under Section 34 of the *Planning Act*, as amended.

Carried.

Michael Friend, 136 Rideau Street, provided comment pertaining to the ZBA-02-2023 file. He submitted written correspondence for Council consideration, as well as provided comments verbally during the public meeting expressing opposition of the application and encouraged Council to defer the application.

Return to Special Meeting of Council

R-215-23 Moved by Deputy Mayor Barr, Seconded by Councillor Ireland

Be it hereby resolved that:

Whereas the Council of the Corporation of the Village of Merrickville-Wolford now closed the statutory public meeting held this 10th day of July, 2023, under Section 34 of the Planning Act to consider zoning by-law amendment applications for lands described as:

205 Mill Street, Village of Merrickville-Wolford, described as Plan 6 Lot 2 Lot 3 Pt Lot 1; Pt Lot 4 in the Village of Merrickville-Wolford.

and now returns to the special meeting of Council.

Carried.

By-Laws

R-216-23 Moved by Deputy Mayor Barr, Seconded by Councillor Ireland

Be it hereby resolved that:

By-law 36-2023, being a by-law to rezone:

205 Mill Street, Village of Merrickville-Wolford, described as Plan 6 Lot 2 Lot 3 Pt Lot 1; Pt Lot 4 in the Village of Merrickville-Wolford

be read a first and second time, and that By-law 36-2023 be read a third and final time and passed.

Carried.

Confirming By-Law

R-217-23 Moved by Councillor Ireland, Seconded by Councillor Maitland

Be it hereby resolved that:

By-law 37-2023, being a by-law to confirm the proceedings of the special Council meeting of July 10, 2023, be read a first and second time, and that By-law 37-2023 be read a third and final time and passed.

Carried.

Adjournment

R-218-23 Moved by Councillor Gural, Seconded by Councillor Maitland

Be it hereby resolved that:

This special meeting of the Council of the Corporation of the Village of Merrickville-Wolford does now adjourn at 6:52 p.m. until the call of the Mayor subject to need.

Carried.

Michael Cameron, Mayor
•
Doug Robertson, CAO/Clerk

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby approve the Minutes of the regular Council meeting of July 10, 2023, as	
circulated.	
amended.	

Carried / Defeated
Michael Cameron, Mayor

The Corporation of the Village of Merrickville-Wolford

Monday, July 10, 2023, 7:00 p.m.

Chaired by: Mayor Michael Cameron

Members of Council: Deputy Mayor Anne Barr

Councillor Margaret Gural Councillor Stephen Ireland Councillor Ronnie Maitland

Staff in Attendance: Doug Robertson, CAO/Clerk

Julia McCaugherty-Jansman, Deputy Clerk Kirsten Rahm, Treasurer/ Manager, Finance

Guests: Forbes Symon, Senior Planner, Jp2g Consultants

Jamie Pollock, Auditor, MNP Jacob Hanlon, Food Cycle Science Jacqueline Johnston, Forbes Bros Group

IMPORTANT NOTICE: This meeting was held in person and was open to the public in the Council Chambers. It was recorded and livestreamed electronically on the "Village of Merrickville-Wolford" YouTube Channel accessible by clicking here.

Disclosure of Pecuniary Interest and the general nature thereof: None.

Approval of Agenda

R-219-23 Moved by Deputy Mayor Barr, Seconded by Councillor Ireland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby approve the agenda of the regular Council meeting of July 10, 2023, as amended.

(**Note**: The agenda was amended to include a motion regarding a donation to the Merrickville Legion brought forward by Mayor Cameron to be placed prior to the Notice of Motion section. The agenda was also amended to include a Notice of Motion from Deputy Mayor Barr pertaining to the declaration of June as Pride Month beginning in 2024 to be brought to the August 14 regular meeting.)

Carried as amended.

Minutes

R-220-23 Moved by Councillor Gural, Seconded by Councillor Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby approve the Minutes of the regular Council meeting of June 12, 2023, as amended.

(Note: The minutes were amended to change the wording on Councillor Gural's Notice of Motion from 'Carried' to 'Received').

Carried as amended.

R-221-23 Moved by Deputy Mayor Barr, Seconded by Councillor Gural

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby approve the Minutes of the special Council meeting of June 20, 2023.

Carried.

Planning

R-222-23 Moved by Councillor Gural, Seconded by Councillor Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the report submitted by Forbes Symon, Senior Planner for Jp2g Consultants, dated June 14, 2023 regarding the Review of Changes to the Planning Act as a result of Bill 97, for information purposes.

Carried.

R-223-23 Moved by Councillor Gural, Seconded by Councillor Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive draft comments from Rideau Valley Conservation Authority regarding the proposed Provincial Planning Statement, for information purposes.

Carried.

Finance

R-224-23 Moved by Councillor Ireland, Seconded by Deputy Mayor Barr

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive and approve the draft Financial Statements as prepared by MNP LLP, for the year ending December 31, 2022.

Carried.

R-225-23 Moved by Councillor Gural, Seconded by Councillor Maitland Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive Report FIN-07-2023 for information purposes; and

That Council adopt the report reflecting the 2023 budget as adjusted to reflect the PSAB expenses as required under Ontario Regulation 284/09.

Carried.

Delegations

R-226-23

Moved by Deputy Mayor Barr, Seconded by Councillor Gural **Be it hereby resolved that**:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the delegation of Jacob Hanlon, Food Cycle Science, regarding the Municipal Food Waste Diversion Program, for information purposes.

Carried.

Correspondence

R-227-23

Moved by Councillor Gural, Seconded by Councillor Maitland **Be it hereby resolved that**:

for Maple View Landings Long-Term Care Home;

WHEREAS at the regular meeting on June 12, 2023, the Council of the Corporation of the Village of Merrickville-Wolford received a delegation presentation from Arie Hoogenboom, Mayor of Rideau Lakes, regarding the funding opportunities and process

AND WHEREAS Council does hereby receive correspondence from Lesley Todd, Long-Term Care Fundraising Coordinator, dated June 13, 2023, regarding the funding options that are available to support the fundraising efforts;

NOW THEREFORE BE IT RESOLVED THAT Council does hereby approve and direct staff to provide a donation to the funding of Maple View Landings Long-Term Care Home on behalf of the Village of Merrickville-Wolford in the amount of \$9300 for the purposes of \$3100 per year starting in 2024.

Carried.

CBO

R-228-23

Moved by Deputy Mayor Barr, Seconded by Councillor Maitland **Be it hereby resolved that**:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive Report CBO-01-2023; and

That Council does hereby approve the application process for Heritage Property Tax Relief for the property at 206 Colborne Street East, Merrickville, Ontario, in the amount of \$524.00 for this fiscal year for this property.

Carried.

CAO

R-229-23 Moved by Councillor Ireland, Seconded by Councillor Gural Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the report from Andrew MacDonald, Mechanical Engineer for Jp2g consultants Inc., dated July 4, 2023 regarding the Merrickville STP Capacity Calculation, for information purposes.

Carried.

R-230-23 Moved by Councillor Maitland, Seconded by Deputy Mayor Barr Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the report from Andrew MacDonald, Mechanical Engineer for Jp2g consultants Inc., dated June 27, 2023 regarding a summary of the Merrickville STP overflow event on April 5, 2023, for information purposes.

Carried.

R-231-23 Moved by Deputy Mayor Barr, Seconded by Councillor Gural Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the report from Neil Caldwell, Consulting Engineer for Jp2g consultants Inc., dated July 5, 2023 regarding a review of a funding opportunity for the Disaster Mitigation and Adaptation Fund, for information purposes.

Carried.

R-232-23 Moved by Deputy Mayor Barr, Seconded by Councillor Gural Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the provided documents pertaining to the Blockhouse Museum Board as drafted by the Village's lawyer, for information purposes; and

That Council does hereby direct staff to bring back an appropriate by-law to pursue the formation of a Blockhouse Museum Board.

Carried.

R-233-23 Moved by Councillor Gural, Seconded by Deputy Mayor Barr Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive report CAO-04-2023, being a report to update Council on the grant applications that have been sought out and applied for by Village staff from 2018 until June 2023, for information purposes.

Carried.

Councillor Maitland excused himself from the meeting at 8:56 p.m. due to a pecuniary interest for the Xplore Inc. Telecommunications Tower Application item.

R-234-23 Moved by Councillor Ireland, Seconded by Councillor Gural Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the correspondence dated June 8, 2023 from Xplore Inc. regarding a proposed telecommunication tower application number ON 8472 for information purposes; and

That Council does hereby direct the CAO/Clerk to require the applicant to issue public communications as required in legislation and to hold a public meeting should any interested parties register for the public meeting; and

That Council does hereby direct the CAO/Clerk to cause a report to be brought back to Council at a future meeting for Council consideration.

Carried.

Councillor Maitland returned to the meeting at 9:01 p.m.

R-235-23 Moved by Mayor Cameron, Seconded by Councillor Ireland

Be it hereby resolved that:

WHEREAS it is important for a Council to support its community;

AND WHEREAS the Merrickville Legion is one of those that is deserving of that support;

AND WHEREAS the Canada Day budget included \$600.00 to feed the RCMP Pipe Band and the funds were not used;

AND WHEREAS the Merrickville Legion welcomed and fed the RCMP Pipe Band at no cost to the Municipality;

NOW THEREFORE BE IT RESOLVED THAT the Council of the Corporation of the Village of Merrickville-Wolford does hereby direct the funds to feed the RCMP Pipe Band in the Canada Day budget, and that amount be donated to the Merrickville Legion's fundraiser in support of Veteran's House in the amount of \$600.00.

Carried.

Notices of Motion

R-236-23 Moved by Councillor Gural, Seconded by Councillor Maitland

Be it hereby resolved that:

WHEREAS the goal of increasing housing supply and reducing barriers in planning processes as set out in the recent legislative, regulatory, and policy changes, including new provisions from Bill 23, More Homes Built Faster Act is welcomed; and

WHEREAS the proposed Provincial Planning Statement 9sections 2.6 and 4.3) would dramatically remove municipal power and render aspects of the Village of Merrickville-Wolford Official Plan and other official plans throughout Ontario inoperative, terminate some local planning autonomy, and directly interfere with municipalities' ability to meet local variation and unique community needs; and

WHEREAS the proposed PPS changes that would allow proliferation of lots with protection restricted to specialty crop areas only diminishes the purpose, use and integrity of rural and agricultural lands, thereby removing protection and restricting future uses of those lands; and

WHEREAS the proposed PPS changes encourage sprawl and rural roadway strip development, rather than more fiscally and environmentally sustainable practices like intensification in established settlement areas; and

WHEREAS the Rideau Valley Conservation Authority has played a crucial role in providing planning input and reviewing services and environmentally sustainable practices like intensification in established settlement areas; and

NOW THEREFORE BE IT RESOLVED THAT the Council of the Corporation of the Village of Merrickville-Wolford urges the province to:

- Pause proposed changes to the PPS, particularly regarding natural heritage (section 4.1) and agricultural lands (section 2.6 and 4.3)
- Reinvest trust in the local planning authority of all 444 municipalities, recognizing that each one has unique landscapes, housing needs and visions for local planning matters
- Follow the recommendations provided by the Rideau Valley Conservation Authority

AND THAT our fellow municipalities be urged to voice their concerns regarding the proposed undermining of local planning authority;

AND FURTHER THAT a copy of this resolution be sent to all 444 municipalities, The Hon, Doug Ford, Premier of Ontario, The Hon. Steve Clark, Minister of Municipal Affairs and Housing and MPP for Leeds-Grenville-Thousand Islands and Rideau Lakes, The Hon. Lisa Thompson, Minister of Agriculture, Food and Rural Affairs, The Hon. David Piccini, Minister of Environment, Conservation and Parks, the Association of Municipalities of Ontario, the Rural Ontario Municipal Association and the Federation of Canadian Municipalities.

(Note: The motion was amended with proposed amendments from Councillor Gural to include the following statement: "WHEREAS the Rideau Valley Conservation Authority has played a crucial role in providing planning input and reviewing services and environmentally sustainable practices like intensification in established settlement areas", and to include the following statement in the first 'Therefore' clause: "Follow the recommendations provided by the Rideau Valley Conservation Authority").

Carried as amended.

Mayor Cameron stated that he would bring a Notice of Motion to the August 14th regular meeting pertaining to the formation of a Public Works Committee.

R-237-23 Moved by Councillor Ireland, Seconded by Councillor Maitland Be it hereby resolved that:

WHEREAS the municipality will benefit from sharing financial information with Council throughout the year, facilitating a streamlined budget approval process and ensuring opportunities for infrastructure grants are not missed. Inclusion of designated Council and community members in a collaborative budget development process will balance operational needs against benefit to taxpayers. This will result in earlier approval of annual operating and capital budgets, ensuring projects and initiatives can move forward without delay;

NOW THEREFORE BE IT RESOLVED THAT the Council of the Corporation of the Village of Merrickville-Wolford does hereby create a Finance Committee having the following guiding principles:

- **1.** Ensure draft operations and capital budgets are ready for presentation to Council by the 4th Monday of January each year.
- **2.** Review quarterly financial results and year-end forecasts during the months of April, July and October each year to understand challenges and opportunities.
- 3. Review and pursue grant opportunities for infrastructure improvements.
- **4.** Provide guidance to staff in meeting the vision of Council for financial diligence.

AND THAT the Finance Committee be comprised of the following members:

- 1. The Manager of Finance plus optionally one additional staff member from the Finance Department.
- 2. Two Councillors to be named each term who will fill the roles of Committee Chair and Note-Taker. For the 2022-2026 term, Deputy Mayor Barr and Councillor Ireland are named with roles yet to be decided.
- 3. One or two residents having demonstrated financial acumen.

AND FURTHER that Council directs staff to:

- 1. Advertise for residents to fill the two committee positions and have candidates for appointment ready for the regular September Council meeting.
- 2. Be prepared for the first Finance Committee meeting in October with the 3rd quarter actuals, year-end forecasts, and long list of potential 2023 capital items for each department.

Deferred.

(**Note:** Moved by Councillor Maitland, seconded by Deputy Mayor Barr to defer the Notice of Motion until the August 14th regular meeting for Councillor Ireland to bring back alternative wording).

A Notice of Motion was provided by Deputy Mayor Barr pertaining to declaring June as Pride Month beginning in 2024 to be placed on the August 14th regular meeting agenda.

Deferred Items

None.

Public Question Period to Council

Donna Daw, 406 Brock Street East, expressed disappointment that immediate direction was not given to staff regarding the Municipal Food Waste Diversion Program as presented in the delegation. She

acknowledged Deputy Mayor Barr's Pride Month Notice of Motion and noted that there was a committee motion brought forward in 2021 for this and expressed disappointment that this still needs to be a recommendation. She questioned when the Committees will begin meeting.

Confirming By-Law

R-238-23

Moved by Deputy Mayor Barr, Seconded by Councillor Ireland Be it hereby resolved that:

By-law 38-2023, being a by-law to confirm the proceedings of the regular Council meeting of July 10, 2023, be read a first and second time, and that By-law 38-2023 be read a third and final time and passed.

Carried.

Adjournment

R-239-23

Moved by Councillor Gural, Seconded by Councillor Maitland

Be it hereby resolved that:

This regular meeting of the Council of the Corporation of the Village of Merrickville-Wolford does now adjourn at 9:45 p.m. until the next meeting of Council on Monday, August 14, 2023 or until the call of the Mayor subject to need.

Carried.

Michael Cameron, Mayor
Doug Robertson, CAO/Clerk

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby approve the Minutes of the special Council meeting of July 25, 2023, as	
circulated.	
amended.	

Carried / Defeated

Michael Cameron, Mayor

The Corporation of the Village of Merrickville-Wolford

Tuesday, July 25, 2023, 2:30 p.m.

Chaired by:Mayor Michael CameronMembers of Council:Deputy Mayor Anne Barr

Councillor Margaret Gural Councillor Stephen Ireland Councillor Ronnie Maitland

Staff in Attendance: Doug Robertson, CAO/Clerk

IMPORTANT NOTICE: This meeting was held in person and was open to the public in the Council Chambers. However, there were no open session reports for this special Council meeting and the incamera session of the meeting was closed to the public.

Disclosure of Pecuniary Interest and the general nature thereof: None.

Approval of Agenda

R-240-23 Moved by Councillor Ireland, Seconded by Deputy Mayor Barr

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby approve the agenda of the special Council meeting of July 25, 2023, as circulated.

Carried.

In-Camera

R-241-23 Moved by Councillor Gural, Seconded by Councillor Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby move to an "In-Camera" session at 2:43 p.m. under Section 239 (2) of the Municipal Act, 2001, as amended, to address matters pertaining to:

1. Personal matters about an identifiable individual, including municipal or local board employees.

Carried.

Rise and Report

R-242-23 Moved by Councillor Maitland, Seconded by Deputy Mayor Barr

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby rise and report from the "In-Camera" session of the special Council meeting, with staff being given direction at 3:39 p.m.

Carried.

R-243-23 Moved by Deputy Mayor Barr, Seconded by Councillor Ireland Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby direct the Village's lawyer to confirm procurement of the services of E. Dean & Associates to

conduct the organizational review discussed in-camera on July 25, 2023.

Carried.

Notices of Motion

None.

Confirming By-Law

R-244-23

Moved by Councillor Maitland, Seconded by Deputy Mayor Barr

Be it hereby resolved that:

By-law 39-2023, being a by-law to confirm the proceedings of the special Council meeting of July 25, 2023, be read a first and second time, and that By-law 39-2023 be read a third and final time and passed.

Carried.

Adjournment

R-245-23

Moved by Councillor Ireland, Seconded by Councillor Maitland **Be it hereby resolved that:**

This special meeting of the Council of the Corporation of the Village of Merrickville-Wolford does now adjourn at 4:04 p.m. until the next meeting of Council on Monday, August 14, 2023 or until the call of the Mayor subject to need.

Carried.

Michael Cameron, Mayor	
Doug Robertson, CAO/Clerk	

For Clerk's use only, if required:

Recorded Vote Requested

By:

Barr	Υ	N	
Cameron	Υ	N	
Gural	Υ	N	
Ireland	Υ	N	
Maitland	Υ	N	

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the Minutes from the Merrickville Public Library Board meeting held on March 8, 2023, for information purposes.

Carried / Defeated
Michael Cameron, Mayor

MERRICKVILLE PUBLIC LIBRARY

Merrickville Public Library Board's meeting was held on March 8, 2023 at 7:30 pm via Zoom.

Present: M-W: Carole Roberts, Brian Reid,

Montague: Olivia Enns

and Mary Kate Laphen (Librarian)
Other: Chris Eyton (Friends of the Library)
1. Meeting called to order at 7:30 pm.

- 2. **Declaration of Pecuniary Interest:** None.
- 3. Adoption of Agenda: Moved by Brian; seconded by Olivia. ADOPTED.
- 4. Approval of Minutes:
 - Feb 9/23 board meeting Moved by Olivia; seconded by Brian. **APPROVED** (with typos corrected).
- **5. Correspondence**: None.
- 6. Questions/ Presentations from Public:
 - Request from Trails Society: The Trails Society would like to relocate their display case to the north
 wall of the building for better visibility. Mary Kate will double-check to ensure that the case hasn't left
 any marks or damage to the walls.

Motion to approve request: moved by Brain, seconded by Olivia. APPROVED.

- Chris Eyton suggested the Library consider adding digital conversion equipment for converting old media (slides, VHS). This will be referred to the new Board, possibly as part of strategic planning.
- **7. Friends of the Library Report:** Cheryl Geeson is the new Chair of the Friends. Chris Eyton will be the deputy chair and secretary. Kirsten Finstad will continue as treasurer. The group is planning their usual 2 fundraisers for May: the garage sale and the plant sale.
- 8. Report from Council: N/A
- 9. Librarian's Report: see below.
- 10. Other Business:
 - a) Updates re: Budget 2023: Mary Kate presented the library budget to Council.
 - b) State of the Building:
 - i. Furnace: no further problems with the furnace
 - ii. Mice: have trapped more mice
 - iii. Water Unit: the unit is still working, so this is waiting until the budget is finalized.
 - iv. Roof: still pending.
 - v. Exterior: it has been suggested it might be a good idea to move ahead with restaining the walls possibly ahead of working on the deck.
 - c) Year End:
 - i. Use Statistics: reviewed summary (for information).
 - **ii. Year End Financials:** reviewed updated year end numbers from municipal Treasurer, however, these numbers are not yet final.
 - iii. Draft Annual Report 2022: Reviewed report. Financial data may need to be revised slightly Mary Kate has contacted the municipal Treasurer for any year end updates as of the end of Feb. Mary Kate will use this update to revise the Annual Report and to complete the Annual Survey (to be submitted to the provincial government).

Motion to approve the Annual Report (financials to be updated): Moved by Brian, seconded by Olivia. **APPROVED.**

Mary Kate will complete this and post to the website and have printed. Will arrange to present to Merrickville-Wolford and Montague Councils.

Next meeting: tentatively scheduled for Wed, April 12, 2022 at 7:30 pm on Zoom. Note: this may change depending on when the new Board is appointed.

- **11. Next meeting:** tentatively scheduled for Wed, April 12, 2022 at 7:30 pm on Zoom. Note: this may change depending on when the new Board is appointed.
- 12. Meeting adjourned...

Librarian	Chairperson

Librarian's Report:

Statistics

February	Feb 2023	Jan 2023	Feb 2022	Feb 2021	Feb 2020
Patrons	915 (incl. mtgs) [includes 206 from Snowflake Festival]	956 (incl. mtgs) +9 (Zoom) 107 OverDrive usrs	101 OverDrive users (unique)	405	1058 w/mtgs 1103 +9%
	106 OverDrive users:		, , ,	111 OverDrive users (unique)	
(Kids/Youth)	269 (101k / 168y)	240 (76k / 164y)	69 (22 k /47 y)	38 (12k / 26y)	315 (65 / 250)
(Progs)	105- at lib (16 prgs) + 206 (Snowflake Fest) 58 – out of lib (5 prgs) Class Visits: 24 (2 CVs @ lib) 43 (2 CVs to School)	130- at lib (21 prgs) 13 – out of lib (2 prgs) Class Visits: 72 (4 CVs @ lib)	0 – in liby (0 progs)17 - Zoom programs(4 progs)20 – Vax QR codes	In Library – 22 (4prg + 1 take home) Virtual Programs 40 (3 progs) 33 views (YouTube)	80-in (10 prgs, 1- CV) 59-out of Lib, (5 prgs)
Mtg Rm users	96 – in lib (13 mtg) 21 – Zoom (3 mtgs)	42 – in lib (8 mtg) 9 – Zoom (1 mtg)	0 – in liby (0 mtg) 46 – Zoom (7 mtg)	0 in liby (0 mtgs) 17 Zoom (2 mtgs)	45 (10 mtgs)
Circulation	TOTAL: 2636 Lib: 1593 (A-943, J/T – 647) OverDrive: 899 (circ) Kanopy 144 (plays)	TOTAL: 2702 Lib: 1682 (A-966, J/T – 716) OverDrive: 902 (circ) Kanopy 118 (plays)	Total: 2286 Lib: 1444 (A-943, J/T-501) OverDrive: 672 (circ) Kanopy 170 (plays)	TOTAL: 1863 Lib: 1120 (A-761, J&T-359) OverDrive: 660 (circ) Kanopy 83 (plays)	TOTAL 2413 -3% Library: 1882 (A-1273, J-609) OverDrive: 513 (circ) Kanopy: 18 (credits)
Computer / Internet use (+wireless):	153 (59 / 90 wif / 4 ipad)	121 (42 /69 wif / 10 ipad)	74 33 / 41 wifi)	64 (23 / 41 wifi)	354 (205 / 138w / 11 Tab)
ILL borrowed/lent:	50 in / 41 out	50 in / 48 out	52 in / 44 out	63 in / 47 out	77 / 70

February saw a lot of very slow days and cancelled or rescheduled programs and class visits because of the weather (lots of snow days) and sickness. So regular use was rather low; however this was offset by the Snowflake Festival (on Family Day). There were over 200 visitors in and most stayed for a significant amount of time playing with the toys, etc. There were also a lot of meetings in Feb and computer use was up.

Programs & Services:

Children's Programs:

StoryTime, French StoryTime, Saturday Play Days, Class visits, and Playgroup and Daycare visits continue to run. They were irregular in Feb because of weather and illness.

Valentines program (for preschoolers & primary grades) – attendance was lower than I'd hoped, but everyone had a good time.

Snowflake Festival (on Family Day): had 206 people in, 100 were kids/youth. Had out many different toy/acitivity stations (LEGO, trains, cars, kitchen, puppet theatre, board games, craft, etc) and most people stayed to play with some or all of them (several children did not want to leave. It was an enhancement of the Snowflake Festival, as well as bringing some new people into the Library (win-win). It is well worth continuing to participate in this event (even though it is on a statutory holiday). Also need to factor in set-up and clean-up time (not inconsiderable).

March Break activities are planned & publicity is underway. There are activities scheduled for each day of the Break: 2 staff-led craft sessions and several drop-in 'DIY' activities. An **Art4Youth workshop** was tentatively planned, but had logistical problems, so we'll try that later on. There has also been a lot of advance interest in the museum passes.

Group Visits: continuing to make story visits to PlayGroup (most weeks) and Daycare (monthly). Again, there were cancellations because of illness.

Class Visits: continuing to get visits to the Library from 3 Ste-Marguerite classes, 1 Merrickville school class, and some Merrick Prep students, although many of these were cancelled in Feb because of the many snow

days. One class will be spending an afternoon (Mar 9) of reading at the Library (a class reward). Did a librarian visit to 2 Merrickville classes for Valentines Day.

Eco-Champions Have started to publicize this again in the Library and with the schools. Have also updated the website.

Adult Programs:

Currently running: Off the Shelf, Library Book Club, Fitness for your Aging Brain, the Meditation drop-in (Health Centre) and the Hospice Satellite Office (Beth Donovan Hospice), and the new Knitting Group. There were a couple of cancellations, but most sessions ran. The Meditation Group has ended one series,

but is about to start another. The new Art Group will start this month (Feb session cancelled due to illness).

The **Seed Library** has been open since the Snowflake Festival. Seedy Saturday is scheduled for Apr 22 – the committee is working on plans for this.

Internet/Computers: use levels have been up a bit. **InterLibrary Loans:** use levels remain consistent.

Meeting Room: Is being used guite regularly for programs and meetings.

Collection: Winter bestsellers are coming in. Working on the Spring-Summer bestseller order. We have recently added 3 Radon Detectors (for loan) and there is a lot of interest in them.

Volunteers: All is good on this front. The volunteers do shelving, processing new books, packaging ILLs, and working on the genealogy collection. A member of the Seed Library committee sorted and set this up..

Facilities: See Other Business (10b). Am doubling down on the peppermint oil.

Accessibility Plan: Have been advised to just proceed with re: grab rail.

Publicity/Outreach: March Phoenix, webpage and social media. Am reaching out to the schools re: ECO-Champions, and am working with the committee to publicize the Seed Library.

Partnerships/Outreach: The Library is running programs with or hosting meetings for: the Merrickville Ladies Club, Beth Donovan Hospice, Trails Society, Health Centre, Sustainable Merrickville-Wolford, Eco-Champions, Chamber of Commerce, Fair Board, schools, daycare, Playgroup. The Chamber has another person who has taken over much of the social media, although I am still involved.

Professional Development, Meetings, etc: Attended a virtual FOPL meeting. There are CEO meetings coming up in April (in person) & May (virtual). Will be doing a presentation on the Seed Library at a small libraries conference in Amprior in May.

Donations: n/a.

Grants, etc: Will update the financial data and submit our Annual Survey this month.

Plans for month: finishing/printing/posting Annual Report and submitting Annual Survey data, schedule Annual Report presentations to Council, work on conference presentation, planning for Seedy Saturday, Art4Youth workshop, working with partners, more weeding (has been on hold), and the usual library business.

For Clerk's use only, if required:

Recorded Vote Requested

By:

Barr	Υ	N	
Cameron	Υ	N	
Gural	Υ	N	
Ireland	Υ	N	
Maitland	Υ	N	

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the Minutes from the Merrickville Public Library Board meeting held on June 6, 2023, for information purposes.

Carried / Defeated

Michael Cameron, Mayor

MERRICKVILLE PUBLIC LIBRARY

Merrickville Public Library Board's meeting was held on June 6, 2023 at 7:00 pm at the Merrickville Public Library.

Note: there were no Board meetings in April or May 2023.

Present: M-W: Kait Brady, Jane Coghlan, Chris Eyton, Charles Merredew, Margaret Gural (Council Rep)

Montague: Olivia Enns

and Mary Kate Laphen (CEO)

- 1. Meeting called to order at 7:02 pm.
- 2. Declaration of Pecuniary Interest: None.
- 3. Adoption of Agenda: Moved by Chris; seconded by Olivia. ADOPTED.
- **4. Introductions**: The Board and CEO did a round of introductions. All Board members also consented to sharing their email addresses for Board purposes and provided required personal information for the Library's Charitable Tax Returns.
- 5. Board Orientation: Overview of relevant governance topics and library background information for the Board, covering: relevant legislation, board by-laws, duties of the board, roles and responsibilities, the library in relation to provincial and municipal governments and other agencies, library funding/, and an overview of the current Merrickville Library situation and pending and upcoming issues. Mary Kate to forward links for AODA training and an index of the Board's policies.

Library Tour deferred due to time considerations.

6. Selection of Board Chair and Signing Authorities:

MOTION: Chris Eyton nominated to be Board Chair, Jane Coghlan to be additional Board signing authority – nominated by: Olivia, seconded by Margaret. **CARRIED.**

7. Selection of Meeting Dates: The third Tuesday evening of the month at 6:30 pm was selected as the regular Board meeting date.

Note: Charles left the meeting.
8. Correspondence: None

9. Questions and Presentations from Public: None

10. Closed Session:

Motion to close meeting for the following reasons:

• PLA 16.1(4) (b) Personal matters concerning an identifiable individual(s) Moved by: Kait, seconded by Chris. **APPROVED**

Motion to return to open meeting, no direction being given. Moved by: Olivia, seconded by: Kait. **APPROVED.**

11.	Meeting adjourned.	Next regular meeting: Tues, July 18, 6:30 pm
Libr	arian	Chairperson

For Clerk's use only, if required:

Recorded Vote Requested

By:

Barr Y N
Cameron Y N
Gural Y N
Ireland Y N
Maitland Y N

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the Minutes from the Merrickville Public Library Board special meeting held on June 27, 2023, for information purposes.

Carried / Defeated

Michael Cameron, Mayor

MERRICKVILLE PUBLIC LIBRARY

Merrickville Public Library Board's special meeting was held on June 27, 2023 at 6:30 pm at the Merrickville Public Library.

Present: M-W: Jane Coghlan, Chris Eyton, Charles Merredew, Margaret Gural (Council Rep)

Montague: Olivia Enns

and Mary Kate Laphen (CEO)

Absent: Kait Brady,

- 1. Meeting called to order at 6:35 pm.
- 2. **Declaration of Pecuniary Interest:** None.
- 3. Adoption of Agenda: Moved by Jane; seconded by Olivia. ADOPTED.

6. Meeting adjourned. Next regular meeting: Tues, July 18, 6:30 pm

- 4. Correspondence: None.
- 5. Other Business:
 - a. Revised 2023 Budget and Salary Grid: Reviewed the updated 2023 Budget and Salary Grid revised to include the 2023 municipal library levy and cost of living increase approved by in the Merrickville-Wolford budget.

MOTION: To approve the budget as presented using funds from the Library Surplus to cover the projected revenue shortfall. Moved by: Olivia; seconded by: Margaret. **APPROVED**.

MOTION: Resolution 2023-JUN-01 To approve the 2023 Library Salary Grid as presented with the cost of living increase approved by Council. Moved by: Margaret; seconded by: Chris. **APPROVED.** Mary Kate will forward the budget and salary grid to the municipal Treasurer.

b. **Building / Lease**: Reviewed the proposed lease from the municipal law firm and related correspondence.

MOTION: Mary Kate will draft a letter of response to be reviewed next board meeting. Moved by: Charles; seconded by: Jane. **APPROVED**

The Board requested additional information about the Library's insurance coverage. Mary Kate to contact the municipal office for a copy of the policy.

- c. Building Work:
 - i. **Water treatment unit:** Reviewed correspondence with OCWA and Public Works re: the needed replacement of the water unit.

MOTION: that Mary Kate contact the head of Public Works about proceeding with the replacement of the unit, and that the remaining building grant funds from 2022 be redirected to cover the cost of the unit. Moved by: Margaret; seconded by: Charles. **APPROVED.**

ii. **Work still pending**: Discussed the remaining work re: the roof and crawl space (quote accepted, but no date for the work).

Librarian	Chairperson	

For Clerk's use only, if required:

Recorded Vote Requested

By:

Barr	Υ	N	
Cameron	Υ	N	
Gural	Υ	N	
Ireland	Υ	N	
Maitland	Υ	N	

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive Planning report from Forbes Symon of Jp2g Consultants Inc. regarding Planning comments on the application for Draft Plan of Subdivision 07-T-20234, for information purposes.

Carried / Defeated

Michael Cameron, Mayor

Village of Merrickville-Wolford 317 Brock Street West P.O. Box 340
Merrickville, ON K0G 1N0
Jp2g Consultants Inc.

Attention: Doug Robertson,

CAO/Clerk Dear Mr. Robertson:

Re: Planning Comments on Application for Draft Plan of

Subdivision 07-T-20234

Part of Lot 13, Concession 4, Geographic Township of Wolford, Village of Merrickville-Wolford, Our File No. 19-

7059N

We have prepared this letter to provide planning comments on our initial review of applications for approval of a draft plan of subdivision and zoning by-law amendment filed by Arcadis IBI Group. on behalf of Rob Thompson Construction Ltd.

The subject lands are located in the southwest corner of the Hamlet of Carleys Corners fronting on County Road #15 on lands described as Part of Lot 13, Concession 4, Geographic Township of Wolford, not the Village of Merrickville-Wolford. The subject property is approximately 16.04 ha (39.6 ac) of land with a combined 360 m of frontage on County Road #15 (road frontage is in two sections). The land is vacant and generally described as a hay field.

The proposed development consists of 32 residential lot ranging in size from 0.38 ha (0.94 ac) to 0.7 ha (1.73 ac). The housing form is to be single detached residential dwellings. The access to the proposed lots will be via an internal crescent 20 m wide roadway. There are no other blocks or features identified in the subdivision.

The surrounding land uses consist of a mix of residential development and rural and agricultural land uses. The land are within 120 m of the Wolford Bog which is a provincially signification wetland. The applicant has provided and EIS to address the proximity to the wetland.

The lands are currently zoned "Hamlet (H)" in the Village's Zoning By-law 23-08 and designated as Hamlet in the Village's Official Plan. The Hamlet zone references the standards of the "Residential Type Two (R2)" which in turn references the "Residential Type One (R1)" zoning standards for single detached dwellings. The R1 zone standards establish a 2000 m2 (0.5 ac) minimum lot size and a 30 m (98.4 foot) minimum lot frontage. The Planning Justification Report submitted by the applicant indicates that all lots will meet the minimum lot size requirements of the R1 zone. The report also indicates that there are three lots that will not meet the minimum lot frontage of 30 metres. The report acknowledged that a zoning by-law amendment would be required as a condition of the subdivision to address the lots with deficient frontages.

The planning assessment within the Planning Justification Report regarding compliance with the Provincial Policy Statement (2020) is accepted at face value and is found to be an accurate assessment of the development proposal.

The proposed development does well to represent and meet the objectives of the Village's Official Plan regarding development within Hamlets. Hamlets are identified in the Official Plan as forming part of the urban land use designation within the OP. Hamlet lands are anticipated to be developed on private services with an internal road system and avoiding direct access onto a County Road. The Official Plan policies do reference the Special Heritage Policy Area 2 as applying to future development and specifically references the need for street trees, building designs reflective of pre-

World War II architectural style and promoting two storey buildings over bungalows.

The proposed subdivision also appears to meet the minimum lot size of 0.4 ha (1ac) set out in Section 9.3.1 and restricts direct access onto the County Road as required in Section 7.2.

As required under Section 9.3.3. the applicant has provided a Planning Rationale, a Hydrogeology and Terrain Analysis, a preliminary stormwater management study, a Phase 2 Archeology Study, a Traffic Study, an Environmental Impact Assessment and an Environmental Site Assessment.

In general, the proposed development conforms to the policies of the Official Plan. There are a few points of clarification noted below that should be received prior to Council considering conditions of draft approval.

Planning Comments: Application for Draft Plan of Subdivision Approval

Based on our initial review of the subdivision application, we offer the following planning comments:

- Council should be aware that the development does not propose to include any affordable housing. Section 3.10 of
 the Official Plan requires new development to include 25% of the housing units as affordable. The policies do indicate
 that this provision is to generally applied. Council should consider the matter of affordability and determine if they wish
 to see more effort by the applicant in this regard.
- 2. The Planning Justification Report indicated that Special Heritage Policy Area #2 does not apply to the property. However, Section 6.2.1.4(3) clearly states that "the applicable Design Guidelines contained in Appendix A apply to future development in the Hamlet designation." This relates to the design of the buildings establishment of trees along the street, discourage modern design, discourage bungalows, promotes two stories and traditional (pre WWII) design features. Council should determine if these policies shall apply to the proposed development.
- 3. It should be noted that only single detached dwellings are being proposed and no multiple dwellings are being proposed. The Planning Justification Report does not mention "additional residential units" which can be as-a-right intensification of the development of the properties. Clarification of whether this form of development is anticipated, especially in the servicing report is required. Should ARUs not be anticipated, zoning may be required to ensure this does not take place.
- 4. There are three lots being proposed at 0.38 ha in size, less than the 0.4 ha required in the Official Plan. The OP policies state that lot sizes shall not be less than those stated in the Zoning By-law. The minimum lot size in the Hamlet zone for a single detached dwelling is 0.2 ha (0.5 ac). The smaller lot sizes are supported by the hydrogeological and terrain analysis assessment.
- 5. There is a portion of the development within 120 m of a provincially significant wetland. The applicant has submitted and EIS to support development within 120 m of the wetland.

Council should deliberate these issues and request clarification or more information should they see fit. Items 1, 2 and 3 should be addressed prior to the development proceeding to draft plan approval.

Engineering Comments – Stormwater Management

As part of our review we also conducted an assessment of the Storm Drainage and Stormwater Management Report. There were a number of points of clarification which were identified in our review. These comments should be addressed prior to the development proceeding to draft plan approval. The engineering comments are attached as Appendix A to this report.

Agency and Public Comments

At the time of the writing of this report, we are aware of comments received from the RVCA (Appendix B). Their comments highlighted the need for a 30 m setback for the dug pond in the northwest corner of the property. They also recommended a 30 m setback from a small creek that is in the vicinity of Lots 25-31. The RVCA comments also included a number of questions and suggestions regarding the stormwater management report that need to be addressed prior to the development proceeding to draft plan approval.

We have also been provided comments from WSP who conducted the peer review of the Hydrogeological Assessment. In general they found the report acceptable and supportive of the proposed development on private services.

We are aware of one comment from a member of the public which is attached as Appendix C. These comments contain a number of suggestions which should be considered and addressed by the applicant.

Summary

The proposed Carleys Corners Subdivision is seen to have merit and represents good land use planning. The proposed development is generally in conformity with the various planning documents. There are points of clarification on housing affordability, impact of ARUs and the application of Special Heritage Policy Area 2 that should be requested prior to consideration of recommended conditions of draft approval. There are also questions from the peer review engineer and RVCA regarding the stormwater management plan that should be addressed prior to Council considering conditions of draft approval to recommend to the United Counties.

Once the comments have been addressed to Council's satisfaction, we would be happy to bring forward a supplemental report outlining recommended conditions of draft approval.

Should you have any questions regarding the comments please do not hesitate to contact the

undersigned. Sincerely,

Jp2g Consultants Inc.

ENGINEERS · PLANNERS · PROJECT MANAGERS

Forbes Symon, MCIP, RPP

Senior Planner | Planning Services

Appendix A – Jp2g Comments on Stormwater Management Report

Jp2g No. 19-5031AA

July 17, 2023

Village of Village of Merrickville-Wolford 317 Brock St W, Box 340 Merrickville ON KOG 1N0 Phone (613) 269-4791 Ext 242

Attn Mr. Doug Robertson, MBA CAO/Clerk/Director, Economic Development

Re Carley's Corners Proposed Subdivision (Rob Thompson Construction) Stormwater Management Review

Dear Mr. Robertson,

The following provides a general review of the plans and reports noted below, submitted as part of the Carley's Corners Subdivision Application for the provided on June 19, 2023.

<u>List of Drawings Reviewed:</u>

1. Rob Thompson Developments, Carley's Corners, Civil Services for Draft Plan of Subdivision, Leeds and Grenville, prepared by IBI Group, dated February 6, 2023.

List of Reports Reviewed:

- 2. Carley's Corners Development Storm Drainage and Stormwater Management Report Conceptual, prepared by IBI Group dated August 11, 2022.
- 3. Notes From Pre-Consultation Meeting (Teams Call) Tuesday November 10 @ 10:30am

Comments recommended to be implemented prior to implementing the Conditions of Final Plan Approval:

Stormwater Management Report

Section 1

Based on the drawings, it appears that the Wolford Bog Part 1 is a low-lying area at the
north corner of the property. Provide sufficient geotechnical infiltration parameters that
confirm that the Wolford Bog Part 1 is a good and sufficient outlet to accept and drain the
flows. If it is not, then identify specifically how the bog drains northeast (i.e. confirm which
watercourse and/or properties that it drains through, and that the municipality will have
easements to the outlet).

Section 2

2. Provide targets for quality control (e.g. enhanced level of protection, normal level of protection, etc). We recommend you contact the RVCA for target requirements.

- 3. Provide a plan of how the ditches will meet the quality control target include ditch sizing, sediment deposition design requirements, etc.
- 4. Identify which LID's will be investigated in detailed design and what the intended benefit for them is (i.e. are they intended to help meet targets for quality/quantity control or are they an added benefit).

Section 3

5. Provide discussion on the geotechnical investigation required in detailed design to determine the infiltration rates.

Section 4.1

6. House area and driveway width are small. 112m2 is equivalent to a 1205ft2 house which is small for the lot size. In addition, a 5m width driveway doesn't allow for much room for two cars to be parked beside each other without door issues. Consider using larger values for impervious areas.

Section 4.2

7. Chicago is appropriate with higher impervious areas. Complete an additional analysis using the SCS storms to confirm storage quantities. Provide storage requirements from the analysis.

Section 4.3

- 8. Quality Control Identify how the design will meet targets identified in Section 2.
- 9. Quantity Control Provide a description of the storage required, storage available, major flow routing, etc. Provide description of maximum storage height, roadway overtopping, and hydraulic gradeline with respect to house services.
- 10. Provide clarification on table 4.3 that the total flows leaving the site (in all directions) is not greater than the existing flows.

Section 7.0

11. For the detailed design, a more developed monitoring and maintenance plan is required to consider all outlets.

Pre-Development Drainage Area Plan

- 12. Provide clear boundaries showing all area going to each outlet location.
- 13. Existing contours end at the property limit. Update the contours/drainage boundaries to capture all the water directed to the low-lying area from off-site and where the water leaves the site (if not infiltration). Illustrate the full path of the water to a municipal outlet of the Rideau River.

Post-Development Drainage Area Plan

- 14. Update post-development drainage plan to reflect ditching shown in drawing package. There appears to be a very different idea about ditching/storage.
- 15. Confirm that the storage shown on the plan is available when this plan matches drawing package.
- 16. Pipes in weir sections are small and would be very susceptible to clogging by rodents or natural debris. Provide an outlet that can be constructed and does not require regular inspections/maintenance.
- 17. Identify what material the weir will be constructed out of (i.e. earth berm, rock, concrete, etc).

Missing from the Stormwater Report based on Pre-consultation Meeting

- 18. Provide a drawing showing the Wolford Bog and wetlands along with setbacks of a 120m.
- 19. Show 30m setback from the watercourse along the northwest lot line.

- 20. Provide discussion in the report confirming if a headwater drainage feature report is required.
- 21. Other reports potentially missing prior to obtaining the draft conditions (i.e. not provided to Jp2g for review in this submission):
 - Planning Rationale
 - Hydrogeology and Terrain Analysis
 - Archaeology Study Phase 2 (Due to proximity to water and historic community)
 - Traffic Study
 - Environmental Impact Assessment
 - Environmental Site Assessment
- 22. Include a specific section on the quantity of water being discharged into road allowance during normal flows (5-year storm) and further discussion that Counties infrastructure (including culverts) will not be negatively impacted based on accepted design standards.

Drawing Package

<u>General</u>

- 23. Provide an overall plan that shows existing details in the area of the development to show separation distances, site lines, and any other impact on the area
- 24. Indicate the cul-de-sac radius
- 25. Indicate connection angle of new streets to county road

Grading Plan

- 26. See comment #14 in Post Development Drainage Area Plan.
- 27. Missing grades along the property limits confirming post matches pre-development.
- 28. For detailed design, an analysis for the existing drainage ditch along the north limit will be required to ensure it is not over capacity/erode.
- 29. Detail 2 and 3 should show maintenance roads for municipal use.
- 30. Illustrate where side yard swales are required to ensure drainage does not cross property limits.
- 31. Revise grading on the two southeast lots that direct drainage off-site to private property.
- 32. Provide approximate location of septic, well, and driveways and houses.
- 33. Provide house top of foundation and underside of footings. Ensure USF is a minimum of 0.30m above roadside ditch or 0.3m above a low-lying area in the lot.
- 34. Note any lots designed for walkouts.
- 35. Show weirs/storage areas in the ditch as well as 5 and 100-year storage levels.
- 36. Add location of utilities to the road x-section

Plan and Profiles

- 37. Add ditching (both sides of the road) on the profiles and the ditch slopes.
- 38. Ensure ditches have a minimum depth of 0.85m and 0.5% slope.
- 39. Confirm minimum culvert sizing for road crossings with the County. Provide material type and thickness (if CSP) and ensure minimum cover. For detailed design, provide full standard culvert design analysis per MTO Highway Drainage Design Standards.
- 40. Provide confirmation of suitable subgrade material in fill areas. Include subdrain under the shoulder of the road if fill is expected to be submerged.

Yours truly,

Jp2g Consultants Inc.

Stephen Arends, P.Eng.

Manager – Civil Engineering | Senior Civil Engineer

cc Neil Caldwell, P.Eng.



3889 Rideau Valley Drive PO Box 599, Manotick ON K4M 1A5 T 613-692-3571 | 1-800-267-3504 F 613-692-0831 | www.ryca.ca

May 31, 2023

File: 23-MWO-SUB-0013 (Wolford) 07-T-

20234

United Counties of Leeds and Grenville Consent Granting Authority 25 Central Ave., Suite 100. Brockville, ON K6V 4N6

Attention: Cherie Mills & Elaine Mallory

Subject: Application for a Plan of Subdivision

File: 07-T-20234 - Carleys Corner Subdivision

Part Lot 13 Concession 4

Geographic Wolford

Village of Merrickville-Wolford

Dear Ms. Mills & Ms. Mallory,

The Rideau Valley Conservation Authority (RVCA) has reviewed the subject application in the context of the following:

- Section 1.6 Stormwater (from a Natural Hazard standpoint), 2.2 Water and 3.1 Natural Hazards of the Provincial Policy Statement under Section 3 of the Planning Act;
- The Rideau Valley Conservation Authority ("Development, Interference with Wetlands and Alteration to Shorelines and Watercourses" regulation 174-06 under Section 28 of the Conservation Authorities Act;
- The Mississippi-Rideau Source Protection Plan;
- The Middle Rideau River Subwatershed Report, 2015 Dales Creek Catchment Report

1 The Proposal

The RVCA understands this to be for the creation of a residential subdivision. The proposed subdivision would create 32 residential lots ranging from 0.38 hectares to 0.70 hectares in size, as well as two public streets. The subject lands are currently designated as "hamlet" in the geographic township of Wolford. The subdivision will be on private septic system servicing and private wells.

2 The Property

The subject property is approximately 16 hectares in size. It is located on the west side of County Road 15 and south of Kerford Road in the Hamlet of Carleys Corners in the Village of Merrickville Wolford. A review of our regulatory mapping and site visit to the subject property reveal the presence of a watercourse that runs along the northern property line. There is

unevaluated wetland and an excavated pond along the western corner of the property. The Wolford Bog Provincially Significant Wetland (PSW) is approximately 26 metres from the western property line. The property is relatively flat and open agricultural lands with some hedgerows along the watercourse and bisecting the northern half of the property. A review of our mapping did not reveal the presence unstable slopes or organic soils. Floodplain may exist in the western corner on the lots closest to the wetlands and along the watercourse. It should be noted that the PSW boundary has been incorrectly labeled as floodplain.

3 The Submission

The reviewing planner has reviewed the following information in relation to the subject application:

- Planning Justification Report Carleys Corners Subdivision Draft Plan of Subdivision prepared by IBI Group, dated February 6, 2023
- Carleys Corners Development Storm Drainage and Stormwater Management Report Conceptual prepared by IBI Group, dated August 11, 2022.
- Notice of Complete Application for a Plan of Subdivision completed by the staff at the United Counties of Leeds and Grenville, dated April 12, 2023.
- *Draft Plan of Subdivision Carleys Corners* prepared by Emmett Ketchum, OLS, IBI Group, dated March 23, 2023.
- Cover Letter to RVCA Re: Application for a Plan of Subdivision, 07-T-20234 Carleys Corners (Rob Thompson Construction Ltd.), dated April 12, 2023.
- Application for Approval of a Plan of Subdivision or Condominium Description, submitted by Rob Thompson, dated January 26, 2023.

Review of the above submissions was circulated to technical review staff in our office, where appropriate, to gather comments outside of the scope of the reviewing planner's expertise.

4 Review Comments

Provincial Policy Statement

Planning for stormwater management shall minimize, or, where possible, prevent increases in contaminant loads. It shall also minimize changes in water balance and erosion, not increase risks to human health and safety and property damage, maximize the extent and function of vegetative and pervious surfaces and promote stormwater management best practices including stormwater attenuation and re-use and low impact development (Section 1.6).

Planning authorities shall protect, improve or restore the quality and quantity of water by using the watershed as the ecologically meaningful scale for integrated and long-term planning; minimizing potential negative impacts; identifying water resource systems; maintaining linkages and related functions among features, functions and areas; implementing necessary restrictions on development and site alteration to protect all municipal drinking water supplies and designated vulnerable areas and protect, improve or restore vulnerable water features and their functions; ensuring stormwater management practices minimize stormwater volumes and contaminant loads, and maintain or increase the extent of vegetative and pervious surfaces (Section 2.2).

Development and site alteration shall not be permitted within areas that would be rendered inaccessible to people and vehicles during times of flooding hazards or erosion hazards unless it has been demonstrated that the site has safe access appropriate for the nature of the development and the natural hazard (Section 3.1).

Ontario Regulation 174/06

The applicant is aware that the subject property is located within areas regulated by RVCA in accordance with Ontario Regulation 174/06. This regulation is titled "Development, Interference with Wetlands, Alterations to Shoreline and Watercourses" and is made under Section 28 of the *Conservation Authorities Act*. Based on our review of the draft plan and submitted reports and drawings, it appears that permits will be required for Lots 31 and 32, and possibly a small part of Lot 30 along the western property line (for interference to a wetland). It is proposed by the applicant that obstructions will be removed from the identified watercourse within the subject property to allow for better water flow into the provincially significant wetland (PSW).

Permission to alter the watercourse under Section 28 of the *Conservation Authorities Act* will be required.

RVCA agrees with the proposal that dug pond at the north-western corner of the property (Lot 32) should be afforded a 30 metre "no development, no site alteration" buffer.

RVCA would further recommend that a 30 metre "no development, no site alteration" buffer from the watercourse be applied for lots 25 to 31. The rationale is that a 30 metre setback from the watercourse will reduce the potential flood risk hazard to any future development. Lot 32 may require a further setback from the PSW and unevaluated wetlands for this reason stated above along the western lot line.

The Middle Rideau River Subwatershed Report – Dales Creek

This report identifies opportunities and actions within the Middle Rideau River Subwatershed Report – Dales Creek Catchment Report where the Village of Merrickville Wolford and RVCA can work together to improve catchment health. These include working to minimize the effects on surface water quality and quantity from stormwater runoff; protecting water resources that are vital to watershed, ecological and economic health of the region; and protecting naturally vegetated areas, natural features and their corridors and ecological functions and their connections to other natural heritage areas.

Source Water Protection

The Dales Creek drainage catchment is considered to have a Highly Vulnerable Aquifer. This means that the nature of the overburden (thin soils, fractured bedrock) does not provide a high level of protection for the underlying groundwater making the aquifer more vulnerable to contaminants released on the surface. The Mississippi-Rideau Source Protection Plan includes policies that focus on the protection of groundwater region-wide due to the fact that most of the region, which encompasses the Mississippi and Rideau watersheds, is considered Highly Vulnerable Aquifer. For detailed maps and policies that have been developed to protect drinking water sources, please go to the Mississippi-Rideau Source Protection Region website

at www.mrsourcewater.ca to view the Mississippi-Rideau Source Protection Plan.

A smart salt policy should be considered in future winter maintenance of subdivision roads.

5 Review of submitted information

Stormwater Management

The Stormwater Management Report submitted with this application has stated this development will not require municipal water or sanitary sewers but a municipal ditch system with culverts is proposed with an outlet directly to an existing outlet originating from the Wolford Bog Part 1 PSW.

- Quality control will be provided with the proposed ditching within the site which will aid in filtration of the stormwater. In addition, Best Management Practices (BMP) such as discharging roof leaders to rear yards, reduced lot grading, and grass swales will be implemented.
- Quantity control of stormwater will be provided with the restriction of flows within the
 roadside ditches at the outlets and a weir will be constructed within the outlet ditch at the
 northwest corner of the site and within the roadside ditches.
- A preliminary water balance calculation indicates that although the volume of runoff from the project site will increase due to the proposed development, infiltration volumes will remain within acceptable levels.
- Sediment and Erosion Control Measures will be shown on the grading plans at the detailed design stage.

The Stormwater Management Report further states that there is a lower overall imperviousness at this site than a typical subdivision and therefore increased opportunity to promote infiltration of runoff from impervious surfaces, and discharge foundation drains to the ground via sump pumps. Infiltration will be further promoted through the use of grassed rear yard and side yard swales where appropriate. Roadside ditches will provide further infiltration/filtration benefits.

During the detailed design stage further low impact development measures will be investigated to determine their feasibility.

RVCA technical review staff reviewed the report titled "Carley's Corners Development Storm Drainage and Stormwater Management Report -Conceptual", prepared by S. Hayman, P.Eng. of IBI Group, dated August 11, 2022. The report stated that post-development storm runoff from the site is controlled to pre-development levels for all design events including the 100-year storm. Quantity control will be provided with the proposed ditches. A weir with pipe will be constructed with the outlet ditch for quantity control.

RVCA comments are as follows regarding stormwater management from natural hazard perspective:

- 1. The report indicated that there are 3 sub catchments in the report. There are 5 sub catchments shown in the pre-development area (101, 102,103, 110 and 111). Please label the external drainage in the drawing.
- 2. LID features stormwater management measures are encouraged in the site if applicable.
- 3. Please refine the external drainage area.

- 4. The location of the proposed 20 m wide Ditch is not clear. Is it within the regulated area of the Wolford Bog Part 1 or one of the lots? Please provide more details regarding the features and grading of the Ditch and verify the width of the Ditch.
- 5. Table 4-3 is confusing. Please show the flow for pre-development and postdevelopment clearly.

6 **Recommendations and Conclusions**

Although our office is not able to recommend draft approval of the subdivision at this time, we remain confident that the applicant will be able to be consistent with sections 1.6 Stormwater (from a Natural Hazard standpoint), 2.2 Water and 3.1 Natural Hazards of the Provincial Policy Statement under Section 3 of the Planning Act through updated information.

Once these matters have been demonstrated and agreed to in principle, our office will be able to provide draft conditions.

Please continue to keep our office informed regarding the status of the proposed subdivision. Should you have any questions, please do not hesitate to contact the undersigned.

Yours truly.

Michael Yee

Environmental Planner & Biologist Rideau Valley Conservation Authority 3889 Rideau Valley Drive Box 599 Manotick, Ontario

Michael Office

K4M 1A5

Phone: 613-692-3571 ext 1176

CC. -**Rob Thompson Construction Limited** Doug Robertson & Nicklaus Gibson(Village of Merrickville-Wolford) Tess Gilchrist (IBI Group Evelyn Lui (RVCA)



Rec'd May 16/23

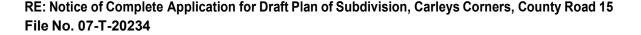
Appendix C - Public Comments

lan and Lorna Carley 13614 Country Road 15 Merrickville, ON I(0G 1N0

May 03, 2023

Ms. Elaine Mallory
Planner 1
Planning Services and Consent Granting Authority
United County of Leeds and Grenville
25 Central Avenue, Suite 200
Brockviiie, ON 1<6V 4N6

Dear Ms. Mallory



We have reviewed the above noted Notice of Complete Application for a Draft Plan of Subdivision, and provide the following comments:

Maintaining Agricultural Activities - Lot 14 is used for agricultural purposes. Please ensure that the proposed subdivision will not impact the ability to continue agricultural activities on Lot 14, specifically as it relates to the **sights, sounds and smells** of agricultural activities.

Screening and buffers between existing agricultural and proposed residential subdivision -The existing unopened road allowance on the north side is 20 m wide, densely vegetated and provides screening between Lots 12 and 13. The existing trees and fence along the property line between Lots 13 and 14 need to remain to provide exiting screening between the existing agricultural land use and the proposed subdivision. Please ensure that a tree protection zone is established, a tree protection fence is Installed, and that there are no impacts to the existing roots. Within the Civil drawing set, Grading Plan, Sheet 100 shows that the centreline of the road is up to 1 m higher than existing grades. Based on the typical cross section provided the south limit of grading would be within the treeline between 13 and 14. To minimize impacts and preserve the existing treeline, please provide a landscape/tree protection buffer in addition to the 20 m right of way.

Road A/ County Road 15 Intersection - Road A and County Road 15 are not perpendicular. The Civil drawings shows that Road A horizontal alignment is adjusted to provide a short straight perpendicular section. The





radius was not labelled; however, if the radius needs to increase and/or a longer straight stretch is required, please ensure that the daylight triangle at the Road A intersection do not encroach on the adjacent property. We trust that all the radius for this intersection, and all roads will be reviewed by the Fire Department.

Natural Heritage Feature on Lot 32 -The Environmental Impact Statement (EIS) Section 7.1 notes that "the dug pond of the west corner of the development should be included part of the PSW. It is effectively buffered by a 2 m high dry berm and surrounding dense vegetation, but a further 30 m naturalized buffer is recommended and It is our opinion that a 30 m naturalized buffer is sufficient for this SWD2

habitat. Much of tree line buffer will fall within the 30 m pond buffering but will also result in a 25 m space off the tree line further to the southeast." The EIS also noted that this section of the subdivision is within the Rideau Conservation Authority Regulation limits. Has the local municipality considered designating this property as open space/park space recreational use to protect these natural heritage features?

Stormwater Management -With theincreasing intensity of rain events, has a larger regional storm and/or snow melt event been considered? Will the ditches between the lots be municipally owned/maintained? Has the municipality commented on the proposed weirs within the ditches?

Utility Corridors - The preliminary cross section has tentative locations for future utilities. Has this preliminary plan been reviewed by the Utility Authorities, namely Hydro One, Telecommunications Providers, Future Energy Providers, and Canada Post.

Park Space/Recreation Use - Has the municipality designated minimum park space/recreational space for this subdivision and, if so where has it been identified?

Thank you for providing the opportunity to comment on this application. Sincerely,

Ian Carley/Lorna Carley

Cc: Mayor of Merrickville-Wolford-Michael Cameron

Councillor- Ronnie Maitland

Councillor- Stephen Ireland

For Clerk's use only, if required:

Recorded Vote Requested

By:

Barr	Υ	N	
Cameron	Υ	N	
Gural	Υ	N	
Ireland	Υ	N	
Maitland	Υ	N	

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive Planning report from Forbes Symon of Jp2g Consultants Inc. dated July 21, 2023, with respect to Consent Application B-60-23 and Municipal Questionnaire Form, for information purposes;

Now Therefore Be It Resolved That Council does hereby recommend support of Consent Application B-60-23 to the Consent Granting Authority with the following standard conditions:

- 1. That the applicant provide the Village with a digital and paper copy of the registered Reference Plan.
- 2. That the applicant provide proof of payment of all outstanding taxes and fees owing to the Village, if any.
- 3. That the applicant provide payment of cash-in-lieu of parkland.
- 4. That the applicant obtain a rezoning of the severed parcel to recognize a reduced minimum lot size of 0.7 ha.

Carried	/ Defeated	d	
Michael	Cameron	, Mayor	



July 21, 2023

Village of Merrickville-Wolford 317 Brock Street West P.O. Box 340 Merrickville, ON K0G 1N0

Attention: Doug Robertson, CAO/Clerk

Dear Mr. Robertson:

Re: Planning Report – Consent Application B-60-23 (Turgeon)
Part Lot 16, Con. 2, Wolford, Village of Merrickville-Wolford

I have now had an opportunity to review Consent Application B-60-23 as it relates to the Village of Merrickville Wolford Official Plan and Zoning By-law and the United Counties of Leeds and Grenville Official Plan and provide the following comments.

The proposal involves the creation of a residential building lot from land located at 2876 County Road #16. The proposal is to sever the existing property, placing the existing dwelling on the retained parcel and creating a new vacant building lot. The proposal is to create a new vacant lot with 156 m of frontage on County Road #16 and a minimum lot area of 0.7 ha (1.7 ac). The retained parcel is proposed with 105 m of frontage and a minimum lot area of 1.2 ha (3 ac). The existing house and proposed vacant lot is/will be serviced by private well and septic systems. (Attachment #1 – Location Map & Proposed Consents).

The subject lands are designated "Rural" in the Merrickville-Wolford Official Plan and zoned "Rural (RU)" and in the Merrickville-Wolford Zoning By-law 23-08. The existing dwelling is located along the northern boundary of the subject property. There are no identified natural or cultural constraints associated with the property. There are no identified natural hazards identified with the property.

The surrounding land uses consists primarily of agricultural lands to the west and with some scattered rural residential houses along the County Road.

Local Official Plan Policies

There are a number of policies of the Village Official Plan which are relevant to this application. Section 6.4.2.3, Rural Residential Development states that:

"Residential Development on flat, open land will be discouraged. Such development shall be encouraged to locate in areas having natural tree cover, scenic views and/or rolling terrain, subject to the natural heritage policies of Section 4.1 of this Plan, including the requirements for an Environmental Impact Statement. In designing residential subdivisions, attention should be given to the natural features, such as

Jp2g Ref No. 19-7059 Page 1 of 2

mature forests, to ensure that the existing vegetation and terrain is disturbed as little as possible. In addition, the housing should be screened from view."

It is the opinion that the proposed severed lot will generally comply with the policies. The lands appear to have been planted with coniferous trees.

Section 9.3.1 includes the general land division policies of the Village's Official Plan. Specifically, the policies require a minimum lot area of 0.4 ha (1 ac) for lots on private services, safe access, avoid natural hazards, meet MDS, and not landlock parcels. The proposed lots satisfy the policies of 9.3.1 of the Village's Official Plan.

Section 9.3.2 includes the consent policies of the Village's Official Plan. These policies direct severances to lands of low agricultural potential, require compliance with MDS, not resulting in strip development, and be located in treed areas. The proposed lots satisfy the policies of 9.3.2 of the Village's Official Plan. The proposed consents appear to be in conformity with the Village's Official Plan.

United Counties Official Plan Policies

The Official Plan for the United Counties of Leeds and Grenville, Schedule A, designates the subject property as Rural Land.

Section 3.1 of the United Counties Official Plan contains the policies related to Rural Lands. The policies are intended to protect natural amenities and rural character. Specifically, Section 3.3 (e) states that the policies are intended to "promote limited development that is compatible with the rural landscape and character and can be sustained by rural services levels" which is generally private well and septic systems.

Section 3.3.2 states that term "limited residential development" will be defined in local Official Plans and requires "local municipalities will establish policies in their Official Plans related to rural residential development which may be accommodated on rural lands without compromising the rural character of the lands."

Section 7.6.3.2 contains the United Counties consent policies and specifically states that the local Official Plans will contain consent policies directing development. The proposed consent appear to conform to the Official Plan for the United Counties of Leeds and Grenville.

Local Zoning By-law Regulations

The lands of the proposed severances are zoned "Rural (RU)". The RU zone provisions establishes a minimum lot size for residential development at 1 ha (2.5 ac) and a minimum lot frontage of 40 m (131 ft). The proposed severed lot does not comply with the minimum lot size of the Village's Zoning By-law No 23-08 but is consistent with the OP minimum lot size. A site-specific zoning by-law amendment will be required to recognize the proposed 0.7 ha lot size of the severed lot.

Jp2g Ref No. 19-7059 Page 2 of 5



Village Comments

The consent application has been circulated internally to Village staff. The CBO had no objections. There were no other comments or concerns expressed at the time of the writing of this report.

Summary & Recommendations

The proposal involves the creation of a 0.7 ha vacant residential building lot from lands located at 2876 County Road #16. The proposed consent conforms to the Village's Official Plan, the United Counties of Leeds and Grenville Official Plan. There is a need for a condition of rezoning to ensure the proposed lot is in compliance with the Village's Zoning By-law.

It is recommended that Council support consent application B60-23 with the following conditions:

- 1. That the applicant provide the Village with a digital and paper copy of the registered Reference Plan.
- 2. That the applicant provide proof of payment of all outstanding taxes and fees owing to the Village, if any.
- 3. That the applicant provide payment of cash-in-lieu of parkland.
- 4. That the applicant obtain a rezoning of the severed parcel to recognize a reduced minimum lot size of 0.7 ha.

All of which is respectfully submitted.

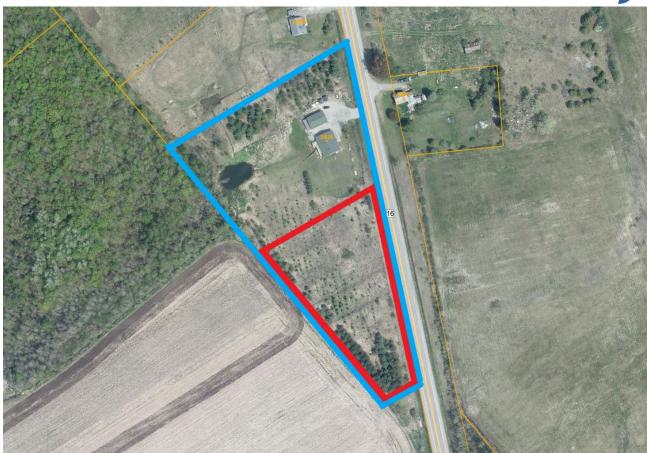
Sincerely,
Jp2g Consultants Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS

Forbes Symon, MCIP, RPP Senior Planner

Attachment #1 – Location Map & Proposed Consents

Jp2g Ref No. 19-7059 Page 3 of 5





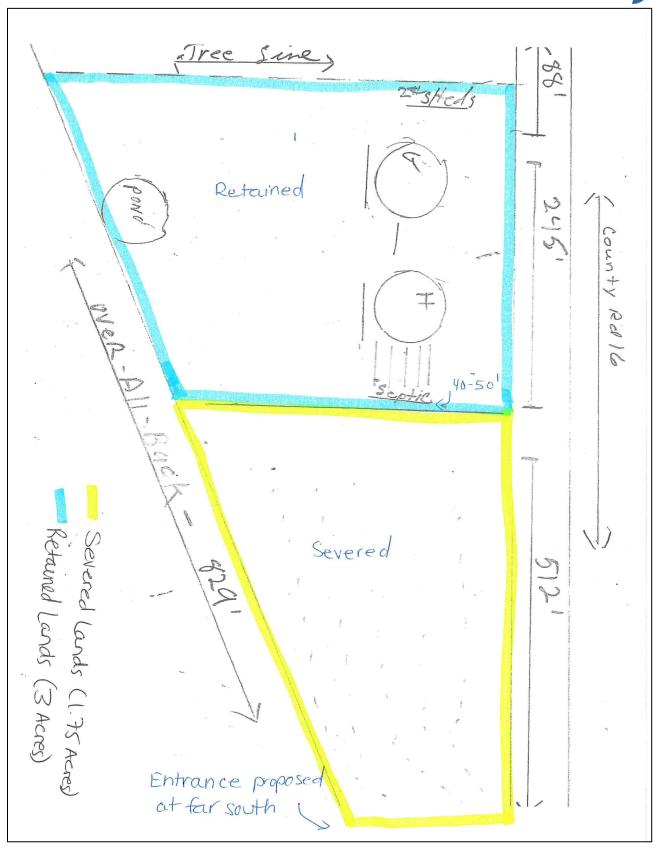
Subject Property



Proposed Severance

Jp2g Ref No. 19-7059 Page 4 of 5





Jp2g Ref No. 19-7059 Page 5 of 5



File:

Municipal Consent Application Form

Please complete and send to the Secretary-Treasurer (via email) within 30-days of receipt of an application to Krista.Weidenaar@uclg.on.ca

Municipality:			
Owner:			
Location:			
Municipal Respo	nses		Yes or No?
What is the local (Official Plan designation of the land?	?	
Does the applicati	on conform to the local Official Plar	n?	
If not, please give	relevant sections of the plan.		
What is the land c	urrently zoned in the Zoning By-Lav	v?	
Does the applicati	on comply with the municipal Zonir	ng By-Law?	
If not, please give	relevant sections of the By-Law.		
Are there any other proposed consent	er relevant documents or other Mur ??	nicipal By-Laws which would affect t	he
Zoning By-Law an	itional applications on the subject la nendment, etc.)? If yes, what type?	ands (minor variance, Official Plan A	mendment
Additional Inform	nation h of these municipal services are ava	ailable for the subject lands?	
TIEBSE CHECK WITC	n or these municipal services are ave	anable for the subject latius:	
Water	Sanitary Sewers	Access to a public and maintain	ned road
Electricity	Garbage Collection	Name of public road	
L			

Municipal Consent Application Form

Recommendations	Yes or No?
Does the Planning Committee, or Council, recommend approval be given to this application, and why?	
	_ _ _
Are there any issues the approval authority should be made aware of for the application lands (Site conditions, development history/activity, flooding, water quality and quantity concerns, etc.)?	_ _
If provisional approval is granted, what Conditions would the municipality wish to see attached? (Please attach Council's resolution, a Planning Report, list of conditions, or check below).	_
Does the municipality require their own copy of the reference plan for the subject lands?	_
Does the municipality require that the balance of any outstanding taxes, including penalties and interest, be paid to the municipality?	
Does the municipality require an Environmental Impact Study or other supporting studies? If yes, please describe.	-
Does the municipality require a road widening?	-
Does the Planning Committee or Council wish to recommend that up to 5% of the land if residentic or 2% for commercial or industrial, be set aside as parkland dedication? Or does Council wish to accept cash to the value of 2% or 5% of the land? If Yes, please describe below.	al, _
Date: Signed: Forbes Symon	
Position: Municipality of	

For Clerk's use only, if required:

Recorded Vote Requested

Bv:

			
Barr	Υ	N	
Cameron	Υ	N	
Gural	Υ	N	
Ireland	Υ	N	
Maitland	Υ	N	

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive a verbal update from Neil Caldwell, Jp2g Consultants Inc. regarding the STP Capacity Calculation Memo dated July 4, 2023, and the Summary of Merrickville STP Overflow Event on April 5, 2023 dated June 27, 2023, for information purposes.

Carried / Defeated

Michael Cameron, Mayor



Jp2g Consultants Inc. ENGINEERS · PLANNERS · PROJECT MANAGERS

1150 Morrison Drive, Suite 410 Ottawa, ON K2H 8S9 T 613-828-7800, F 613-828-2600, www.jp2g.com

Jp2g No. 19-5031B

July 4th, 2023 Village of Merrickville-Wolford Chief Building Official 317 Brock Street West Merrickville, ON K0G 1N0

Attention: Mr. Doug Robertson, MBA

CAO/Clerk/Director, Economic Development

Village of Merrickville-Wolford

Re: Merrickville STP Capacity Calculation – R1

Jp2g has performed a review of the capacity of the Merrickville Wastewater Treatment Plant in accordance with MOE Procedure D-5-1 "Calculating and Reporting Uncommitted Reserve Capacity at Sewage and Water Treatment Plants."

This procedure addresses how to determine the uncommitted capacity in municipal sewer and water plants for the purpose of approving new lots within settlement areas. The rationale is that an approved lot constitutes a commitment to provide municipal services and that approved future developments should not result in the depletion of the existing uncommitted hydraulic reserve capacity. The approval authority should ensure that appropriate services are available before approving new lots.

The reserve calculations can also provide a planning horizon for long term capital works upgrades, improvements, and/or replacement. Jp2g's review has been restricted to the past reported flows and rated capacity of the plant and does not consider other factors identified in the procedure such as limitations in collection systems and pumping stations, condition of the plant systems, or strength of the plant influent.

The current average day flow of the plant is calculated as the average of the past 5 years as follows:

Year	Year Average Influent (m3/day)	
2014	625	2706
2015	516	1403
2016	556	1783
2017	810	3058
2018	590	1830
2019	577	2257
2020	606	1724
2021	473	1635
2022	440	1692
5year Average	537.2	1827.6



The average flow of 537.2 m3/day is compared to the rated plant capacity of 800 m3/day to yield a hydraulic reserve capacity of **262.8 m3/day**.

Committed flows were determined on the basis of "connected" and "approved and/or unconnected" lots. "Approved" refers to lots within draft approved subdivisions that have not received final approval. "Unconnected" refers to lots that have private septic disposal services, but would be permitted to connect to municipal sewer services. "Connected" lot counts for each year were obtained from municipal counts of individuals receiving municipal sewer services. "Approved" lot counts were obtained from the Municipality.

Currently it is reported that:

- There are **397**¹ municipal sewer connections
- There are 29 equivalent connections in draft approved subdivisions and/or unconnected lots, and lots that
 are currently on septic that are to be connected to sanitary per by-law. The Merrickville Grove
 Development will add 85 connections (84 Townhouses and 1 15 Unit Apartment, to this for a total of
 114
- The current serviced population is 767.
- Based on the current average flow rate of 537.2 m³/day, the per capita flow rate is an average of 0.700 m³/day (537.2/767=0.700).

Calculation of the total uncommitted hydraulic reserve capacity is as follows:

Calculation of Uncommitted Hydraulic Reserve Capacity

$$C_u = C_r - \left(\frac{(LxF_{STP}xP)}{H}\right)$$

$$C_u = 262.8 - \left(\frac{(114 \times 0.700 \times 767)}{397}\right) > 0$$

$$C_u = 109 \, m3/day > 0$$

Where:

 F_{STP} average daily flow (m³/day/capita)

L number of unconnected and/or approved lots (dimensionless)

H number of connected lots (dimensionless)

P population (dimensionless)

Based on the above calculation the uncommitted hydraulic reserve capacity is **109** m3/day. The average use per connection is 1.35 m3/day/connection (537.2 m3/day / 397 connections). An additional, (approximately) 80 connections could be supported by the plant, at the current water usage rate per lot, to fully commit all the plant capacity to existing and proposed lots.

It is noted that in 2017 very high infiltration and inflow occurred during wet weather periods, that raised the average day flow above the plant's rated capacity. The May 15, 2018 MOE Plant Inspection Report # 1-I96OE highlighted this issue and recommended "that the Municipality of Merrickville-Wolford review and update any/all of it's current Water and Sewer use by-laws to provide an enforceable prohibition of un-authorized connections to its sewage collection system." We understand the Municipality is acting on this recommendation. This action will assist with the reduction of long-term inflow due to illegal stormwater connections to the sanitary collection system. The Village also initiated a sanitary sewer grouting program in 2019 and has continued with further grouting in 2020 through 2022, with the aim to reduce direct infiltration into the sanitary sewer system.

¹ Existing population and approved lots and connections per discussions with Village and OCWA staff



In addition to the above actions, an Infiltration and Inflow (I&I) Study has been performed to establish flows in various catchment areas using flow monitors. The results of the individual wet weather and dry weather flow analysis in each catchment area has aided in quantifying and isolating infiltration and inflow and will provide supporting information for ongoing regular CCTV inspection, infrastructure repair prioritization, inspection of sump pump and roof drain connections to the system, and installation of stormwater collection infrastructure.

Sincerely,

Jp2g Consultants Inc. ENGINEERS · PLANNERS · PROJECT MANAGERS

Andrew MacDonald, P.Eng., Mechanical Engineer Jp2g Consultants Inc.

cc. Neil Caldwell, Jp2g Consultants Inc.



Jp2g No. 19-5031B

June 27, 2023 Village of Merrickville-Wolford Chief Building Official 317 Brock Street West Merrickville, ON, K0G 1N0

Attention: Mr. Doug Robertson, MBA

CAO/Clerk/Director, Economic Development

Village of Merrickville-Wolford

Re: Summary of Merrickville STP Overflow Event April 5 2023

Jp2g has followed up with OCWA for more information on the performance of the plant and pump station during the overflow event of April 5, 2023.

As OCWA reported: "The evening of April 5th, 2023 high flows resulting from heavy rain caused the hydraulic overload of the sewage pumping station in Merrickville, which discharged to the Rideau River." The overflow amount was 360m3. Water samples of the overflow revealed very low BOD and TSS, indicating highly dilute sewage.

OCWA also explained that the pump station equipment functioned as designed, with all three pumps engaging to run when the high water level mark was exceeded. The influent water to the pump station was more than the pumping rate which resulted in the bypass. Despite the flows at the plant far in excess of the plant rated capacity of 800m3/day average flow, there were no effluent quality exceedances at the plant.

The high flow experienced on April 5th was 3129m3/day, far more than the previous three years, as shown in the graph below. The high flow corresponds with an intense rainfall event of 65mm, which followed a period of warm days at the end of March that reduced the snow depth on the ground from 24cm to 0cm. This represents a worst-case scenario of saturated ground that is unable to absorb water, and heavy rainfall combined with snow melt.

Sincerely,

Jp2g Consultants Inc. ENGINEERS · PLANNERS · PROJECT MANAGERS

Andrew MacDonald, P.Eng., Mechanical Engineer Jp2g Consultants Inc.

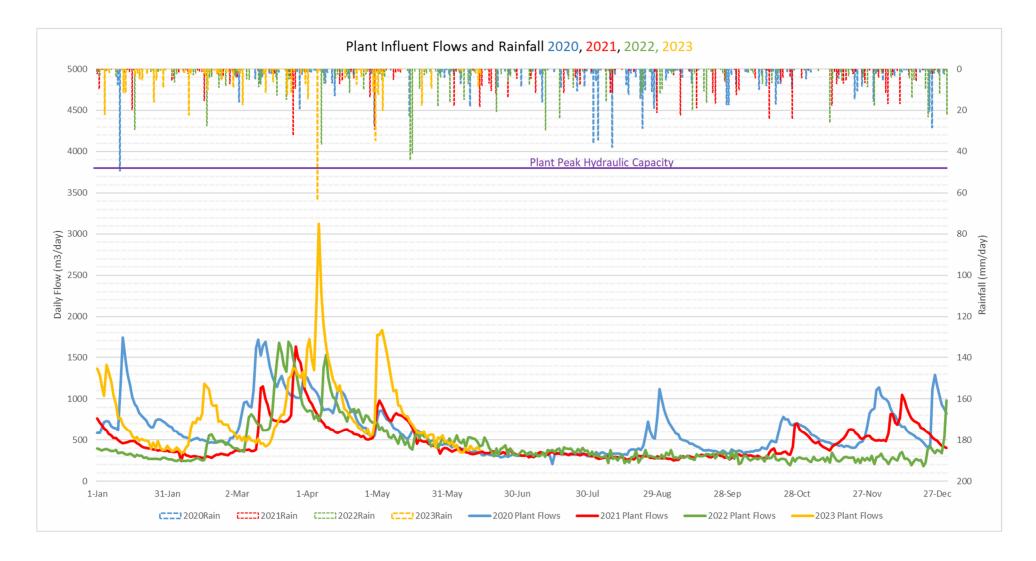
cc. Neil Caldwell, Jp2g Consultants Inc.



Jp2g Consultants Inc.

ENGINEERS • PLANNERS • PROJECT MANAGERS

1150 Morrison Drive, Suite 410 Ottawa, ON K2H 8S9 T 613-828-7800, F 613-828-2600, www.jp2g.com



For Clerk's use only, if required:

Recorded Vote Requested

By:

Barr	Υ	N	
Cameron	Υ	N	
Gural	Υ	N	
Ireland	Υ	N	
Maitland	Υ	N	

Resolution Number: R - - 23

Date: August 14, 2023

Moved by: Barr Gural Ireland Maitland

Seconded by: Barr Gural Ireland Maitland

Be it hereby resolved that:

The Council of the Corporation of the Village of Merrickville-Wolford does hereby receive the 2023 Gravel Roads Needs Study from Jp2g Consultants Inc., for information purposes.

Michael Cameron, Mayor	

TOWNSHIP OF MERRICKVILLE-WOLFORD GRAVEL ROAD NEEDS STUDY 2023

August 2023

Jp2g Consultants Inc.
Engineers · Planners · Project Managers
12 International Drive
Pembroke, Ontario K8A 6W5
Telephone (613) 735-2507
Facsimile (613) 735-4513



Village of Merrickville-Wolford GRAVEL ROAD NEEDS STUDY 2023

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- D ROAD IMPROVEMENT PROGRAM
- E-1 2023 BENCHMARK UNIT COSTS
- E-2 SAMPLE RURAL ROAD CROSS SECTIONS

INTRODUCTION

A substantial portion of a rural Municipality's annual budget is typically allocated to the road system for the purpose of maintenance and capital improvements. The current replacement value of the Village road system is on the order of \$54,310,000. Of the road system, the municipality has gravel roads totaling \$20,000,000 of replacement value. This is a significant investment to be maintained into the future. Roads, like equipment, wear out and must be maintained, rehabilitated, or replaced at predetermined intervals. Failure to properly maintain and rehabilitate at the appropriate time results in increasing costs and the risk of a more expensive replacement. To ensure that the Municipality is managing the road system effectively, Council must be aware of the condition of the present gravel road system in order to confirm future maintenance and capital works needs.

This Road Management Plan provides the following:

- a) A gravel road system inventory including all municipally maintained gravel roads where segments have been created by taking into account the road condition, geometric elements (road width) and surface type.
- b) Identifies those gravel road sections in need of improvement, the type of improvements, and an estimate of cost.
- c) A maintenance and construction program for the gravel road system.

THE VILLAGE ROAD SYSTEM

The Village had previously commissioned an Asset Management Plan in 2020 for O.REG. 588/17 compliance which included the compilation of relevant road segment information and forms the basis of this report, which was built upon with a field review of gravel road conditions in 2023.

In addition to the municipal maintained road network, there are privately maintained roads within the Village. The maintenance and upkeep of these roads is the responsibility of their respective owners. This report does not address the costs related to private roads.

The total gravel road lengths are as follows:

2023 Gravel Road Need Study (this report) 52.6 km

The gravel road system distribution (urban, semi-urban, rural) is categorized as follows:

Rural, single lane 48.4 km Rural, double lane 4.2 km

ROAD SYSTEM INVENTORY

Road Appraisal Forms have been prepared for each road in the road network and the forms contain information such as: geometry (length, width), surface type, condition rating, recommended improvements, and improvement costs based on estimated benchmark costs. A particular road may have one or a number of section numbers assigned to it to distinguish variations in geometrics or the condition rating. A sample Road Appraisal Form is included in Appendix A.

A map of the Village Road System is provided in Appendix B.

CONDITION RATINGS

A condition rating of good, fair, or poor is assigned to each road section. This assignment is based upon a visual assessment of the existing surface, the ride quality, and observable structural condition of the road. "Good" is the best condition (i.e. a newly constructed road or newly graveled and graded), "fair" is a road that is nearing scheduled maintenance/rehabilitation, and "poor" is a road that is past due for maintenance/rehabilitation and may require reconstruction.

For comparison with a numerical system rating: good, fair, and poor correspond with the following numerical ranges:

Good 8-10 Fair 5-7

Poor Less than 5

Road reviews are normally conducted in the spring, when the frost is leaving the ground and the road base is soft. It is at this time when the structural performance of a road is most evident. In this case, the road system was travelled and each section was assessed for condition rating during April of 2023.

The Village Public Works employee Alec McGregor and Jp2g Civil staff Curtis Millar conducted the field review and agreed to the condition ratings and improvements required for each road section.

The gravel road conditions as reported this spring are:

Rating	2023 Assessment
Good	5%
Fair	49%
Poor	46%

This indicates that the municipal gravel roads fall between a fair and poor condition in 2023. Without continued investment, the roads in good and fair condition will deteriorate to a poor condition.

LIFE CYCLES AND MAINTENANCE

All roads surfaces have different life expectancies and should be resurfaced within their life cycles before the road base is allowed to deteriorate and suffer structural damage. Failure to resurface within the designated timelines can result in premature failure of the road base, and result in a need for reconstruction. The overall traffic volumes, percentage of truck traffic, the existing road base construction standards/condition, and roadside drainage will also impact the road life cycle.

Roads with condition ratings of poor are in need of immediate improvement. If roads rehabilitation does not occur, damage may become more severe and reconstruction may be necessary. The longer that scheduled rehabilitation is deferred, the greater the risk that reconstruction will be required instead, at a greater cost. Roads having a fair condition should typically be accorded to a higher priority for capital rehabilitation and maintenance works. If these rehabilitation works cannot be scheduled in a timely manner, the road should be closely monitored for evidence of safety concerns and issues remedied with appropriate spot maintenance.

Gravel road condition ratings noted on the breakdown sheets are considered a "snapshot" in time due to continued routine maintenance and ongoing upgrading of the granular top surface. A freshly graded road in late-summer might have a superior rating compared to during the spring. Any noted deficiencies that are not related to depth or width should be dealt with through spot improvements and maintenance items rather than

as a capital budgeting item. Upgrading a road surface from gravel to LCB (surface treatment) or HCB (asphalt surface) is always to be considered as a capital item.

Gravel road sections currently at a condition rating of fair or poor have been assigned costs on the Appraisal Sheets. Roads that are in good condition where surface upgrading is warranted have also been assigned costs on the appraisal sheets. Other spot maintenance requirements have also been identified.

ROAD AND DRAINAGE IMPROVEMENTS/BENCHMARK COSTS

Various road and drainage improvements (reconstruction and rehabilitation) have been recommended and costed in this study and are briefly described as follows below:

Rural Section /w Ditch - Reconstruction: Gravel surface and base

- removal of existing gravel surface and base granulars
- excavation of existing road to depth
- replacement of granulars
- centerline and entrance culvert replacement

Rural Section /w Ditch - Upgrade: 1 lift pavement

- freshen granulars
- installation of asphalt 1 lift
- gravel for shoulders and entrances

Rural Section /w Ditch - Upgrade: Double Surface Treatment ('tar and chip')

- freshen granulars
- installation of double surface treatment
- gravel for shoulders and entrances

The benchmark costs are our opinion of the average costs to have a contractor undertake specific improvements. These costs have been developed based on recent construction costs in the Village area (as provided by Public Works), and also based on Jp2g's experience tendering road projects in Eastern Ontario. These numbers are used to determine a budgetary estimate of costs for the road sections on a per kilometer basis. The benchmark costs used in this report have been included as Appendix E-1. In some situations, additional costs have been assigned to individual road sheets based on site specific features encountered during the road tour (rock, significant slopes, large diameter culverts). These are captured under the spot repairs. All costing is reported using present day values.

The benchmark road cross section is shown in Appendix E-2

GRAVEL NEEDS PROGRAM

Based on this Road Needs Study, the gravel roads will require \$9,000,000 in spot repairs and \$233,000 in widening costs to address deficiencies identified in the Spring 2023 review.

In terms of regular maintenance, it is understood that the municipality has historically allocated \$60,000 for gravel to be purchased and delivered, with municipal forces grading the material. The municipal staff have indicated that this material is spread across 50% of the roads each year. The municipality has 52.6km of road with an average surface width of 5.0m so approximately 131,440 sq.m. of surface area is being graded each year. Based on the results of staff discussions and the road review there is evidence that the road base material and organics are being graded and incorporated into the road surface. This strongly suggests that more gravel needs to be purchased and placed onto the driving surface.

Based upon a purchase price of \$12.45 per tonne, and \$60,000 this represents 4,820 tonnes that can be delivered and graded. A tonne of granular material represents 0.44 cu.m. of material to be spread. Therefore, given a grading lift of 75mm (3 in) of material, the municipality is purchasing enough to permit approximately 4.7 km of roadway per year to be maintained.

Thin lifts of placed granular material are not recommended when the existing granular surface is too thin, as there won't be sufficient material to grade and distribute.

The recommendation is that the municipality try and increase the amount of gravel placed and graded each year such that all the roads are addressed in a 3 year cycle. This should improve the surface riding quality and reduce the frequency of re-grading by ensuring the gravel surface materials are appropriate. The additional material will also make future years regrading easier to smooth out washboarding, fill in potholes, and ruts.

The average rural, single lane road has a surface width of 5.0m and the average rural, double lane road has a surface width of 5.6m. A minimum surface width of 6.0m is a normal standard for the purposes of maintaining access routes for emergency vehicles (fire and ambulance). Few roads, when measured during the field review, met a 6.0m surface width. In most cases the road platform is wide enough, but additional material to widen the driving surface is warranted. A cost for this widening is included in the assessment sheets on a road by road basis, the total cost is estimated to be \$233,000.

To apply 75mm of new gravel to $1/3^{rd}$ of the gravel roads each year to a surface width of 6.0m is anticipated to require 7,890 cu.m. of granular material, or 17,750 tonnes. The total cost of this is estimated to be \$228,000 per year. Based on the \$20,000,000 replacement cost for gravel roads, this represents a maintenance cost of approximately 1% of the replacement valuation.

UPGRADING OF GRAVEL ROADS

Municipalities often desire to upgrade gravel roadways to surface treated (tar and chip) or asphalt to reduce maintenance and provide a better travelled surface among other reasons. From an engineering perspective, the road that is being upgraded needs to have sufficient strength (thickness) of the granular road base and granular subbase so that it can perform as expected. Many rural roads, due to how they were historically constructed, require work to improve the road base to an acceptable standard to support surface treatment (asphalt or 'tar and chip'). Otherwise, the surface treatment breaks up quickly and the expensive surface doesn't last. Engineering design of roadways would normally include a geotechnical assessment to confirm the pavement design including thickness of base and subbase. Drainage of the road base and subbase is also critical to long term performance of the surface and to avoid cracking and moisture intrusion. An engineering design process would address those matters and more.

The municipality should want to have a level of assurance that any money spent on upgrading a surfaced road will perform for years to come and meet ratepayer expectations.

As a rule of thumb, once a roadway is experiencing greater than 200 vehicles per day in traffic, some form of surface treatment can be explored to reduce maintenance costs. The upfront capital costs are higher, however the long term maintenance costs are lower. The lifecycle costs of upgraded roads are also higher than gravel roads, as when they do require rehabilitation a "shave and pave" for asphalt or reapplication of 'tar and chip' are both more expensive than additional gravel.

One additional consideration is that "tar and chip" surface treatments do not perform as well under heavy truck or farm equipment traffic loadings. Roads subject to heavy truck and farm traffic should be strongly considered for surfacing by one or two lifts of asphalt, depending on the volume of traffic.

Based upon our review of the current status of roads in the municipality, the only gravel road that could be considered for immediate upgrading is HF McLean Rd. The estimated cost of upgrading this road (including spot repairs) to asphalt is \$435,000.00.

Other gravel roads in the municipality are dead end, narrow travelled surface, low volume roads impacted by tight rock, experiencing ongoing drainage issues, have narrow rights of way, or a combination of these challenges. It is not advisable to consider surface treating these roads until the other challenges are addressed first.

REVIEW OF SELECTED ROADS FOR UPGRADING

Based on discussions with the municipality, it is understood that there is interest in reviewing several roads for upgrading. The municipality has requested that the following roads be reviewed for upgrading:

- Corktown,
- Yule,
- Pioneer,
- Land O'Nod, and
- Carley's Corner

Corktown Road, 4.6 km

Requires shouldering, culverts, grade raise and digouts, new ditching, ditching cleanouts, and allowance for rock removal. Half of road in fair condition, half in poor condition. Part of the road has a deficient ROW width making undertaking any works more challenging.

Spot Repairs Total \$1,058,000

In order to upgrade this road to asphalt, including other necessary spot repairs a total cost of \$2,656,000 is estimated.

Yule Road, 5.66 km

Requires shouldering, culverts, grade raise and digouts, new ditching, ditching cleanouts, and allowance for rock removal.

Spot Repairs Total \$1,219,000

In order to upgrade this road to asphalt, including other necessary spot repairs a total cost of \$3,242,000 is estimated.

Pioneer Road, 6.02 km

Requires shouldering, culverts, grade raise and digouts, new ditching, ditching cleanouts, and allowance for rock removal. The road has a deficient ROW width making undertaking any works more challenging.

Spot Repairs Total \$884,000

In order to upgrade this road to asphalt, including other necessary spot repairs a total cost of \$3,531,000 is estimated.

Land O'Nod Road, 6.38 km

Requires shouldering, culverts, grade raise and digouts, new ditching, ditching cleanouts, and allowance for rock removal. The road has a deficient ROW width making undertaking any works more challenging. Ends at boundary with Augusta Township, meaning that upgrade works may not be continued further down the road.

Spot Repairs Total \$684,000

In order to upgrade this road to asphalt, including other necessary spot repairs a total cost of \$3,936,000 is estimated.

Carley's Corners Road, 2.3 km

Requires grade raise, new ditching, ditching cleanouts, and allowance for roack removal.

Spot Repairs Total \$457,000

In order to upgrade this road to asphalt, including other necessary spot repairs a total cost of \$1,508,000 is estimated.

The total estimated cost to upgrade these 24.96km of road to asphalt is estimated to be \$12,217,000. Each of these road upgrades would be a significant capital project for the municipality. Based on the number of serviced lots in the area, existing ROW widths, traffic levels, and overall conditions of the roads, upgrades for these roads are not warranted at this time.

CONCLUSION

This report has been compiled to provide Council with a list of road improvements associated with the Village gravel road system. It should be used as a reference document to plan future road improvements, apply for available provincial dollars to ensure that the maximum benefit is being achieved from the roads budget funding.

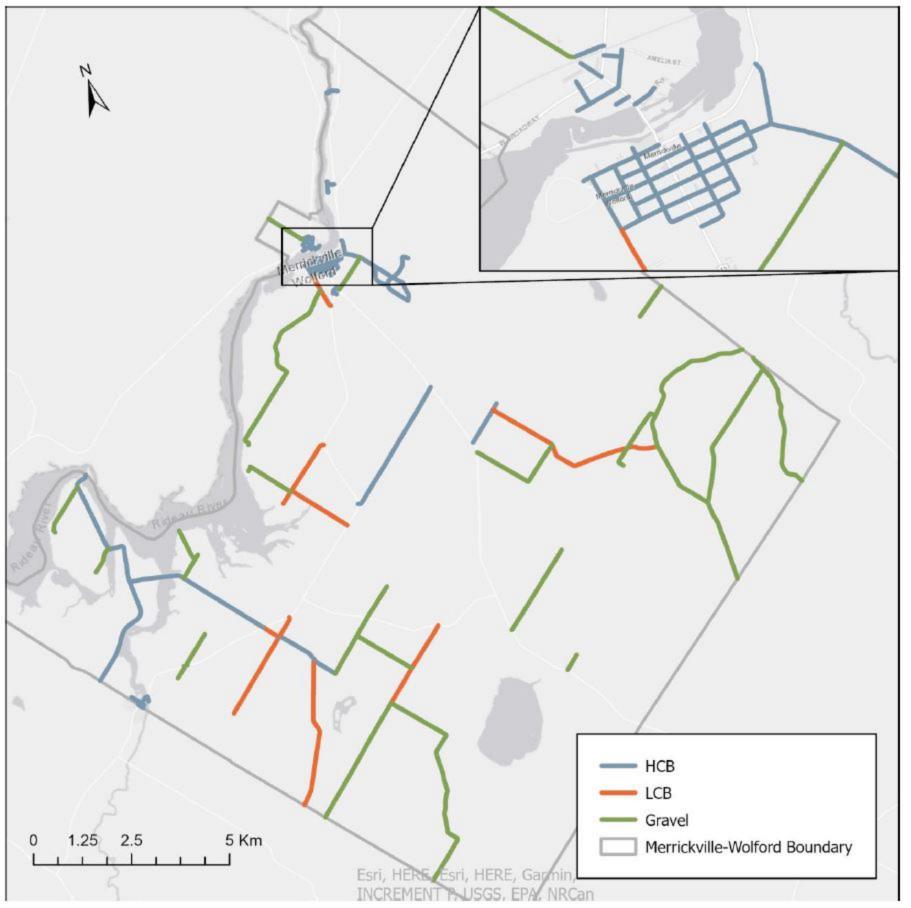
APPENDIX A

SAMPLE ROAD APPRAISAL FORM

Village of	Merrickville-Wolf	ford -	Road Appraisal Form	
Donal/Street Name			Lawath of Dood (loss)	
Road/Street Name			Length of Road (km) Platfrom Width (m)	
From			Surface Width (m)	
			Shoulder Width (m)	
Roadside Environment	Craval			
Surface Type	Gravei		Right of Way Width (m)	
Traffic Counts			Boundary Road (Yes/No)	
Ditching Type			Review Date:	Counting NAIII and
Original Condition Rating			Prepared By:	Curtis Millar
2023 Condition Rating			Reviewed By:	Michael Fadock
	Road Improvem	ı ıents aı	nd Costs	I
	Spot Improve	ment \	Works	
	Cost		Description	
Right of Way				
Culverts				
Ditching				
Grade Raise (Vertical Alignment				
Corrections)				
Spot Digouts or Improvements				
Shouldering Improvements				
Other Works (i.e. Guard Rails)				
Total Cost				
	Ongoing Maint	enance		
	Cost		Description	
Shouldering				
Ditching				
Annual Croud Addition (Douth)				
Annual Gravel Addition (Depth) Other Works (i.e. Guard Rail				
Repair)				
Total Cost				
	Constructi	on Wo	rks	
	Cost		Description	
Gravel Addition in Excess of			200.150011	
Annual Addition				
Full Depth Reconstruction Back				
to Gravel Road				
Upgrade to Asphalt without				
Reconsturtion, Rural Section				
(Gravel Padding Only)				
Upgrade to Asphalt Full Depth				
Reconstruction, Rural Section				
neconstruction, Rural Section				
Upgade to Asphalt Full Depth				
Reconstruction, Urban Section				
(Inc, Gutters and storm system)				
General Notes:				

APPENDIX B

VILLAGE ROAD SYSTEMS MAPS ROAD SYSTEM INDEX MAP



APPENDIX C

2023 GRAVEL ROAD NETWORK SUMMARY SHEET AND INDIVIDUAL APPRAISAL SHEETS

Village	of Merrickville-	Wolford - Road Appraisal Form		
Road/Street Name	Parhor Poad	Length of Road (km)	1.61	
-	Maitland Road		1.61	
		Platfrom Width (m)	5.4	
	County Road #41	Surface Width (m)	3.4	
Roadside Environment		Shoulder Width (m)	1	
Surface Type		Right of Way Width (m)	20.1	
Traffic Counts	•	Boundary Road (Yes/No)	No	
Ditching Type	•	Review Date:	2023-04-12	
Original Condition Rating		Prepared By:	Curtis Millar	
2023 Condition Rating	Poor	Reviewed By:	Michael Fadock	
	Road Impr	ovements and Costs		
	•	provement Works		
	Cost	Description		
Right of Way				
Culverts				
		-Rock is high is ditches in mulitple areas prever	-	
		deeper and getting postive drainage to outlets		
		'-Between Carkner Road and County Road #41	the road is soft and	
		wet with some water sitting in the ditches. It n	nay require some ditch	
		cleanout and some more material on the surfa	ce to build up road	
Ditching	\$ 96,000	base.		
	,	-In the Treed area between Maitland Road and	Carkner Road water	
		is siting in the ditches on both sides of the road. Road is wet and soft		
		through this area.		
		-North of the treed area the ditches are flowing or dry and they		
		roadbase is still wet and soft. May require a di	- '	
Grade Raise (Vertical Alignment		of road subbase and base to allow water unde	·	
Corrections)		to ditches.	road to drain away	
Spot Digouts or Improvements	\$ 370,000	1km of full depth digout required		
Shouldering Improvements	γ 370,000	zam or ran depth dispatcrequired		
Other Works (i.e. Guard Rails)	\$ 75,000	- Rock Removal		
Total Cost	· · · · · · · · · · · · · · · · · · ·			
10101 0031	ÿ 311,000			
	Ongoing I	Maintenance Works		
	Cost	Description		
Shouldering				
Ditching				
Gravel Addition (Depth)	\$ 20,000	Provide 75mm depth additional granulars		
Other Works (i.e. Guard Rail Repair)				
Total Cost	\$ 20,000			
		truction Works		
Dood Wildowin	Cost	Description Description		
Road Widening	\$ 18,000	Widen road to 6.0m		
Full Depth Reconstruction	\$ 225,700	Remaining length of road for full depth recons	truction	
Upgrade Surface to "tar and chip"	\$ 400,000	Includes full depth reconstruction and widenin	g	
Upgrade Surface to Asphalt	\$ 695,000	Includes full depth reconstruction and widenin	g	
General Notes:		 areas to grade out a proper crown to drain wate surface and has spilled off in ditches from plowi		

Village o	f Merrickville-\	Wolford - Road Appraisal Form		
Road/Street Name	Barber Road	Length of Road (km)	1.06	
-	County Road #41	Platfrom Width (m)	5.4	
	Dead End East	Surface Width (m)	3.4	
Roadside Environment		Shoulder Width (m)	1	
Surface Type	,	Right of Way Width (m)	20.1	
Traffic Counts			No	
		Boundary Road (Yes/No)		
Ditching Type		Review Date:	2023-04-12	
Original Condition Rating		Prepared By:	Curtis Millar	
2023 Condition Rating	Poor	Reviewed By:	Michael Fadock	
	Road Impr	ovements and Costs		
	Spot Im	provement Works		
	Cost	Description		
		-At county road #41 intersection there was a b	erm built up on the	
		south side and it has been removed. Some dite	ching done but	
		more required to get postive flow to county di	itch and get bottom	
		of ditch below subbase.	5 · · · · · · · · · · · · · · · · · · ·	
		-Grass growing into road surface in areas, sho	ulders could be	
		rolled off to remove the grass and additional g		
Right of Way		1	ranulai IIIdleIIdl	
Right of Way	¢ 2.222	added to build road up.		
Culverts	\$ 2,000			
		-Rock is high and visible in the ditches from co	-	
		bridge. Rock is high in road bed as well at cres	t of hill before	
		bridge. Rock needs to be removed from road b	pase or material	
		added to be able to grade over rock.		
		-Passed the bridge to th dead end there is not	much of a ditch	
		established but the sloping does slope away to		
		More Granular 'A' could be added to build roa		
Ditching	\$ 80,000	increase sloping.	a base up more to	
Dittimig	7 00,000	-The interface between the asphalt and the gr	aval at the county	
Grade Raise (Vertical Alignment		road is potholed and rough, could use more m	lateriai grade out a	
Corrections)		proper crown.		
		-#614 the laneway needs an entrance culvert,	_	
		down from the field and yard on the north side	e of the laneway	
Spot Digouts or Improvements		and runs over the laneway and then down the	side of the road	
Shouldering Improvements				
Other Works (i.e. Guard Rails)	\$ 112,500	rock removal		
Total Cost		Tock Terrioval		
Total Cost	7 194,500			
	Ongoing I	Maintenance Works		
	Cost	Description		
Shouldering		·		
Ditching				
Gravel Addition (Depth)	\$ 13,000	Provide 75mm depth additional granulars		
	, 13,000			
Other Works (i.e. Guard Rail Repair)				
Total Cost	\$ 12,000			
i otai Cost	\$ 13,000			
	Cons	truction Works		
	Cost	Description		
Road Widening	\$ 12,000	Widen road to 6.0m		
Full Depth Reconstruction	\$ 392,200			
Hannada Conference III.	ć 507.000	Includes full denth reconstruction and wilders	29	
Upgrade Surface to "tar and chip"	\$ 507,000	Includes full depth reconstruction and widening	ıg	
Upgrade Surface to Asphalt	\$ 701,000	Includes full depth reconstruction and widening		
General Notes:	-lack of material in	areas to grade out a proper crown to drain wa	ater off road Late of	
General Notes:		i areas to grade out a proper crown to drain wa surface and has spilled off in ditches from plov		
		The state of the s	5	

Village	of Merrickville-V	Wolford - Road	Appraisal Form		
Road/Street Name	Bolton Road		Length of Road (km)	3.9	
	Harvey Road		Platfrom Width (m)	7.6	
	Pioneer Road		Surface Width (m)	5.6	
Roadside Environment			Shoulder Width (m)	1	
Surface Type			Right of Way Width (m)	20.1	
Traffic Counts			Boundary Road (Yes/No)	Yes	
Ditching Type			Review Date:	2023-04-12	
Original Condition Rating			Prepared By:	Curtis Millar	
2023 Condition Rating			Reviewed By:	Michael Fadock	
2023 Condition Rating	1 001		neviewed by.	WHEHACH AUGER	
	Road Impro	vements and Costs	<u> </u>		
	Spot Imp	rovement Works			
	Cost		Description		
		-The ROW could be	brushed back in areas to all	ow for the	
Right of Way		construction of dit	ches.		
Culverts					
		-Ditching is needed	d in many areas along the roa	d where it is not	
		_	drainage waters from the roa		
		ditching)	S	,	
		-At the hydro line crossing there is water sitting alongside the road			
Ditching	\$ 120,000	and the road is wet, ditching requried to drain water down road to			
	Ψ 120,000	-The road is low throughout, with shallow ditches or none present			
			raised to get base material a	•	
		ditches to keep the base material dry.			
		-From #1278 north to the bridge before the Land O'Nod Road			
		stones are being pulled up from the subbase material by the			
		grader, more granular 'A' base material is needed to build road up.			
Grade Raise (Vertical Alignment		755m of 150mm grade raise allowed			
Corrections)	\$ 67,950	755m or 150mm gr	rade raise allowed		
Spot Digouts or Improvements					
Shouldering Improvements					
Other Works (i.e. Guard Rails)	\$ 43,300	-brushing			
Total Cost	\$ 231,250				
	Ongoing M	laintenance Works			
	Cost	lanitenance works	Description		
Shouldering	COSC		Description		
Ditching					
Gravel Addition (Depth)	\$ 49,000	Provido 75mm don	oth additional granulars		
Other Works (i.e. Guard Rail Repair)	49,000	Frovide 75mm dep	otti additioriai grandiais		
Total Cost	\$ 40,000				
Total Cost	\$ 49,000				
	Const	ruction Works			
	Cost		Description		
Road Widening	\$ 7,000	Widen road to 6.0r	-		
Full Depth Reconstruction	\$ 1,443,000				
Upgrade Surface to "tar and chip"	\$ 1,828,000	Includes full depth	reconstruction and widening	5	
Upgrade Surface to Asphalt	\$ 2,542,000	Includes full depth	reconstruction and widening	3	
General Notes:		_	proper crown to drain water ed off in ditches from plowin		

Village o	of Merrickville-	Wolford - Road Appraisal Form			
Road/Street Name	Carkner Road S	Length of Road (km)	0.3		
-	Weedmark Road	Platfrom Width (m)	5.5		
	Muncipal Limit	Surface Width (m)	3.5		
Roadside Environment		Shoulder Width (m)	1		
Surface Type		Right of Way Width (m)	12.3		
Traffic Counts		Boundary Road (Yes/No)	No		
Ditching Type	ļ	Review Date:	2023-04-12		
Original Condition Rating	•	Prepared By:	Curtis Millar		
2023 Condition Rating		Reviewed By:	Michael Fadock		
	Road Impr	ovements and Costs			
	Spot Im	provement Works			
	Cost	Description			
Right of Way					
Culverts					
Ditching	\$ 24,000	600m ditching			
		-Entire length of road from Weedmark road to municipal			
		maintenance limit is soft and wet. Ditches established on either			
		side are working but could use some cleanout to restore better			
		flow to municipal drain in north. Not a lot of n	naterial on road to		
Grade Raise (Vertical Alignment		grade, stones from granular 'B' present on sur	face, could use		
Corrections)		some granular 'A' to build road up and re-esta	blish crown.		
Spot Digouts or Improvements	\$ 111,000	300m full depth digout required			
Shouldering Improvements					
Other Works (i.e. Guard Rails)					
Total Cost	\$ 135,000				
	Ongoing	Maintenance Works			
	Cost	Description			
Charildania a	Cost	Description			
Shouldering					
Ditching	\$ 4,000	Dravida 75 mana danah additional aranylara			
Gravel Addition (Depth) Other Works (i.e. Guard Rail Repair)	\$ 4,000	Provide 75mm depth additional granulars			
Total Cost	\$ 4,000				
Total Cost	3 4,000				
	Cons	truction Works			
	Cost	Description			
Road Widening		Widen road to 6.0m			
Full Depth Reconstruction	\$ -				
Upgrade Surface to "tar and chip"	\$ 32,000	Includes full depth reconstruction and widening	ng		
Upgrade Surface to Asphalt	\$ 87,000	Includes full depth reconstruction and widenii	ng		
General Notes:		terial on surface and has spilled off in ditches for grade out a proper crown to drain water off r			

Village o	of Merrickville-	Wolford - Road Appraisal Form			
Road/Street Name	Carkner Road N	Length of Road (km)	0.4		
	Barber Road	Platfrom Width (m)	5.5		
	Muncipal Limit	Surface Width (m)	3.5		
Roadside Environment		Shoulder Width (m)	1		
Surface Type		Right of Way Width (m)	12.3		
Traffic Counts		Boundary Road (Yes/No)	No		
Ditching Type	•	Review Date:	2023-04-12		
Original Condition Rating	•	Prepared By:	Curtis Millar		
2023 Condition Rating		Reviewed By:	Michael Fadock		
	Road Impr	ovements and Costs			
		provement Works			
<u> </u>	Cost	Description			
		-Trees need to be brushed and cut back on ea	st side of road at		
		#183, they are next to the roadway and are po			
Right of Way		vehicles and make it hard to maintain road.			
Culverts					
		-At the Barber Road end down to #163 ditch cleanout required to			
		establish a ditch on both side of the road to get water to drain to			
		outlet at #183. Mostly needed on the south sign			
Ditching	\$ 32,000	the field and there is no ditch present there.			
	φ 32,000	-Rough in areas where water cannot get off ro	ad or ditchin is		
Grade Raise (Vertical Alignment		required. Add material to build up road to pro			
Corrections)		surface of the road.	vide didiliage on the		
Spot Digouts or Improvements		sarrace of the road.			
Shouldering Improvements					
Other Works (i.e. Guard Rails)	\$ 1,900	95m brushing			
Total Cost	\$ 33,900	55in brushing			
10141 0031	33,300				
	Ongoing I	Maintenance Works			
	Cost	Description			
Shouldering					
Ditching					
Gravel Addition (Depth)	\$ 5,000	Provide 75mm depth additional granulars			
Other Works (i.e. Guard Rail Repair)		-			
Total Cost	\$ 5,000				
		truction Works			
	Cost	Description			
Road Widening	\$ 4,000	Widen road to 6.0m			
Full Depth Reconstruction	\$ 148,000				
Upgrade Surface to "tar and chip"	\$ 191,000	Includes full depth reconstruction and widening	ng		
Upgrade Surface to Asphalt	\$ 264,000	Includes full depth reconstruction and widening	ng		
General Notes:		terial on surface and has spilled off in ditches for grade out a proper crown to drain water off r	-		

Village o	of Merrickville-	Wolford - Road	l Appraisal Form		
			11		
Road/Street Name	Corkoran Road N		Length of Road (km)	0.6	
From	County Road #16		Platfrom Width (m)	6.1	
То	Dead End East		Surface Width (m)	4.1	
Roadside Environment	Rural, Single Lane		Shoulder Width (m)	1	
Surface Type	Gravel		Right of Way Width (m)	20.1	
Traffic Counts	N/A		Boundary Road (Yes/No)	No	
Ditching Type	Open Ditch		Review Date:	2023-04-12	
Original Condition Rating	Poor		Prepared By:	Curtis Millar	
2023 Condition Rating	Poor		Reviewed By:	Michael Fadock	
		ovements and Cost	<u>ts</u>		
	-	provement Works			
	Cost		Description		
Right of Way		-Some brushing co	mpleted in last year on roa	a.	
Culverts					
			here is rock high in the ditcl	hes, water is slowly	
		draining away but could be improved.			
		-At intersection to end of yard of #118 on south side of road there is water sitting in shallow ditch. Could used to be ditched deeper			
		_		be ditched deeper	
Ditching	\$ 32,800	·	outlet at county road.		
Grade Raise (Vertical Alignment		-Road profile is flat	t, needs some gravel to esta	ablish a proper	
Corrections)		crown.			
Spot Digouts or Improvements					
Shouldering Improvements					
Other Works (i.e. Guard Rails)		Rock removal			
Total Cost	\$ 82,800				
	Onnaine I	Maintananaa 18/aul			
	Cost	Maintenance Work	Description Description		
Shouldoring	Cost		Description		
Shouldering					
Ditching Crovel Addition (Donth)	\$ 8,000	Dravida 75mm dar	ath additional granulars		
Gravel Addition (Depth) Other Works (i.e. Guard Rail Repair)	\$ 8,000	Provide 75mm dep	oth additional granulars		
· · · · · · · · · · · · · · · · · · ·	¢ 0,000				
Total Cost	\$ 8,000				
	Cons	truction Works			
	Cost		Description		
Road Widening	\$ 5,000	Widen road to 6.0			
Full Depth Reconstruction	\$ 222,000				
Upgrade Surface to "tar and chip"	\$ 285,000	Includes full depth	reconstruction and wideni	ng	
Upgrade Surface to Asphalt	\$ 395,000	Includes full depth	reconstruction and wideni	ng	
General Notes:	-Lack of material in	areas to grade out	t a proper crown to drain w	ater off road	

Village o	of Merrickville-V	Volford - Road Appraisal Form			
David Charles Name	Card Larres Dated	Leading Dead (Lea)	2.2		
Road/Street Name		Length of Road (km)	2.3		
	Read Street	Platfrom Width (m)	8.5		
	Boyd Landing Lane	Surface Width (m)	6.5		
Roadside Environment		Shoulder Width (m)	1.0		
Surface Type		Right of Way Width (m)	12.2		
Traffic Counts	•	Boundary Road (Yes/No)	No 2022 04 42		
Ditching Type	•	Review Date:	2023-04-12 Curtis Millar		
Original Condition Rating		Prepared By:			
2023 Condition Rating	Fair	Reviewed By:	Michael Fadock		
	Road Impro	ovements and Costs	!		
	Spot Imp	rovement Works			
	Cost	Description			
Right of Way					
Culverts					
Ditching	\$ 48,000	-#353 there is no ditching present or sloping to from road. Shoulders are high and holding wat road is soft and potholes present, water standi where for water to outlet easily.	er on road. #459 ng in ditches, no		
		-Rock high in the road, grader hits it when grad	· ·		
Grade Raise (Vertical Alignment		be raised or rock removed. 150mm for 2300m of road			
Corrections)	\$ 207,000	-Where the road is soft and wet at the dead end and other areas			
Spot Digouts or Improvements	\$ 103,600	diggout is suggested to install some geotextile cloth on the subgrade and granular 'B' material added to help keep the base material dry and add strength to the road subbase. - 280m allowance			
Shouldering Improvements					
Other Works (i.e. Guard Rails) Total Cost	\$ 100,000 \$ 458,600				
	Ongoing M	 aintenance Works			
	Cost	Description			
Shouldoring	Cost	Description			
Shouldering Ditching					
Gravel Addition (Depth)	\$ 31,000	Provide 75mm depth additional granulars			
Graver Addition (Beptin)	31,000	1 Tovide 75mm depth daditional grandars			
Other Works (i.e. Guard Rail Repair)					
Total Cost	\$ 31,000				
	. 22,200				
	Consti	ruction Works			
	Cost	Description			
Road Widening	\$ -				
Full Depth Reconstruction	\$ 747,400				
Upgrade Surface to "tar and chip"	\$ 971,000	Includes full depth reconstruction			
Upgrade Surface to Asphalt	\$ 1,391,000	Includes full depth reconstruction			
General Notes:		 rial on surface and has spilled off in ditches from grade out a proper crown to drain water off roa	-		

Village	of Merrickville-V	Volford - Road	Appraisal Form		
Road/Street Name	Corktown Road		Length of Road (km)	2.3	
	Boyd Landing Lane		Platfrom Width (m)	7.3	
	Corktown Lane		Surface Width (m)	5.3	
Roadside Environment			Shoulder Width (m)	1.0	
Surface Type	•		Right of Way Width (m)	20.1	
Traffic Counts			Boundary Road (Yes/No)	No	
Ditching Type			Review Date:	2023-04-12	
Original Condition Rating			Prepared By:	Curtis Millar	
2023 Condition Rating			Reviewed By:	Michael Fadock	
		rovement Works			
	Cost	rovement works	Description		
	COSC	-Cleared back for m	ost part behind existing ditch	ning in come areas	
			ared back further to allow for		
	4 40 000		Om of brushing allowed for	ditching where	
Right of Way	\$ 12,000		<u>-</u>		
			rts or ditches at Cedar Gate I		
		Lane. Soft area of ro	oad and a significant amount	of potholing	
Culverts	\$ 19,000				
		-Rock shallow in ditches in this section, solid rock observed in ditch			
		between #932 and #973 on south side of road impeding flows and			
			keeping water high at subbase material level.		
			has sections with no ditching		
			tches at #576, water sitting o	on edge of road as	
Ditching	\$ 120,000	ditch has no positiv	e slope to outlet.		
Grade Raise (Vertical Alignment		150mm grade raise	allowance for 700m		
Corrections)	\$ 63,000				
		-#982 to dead end i	s very soft, visible deflection	in surface when	
		driving or walking o	n it, cracking in surface and v	wet. Requires a lot	
Spot Digouts or Improvements	\$ 236,800	of maintenance to l	keep potholes out. 640m allo	wance	
		-In some areas the	road surface is lower then sh	oulders and water	
Shouldering Improvements		sits on road.			
Other Works (i.e. Guard Rails)	\$ 150,000	rock removal			
Total Cost	\$ 600,800				
	0				
	Cost	laintenance Works	Description		
Shouldering	COST		Description		
		-Ditching completed	d on south side from #932 to	dead end recently	
Ditching	ć 20.000	<u> </u>		dedd end recently.	
Annual Gravel Addition (Depth)	\$ 29,000	Provide 75mm depi	th additional granulars		
Other Works (i.e. Guard Rail Repair)					
Total Cost	\$ 29,000				
10ta 2032	25,000				
	Const	ruction Works			
	Cost		Description		
Road Widening	\$ 7,000	Widen road to 6.0m	1		
Full Depth Reconstruction	\$ 614,200				
Upgrade Surface to "tar and chip"	\$ 844,000	Includes full depth	reconstruction and widening		
Upgrade Surface to Asphalt	\$ 1,265,000	Includes full depth	reconstruction and widening		
General Notes:	ditches to the desired proper road cross sed life of the road. Subb	d outlets. This sectio ction was constructe ase is likely just clay from plowing. Lack c	water is sitting preventing p n was municipally assumed i d, just granular 'A' material a , silt. Lots of coarse material of material in areas to grade o	n the 70's. No added at over the on surface and has	

Village	of Merrickville-	Wolford - Road	Appraisal Form		
Road/Street Name	Gardiner Road		Length of Road (km)	0.43	
	County Road #15		Platfrom Width (m)	6.4	
	Dead End East		Surface Width (m)	4.4	
Roadside Environment			Shoulder Width (m)	1	
Surface Type			Right of Way Width (m)	12.2	
Traffic Counts			Boundary Road (Yes/No)	No 12.2	
Ditching Type	•		Review Date:	2023-04-12	
Original Condition Rating	•		Prepared By:	Curtis Millar	
2023 Condition Rating			Reviewed By:	Michael Fadock	
2023 Condition Nating	ı alı		Neviewed by.	IVIICIIAEI I AUUCK	
	Road Impr	ovements and Cost	:S_		
	Spot Im	provement Works			
	Cost		Description		
Right of Way		-Right of Way was	brushed last year to open th	e road up.	
Culverts	\$ 9,000				
		-Ditching has limite	ed outlets as the landscaping	around is higher	
Ditching	\$ 34,400	then the road hold	ing water up to road base.		
		-Landscaping along the road is higher then the road base, water			
Grade Raise (Vertical Alignment		stays on the road base and in ditches. 430m grade raise allowance			
Corrections)	\$ 38,400	of 150mm			
Spot Digouts or Improvements					
		-Shoulders are high	n along road holding water o	n road base. The	
		edges of the road v	were soft when walking on t	hem. No water	
		present on the roa	d during the investagtion bu	t potholing was	
Shouldering Improvements		present indicating	water was sitting on the roa	d.	
Other Works (i.e. Guard Rails)					
Total Cost	\$ 81,800				
10ta1 2031	ψ 01,000				
	Ongoing I	Maintenance Work	S		
Cost Description					
Shouldering					
Ditching					
Annual Gravel Addition (Depth)	\$ 5,000	Provide 75mm dep	oth additional granulars		
Other Works (i.e. Guard Rail Repair)					
Total Cost	\$ 5,000				
	0				
		truction Works	Description		
Pood Widening	Cost \$ 3,000	Widen road to 6.0r	Description		
Road Widening	\$ 3,000	vviuen road to 6.0	11		
Full Depth Reconstruction	\$ 159,100				
Upgrade Surface to "tar and chip"	\$ 204,000	Includes full depth	reconstruction and widenin	g	
Upgrade Surface to Asphalt	\$ 283,000	Includes full depth	reconstruction and widenin	g	
Upgade to Asphalt Full Depth Reconstruction, Urban Section (Inc, Gutters and storm system)					
General Notes:		vey drainage waters	a proper crown to drain wate s to the limited outlets and g nding landscape.	_	

Village	of Merrickville-\	Wolford - Road Appraisal Form		
Road/Street Name	Gemmell Road	Length of Road (km)	1.36	
	Roses Bridge Road	Platfrom Width (m)	7.3	
	Dead End North	Surface Width (m)	5.3	
Roadside Environment		Shoulder Width (m)	1	
Surface Type		Right of Way Width (m)	12.2	
Traffic Counts		Boundary Road (Yes/No)	No 12.2	
Ditching Type	•	Review Date:	2023-04-12	
Original Condition Rating		Prepared By:	Curtis Millar	
2023 Condition Rating		Reviewed By:	Michael Fadock	
		neviewe 21.		
		ovements and Costs		
		provement Works		
	Cost	Description		
		-Some trees in right of way preventing proper di		
		90 degree turn and #253, could use to be remov	ed.	
Right of Way	\$ 5,000			
Culverts				
Ditching	\$ 30,000			
		-Road is level with surrondings in from intersection to 90 turn, coul		
		use some grade raise and further ditching to help drain the area.		
		Good outlet to the south at 90 degree turn.		
		-At #253 the road base is soft and wet, ditched of	on both sides but it	
Grade Raise (Vertical Alignment		is shallow and could use to be deeper to get roa	d base to drain.	
Corrections)	\$ 49,500	550m grade raise allowance		
Spot Digouts or Improvements	\$ 81,400			
		-Shoulders are high from 315 to dead end causir	ng water to sit and	
		run down road to river. There are a few other sp	oots between #315	
		and #253 where the shoulders are high holding v	water on the road as	
Shouldering Improvements		well. Potholing present at all locations.		
Other Works (i.e. Guard Rails)				
Total Cost	\$ 165,900			
		Naintenance Works		
	Cost	Description		
Shouldering				
Ditching	4 .=	-Ditched down to the 90 degree turn in 2017.		
Annual Gravel Addition (Depth)	\$ 17,000	Provide 75mm depth additional granulars		
Other Wester (i.e. Count Beil Berein)				
Other Works (i.e. Guard Rail Repair) Total Cost	ć 17.000			
Total Cost	\$ 17,000			
	Const	ruction Works		
	Cost	Description		
Road Widening	\$ 4,000	Widen road to 6.0m		
Full Depth Reconstruction	\$ 421,800			
Upgrade Surface to "tar and chip"	\$ 558,000	Includes full depth reconstruction and widening		
Upgrade Surface to Asphalt	\$ 807,000	Includes full depth reconstruction and widening		
General Notes:		reas to grade out a proper crown to drain water esent in the ditch from plowing operations.	off road. Coarse	

Village of M	errickville-Wolf	ord - Road Appraisal Form	
Road/Street Name	Hawley Road	Length of Road (km)	1.3
	Dead End West	Platfrom Width (m)	6
	Kilmarnock Road	Surface Width (m)	4
Roadside Environment		Shoulder Width (m)	-
Surface Type	_	Right of Way Width (m)	18
Traffic Counts		Boundary Road (Yes/No)	No
Ditching Type	•	Review Date:	2023-04-2
Original Condition Rating		Prepared By:	Curtis Millar
2023 Condition Rating		Reviewed By:	Michael Fadock
	1 411	neviewed by:	THICH GET T GGOCK
	Road Improvem		
	Spot Improve		
	Cost	Description	
D: 1		-Some brushing needed between #	#259 and #333 on
Right of Way	\$ 4,000	north side of road.	
Culverts			
Ditching	\$ 20,000		
Grade Raise (Vertical Alignment		-At the intersection the road is pot	
Corrections)	A 55.500	Ditches are shallow and could be o	leaned out.
Spot Digouts or Improvements	\$ 55,500		
Shouldering Improvements			
Other Works (i.e. Guard Rails)			
Total Cost	\$ 79,500		
	Ongoing Maint	enance Works	
	Cost	Description	
Shouldering			
Ditching			
Annual Gravel Addition (Depth)	\$ 17,000	Provide 75mm depth additional gr	anulars
Other Works (i.e. Guard Rail Repair)			
Total Cost	\$ 17,000		
Total cost	7 17,000		
	Construction	on Works	
	Cost	Description	
Road Widening	\$ 8,000	Widen road to 6.0m	
Full Depth Reconstruction	\$ 432,900		
Upgrade Surface to "tar and chip"	\$ 569,000	Includes full depth reconstruction	and widening
Upgrade Surface to Asphalt	\$ 811,000	Includes full depth reconstruction	and widening
General Notes:		areas to grade out a proper crown t spilling off on shoulders from winte	

Villag	e of Merrickville-	-Wolford - Road	Appraisal Form	
Road/Street Name	HF Mclean Road		Length of Road (km)	0.96
	County Road #15		Platfrom Width (m)	8.5
	Collar Hill Road		Surface Width (m)	6.5
Roadside Environment			Shoulder Width (m)	1
Surface Type			Right of Way Width (m)	20.1
Traffic Counts			Boundary Road (Yes/No)	No
Ditching Type			Review Date:	2023-04-12
Original Condition Rating	•		Prepared By:	Curtis Millar
2023 Condition Rating			Reviewed By:	Michael Fadock
3			,	
		rovements and Cost	<u>:s</u>	
	•	provement Works		
	Cost		Description	
Right of Way				
Culverts	\$ 12,000		equired at #170, full of silt and	
			ch at county road #15 end in	
			f hill. Water is escaping slowly	but outlet is in need
		of improvement to	-	and the latest and th
			limit the dithcing is shallow du	
			sitting on north side but it doe	
		raise here or rock breaking would help to improve drainage. '-No ditch between #155 and #165. A ditch would help with drainage		
		-No ditch between	#155 and #165. A ditch would	neip with drainage.
Diaghing	ć 2000			
Ditching Grade Raise (Vertical Alignment	\$ 36,000			
Corrections)	\$ 54,000	600m allowance for	r 150mm grade raise	
Spot Digouts or Improvements	3 34,000	oooni allowance to	1 13011111 grade raise	
Shouldering Improvements				
		-The storm structur	es installed at the county roa	d #15 end have
			gravel is falling into manholes	
		with sealed lids.	0	•
Other Works (i.e. Guard Rails)	\$ 63,500	- rock removal allov	wance	
Total Cost	\$ 165,500			
		Maintenance Works		
	Cost		Description	
Shouldering				
Ditching	d 42.000	D 11 75 1		
Annual Gravel Addition (Depth)	\$ 13,000	Provide 75mm dep	th additional granulars	
Other Works (i.e. Guard Rail Repair)				
Total Cost	\$ 13,000			
	•			
		struction Works		
	Cost		Description	
Road Widening	\$ -			
Full Depth Reconstruction	\$ -			
Upgrade Surface to "tar and chip"	\$ 93,000			
Upgrade Surface to Asphalt	\$ 269,000			
General Notes:	has been plowed off in of traffic, good candid	nto the ditch over th date for a hard surfac	f material, little bit of potholir le winter. Lots of people walk ce upgrade. In general some c b keep water flowing and out	ing on road and lots litch cleanout and

Villag	e of Merrickville	-Wolford - Road	d Appraisal Form		
Road/Street Name	Kerford Road		Length of Road (km)	2.57	
	County Road #15		Platfrom Width (m)	7.3	
FIOIII	Snowdons Corners		riatifolii wiatif (iii)	7.3	
To	Road		Surface Width (m)	5.3	
			Shoulder Width (m)	5.5	
Roadside Environment	_		` '		
Surface Type			Right of Way Width (m)	20.1	
Traffic Counts			Boundary Road (Yes/No) Review Date:	No 2023-04-12	
Ditching Type					
Original Condition Rating			Prepared By:	Curtis Millar Michael Fadock	
2023 Condition Rating	Fair		Reviewed By:	IVIICNAEI FAGOCK	
	Road Imp	provements and Cos	ts		
	Spot In Cost	nprovement Works	Description		
Right of Way	2031		Description		
Culverts	\$ 5,000				
Cuiverts	\$ 5,000	Water sitting in dit	ch at county Road #15 and S	nowdon's Corners	
		intersection and po these issues. -#210 to #280 the r ditch on the west si the outlet to the so	otholing in the road. Some dit oad is soft and wet, there is a ide of the road but the east s uth. East side could use some	ch cleanout to fix water sitting in the ide is draining well to e cleanout as well to	
Physics .	¢ 420.000	aide in the drainage. Ditch cleanout and possible cross culvert from the west side to the east.			
Ditching	\$ 120,000	-Rock is high in spots along the road causing shallow ditches and			
Grade Raise (Vertical Alignment Corrections)		standing water in d	ts along the road causing sha itches. Grade raise may be re water to flow towards the o	equired or some rock	
		suggested to install some geotextile cloth on the subgrade and granular 'B' material to help keep the base material dry and add strength to the road subbase. Another area where this could be applied is at the 90 degree corner where water builds on both sides of the roads, also some cleanout at the outlet may help get the water			
Spot Digouts or Improvements	\$ 222,000	away from the road	d faster.		
Shouldering Improvements		600m full digout			
Other Works (i.e. Guard Rails)	\$ 225,000	rock removal			
Total Cost	\$ 572,000				
	0	24.1.1			
		Maintenance Work			
	Cost		Description		
Shouldering					
Ditching					
Gravel Addition (Depth)	\$ 32,000	Provide 75mm dep	th additional granulars		
Other Works (i.e. Guard Rail					
Repair)					
Total Cost	\$ 32,000				
	1	struction Works	Daniel Color		
Bard Medianian	Cost	1401	Description		
Road Widening	\$ 8,000	Widen road to 6.0n	n		
Full Depth Reconstruction	\$ 728,900				
Upgrade Surface to "tar and chip"	\$ 986,000	Includes full depth	reconstruction and widening		
Upgrade Surface to Asphalt	\$ 1,457,000	Includes full depth	reconstruction and widening		
General Notes:	ditches. Lots of coars	e material on surfac	istive drainage to outlets and e and has spilled off in ditche r crown to drain water off roa	es from plowing. Lack	

From Li	ugusta Township ine iolton Road ural, Single Lane iravel i/A open Ditch iood air Road Impre Spot Imp Cost \$ 20,000	Length of Road (km) Platfrom Width (m) Surface Width (m) Shoulder Width (m) Right of Way Width (m) Boundary Road (Yes/No) Review Date: Prepared By: Reviewed By: overments and Costs provement Works Description	6.38 7.6 5.6 1 11.6 No 2023-004-12 Curtis Millar Michael Fadock
From Li To B Roadside Environment R Surface Type G Traffic Counts N Ditching Type O Original Condition Rating G 2023 Condition Rating Fa Right of Way Culverts	ugusta Township ine iolton Road ural, Single Lane iravel i/A open Ditch iood air Road Impre Spot Imp Cost \$ 20,000	Platfrom Width (m) Surface Width (m) Shoulder Width (m) Right of Way Width (m) Boundary Road (Yes/No) Review Date: Prepared By: Reviewed By: Reviewed By:	7.6 5.6 1 11.6 No 2023-004-12 Curtis Millar
From Li To B Roadside Environment R Surface Type G Traffic Counts N Ditching Type O Original Condition Rating G 2023 Condition Rating Fa Right of Way Culverts	ine solton Road sural, Single Lane Gravel II/A Open Ditch Good air Road Impre Spot Imp Cost \$ 20,000	Surface Width (m) Shoulder Width (m) Right of Way Width (m) Boundary Road (Yes/No) Review Date: Prepared By: Reviewed By: Ovements and Costs Provement Works	5.6 1 11.6 No 2023-004-12 Curtis Millar
To B Roadside Environment R Surface Type G Traffic Counts N Ditching Type O Original Condition Rating G 2023 Condition Rating F3 Right of Way Culverts Surface Type G Traffic Counts N Ditching Type O Original Condition Rating F3	iolton Road sural, Single Lane fravel I/A Open Ditch food air Road Impre Spot Imp Cost \$ 20,000	Surface Width (m) Shoulder Width (m) Right of Way Width (m) Boundary Road (Yes/No) Review Date: Prepared By: Reviewed By: Ovements and Costs Provement Works	5.6 1 11.6 No 2023-004-12 Curtis Millar
Roadside Environment R Surface Type G Traffic Counts N Ditching Type O Original Condition Rating G 2023 Condition Rating Fa Right of Way Culverts Roadside Environment R Surface Type G Traffic Counts N Ditching Type O Original Condition Rating Fa 2023 Condition Rating Fa 2023 Condition Rating Fa Surface Surfac	tural, Single Lane Gravel I/A Open Ditch Good air Road Impre Spot Imp Cost \$ 20,000	Shoulder Width (m) Right of Way Width (m) Boundary Road (Yes/No) Review Date: Prepared By: Reviewed By: Ovements and Costs Provement Works	1 11.6 No 2023-004-12 Curtis Millar
Surface Type G Traffic Counts N Ditching Type O Original Condition Rating G 2023 Condition Rating Fa Right of Way Culverts Surface Type G Traffic Counts N	Gravel I/A Open Ditch Good air Road Impre Spot Imp Cost \$ 20,000	Right of Way Width (m) Boundary Road (Yes/No) Review Date: Prepared By: Reviewed By: ovements and Costs provement Works	11.6 No 2023-004-12 Curtis Millar
Traffic Counts N Ditching Type O Original Condition Rating G 2023 Condition Rating Fa Right of Way Culverts Traffic Counts N Ditching Type O Original Condition Rating Fa 2023 Condition Rating Fa	I/A Open Ditch Good air Road Impre Spot Imp Cost \$ 20,000	Boundary Road (Yes/No) Review Date: Prepared By: Reviewed By: ovements and Costs provement Works	No 2023-004-12 Curtis Millar
Ditching Type O Original Condition Rating G 2023 Condition Rating F3 Right of Way Culverts State of Condition Condi	ppen Ditch Good air Road Impre Spot Imp Cost \$ 20,000	Review Date: Prepared By: Reviewed By: ovements and Costs provement Works	2023-004-12 Curtis Millar
Original Condition Rating G 2023 Condition Rating Fa 2023 Condition Rating Fa Right of Way \$ Culverts \$	Road Impro Spot Imp Cost \$ 20,000	Prepared By: Reviewed By: ovements and Costs provement Works	Curtis Millar
2023 Condition Rating Fa	Road Impression Spot Imp Cost \$ 20,000	Reviewed By: ovements and Costs provement Works	
Right of Way \$ Culverts \$	Road Impre Spot Imp Cost \$ 20,000	ovements and Costs provement Works	Michael Fadock
Culverts	Spot Imp Cost \$ 20,000	provement Works	
Culverts	Spot Imp Cost \$ 20,000	provement Works	
Culverts	Cost \$ 20,000		
Culverts	\$ 20,000	Description	
Culverts		•	
	\$ 12,000	brushing allowance	
Ditching \$		-At 12866 the cross culverts have been replaced.	
Ditching \$		-From township line in the south to Pioneer road	intersection there is
Ditching \$		limited ditching present and road tends to pothol	le in areas lacking
Ditching \$		ditching. Some areas of note 12035, 12144, 1232	0, 12405.
Ditching \$		-At #12994 there are ditches but water sits in the	m because there are
Ditching \$		no grades to convey water away.	
	\$ 240,000		
	210,000	-At #12405 it tends to pothole lots, and is wet. Re	auries ditching
		-At 12320 some ditching and granular material ac	
		needed as road is still wet and potholes lots. Mor	
		required to raise road bed and provide more mat	eriai to grade a
		crown back in the road.	
		-Swamp just north of 12641 the road is wet and p	· · · · · · · · · · · · · · · · · · ·
		either side and there is issues with beaver blocking	ng cross culvert.
		-At 12752 to 12906 through the swamp the road	has had 200mm of
		Granular 'B' added and 100mm of Granular 'A'.	
		-From the bridge at 13117 to 13152 the road is so	oft and wet. There is
		ditching present it just needs to be cleaned out to	convey water and
		more material added to road base to build it up.	•
		- 1300m of grade raise allowance	
		•	
Grade Raise (Vertical Alignment			
Corrections) \$			
Spot Digouts or Improvements \$	\$ 220,000	600m full digout	
Shouldering Improvements			
Other Works (i.e. Guard Rails)		rock removal	
Total Cost \$	\$ 684,000		
	Ongoing N	Maintenance Works	
	Cost	Description	
Shouldering			
Ditching			
Gravel Addition (Depth) \$	\$ 80,000	Provide 75mm depth additional granulars	
Other Works (i.e. Guard Rail Repair)			
Total Cost S	\$ 80,000		
	. 25,230		
	Const	truction Works	
	Cost	Description	
Road Widening \$	\$ 11,000	Widen road to 6.0m	
Full Depth Reconstruction \$			
Upgrade Surface to "tar and chip" \$	\$ 2,768,000	Includes full depth reconstruction and widening	
Upgrade Surface to Asphalt \$	\$ 3,936,000	Includes full depth reconstruction and widening	
+			
cc		reas to grade out a proper crown to drain water c urface and has spilled off in ditches from plowing.	

Village of Merrickville-Wolford - Road Appraisal Form					
Road/Street Name	Montague Road	Length of Road (km)	0.92		
· · · · · · · · · · · · · · · · · · ·	Gravel Start to South	Platfrom Width (m)			
	Municipal Limit at	i idenom maan (m,	7.6		
То	Burchill Road	Surface Width (m)	5.6		
Roadside Environment		Shoulder Width (m)	1		
Surface Type	,	Right of Way Width (m)	20.1		
Traffic Counts		Boundary Road (Yes/No)	No 20.1		
Ditching Type		Review Date:	2023-04-12		
	·		Curtis Millar		
Original Condition Rating		Prepared By:			
2023 Condition Rating	G000	Reviewed By:	Michael Fadock		
Road Improvements and Costs					
		provement Works			
	Cost	Description			
Right of Way					
Culverts					
		-At north township limit there is a low point in	n road and water is		
		sitting in the ditch and has no where to escap			
		potholing present.	c. organicalit		
			tab proventing		
		-Along length of road the rock is high in the di			
		postive drainage to outlets in areas and stand			
		Ditches are shallow and in areas causing water	er to infiltrate the		
Ditching	\$ 40,000	subbase.			
Grade Raise (Vertical Alignment		-At top of the hill there is rock penetrating through the road base			
Corrections)		Will require grade raise or rock removal.			
		-At pavement limit at south end significant potholing present.			
		Ditches are shallow with rock preventing them from getting			
		deeper and getting positive drainage to outlet. Shoulders and			
		landscaping are higher then road west side forcing water to site			
Spot Digouts or Improvements		on road.			
Shouldering Improvements					
Other Works (i.e. Guard Rails)	\$ 150,000	rock removal			
Total Cost					
Total cost	\$ 190,000				
	Ongoing	Maintenance Works			
	Cost	Description			
Shouldering	5555	2 3331, 3331			
Ditching		-Recent ditching along most of the road to im	nrove drainage		
	ć 12.000		prove dramage.		
Gravel Addition (Depth)	\$ 12,000	Provide 75mm depth additional granulars			
Other Works (i.e. Guard Rail					
Repair)	4				
Total Cost	\$ 12,000				
	Cons	l truction Works			
	Cost	I			
Road Widening	\$ 2,000	Description Widen read to 6 0m			
		Widen road to 6.0m			
Full Depth Reconstruction	\$ -				
Upgrade Surface to "tar and chip"	\$ 91,000	Includes widening			
Upgrade Surface to Asphalt	\$ 260,000	Includes widening			
General Notes:	-Rock is high throughout the area preventing postive drainage to outlets in ditches and some cases protuding through the road base. There is some crown present in the road but could use more granular 'A' to shape it better. Lots of coarse material on surface and has spilled off in ditches from plowing. Lack of material in areas to grade out a proper crown to drain water off road.				

Village of	Merrickville-Wol	ford -	Road Appraisal Form				
Road/Street Name O'Brien Road Length of Road (km) 1.29							
	Dead End North		Platfrom Width (m) 6.4				
	Burchill Road		Surface Width (m)	4.4			
Roadside Environment			Shoulder Width (m)	1			
Surface Type			Right of Way Width (m)	20.1			
Traffic Counts			Boundary Road (Yes/No)	No			
Ditching Type	•		Review Date:	2023-04-12			
Original Condition Rating							
2023 Condition Rating			Prepared By: Curtis Millar Reviewed By: Michael Fadock				
2023 Colluition Rating	rdii		Reviewed By:	IVIICIIdei Fauock			
	Road Improvem	ents a	nd Costs				
	Spot Improve	ement '	Works				
	Cost		Description				
Right of Way							
Culverts							
		-East s	ide ditch is deep and works w	vell, the west side			
		ditch is	s shallow and does drain but	the road would			
		benefi	t from deeping the ditch to ke	eep the road base			
Ditching	\$ 52,000	dry.					
	·	-Fill M	aterial was brought over and	used on shoulders			
		to buil	d them out from the Putnam	Road			
Grade Raise (Vertical Alignment		recons	struction. Shoulders are soft a	and some of the			
Corrections)			material is in the road way causing soft spots.				
,		-At the dead and the road has frost boils and is soft, wet					
		and has rutted some. Water sitting in the ditch on the					
		west side at the dead end and close to the top of the					
Spot Digouts or Improvements	\$ 148,000	road.					
Shouldering Improvements	7 140,000						
Other Works (i.e. Guard Rails)							
·	\$ 200,000	200.000					
Total Cost \$ 200,000							
	Ongoing Maint	enance					
	Cost		Description				
Shouldering							
Ditching							
Gravel Addition (Depth)	\$ 16,000	Provid	e 75mm depth additional gra	inulars			
Other Works (i.e. Guard Rail							
Repair)							
Total Cost	\$ 16,000	000					
	Constructi	ion Wo	rks				
	Cost		Description				
Road Widening	\$ 9,000						
Full Depth Reconstruction	\$ 329,300						
	7 323,300						
Upgrade Surface to "tar and chip"	\$ 463,000	Includes full depth reconstruction and widening					
Upgrade Surface to Asphalt	\$ 700,000	00 Includes full depth reconstruction and widening					
General Notes:	-Lack of material in ard	l eas to g	grade out a proper crown to o	drain water off road.			

Village of Merrickville-Wolford - Road Appraisal Form						
				_		
Road/Street Name			Length of Road (km)	1.94		
From	Land O'Nod Road	Platfrom Width (m)				
	Snowdons Corners					
То	Road		Surface Width (m)	5		
Roadside Environment	Rural, Single Lane		Shoulder Width (m)	1		
Surface Type			Right of Way Width (m)	12.3		
Traffic Counts	N/A		Boundary Road (Yes/No)	No		
Ditching Type	Open Ditch		Review Date:	2023-04-12		
Original Condition Rating	Poor		Prepared By:	Curtis Millar		
2023 Condition Rating	Fair		Reviewed By:	Michael Fadock		
		rovements and Cos				
		nprovement Works				
	Cost		Description			
Right of Way						
Culverts						
		-From Snowdons Corners intersection to towards end of yard of #485 no ditching on either side of the road. Shoulders are high keeping water on road base and has potholed significantly. Ditching should be established to drain water to swamp and creek to the north. '-From #485 towards bridge, the west side of the road has a shallow ditch and the east either slopes down to fields or has no ditch and pushes water onto the road. Some ditching and cleanout to get the				
Ditching	\$ 60,000		he road base is required.	0		
Grade Raise (Vertical Alignment Corrections) Spot Digouts or Improvements	\$ 81,000	of Granular 'A' was placed on road to raise it up. It flooded and had to be closed and a cross culvert popped out of the road. Grade raise has helped keep road base dry. There is the presence of some granular 'B' that was placed being pulled up through the road base by the grader. More Granular 'A' material needed to allow for grading of road surface. 900m grade raise allowance of 150mm				
Shouldering Improvements		-Multiple areas where shoulders are higher then the raod surface and should be cut back or material added to correct it.				
Other Works (i.e. Guard Rails)						
Total Cost	\$ 141,000					
	Ongoing	Maintenance Work				
	Cost		Description			
Shouldering						
Ditching						
Gravel Addition (Depth) Other Works (i.e. Guard Rail Repair)	\$ 16,000	Provide 75mm dep	oth additional granulars			
Total Cost	\$ 16,000					
Total Cost	7 10,000					
	Con	struction Works				
	Cost		Description			
Road Widening	\$ 8,000	•				
Full Depth Reconstruction	\$ 717,800					
Upgrade Surface to "tar and chip"	\$ 914,000	Includes full depth reconstruction and widening				
Upgrade Surface to Asphalt	\$ 1,269,000	Includes full depth reconstruction and widening				
General Notes:	-Lots of coarse material on surface and has spilled off in ditches from plowing. Lack of material in areas to grade out a proper crown to drain water off road. From the bridge back north the road requires ditch cleanout and ditch establishment to keep water away from road base.					

Original Condition Rating Poor Reviewed By: Curtis Milla 2023 Condition Rating Poor Reviewed By: Michael Fat Reviewed By:				
From Blotton Road Snowdons Corners To Road Surface Width (m) Surfa	4.08			
Snowdon's Corners Surface Width (m)	7.00			
Roadside Environment Rural Single Lane Shoulder Width (m)				
Roadside Environment Rural, Single Lane Shoulder Width (m) 12.3 but va	5			
Surface Type Grave Right of Way Width (m) 12.3 but vol Traffic Counts N/A Boundary Road (Yes/No) No Ditching Type Open Ditch Review Date: 20 Original Condition Rating Poor Prepared By: Curtis Milla Z023 Condition Rating Poor Reviewed By: Michael Fat Michael Fat No Road Improvements and Costs Spot Improvement Works Cost Description	1			
Traffic Counts N/A Boundary Road (Yes/No) No Ditching Type Open Ditch Review Date: 20 Original Condition Rating Poor Prepared By: Curtis Millia 2023 Condition Rating Poor Prepared By: Curtis Millia 2023 Condition Rating Poor Road Improvements and Costs Reviewed By: Michael Fact Spot Improvement Works Road Improvement Works Description				
Ditching Type Open Ditch Review Date: 20				
Original Condition Rating Poor Reviewed By: Michael Fat	23-04-12			
Reviewed By: Michael Fat				
Road Improvements and Costs Spot Improvement Works Cost Description Right of Way -There are 5 cross culverts at the swamp between #542 and most are newer HDPEAt #1124 there is water sitting in the ditches and the road is wet. Some ditiching and road digout requiredAt #12131 the road is wet, once frost is out the road grades doesn't pothole bad. Some material added to surface would some ditch cleanout#772 the road is soft at the entrance, ditching was complet culvert lowered but it still requires more to get sitting water awayNorth from swamp to #542 the road is soft and has no ditc from #542 south to Snowdons Corners Road there is no ditc present. At the Bolton Road Intersection 200mm of Granular 'A' was as it was soft, it firmed it up considerablyAt #1187 there is rock present in the road base, will require rasie or rock removalFrom #843 to cross culvert in the south at swamp pit run w due to soft road. There is some shallow ditching present but more to drain water down to swampOn hill at #1227 there is rock sticking out of the road and she removed our road built upAt Snowdons Drive road is lower then shoulders and there standing in the ditches. Some ditch clean out required and go raise in the road. Spot Digouts or Improvements Spot Digouts or Improvements Spot Digouts or Improvements A 470,000 - On hill at #1227 there is rock sticking out of the road and she removed our road built upAt Snowdons Drive road is lower then shoulders and there standing in the ditches. Some ditch clean out required and go raise in the road. - Arroad the ditches. Some ditch clean out required and go raise in the road. - Arroad the ditches. Some ditch clean out required and go raise in the road. - Arroad the ditches are higher then the road surface causely to sit on the road and potholing to occur. - Ongoing Maintenance Works - Cost Description - Cost Description - Construction Works - Cost Description - Cost Description - Cost Description	lock			
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due to soft road. There is some shallow ditching present but more to drain water down to swamp.				
Corrections) \$ 27,000 more to drain water down to swamp. -On hill at #1227 there is rock sticking out of the road and she removed our road built upAt Snowdons Drive road is lower then shoulders and there standing in the ditches. Some ditch clean out required and graise in the road. -#722 the shoulders are higher then the road surface causeling to sit on the road and potholing to occur. Other Works (i.e. Guard Rails) \$ 150,000 rock removal Total Cost \$ Description Shouldering Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Full Depth Reconstruction \$ 1,102,600	due to soft road. There is some shallow ditching present but requires			
-On hill at #1227 there is rock sticking out of the road and she removed our road built up. '-At Snowdons Drive road is lower then shoulders and there standing in the ditches. Some ditch clean out required and graise in the road. -#722 the shoulders are higher then the road surface causely to sit on the road and potholing to occur. Other Works (i.e. Guard Rails) \$ 150,000 rock removal Total Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Full Depth Reconstruction \$ 1,102,600				
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Cost Description	_			
Spot Digouts or Improvements \$ 470,000 raise in the road. #722 the shoulders are higher then the road surface causein to sit on the road and potholing to occur. Total Cost \$ 743,000 Provide 75mm depth additional granulars Total Cost \$ 24,000 Provide 75mm depth additional granulars Cost	'-At Snowdons Drive road is lower then shoulders and there is water			
Spot Digouts or Improvements \$ 470,000 raise in the road. #722 the shoulders are higher then the road surface causein to sit on the road and potholing to occur. Other Works (i.e. Guard Rails) \$ 150,000 rock removal Total Cost \$ 743,000 Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Full Depth Reconstruction \$ 1,102,600				
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Shouldering Improvements Other Works (i.e. Guard Rails) \$ 150,000 rock removal Total Cost \$ 743,000 Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Construction Works Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600	ng water			
Other Works (i.e. Guard Rails) \$ 150,000 rock removal Total Cost \$ 743,000 Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Total Cost \$ 743,000 Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Shouldering Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Ditching Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Gravel Addition (Depth) \$ 24,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Other Works (i.e. Guard Rail Repair) Total Cost \$ 24,000 Construction Works Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Total Cost \$ 24,000				
Total Cost \$ 24,000				
Construction Works Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Cost Description Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Road Widening \$ 17,000 Widen road to 6.0m Full Depth Reconstruction \$ 1,102,600				
Full Depth Reconstruction \$ 1,102,600				
	Widen road to 6.0m			
Hannada Cunface to literatural				
Upgrade Surface to "tar and chip" \$ 1,515,000 Includes full depth reconstruction and widening	Includes full depth reconstruction and widening			
Upgrade Surface to Asphalt \$ 2,262,000 Includes full depth reconstruction and widening	Includes full depth reconstruction and widening			
General Notes: -Lots of coarse material on surface and has spilled off in ditches from plowing. Lack	of			
material in areas to grade out a proper crown to drain water off road. There is rock	high in			
areas in the ditches and the road base throughout this section of the road preventi	ng prope			
ditching and grading issues for the road. Many areas need ditches established or cl	eaned			
out so that water drains away from the roads.				

Village of Merrickville-Wolford - Road Appraisal Form						
Road/Street Name	Snowdon Drive W	Length of Road (km)	0.57			
	Dead End West	Platfrom Width (m)	6			
	Snowdons Corners	(,				
То	Road	Surface Width (m)	4			
Roadside Environment	Rural, Single Lane	Shoulder Width (m)	1			
Surface Type	-	Right of Way Width (m)	20.1			
Traffic Counts		Boundary Road (Yes/No)	No			
Ditching Type	Open Ditch	Review Date:	2023-04-12			
Original Condition Rating	•	Prepared By:	Curtis Millar			
2023 Condition Rating		Reviewed By:	Michael Fadock			
3		,				
		rovements and Costs				
Spot Improvement Works						
	Cost	Description				
		-Small trees and shrubs in ditch and in ROW t	hat should be			
Right of Way	\$ 12,000	brushed back.				
Culverts						
Ditching	\$ 48,000	-Ditches are shallow or do not exist in most p				
		-Very little granular material on road, at the c				
		material has black organic material protrudin				
		surface. Very soft at dead end, swamp on both sides, shoulders				
Grade Raise (Vertical Alignment		are high holding water on road surface.				
Corrections)	7 30,000					
Spot Digouts or Improvements	\$ 74,000	200m full digout				
Shouldering Improvements						
Other Works (i.e. Guard Rails)		1				
Total Cost	\$ 170,000					
	Ongoing	 Maintenance Works				
	Cost	Description				
Shouldering	Cost	Description				
Ditching						
Gravel Addition (Depth)	¢ 7,000	Provide 75mm depth additional granulars				
	\$ 7,000	Provide 75mm depth additional granulars				
Other Works (i.e. Guard Rail						
Repair) Total Cost	\$ 7,000					
Total Cost	3 7,000					
	Cons	struction Works				
	Cost	Description				
Road Widening	\$ 5,000	Widen road to 6.0m				
Full Depth Reconstruction	\$ 136,900					
Upgrade Surface to "tar and chip"	\$ 197,000	Includes full depth reconstruction and widening				
Upgrade Surface to Asphalt	\$ 302,000	Includes full depth reconstruction and widening				
General Notes:	-Lack of material in areas to grade out a proper crown to drain water off road. Only a 2 homes on the road. Road needs granalar material to build road up out of the swamp and allow for proper drainage.					

Village of Merrickville-Wolford - Road Appraisal Form						
Road/Street Name	Snowdon Drive F	Length of Road (km)	1.17			
Roady Street Hame	Snowdon's Corners	Length of Road (Kill)	1.17			
From		Platfrom Width (m)				
	Pioneer Road	Surface Width (m)	6			
Roadside Environment		Shoulder Width (m)	4			
Surface Type	_	Right of Way Width (m)	20.1			
Traffic Counts		Boundary Road (Yes/No)				
	•	Review Date:	No 2023-04-12			
Ditching Type			Curtis Millar			
Original Condition Rating		Prepared By:				
2023 Condition Rating	Fair	Reviewed By:	Michael Fadock			
		rovements and Costs				
	Spot Im	provement Works				
	Cost	Description				
Right of Way						
Culverts	\$ 3,000					
		-Little to no ditching from #127 to intersection				
		Soft at the entrance to #127, water sitting on	east side of			
		entrance in landscaping. An entrance culvert t	o get the water			
		from east to the west side of the lane would re	esolve this.			
		-Recent ditching done at Snowdons Corners Ro	oad intersection			
		down passed #285.				
		-From #285 to #171 on north side of road there has been ditching				
		completed and a berm built by landowner preventing water from				
Ditching	\$ 12,000					
Dittillig	3 12,000	the swamp and creek entering their lands. -Creek in middle section of road that runs along both sides, dries				
		up some in the summer but still has water on either side of the				
Grade Raise (Vertical Alignment		road near #171.				
Corrections)	d 55 500	road near #1/1. 150m full digout				
Spot Digouts or Improvements	\$ 55,500	150III Iuli ulgout				
Shouldering Improvements						
Other Works (i.e. Guard Rails)		500				
Total Cost	Total Cost \$ 70,500					
	Ongoing	Maintenance Works				
	T					
Cost Description Shouldering						
Ditching						
Gravel Addition (Depth)	\$ 15,000	Provide 75mm depth additional granulars				
Other Works (i.e. Guard Rail	7 15,000	1 Tovide 75mm depth additional grandiars				
Repair)						
Total Cost	\$ 15,000	1				
1000	3 13,000					
Construction Works						
Cost Description						
Road Widening	\$ 10,000	0 Widen road to 6.0m				
Full Depth Reconstruction	\$ 377,400					
Upgrade Surface to "tar and chip"	\$ 501,000	Includes full depth reconstruction and widening				
Upgrade Surface to Asphalt	\$ 715,000	Includes full depth reconstruction and widening				
General Notes:	-Lack of material in areas to grade out a proper crown to drain water off road. Lots of coarse material on surface and has spilled off in ditches from plowing. Material on the surface is well blended together but more could still use more to raise the grade of the road and provide more crown.					

Village of	Merrickville-Wolf	ford -	Road Appraisal Form		
Village of	IVICITIERVINE VVOII	O			
Road/Street Name	Sturgess Road		Length of Road (km)	0.69	
	Dead End West		Platfrom Width (m)	6.1	
То	Kilmarnock Road		Surface Width (m)	4.1	
Roadside Environment	Rural, Single Lane		Shoulder Width (m)	1	
Surface Type	Gravel		Right of Way Width (m)	15.4	
Traffic Counts	N/A		Boundary Road (Yes/No)	No	
Ditching Type	Open Ditch		Review Date:	2023-04-12	
Original Condition Rating	Good		Prepared By:	Curtis Millar	
2023 Condition Rating	Good		Reviewed By:	Michael Fadock	
	Road Improvem				
	Spot Improve	ement '			
Cost Description					
Right of Way					
Culverts	\$ 9,000				
			ditching need at #221 on no		
Ditching	\$ 10,000		wise good ditching throughou		
			profile is flat, would benefit f		
Grade Raise (Vertical Alignment		additio	onal material to grade into a	crown. 700m grade	
Corrections)	\$ 63,000				
Spot Digouts or Improvements					
		-Shoulders are high in areas preventing water from			
Shouldering Improvements		running off the road causing potholing.			
Other Works (i.e. Guard Rails)	s)				
Total Cost	\$ 82,000	000			
	Ongoing Maint	enance			
	Cost		Description		
Shouldering					
Ditching					
Gravel Addition (Depth)	\$ 9,000	Provid	e 75mm depth additional gra	inulars	
Other Works (i.e. Guard Rail					
Repair)					
Total Cost	\$ 9,000				
	0		1.		
	Constructi	on wo			
Road Widoning	Cost \$ 6,000	\ \ \ida-	Description road to 6.0m		
Road Widening	\$ 6,000	vviuen	I I Udu LU D.UIII		
Full Depth Reconstruction	\$ -				
Upgrade Surface to "tar and chip"	\$ 73,000	O Includes widening			
Upgrade Surface to Asphalt	\$ 199,000	0 Includes widening			
General Notes:	-Lack of material in areas to grade out a proper crown to drain water off road. Lots of heavy farm equipment on the road and lots of mud dragged onto it when working in the fields.				

Villa	ge of Merrickville	-Wolford - Road	d Appraisal Form			
Road/Street Name	Woodmark Boad		Longth of Bood (km)	2.1		
·	Willis Road		Length of Road (km) Platfrom Width (m)	3.1 6.1		
FIGHT	Box Culvert West of		riatiroini wiatir (iii)	0.1		
То.			Surface Width (m)	4.1		
	Maitland Road		. ,	4.1		
Roadside Environment			Shoulder Width (m)	20.1		
Surface Type			Right of Way Width (m)	20.1		
Traffic Counts			Boundary Road (Yes/No)	No		
Ditching Type			Review Date:	2023-04-12		
Original Condition Rating			Prepared By:	Curtis Millar		
2023 Condition Rating	Poor		Reviewed By:	Michael Fadock		
	Road Imn	rovements and Co	ite .			
Road Improvements and Costs Spot Improvement Works						
	Cost		Description			
Right of Way						
Culverts	\$ 12,000					
Carreres	Ψ 12,000	-Δt #1180 the road	l is wet and soft, shallow dit	rhes		
			road is low and passes thro			
			•	•		
		•	ther side of the road. Road v	vas suit dilu		
		F	passed through the swamp.	la ta la talla di indi		
			no ditching present, the roc	•		
			them from being establishe			
		-	ad caauing water to drain ou	it onto the road and		
		sit there.				
		-At #846 the ditchi	ng is shallow and close to le	vel with the road		
		base preventing th	ie base material from drainii	ng. There is rock		
		high in the ditch p	reventing the ditch from bei	ng deeper. The road		
Ditching	\$ 64,000	base should be raised up so it can drain to the ditch.				
		-#996 the road is wet and exceptionally soft. Provide some				
		ditching on the north side of the road at this location and some				
		grade raise to get road base up.				
		-East of #996 through swamp to #864 the road had 100mm of				
		granular 'B' added and was capped with Granular 'A' material in				
		the early 90's. Area was potholed and rough to drive. Could use				
		more material to raise the road base up higher out of the swamp				
		to keep road base material dry.				
		-From bridge West of Maitland road to #702 there was granular 'B'				
		added and capped with Granular 'A' to raise road and provide				
		more material for grading.				
Grade Raise (Vertical Alignment			allowance 150mm			
Corrections)	\$ 81,000	- 900iii graue raise				
Spot Digouts or Improvements	\$ 110,000		300m full digout			
Shouldering Improvements						
Other Works (i.e. Guard Rails)	\$ 100,000		rock removal			
Total Cost	\$ 367,000	1				
	O!	Maintenant	lia.			
		Maintenance Wor				
Shouldoning	Cost		Description			
Shouldering						
Ditching						
Gravel Addition (Depth)	\$ 39,000	Provide 75mm der	oth additional granulars			
Other Works (i.e. Guard Rail						
Repair)						
Total Cost	\$ 39,000					
		struction Works				
	Cost		Description			
Road Widening	\$ 25,000	Widen road to 6.0	m			
Full Depth Reconstruction	\$ 1,036,000					
-	- 1,000,000					
Upgrade Surface to "tar and chip"	\$ 1,362,000	Includes full depth	reconstruction and widenin	g		
Upgrade Surface to Asphalt	\$ 1,929,000	Includes full depth	reconstruction and widening	g		
General Notes:	-Areas of the road are	e flat and hard to ge	proper crown to drain water et water to flow to outlets. R es lo enough to drain the roa	ock is high		

Villag	ge of Merrickville	-Wolford - Road Appraisal Form				
2 1/6	Marilland Band	1 1 (2 1/1)	4.55			
Road/Street Name		Length of Road (km)	1.55			
	Weedmark Road	Platfrom Width (m)	7			
	Barber Road	Surface Width (m)	5			
Roadside Environment		Shoulder Width (m)	1			
Surface Type		Right of Way Width (m)	20.1			
Traffic Counts		Boundary Road (Yes/No)	No			
Ditching Type		Review Date:	2023-04-12			
Original Condition Rating		Prepared By:	Curtis Millar			
2023 Condition Rating	Fair	Reviewed By:	Michael Fadock			
Road Improvements and Costs						
		nprovement Works				
	Cost	Description				
Right of Way		, , , , , , , , , , , , , , , , , , ,				
Culverts	\$ 12,000					
	, , , , , , , , , , , , , , , , , , , ,	-Good ditches from Weedmark Road to #661	some cleanout			
		required to remove vegetation. Shoulders are				
Ditching	\$ 40,000.00	area.				
	,	-Low area after #595 gets soft and breaks up,	could use some			
		material to build up road base and some ditc				
		flowing to outlets in ditch. Road is also flat ar	_			
		crown established but more granular materia				
		accomplish this.	'			
		-At both pavement limits the gravel is lower then the surface				
		treament and has potholed significantly. More granular material				
Grade Raise (Vertical Alignment		needed to raise grade, possibly a digout to restablish road base.				
Corrections)	\$ 18,000.00					
Spot Digouts or Improvements	\$ 185,000	500m full digout				
Shouldering Improvements	,					
Other Works (i.e. Guard Rails)						
Total Cost	\$ 255,000	000				
	<u> </u>					
	Ongoing	Maintenance Works				
	Cost	Description				
Shouldering						
Ditching						
Gravel Addition (Depth)	\$ 20,000	Provide 75mm depth additional granulars				
Other Works (i.e. Guard Rail						
Repair)						
Total Cost	\$ 20,000					
	Con	struction Works				
	Cost	struction Works Description				
Road Widening	\$ 7,000	Widen road to 6.0m				
	•	-				
Full Depth Reconstruction	\$ 388,500					
Upgrade Surface to "tar and chip"	\$ 546,000	Includes full depth reconstruction and widening				
	ć 030.000	Includes full death reconstruction and wild-rain-				
Upgrade Surface to Asphalt	\$ 830,000	Includes full depth reconstruction and widen	ııg			
General Notes:	-Lack of material in a	reas to grade out a proper crown to drain wa	er off road.			

Village of Merrickville-Wolford - Road Appraisal Form						
Poad/Street Name	Wolford Centre Road		Length of Road (km)	2.36		
	County Road #15		Platfrom Width (m)	6.4		
	Dead End East		Surface Width (m)	4.4		
Roadside Environment			Shoulder Width (m)	1		
Surface Type			Right of Way Width (m)	20.1		
Traffic Counts			Boundary Road (Yes/No)	No		
Ditching Type	•		Review Date:	2023-04-12		
Original Condition Rating			Prepared By:	Curtis Millar		
2023 Condition Rating			Reviewed By:	Michael Fadock		
			,			
Road Improvements and Costs						
	•	provement Works				
Dielet of West	Cost	Daniela al Ala a si ala	Description			
Right of Way	¢ 0,000	-Brushed the right	of way last year.			
Culverts	\$ 8,000	At swamp approx	kimately 200m from intersec	tion there is little		
			r sits, could use some ditchir			
Ditching	¢ 00.000	U	i sits, could use some alterni	ig to get water to		
Ditching	\$ 80,000	drain away.	I received 100mm of Granula	or 'P' and a canning		
				0		
			Byears ago to widen and elin			
			n now but Granular 'B' being			
		-	ore Granular 'A' for road base			
			tting on either side of ditch,			
		drain to. Road is soft at times until water disappears.				
		-At #269 soft road surface, could use some ditching and granular				
		material.				
		-From #269 to #426, there is no where for water to drain to on the				
		north side of the road. Provide some cross culverts to water to				
		south side of road. Potholed in this area. Area is flat as well				
Grade Raise (Vertical Alignment		making it hard to slope ditches and convey water to outlet areas. - 2400m of 150mm grade raise allowance				
Corrections)	\$ 216,000	1 - 7400111 01 TOUTHIN RIGHT LAISE AllOWALICE				
Spot Digouts or Improvements						
Shouldering Improvements Other Works (i.e. Guard Rails)						
Total Cost	\$ 304,000					
Total cost	\$ 304,000					
	Ongoing	Maintenance Wor	ks			
	Cost		Description			
Shouldering						
Ditching						
Gravel Addition (Depth)	\$ 30,000	Provide 75mm de	pth additional granulars			
Other Works (i.e. Guard Rail						
Repair)						
Total Cost	\$ 30,000					
	Cons	truction Works				
	Cost		Description			
Road Widening	\$ 16,000	Widen road to 6.0)m			
Full Depth Reconstruction	\$ 873,200					
Upgrade Surface to "tar and chip"	\$ 1,118,000	Includes full depth	n reconstruction and widening	ng		
Upgrade Surface to Asphalt	\$ 1,550,000	Includes full depth	n reconstruction and widening	ng		
General Notes:	-Lots of coarse materia	al on surface and h	as spilled off in ditches from	plowing		

Villa	ge of Merrickville-	·Wolford - Road	d Appraisal Form			
Pood/Street Name	Vulo Road		Longth of Road (km)	5.66		
Road/Street Name From	Atkins Lake Road		Length of Road (km) Platfrom Width (m)	6.7		
	Weedmark Road		Surface Width (m)	5.7		
Roadside Environment			Shoulder Width (m)	1		
Surface Type	Gravel		Right of Way Width (m)	20.1		
Traffic Counts			Boundary Road (Yes/No)	No		
Ditching Type	•		Review Date:	2023-04-12		
Original Condition Rating			Prepared By:	Curtis Millar		
2023 Condition Rating	Poor	Reviewed By: Michael Fadock				
	Road Impr	ovements and Cos	ts_			
	Spot Im	provement Works				
	Cost		Description			
Right of Way			lake Intersection to Railroad.			
			d #540 the road narrows as it			
		large cross culverts placed in the base of an old box culvert. The culverts are high on the south side of the road causing some				
		-		•		
Culverts	\$ 20,000	reduce the amont	If they were lowered on the s	south side it would		
Cuiverts	\$ 20,000		Road to #224 the road is poth	solod and has frost		
			koad to #224 the road is potr h cleanout to remove vegetat			
			water flowing in spots where	-		
			ally soft area about mid-way	-		
		· ·	ntersection and #224.			
			#423, road is in good shape a	nd has good ditches		
			eeds some cleanout to preve	-		
			ins Lake Road there are large	~		
		ditching and the ro	and base is level with the surr	onding landscape		
		causing water to s	it on the road and create poth	noles and soft road		
		conditions at times	s. In some areas the shoulder	rs are higher then the		
		road surface as we	II having the same effect. The	ere is rock visible in		
		the ditch areas at their current elevations which has prevented				
		proper ditches from being restablished. Suggest adding more				
		material to raise road grade above surrondings in areas where				
		ditching is not possible.				
Ditching	\$ 240,000					
			rner the road is soft and wet			
		_	the east side of the road and			
Cond. Bring (Marking) Alignous and		conveyed to an ou	raise needed to get water of	t the road and		
Grade Raise (Vertical Alignment Corrections)	\$ 315,000		grade raise allowance			
Spot Digouts or Improvements	\$ 444,000	3300111 01 13011111	1200m full digout			
	***************************************	-Shoulders in man	y areas between #540 and At	kins Lake Road are		
		higher then the road surface and are holding water on the road				
		causing soft road edges and shoulders, and potholed areas. Key				
		areas where observed were the treed areas and next to fields.				
Shouldering Improvements						
Other Works (i.e. Guard Rails)	\$ 200,000		rock removal			
Total Cost	\$ 1,219,000					
		Maintenance Work				
Shouldering	Cost		Description			
Ditching						
Gravel Addition (Depth)	\$ 71,000	Provide 75mm des	oth additional granulars			
Other Works (i.e. Guard Rail	/1,000	i rovide / sitiiti dep	om auditional granulals			
Repair)						
Total Cost	\$ 71,000					
		struction Works				
	Cost		Description			
Road Widening	\$ 7,000	Widen road to 6.0	m			
Full Depth Reconstruction	\$ 1,650,200					
Upgrade Surface to "tar and						
chip"	\$ 2,206,000	Includes full depth reconstruction and widening				
•						
Upgrade Surface to Asphalt	\$ 3,242,000	Includes full depth	reconstruction and widening			
General Notes:		-	roper crown to drain water of	ff road. Lots of		
	coarse material on surf	face and has spilled	off in ditches from plowing			

Villa	ge of Merrickville-	-Wolford - Road	l Appraisal Form			
2 1/0			1	2.2		
	Carleys Corners Road Dead End		Length of Road (km)	2.3		
	Residence #329		Platfrom Width (m)	6.7		
			Surface Width (m)	4.7		
Roadside Environment			Shoulder Width (m)	1		
Surface Type			Right of Way Width (m)	20.1		
Traffic Counts			Boundary Road (Yes/No)	No 2022 04 12		
Ditching Type			Review Date:	2023-04-12 Curtis Millar		
Original Condition Rating 2023 Condition Rating			Prepared By: Reviewed By:	Michael Fadock		
2023 Condition Rating	P001		Reviewed by.	WIICHAEI FAUOCK		
Road Improvements and Costs						
		provement Works				
	Cost		Description			
		_	litches, could used to be grub	bed and brushed		
Right of Way	\$ 30,000	out.				
		,	before #684 could be lowered	d on the inlet side to		
Culverts	\$ 12,000	reduce some stand				
			ing is shallow or not present			
			d. Ditching and grade raise w	ould help eliminate		
Ditching	\$ 80,000	some issues.				
		-Gravel this year to	help fix potholes where the	gravel portion of the		
		road starts. Two loa	ads over 300m to 400m.			
		-Rock is high in the	road and in the ditches along	g sections of the road		
		preventing proper ditch construction and grading issues on the road.				
Grade Raise (Vertical Alignment		- 1500m of 150mm grade raise allowance				
Corrections)	\$ 135,000					
Spot Digouts or Improvements						
Shouldering Improvements						
Other Works (i.e. Guard Rails)	\$ 200,000	rock removal				
Total Cost	\$ 457,000	0				
Ongoing Maintenance Works						
	Cost		Description			
Shouldering			2000.			
Ditching						
Gravel Addition (Depth)	\$ 29,000	Provide 75mm dep	th additional granulars			
Other Works (i.e. Guard Rail			-			
Repair)						
Total Cost	\$ 29,000					
		struction Works	D			
Pood Widoning	Cost \$ 13,000	Widen road to 6.0r	Description			
Road Widening	\$ 13,000	widen road to 6.0r	II			
Full Depth Reconstruction	\$ 851,000					
Upgrade Surface to "tar and	\$ 1,087,000	Includes full depth reconstruction and widening				
chip"		merades rail depth reconstruction and widening				
Upgrade Surface to Asphalt	\$ 1,508,000	Includes full depth reconstruction and widening				
General Notes:	-Lack of material in are	as to grade out a pr	oper crown to drain water of	f road.		

Villag	ge of Merrickville-	Wolford - Road Appraisal Form				
Road/Street Name	Ogilvie Lane	Length of Road (km)	0.075			
	Kilmarnock Road	Platfrom Width (m)	7.2			
	Property Line	Surface Width (m)	5.2			
Roadside Environment	' '	Shoulder Width (m)	1			
Surface Type	-	Right of Way Width (m)	N/A			
Traffic Counts		Boundary Road (Yes/No				
Ditching Type	Open Ditch	Review Date:	2023-04-12			
Original Condition Rating	•	Prepared By:	Curtis Millar			
2023 Condition Rating		Reviewed By:	Michael Fadock			
		,				
	-	rovements and Costs				
	-	provement Works				
Dight of Mary	Cost	Description	to troilor nort			
Right of Way	A	-Short L shaped section of road at entrance	to trailer park.			
Culverts	\$ 4,000					
Ditching	\$ 1,200	The condition of the condition				
		-The road is lower then the landscaping caus	-			
		road, additonal material to build it up above				
Grade Raise (Vertical Alignment	6 6750	landscape and a cross culvet from the triang				
Corrections) Spot Digouts or Improvements	\$ 6,750	island to the east to drain it. 75m of grade ra	aise required			
Shouldering Improvements						
Other Works (i.e. Guard Rails)						
Total Cost	\$ 11,950					
1000	7/					
		Maintenance Works				
	Cost	Description				
Shouldering						
Ditching						
Gravel Addition (Depth)	\$ 1,000	Provide 75mm depth additional granulars				
Other Works (i.e. Guard Rail						
Repair)	ć 4.000					
Total Cost	\$ 1,000					
	Cons	struction Works				
	Cost	Description				
Road Widening	\$ -	Widen road to 6.0m				
Full Depth Reconstruction	\$ -					
Upgrade Surface to "tar and chip"	\$ 7,000	Includes full depth reconstruction and wider	ning			
Upgrade Surface to Asphalt	\$ 21,000	0 Includes full depth reconstruction and widening				
General Notes:	-Lack of material in are	areas to grade out a proper crown to drain water off road.				

Henry Street, Park Street, Baldwin Street, Duncan Street Platfrom Width (m) To Surface Width (m) Roadside Environment Rural, Single Lane Shoulder Width (m)	Villa	ge of Merrickville-	Wolford - Road Appraisal	Form	
Henry Street, Park Street, Baldwin Street Platfrom Width (m) To Roadside Environment Rural, Single Lane Shoulder Width (m) Tarffic Counts N/A Boundary Road (Vers/No) No Ditching Type Open Ditch Review Date: 2023-04. Corginal Condition Rating N/A Boundary Road (Vers/No) No Ditching Type Open Ditch Review Date: 2023-04. Corginal Condition Rating N/A Prepared By: Curtis Milliar 2023 Condition Rating N/A Prepared By: Curtis Milliar 2023 Condition Rating N/A Prepared By: Michael Fadock Road Improvement Works Spot Improvement Works Spot Improvement Works Spot Improvement Works Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Single lane gravel streets in a small hamlet. Curtier Single lane gravel streets in a small hamlet. Single lane gravel s	Road/Street Name	Eastons Corners Roads	Length of Ro	pad (km)	1.51
Street, Baldwin Street, Platfrom Width (m) Duncan Street Platfrom Width (m) Duncan Street Surface Width (m) Su	noud, ou cet nume		20.18.11 01 11	oud (KIII)	1.01
Prom Duncan Street Platfrom Width (m) Surface Width (m) Surface Width (m) Surface Width (m) Surface Type (Gravel Right of Way Width (m) Surface Type (Gravel Right of Way Width (m) Surface Type (Gravel Right of Way Width (m) Surface Type (Gravel Review Date: 2023-04-05-07-07-07-07-07-07-07-07-07-07-07-07-07-		· ·			
Roadside Environment Rural, Single Lane Surface Width (m) Traffic Counts IN/A Ditching ype Open Ditch Prepared By: Curtis Millar Road Improvements and Costs Spot Improvement Works Cost Spot Improvement Works Cost Single lane gravel streets in a small hamlet. Culverts Single lane gravel street by: Cost sold in the road sufface cashing water to sto on and run down the storm years and landscaping so water does not sit on the road scale washouts or potholes. Isoom of Isomm grade raise allowance washouts or potholes. Isoom of Isomm grade raise allowance washouts or potholes. Isoom of Isomm grade raise allowance washouts or potholes. Isoom of Isomm grade raise allowance	Erom		Platfrom Wi	idth (m)	6.8
Roadside Environment Rural, Single Lane Shoulder Width (m) 1: Traffic Counts N/A Boundary Road (Yes/No) No Ditching Type Open Ditch Review Date: 2023-North No 2023-North No Prepared By: Curtis Millar Reviewed By: Michael Fadock Prepared By: Curtis Millar Reviewed By: Michael Fadock Road Improvements and Costs Spot Improvement Works Single lane gravel streets in a small hamlet. Single lane gravel streets in a small hamlet. Prepared By: Curtis Millar Reviewed By: Michael Fadock Road Improvement Works Single lane gravel streets in a small hamlet. Prepared By: Curtis Millar Reviewed By: Michael Fadock Prepared By: Curtis Millar Prepared By: Curtis Millar Reviewed By: Michael Fadock Prepared By: Curtis Millar Prepared By: Curtis Millar Reviewed By: Michael Fadock Prepared By: Curtis Millar Prepared By: Curtis Mi	-	Duncan Street		<u>`</u>	4.8
Surface Type Traffic Counts N/A Boundary Road (Yes/No) No Ditching Type Open Ditch Review Date 2023-04- Original Condition Rating N/A Prepared By: Curtis Millar Reviewed By: Michael Fadock Spot Improvements and Costs Spot Improvement Works Cost Description Single lane gravel streets in a small hamlet. Culverts S 16,000 Single lane gravel streets in a small hamlet. Culverts S 16,000 Single lane gravel streets in a small hamlet. Culverts S 16,000 Single lane gravel streets in a small hamlet. Culverts S 16,000 Single lane gravel streets in a small hamlet. Culverts S 16,000 Single lane gravel streets in a small hamlet. Culverts S 16,000 Single lane gravel streets in a small hamlet. Culverts S 16,000 Single lane gravel streets in a small hamlet. Culverts S 16,000 Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Culverts Single lane gravel streets in a small hamlet. Civerts Single lane gravel streets in a small hamlet. Civerts Single lane gravel streets in a small hamlet. Cost		Pural Cingle Lane			4.8
Traffic Counts N/A Boundary Road (Yes/No) No Ditching Type Open Ditch Review Date: 2023-04- Original Condition Rating N/A Prepared By: Curtis Milliar 2023 Condition Rating Fair Reviewed By: Milchael Fadock Road Improvements and Costs					12.2
Ditching Type Open Ditch Review Date: 2023-04-					1
Original Condition Rating Fair Reviewed By: Michael Fadock Reviewed By: Michael Fadock Michael Fadock Reviewed By: Michael Fadock Michael Fadock Michael Fadock Spot Improvement Works Cost Description Single lane gravel streets in a small hamlet. Culverts S 16,000 Very little ditching present but there is not enough room on some street to establish a ditch. There is a good outlet along the south's of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. One of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. One of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. One of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. One of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. One of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. One of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. One of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. One of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. One of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet along the south so field to the north. If ditching or a storm system was established this would be a good outlet along the south so field to the north. If ditching or a storm system was established this would be a good outlet along the south so field to the north. If ditching		•	•		-
Reviewed By: Michael Fadock					
Road Improvements and Costs Spot Improvement Works					
Spot Improvement Works Description	2023 Condition Rating	Fair	Reviewed By	y:	Michael Fadock
Cost Description		Road Impi	ovements and Costs		
Cost Description					
Right of Way Culverts \$ 16,000 -Very little ditching present but there is not enough room on some street to establish a ditch. There is a good outlet along the south s of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. Ditching \$ 80,000 -Roads in hamlet are low, shoulders and landscaping in most areat higher then road surface casuing water to sit on and run down the sides of the roads. Add more material to get road surface higher the shoulders and landscaping so water does not sit on the roads caus washouts or potholes. 1500m of 150mm grade raise allowance Grade Raise (Vertical Alignment Corrections) \$ 135,000 Spot Digouts or Improvements Shouldering Improvements Other Works (i.e. Guard Rails) Total Cost Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 19,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost Cost Cost Description Cost Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening		_		scription	
Culverts \$ 16,000 -Very little ditching present but there is not enough room on some street to establish a ditch. There is a good outlet along the south sof Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. Ditching \$ 80,000 -Roads in hamlet are low, shoulders and landscaping in most areas higher then road surface casuing water to sit on and run down the sides of the roads. Add more material to get road surface higher the shoulders and landscaping so water does not sit on the roads caus washouts or potholes. 1500m of 150mm grade raise allowance Grade Raise (Vertical Alignment Corrections) \$ 135,000 Spot Digouts or Improvements Shouldering Improvements Other Works (i.e. Guard Rails)	Right of Wav			•	
-Very little ditching present but there is not enough room on some street to establish a ditch. There is a good outlet along the south is of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. Ditching S 80,000		\$ 16,000			
street to establish a ditch. There is a good outlet along the south s of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. Provide that drains to a field to the north. If ditching or a storm system was established this would be a good outlet.		7 10,000	-Very little ditching present but	there is not and	ugh room on some
of Henry Street that drains to a field to the north. If ditching or a storm system was established this would be a good outlet. Roads in hamlet are low, shoulders and landscaping in most areas higher then road surface casuing water to sit on and run down the sides of the roads. Add more material to get road surface higher then solds and the sold solders and landscaping so water does not sit on the roads caus washouts or potholes. 1500m of 150mm grade raise allowance Grade Raise (Vertical Alignment					-
storm system was established this would be a good outlet. Roads in hamlet are low, shoulders and landscaping in most areas higher then road surface casuing water to sit on and run down the sides of the roads. Add more material to get road surface higher then roads and landscaping so water does not sit on the roads caus washouts or potholes. 1500m of 150mm grade raise allowance Spot Digouts or Improvements				~	~
Ditching \$ 80,000 -Roads in hamlet are low, shoulders and landscaping in most areast higher then road surface casuing water to sit on and run down the sides of the roads. Add more material to get road surface higher then road surface casuing water to sit on and run down the sides of the roads. Add more material to get road surface higher then road surface dashing the roads caus washouts or potholes. 1500m of 150mm grade raise allowance washouts or potholes. 1500m of 150mm grade raise allowance control of the works (i.e. Guard Rails)					~
-Roads in hamlet are low, shoulders and landscaping in most areas higher then road surface casuing water to sit on and run down the sides of the roads. Add more material to get road surface higher the sides of the roads. Add more material to get road surface higher the sides of the roads. Add more material to get road surface higher the sides of the roads. Add more material to get road surface higher the sides of the roads. Add more material to get road surface higher the sides of the roads. Add more material to get road surface higher the sides of the roads. Add more material to get road surface higher the sides of the roads caus washouts or potholes. 1500m of 150mm grade raise allowance washouts or potholes. 1500m of 150mm grade raise a	Dividition of	¢ 00.000	storm system was established ti	nis would be a gi	ood outlet.
higher then road surface casuing water to sit on and run down the sides of the roads. Add more material to get road surface higher it shoulders and landscaping so water does not sit on the roads caus washouts or potholes. 1500m of 150mm grade raise allowance Grade Raise (Vertical Alignment Corrections) \$ 135,000 \$ 135,000 Spot Digouts or Improvements Shouldering Improvements Other Works (i.e. Guard Rails) Total Cost Cost Description Shouldering Ditching Gravel Addition (Depth) Total Cost \$ 19,000 Provide 75mm depth additional granulars -Lots of calcium used to keep dust levels down Cost Sepair) Total Cost \$ 19,000 Construction Works Cost Description Construction Works Full Depth Reconstruction \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 713,000 Includes full depth reconstruction and widening Upgrade Surface to "tar and chip" \$ 990,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening	Ditching	\$ 80,000			
sides of the roads. Add more material to get road surface higher the shoulders and landscaping so water does not sit on the roads caus washouts or potholes. 1500m of 150mm grade raise allowance washouts or potholes. 1500m of 150mm grade raise allowance Spot Digouts or Improvements Shouldering Improvements Other Works (i.e. Guard Rails) Total Cost					
shoulders and landscaping so water does not sit on the roads caus washouts or potholes. 1500m of 150mm grade raise allowance Spot Digouts or Improvements Shouldering Improvements Other Works (i.e. Guard Rails) Total Cost Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) S 19,000 Provide 75mm depth additional granulars -Lots of calcium used to keep dust levels down Repair) Total Cost S 19,000 Construction Works Cost Description Construction Works Cost Description Number Works (i.e. Guard Rail Repair) Full Depth Reconstruction S 3,000 Upgrade Surface to "tar and chip" Upgrade Surface to Asphalt S 990,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt S 135,000 S 135,000 S 105,000 S			_	-	
Grade Raise (Vertical Alignment Corrections) \$ 135,000 Spot Digouts or Improvements Shouldering Improvements Other Works (i.e. Guard Rails) Total Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 19,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 19,000 Gravel Addition (Depth) \$ 19,000 Construction Works (i.e. Guard Rail Repair) Total Cost \$ 19,000 Construction Works Description Total Cost Description Construction Works Description Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" \$ 990,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening Vertical Name and sullowance washouts or potholes. 1500m of 150mm grade raise allowance Washouts or potholes. 1500m of 150mm grade raise allowance Description Washouts or potholes. 1500m of 150mm grade raise allowance Description Washouts or potholes. 1500m of 150mm grade raise allowance Description Washouts or potholes. 1500m of 150mm grade raise allowance Description Washouts or potholes. 1500m of 150mm grade raise allowance Description Washouts or potholes. 1500m of 150mm grade raise allowance Description Washouts or potholes. 1500m of 150mm grade raise allowance Description Washouts or potholes. 1500m of 150mm grade raise allowance Description Washouts or potholes. 1500m of 150mm grade raise allowance Description Washouts or potholes. 1500m of 150mm grade raise allowance Description Washouts or potholes. 1500m of 150mm grade raise allowance Description Other Works (i.e. Guard Rail Description				_	_
Spot Digouts or Improvements			· -		_
Spot Digouts or Improvements Shouldering Improvements Other Works (i.e. Guard Rails) Total Cost Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 19,000 Provide 75mm depth additional granulars -Lots of calcium used to keep dust levels down Repair) Total Cost Cost Description Construction Works Cost Description Construction Works Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening Includes full depth reconstruction and widening Includes full depth reconstruction and widening	Grade Raise (Vertical Alignment		washouts or potholes. 1500m o	f 150mm grade i	raise allowance
Shouldering Improvements Other Works (i.e. Guard Rails) Total Cost \$ 231,000 Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 19,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 19,000 Construction Works Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening	Corrections)	\$ 135,000			
Other Works (i.e. Guard Rails) Total Cost \$ 231,000 Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 19,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 19,000 Construction Works Cost Description Construction Works Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening	Spot Digouts or Improvements				
Total Cost \$ 231,000 Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 19,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 19,000 Construction Works Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening	Shouldering Improvements				
Ongoing Maintenance Works Cost Description Shouldering Ditching Gravel Addition (Depth) \$ 19,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 19,000 Construction Works Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" \$ 713,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening	Other Works (i.e. Guard Rails)				
Cost Description	Total Cost	\$ 231,000			
Cost Description					
Shouldering Ditching Gravel Addition (Depth) \$ 19,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 19,000 Construction Works Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening				crintion	
Ditching Gravel Addition (Depth) \$ 19,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) Total Cost \$ 19,000 Construction Works Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening	Chauldanina	COST	Des	scription	
Gravel Addition (Depth) \$ 19,000 Provide 75mm depth additional granulars Other Works (i.e. Guard Rail Repair) -Lots of calcium used to keep dust levels down Total Cost \$ 19,000 Construction Works Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" \$ 713,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening					
Construction Works (i.e. Guard Rail Repair) -Lots of calcium used to keep dust levels down					
Total Cost \$ 19,000 Construction Works Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" \$ 713,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening		\$ 19,000	·	•	
Total Cost \$ 19,000 Construction Works Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" \$ 713,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening	· ·		-Lots of calcium used to keep du	ıst levels down	
Construction Works Cost Description Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" \$ 713,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening					
Cost Description	Total Cost	\$ 19,000			
Road Widening \$ 8,000 Widen road to 6.0m Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" \$ 713,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening		Cons	truction Works		
Full Depth Reconstruction \$ 558,700 Upgrade Surface to "tar and chip" \$ 713,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening			De	scription	
Upgrade Surface to "tar and chip" \$ 713,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening	Road Widening	\$ 8,000	Widen road to 6.0m		
Chip" \$ 713,000 Includes full depth reconstruction and widening Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening	Full Depth Reconstruction	\$ 558,700			
Upgrade Surface to Asphalt \$ 990,000 Includes full depth reconstruction and widening		\$ 713,000	Includes full depth reconstruction	on and widening	
General Notes: -Lack of material in areas to grade out a proper crown to drain water off road.	Upgrade Surface to Asphalt	\$ 990,000	Includes full depth reconstruction	on and widening	
	General Notes:	-Lack of material in area	is to grade out a proper crown to	o drain water off	road.

Villa	ge of Merrickville-	Wolford - Road Appraisal Form				
Road/Street Name	Phillips Road	Length of Road (km)	0.58			
From	Ireland Road	Platfrom Width (m)	6.1			
То	Dead End	Surface Width (m)	4.1			
Roadside Environment	Rural, Single Lane	Shoulder Width (m)	1			
Surface Type	Gravel	Right of Way Width (m)	20.1			
Traffic Counts	N/A	Boundary Road (Yes/No)	No			
Ditching Type	Open Ditch	Review Date:	2023-04-12			
Original Condition Rating	•	Prepared By:	Curtis Millar			
2023 Condition Rating		Reviewed By:	Michael Fadock			
	Road Impr	ovements and Costs				
	Spot Im	provement Works				
	Cost	Description				
Right of Way		-Brushed last year to edge of right of way.				
Culverts						
		-Ditch cleanout needed to regain postive drain	age in ditches and			
		remove vegetation so water flows to outlet in	-			
		100m from intersection and to an existing out				
		'-The rock is high in the ditches preventing pos				
Ditching	\$ 48,000	existing outlets in areas.	a. a.aage to			
	\$ 46,000	-Material needed to shape road into a proper	crown and to raise			
Grade Raise (Vertical Alignment		1				
Corrections)	\$ 54,000	the road base up to keep it dry. 600m of 150m	im grade raise			
Spot Digouts or Improvements						
Shouldering Improvements						
Other Works (i.e. Guard Rails)	\$ 150,000	rock removal				
Total Cost	\$ 252,000					
	Ongoing	 Maintenance Works				
	Cost	I				
Shouldering	COST	Description				
Ditching	ć 7,000	Duranida 75 area de eth additional acceptos				
Gravel Addition (Depth)	\$ 7,000	Provide 75mm depth additional granulars				
Other Works (i.e. Guard Rail						
Repair)						
Total Cost	\$ 7,000					
	Cons	truction Works				
	Cost	Description				
Road Widening	\$ 5,000	Widen road to 6.0m				
_		Triacii rodd to oloiii				
Full Depth Reconstruction	\$ 214,600					
Upgrade Surface to "tar and						
chip"	\$ 276,000	0 Includes full depth reconstruction and widening				
Cinp						
Upgrade Surface to Asphalt	\$ 382,000	000 Includes full depth reconstruction and widening				
General Notes:	-Lack of material in are	as to grade out a proper crown to drain water	off road.			

Villa	age of Merrickville-	Wolford - Road	Appraisal Form	I		
Road/Street Name	Willis Road		Length of Road (km)	0.8		
	Crystal Road		Platfrom Width (m)	6.4		
	Dead End		Surface Width (m)	4.4		
Roadside Environment			Shoulder Width (m)	1		
Surface Type			Right of Way Width (m)	20.1		
Traffic Counts			Boundary Road (Yes/No)	No		
Ditching Type			Review Date:	2023-04-12		
Original Condition Rating	'		Prepared By:	Curtis Millar		
2023 Condition Rating			Reviewed By:	Michael Fadock		
2023 Condition Nating	i ali		neviewed by.	IVIICIIaei i auock		
	Road Impr	ovements and Cost	<u>s</u>			
	Spot Im	provement Works				
	Cost		Description			
Right of Way	\$ 4,000	lines.	row and needs brushing to o			
			re #16 has water sitting on ei			
		lands prevents it fro	south side of the road but lan	uscaping on private		
Culverts	\$ 8,000			athoraed Deeles		
			or non-existent in areas alor			
	l .		es preventing them from bein			
Ditching	\$ 40,000		e to keep it dry and establish	ditches.		
Grade Raise (Vertical Alignment		150mm grade raise	e for 800m			
Corrections)	\$ 72,000					
		-At intersection wh	ere it transitions from surfac	e treatment to		
		gravel there is poth	noling. Some material needed	to shape the		
Spot Digouts or Improvements		transition.	_	·		
Shouldering Improvements						
Other Works (i.e. Guard Rails)	\$ 100,000	00 rock removal				
Total Cost		100.110.110				
		Maintenance Work				
	Cost		Description			
Shouldering						
Ditching						
Gravel Addition (Depth)	\$ 10,000	Provide 75mm dep	th additional granulars			
Other Works (i.e. Guard Rail						
Repair)						
Total Cost	\$ 10,000					
	Cons	truction Works				
	Cost	LI GUIOII VVOIKS	Description			
Road Widening	\$ 5,000	Widen road to 6.0n	•			
Nodu Wideiling		vviden rodu to 6.00	II .			
Full Depth Reconstruction	\$ 296,000					
Upgrade Surface to "tar and chip"	\$ 379,000	Includes full depth reconstruction and widening				
Upgrade Surface to Asphalt	\$ 525,000	000 Includes full depth reconstruction and widening				
General Notes:	-Lack of material in area	areas to grade out a proper crown to drain water off road.				

APPENDIX D

ROAD IMPROVEMENT PROGRAM

GRAVEL ROADS

- 1. Widen all gravel roads to a minimum surface width of 6.0m. The total one-time cost is estimated to be \$233,000.
- 2. Apply 75mm of new gravel to $1/3^{\rm rd}$ of the gravel roads each year to a surface width of 6.0m is anticipated to require 7,890 cu.m. of granular material, or 17,750 tonnes per year. The total cost of this is estimated to be \$228,000 per year.
- 3. HF McLean Rd. is the only gravel road that is in a condition to be considered for upgrading to an asphalt surface at this time. The estimated cost of upgrading this road (including spot repairs) to asphalt is \$435,000.00.

Summary Table of Road Needs Study 2023 Findings

Prepared By: Curtis Millar Reviewed By Michael Fadock Review Date: 2023-08-04

Issue Date 2023-08-04 Job No 23-5018A

													Į.		Costs (\$ / m)	370	97	280
Road/Street Name	Surface Type	Start location	End Location	Length (km)	2023 Condition Rating	Platform Width (m)	Surface Width (m)	Shoulder Width (m)	Right of Way Width (m)	Roadside Environment	Ditching Type	Cons	Repairs & struction Cost	Surface Widening Cos	Gravel Maintenance Cost	Full Depth Reconstruction Cost	Upgrade to Surface Treat Cost ('Chip and dip')	Upgrade to Asphalt Cost
Barber Rd	Gravel	Maitland Road	County Road #41	1.61	Poor	5.4	3.4	1	20.1	Rural, Single Lane	Open Ditch	\$	541,000	\$ 18,000	\$ 20,000	\$ 225,700	\$ 400,000	\$ 695,000
Barber Rd	Gravel	County Road #41	Dead End East	1.06	Poor	5.4	3.4	1	20.1	Rural, Single Lane	Open Ditch	\$	194,500	\$ 12,000	\$ 13,000	\$ 392,200	\$ 507,000	\$ 701,000
Bolton Rd	Gravel	Harvey Road	Pioneer Road	3.9	Poor	7.6	5.6	1	20.1	Rural, Single Lane	Open Ditch	\$	231,250	\$ 7,000	\$ 49,000	\$ 1,443,000	\$ 1,828,000	\$ 2,542,000
Carkner Rd South	Gravel	Weedmark Road	Muncipal Limit	0.3	Poor	5.5	3.5	1	12.3	Rural, Single Lane	Open Ditch	\$	135,000	\$ 3,000	\$ 4,000	\$ -	\$ 32,000	\$ 87,000
Carkner Rd North	Gravel	Barber Road	Muncipal Limit	0.4	Poor	5.5	3.5	1	12.3	Rural, Single Lane	Open Ditch	\$	33,900	\$ 4,000	\$ 5,000	\$ 148,000	\$ 191,000	\$ 264,000
Corkoran Rd N	Gravel	County Road #16	Dead End East	0.6	Poor	6.1	4.1	1	20.1	Rural, Single Lane	Open Ditch	\$	82,800	\$ 5,000	\$ 8,000	\$ 222,000	\$ 285,000	\$ 395,000
Corktown Rd	Gravel	Read Street	Boyd Landing Lane	2.3	Fair	8.5	6.5	1	12.2	Rural, Single Lane	Open Ditch	\$	458,600	\$ -	\$ 31,000	\$ 747,400	\$ 971,000	\$ 1,391,000
Corktown Rd	Gravel	Boyd Landing Lane	Corktown Lane	2.3	Fair	7.3	5.3	1	20.1	Rural, Double Lane	Open Ditch	\$	600,800	\$ 7,000	\$ 29,000	\$ 614,200	\$ 844,000	\$ 1,265,000
Gardiner Rd	Gravel	County Road #15	Dead End East	0.43	Fair	6.4	4.4	1	12.2	Rural, Single Lane	Open Ditch	\$	81,800	\$ 3,000	\$ 5,000	\$ 159,100	\$ 204,000	\$ 283,000
Gemmell Rd	Gravel	Roses Bridge Road	Dead End North	1.36	Fair	7.3	5.3	1	12.2	Rural, Single Lane	Open Ditch	\$	165,900	\$ 4,000	\$ 17,000	\$ 421,800	\$ 558,000	\$ 807,000
Hawley Rd	Gravel	Dead End West	Kilmarnock Road	1.32	Fair	6.5	4.5	1		Rural, Single Lane	Open Ditch	\$	79,500	\$ 8,000	\$ 17,000	\$ 432,900	\$ 569,000	\$ 811,000
HF McLean Rd	Gravel	County Road #15	Collar Hill Road	0.96	Good	8.5	6.5	1	20.1	Rural, Double Lane	Open Ditch	\$	165,500	\$ -	\$ 13,000	\$ -	\$ 93,000	\$ 269,000
Kerford Rd	Gravel	County Road #15	Snowdons Corners Road	2.57	Fair	7.3	5.3	1	20.1	Rural, Single Lane	Open Ditch	\$	572,000	\$ 8,000	\$ 32,000	\$ 728,900	\$ 986,000	\$ 1,457,000
Land O'Nod Rd	Gravel	Augusta Township Line	Bolton Road	6.38	Fair	7.6	5.6	1	11.6	Rural, Single Lane	Open Ditch	\$	684,000	\$ 11,000	\$ 80,000	\$ 2,138,600	\$ 2,768,000	\$ 3,936,000
Montague St.	Gravel	Gravel Start to South	Municipal Limit at Burchill Road	0.92	Good	7.6	5.6	1	20.1	Rural, Double Lane	Open Ditch	\$	190,000	\$ 2,000	\$ 12,000	\$ -	\$ 91,000	\$ 260,000
O'Brien Rd	Gravel	Dead End North	Burchill Road	1.29	Fair	6.4	4.4	1	20.1	Rural, Single Lane	Open Ditch	\$	200,000	\$ 9,000	\$ 16,000	\$ 329,300	\$ 463,000	\$ 700,000
Pioneer Rd	Gravel	Land O'Nod Road	Snowdons Corners Road	1.94	Fair	7	5	1	12.3	Rural, Single Lane	Open Ditch	\$	141,000	\$ 8,000	\$ 24,000	\$ 717,800	\$ 914,000	\$ 1,269,000
Pioneer Rd	Gravel	Bolton Road	Snowdons Corners Road	4.08	Poor	7	5	1	12.3 but varies	Rural, Single Lane	Open Ditch	\$	743,000	\$ 17,000	\$ 51,000	\$ 1,102,600	\$ 1,515,000	\$ 2,262,000
Snowdon Drive West	Gravel	Dead End West	Snowdons Corners Road	0.57	Poor	6	4	1	20.1	Rural, Single Lane	Open Ditch	\$	170,000	\$ 5,000	\$ 7,000	\$ 136,900	\$ 197,000	\$ 302,000
Snowdon Drive East	Gravel	Snowdons Corners Road	Pioneer Road	1.17	Fair	6	4	1	20.1	Rural, Single Lane	Open Ditch	\$	70,500	\$ 10,000	\$ 15,000	\$ 377,400	\$ 501,000	\$ 715,000
Sturgess Rd	Gravel	Dead End West	Kilmarnock Road	0.69	Good	6.1	4.1	1	15.4	Rural, Single Lane	Open Ditch	\$	82,000	\$ 6,000	\$ 9,000	\$ -	\$ 73,000	\$ 199,000
Weedmark Rd	Gravel	Willis Road	Box Culvert West of Maitland Road	3.1	Poor	6.1	4.1	1	20.1	Rural, Single Lane	Open Ditch	\$	367,000	\$ 25,000	\$ 39,000	\$ 1,036,000	\$ 1,362,000	\$ 1,929,000
Maitland Road	Gravel	Weedmark Road	Barber Road	1.55	Fair	7	5	1	20.1	Rural, Single Lane	Open Ditch	\$	255,000	\$ 7,000	\$ 20,000	\$ 388,500	\$ 546,000	\$ 830,000
Wolford Centre Rd	Gravel	County Road #15	Dead End East	2.36	Fair	6.4	4.4	1	20.1	Rural, Single Lane	Open Ditch	\$	304,000	\$ 16,000	\$ 30,000	\$ 873,200	\$ 1,118,000	\$ 1,550,000
Yule Rd.	Gravel	Atkins Lake Road	Weedmark Road	5.66	Poor	6.7	5.7	1	20.1	Rural, Single Lane	Open Ditch	\$	1,219,000	\$ 7,000	\$ 71,000	\$ 1,650,200	\$ 2,206,000	\$ 3,242,000
Carley's Corners Road	Gravel	Dead End	Residence #329	2.3	Poor	6.7	4.7	1	20.1	Rural, Single Lane	Open Ditch	\$	457,000	\$ 13,000	\$ 29,000	\$ 851,000	\$ 1,087,000	\$ 1,508,000
Ogilvie Lane	Gravel	Kilmarnock Road	Property Line	0.075	Good	7.2	5.2	1	N/A	Rural, Single Lane	Open Ditch	\$	11,950	\$ -	\$ 1,000	\$ -	\$ 7,000	\$ 21,000
Eastons Cornners Roads	Gravel		t, Park Street, t, Duncan Street	1.51	Fair	6.8	4.8	1	12.2	Rural, Single Lane	Open Ditch	\$	231,000	\$ 8,000	\$ 19,000	\$ 558,700	\$ 713,000	\$ 990,000
Phillips Road	Gravel	Ireland Road	Dead End	0.58	Poor	6.1	4.1	1	20.1	Rural, Single Lane	Open Ditch	\$	252,000	\$ 5,000	\$ 7,000	\$ 214,600	\$ 276,000	\$ 382,000
Willis Road	Gravel	Crystal Road	Dead End	0.8	Fair	6.4	4.4	1	20.1	Rural, Single Lane	Open Ditch	\$	224,000	\$ 5,000				
		-									Total	\$	8,944,000	\$ 233,000	\$ 683,000	\$ 16,206,000	\$ 21,684,000	\$ 31,587,000

12.45 \$/tonne 2.25 tonne/cu.m.

Gravel

Gravel

Note: 1. 'chip and dip' and asphalt upgrades include widening, and reconstruction costs, in addition to the surface cost

^{2.} costs for 'good' rated roads in 2023 do not include full depth reconstruction prices in the upgrade costs. This does not garuntee that selected areas of reconstruction (full depth digouts) are not required.

APPENDIX E-1 2023 BENCHMARK UNIT COSTS

ROAD UPGRADE RURAL - DOUBLE SURFACE TREATMENT

OPINION OF PROBABLE CONSTRUCTION COSTS COSTS PER 100m and 1m of ROADWORK

R_US 2023

Item Description	Quantity	Unit	Unit Price	Estimated Cost	Estimated Cost
	(per 100 m)			(per 100 m)	(per 1 m)
Earth Excavation (Grading)		m³	\$15.00	\$0.00	\$0.00
Scarify Existing		m²	\$2.00	\$0.00	\$0.00
Pulverize existing asphalt (200mm)		m²	\$2.25	\$0.00	\$0.00
Hot Mix HL 3 - Road (40mm)		m²	\$24.00	\$0.00	\$0.00
Hot Mix HL 3 - Road (50mm)		m²	\$28.50	\$0.00	\$0.00
Hot Mix HL 8 - Road (50mm)		m²	\$28.50	\$0.00	\$0.00
Granular 'A' (150mm)		m²	\$9.00	\$0.00	\$0.00
Granular 'A' (50mm)	700	m²	\$3.00	\$2,100.00	\$21.00
Granular 'B' (300mm)		m²	\$11.00	\$0.00	\$0.00
Asphalt Curb & Gutter		m	\$50.00	\$0.00	\$0.00
Asphalt Driveways Inc. 150mm of 'A' (50mm)		m²	\$55.00	\$0.00	\$0.00
Asphalt Driveways (50mm)		m²	\$40.00	\$0.00	\$0.00
Granular 'A' for Driveways (75mm)	41	m²	\$6.00	\$246.00	\$2.46
Granular 'A' for Boulevards (150mm)		m²	\$6.30	\$0.00	\$0.00
Granular 'A' for Shoulders (50mm)	300	m²	\$3.50	\$1,050.00	\$10.50
RAP material for Shoulders (50mm)		m²	\$6.00	\$0.00	\$0.00
150mm dia. Subdrains		m	\$40.00	\$0.00	\$0.00
SINGLE SURFACE TREATMENT		m²	\$2.83	\$0.00	\$0.00
DOUBLE SURFACE TREATMENT	700	m²	\$5.66	\$3,962.00	\$39.62
Grinding Asphalt (Single Lift)		m²	\$6.00	\$0.00	\$0.00
Removal of Asphalt (Full Depth)		m²	\$3.00	\$0.00	\$0.00
Removal of Culverts		m	\$30.00	\$0.00	\$0.00
Adjust Manholes / CB'S		ea	\$600.00	\$0.00	\$0.00
300mm dia. Entrance CSP Culvert (Galvanized)		m	\$175.00	\$0.00	\$0.00
400mm dia. Entrance CSP Culvert (Galvanized)		m	\$200.00	\$0.00	\$0.00
600mm dia. Centreline CSP Culvert (Galvanized)		m	\$400.00	\$0.00	\$0.00
Allowance for Storm Outlet		m	\$100.00	\$0.00	\$0.00
Topsoil (100mm)		m²	\$12.00	\$0.00	\$0.00
Seed and Mulch		m²	\$1.50	\$0.00	\$0.00
Calcium Chloride Flake (PROV)	50	kg	\$1.85	\$92.50	\$0.93
Traffic Signage	1	ea	\$250.00	\$250.00	\$2.50
Ditching (Topsoil and Sod)		m	\$52.00	\$0.00	\$0.00
Ditching (Topsoil and Seed)		m	\$33.00	\$0.00	\$0.00

SUBTOTAL	\$7,701	\$77
Contingency Allowance (10%)	\$770	\$8
SUBTOTAL	\$8,471	\$85
Engineering (15)	\$1,271	\$13
TOTAL	\$9,741	\$97
<u> </u>	+HST	+HST

RURAL - PAVE WITH 1 LIFT OF ASPHALT

OPINION OF PROBABLE CONSTRUCTION COSTS COSTS PER 100m and 1m of ROADWORK

R_UP 2023

Item Description	Quantity	Unit	Unit Price	Estimated Cost	Estimated Cost
	(per 100 m)			(per 100 m)	(per 1 m)
Earth Excavation (Grading)		m³	\$15.00	\$0.00	\$0.00
Scarify Existing		m²	\$2.00	\$0.00	\$0.00
Pulverize existing asphalt (200mm)		m²	\$2.25	\$0.00	\$0.00
Hot Mix HL 3 - Road (40mm)		m²	\$24.00	\$0.00	\$0.00
Hot Mix HL 3 - Road (50mm)	650	m²	\$28.50	\$18,525.00	\$185.25
Hot Mix HL 8 - Road (50mm)		m²	\$28.50	\$0.00	\$0.00
Granular 'A' (150mm)		m²	\$9.00	\$0.00	\$0.00
Granular 'A' (50mm)	650	m²	\$3.00	\$1,950.00	\$19.50
Granular 'B' (300mm)		m²	\$11.00	\$0.00	\$0.00
Asphalt Curb & Gutter		m	\$50.00	\$0.00	\$0.00
Asphalt Driveways Inc. 150mm of 'A' (50mm)		m²	\$55.00	\$0.00	\$0.00
Asphalt Driveways (50mm)		m²	\$40.00	\$0.00	\$0.00
Granular 'A' for Driveways (75mm)	41	m²	\$6.00	\$246.00	\$2.46
Granular 'A' for Boulevards (150mm)		m²	\$6.30	\$0.00	\$0.00
Granular 'A' for Shoulders (50mm)	300	m²	\$3.50	\$1,050.00	\$10.50
RAP material for Shoulders (50mm)		m²	\$6.00	\$0.00	\$0.00
150mm dia. Subdrains		m	\$40.00	\$0.00	\$0.00
SINGLE SURFACE TREATMENT		m²	\$2.83	\$0.00	\$0.00
DOUBLE SURFACE TREATMENT		m²	\$5.66	\$0.00	\$0.00
Grinding Asphalt (Single Lift)		m²	\$6.00	\$0.00	\$0.00
Removal of Asphalt (Full Depth)		m²	\$3.00	\$0.00	\$0.00
Removal of Culverts		m	\$30.00	\$0.00	\$0.00
Adjust Manholes / CB'S		ea	\$600.00	\$0.00	\$0.00
300mm dia. Entrance CSP Culvert (Galvanized)		m	\$175.00	\$0.00	\$0.00
400mm dia. Entrance CSP Culvert (Galvanized)		m	\$200.00	\$0.00	\$0.00
600mm dia. Centreline CSP Culvert (Galvanized)		m	\$400.00	\$0.00	\$0.00
Allowance for Storm Outlet		m	\$100.00	\$0.00	\$0.00
Topsoil (100mm)		m²	\$12.00	\$0.00	\$0.00
Seed and Mulch		m²	\$1.50	\$0.00	\$0.00
Calcium Chloride Flake (PROV)	50	kg	\$1.85	\$92.50	\$0.93
Traffic Signage	1	ea	\$250.00	\$250.00	\$2.50
Ditching (Topsoil and Sod)		m	\$52.00	\$0.00	\$0.00
Ditching (Topsoil and Seed)		m	\$33.00	\$0.00	\$0.00
		·			

SUBTOTAL	\$22,114	\$221
Contingency Allowance (10%)	\$2,211	\$22
SUBTOTAL	\$24,325	\$243
Engineering (15)	\$3,649	\$36
TOTAL	\$27,974	\$280
	+HST	+HST

ROAD RECONSTRUCTION

RURAL SECTION - GRANULAR SHOULDERS w/ DITCHING

GRAVEL SURFACE AND BASE

OPINION OF PROBABLE CONSTRUCTION COSTS COSTS PER 100m and 1m of ROADWORK

GBS 2023

Item Description	Quantity	Unit	Unit Price	Estimated Cost	Estimated Cost
	(per 100 m)			(per 100 m)	(per 1 m)
Earth Excavation (Grading)	600	m³	\$15.00	\$9,000.00	\$90.00
Scarify Existing		m²	\$2.00	\$0.00	\$0.00
Pulverize existing asphalt (200mm)		m²	\$2.25	\$0.00	\$0.00
Hot Mix HL 3 - Road (40mm)		m²	\$24.00	\$0.00	\$0.00
Hot Mix HL 3 - Road (50mm)		m²	\$28.50	\$0.00	\$0.00
Hot Mix HL 8 - Road (50mm)		m²	\$28.50	\$0.00	\$0.00
Granular 'A' (150mm)	700	m²	\$9.00	\$6,300.00	\$63.00
Granular 'A' (50mm)		m²	\$3.00	\$0.00	\$0.00
Granular 'B' (300mm)	950	m²	\$11.00	\$10,450.00	\$104.50
Asphalt Curb & Gutter		m	\$50.00	\$0.00	\$0.00
Asphalt Driveways Inc. 150mm of 'A' (50mm)		m²	\$55.00	\$0.00	\$0.00
Asphalt Driveways (50mm)		m²	\$40.00	\$0.00	\$0.00
Granular 'A' for Driveways (150mm)	41	m²	\$12.00	\$492.00	\$4.92
Granular 'A' for Boulevards (150mm)		m²	\$6.30	\$0.00	\$0.00
Granular 'A' for Shoulders (50mm)		m²	\$3.50	\$0.00	\$0.00
RAP material for Shoulders (50mm)		m²	\$6.00	\$0.00	\$0.00
150mm dia. Subdrains		m	\$40.00	\$0.00	\$0.00
SINGLE SURFACE TREATMENT		m²	\$2.83	\$0.00	\$0.00
DOUBLE SURFACE TREATMENT		m²	\$5.66	\$0.00	\$0.00
Grinding Asphalt (Single Lift)		m²	\$6.00	\$0.00	\$0.00
Removal of Asphalt (Full Depth)		m²	\$3.00	\$0.00	\$0.00
Removal of Culverts		m	\$30.00	\$0.00	\$0.00
Adjust Manholes / CB'S		ea	\$600.00	\$0.00	\$0.00
300mm dia. Entrance CSP Culvert (Galvanized)		m	\$175.00	\$0.00	\$0.00
400mm dia. Entrance CSP Culvert (Galvanized)	5	m	\$200.00	\$1,000.00	\$10.00
600mm dia. Centreline CSP Culvert (Galvanized)	3	m	\$400.00	\$1,200.00	\$12.00
Allowance for Storm Outlet		m	\$100.00	\$0.00	\$0.00
Topsoil (100mm)		m²	\$12.00	\$0.00	\$0.00
Seed and Mulch		m²	\$1.50	\$0.00	\$0.00
Calcium Chloride Flake (PROV)	50	kg	\$1.85	\$92.50	\$0.93
Traffic Signage	1	ea	\$1.00	\$1.00	\$0.01
Ditching (Topsoil and Sod)		m	\$52.00	\$0.00	\$0.00
Ditching (Topsoil and Seed)		m	\$33.00	\$0.00	\$0.00

SUBTOTAL	\$28,536	\$285
Contingency Allowance (10%)	\$2,854	\$29
SUBTOTAL	\$31,389	\$314
Engineering (15)	\$4,708	\$47
TOTAL	\$36,097	\$370
	+HST	+HST

APPENDIX E-2 SAMPLE RURAL ROAD CROSS SECTION

